



## "ZM KOLNO" S.A.

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[www.zmkolno.pl](http://www.zmkolno.pl)

## O firmie

Wybudowany w 1974 roku zakład produkcyjny rozpoczął swoją działalność od produkcji kłów obrotowych i podstawowych rodzajów oprawek narzędziowych do frezarek konwencjonalnych.

Aktualnie ZM Kolno S.A. jest kontynuatorem ponad 37 letniej tradycji produkcji oprzyrządowania technologicznego do obróbki skrawaniem. W swoim programie produkcji posiada bardzo szeroki asortyment wyrobów przeznaczonych do mocowania narzędzi lub przedmiotów obrabianych w procesach obróbki skrawaniem realizowanych zarówno na obrabiarkach konwencjonalnych jak i nowoczesnych centrach obróbkowych.

Z uwagi na wysoką jakość i funkcjonalność dostarczane pod marką BISON produkty ZM Kolno S.A. są doskonale znane klientom w kraju i za granicą.



1973 - budowa zakładu



## About the company...

The manufacturing plant was built in 1974 and started with the production of live centres and the basic kinds of chucks for conventional milling machines.

Nowadays ZM Kolno S.A. continues the over 37 year tradition of producing technological equipment for machining. In its production program ZM Kolno offers a wide assortment of equipment used to insert tools as well as the workpiece while machining on conventional machines and modern machining centers.

Considering the high quality and functionality of ZM Kolno products delivered under the BISON brand they are well known both at home and abroad.





## Oferta ZM Kolno S.A.

**Oferta produktowa** - skierowana jest do użytkowników oprzyrządowania technologicznego w układzie metrycznym i calowym. Oferujemy wyroby katalogowe:

- oprawki frezarskie i tulejki zaciskowe,
- tuleje redukcyjne i przedłużające,
- kły tokarskie stałe i obrotowe,
- hydrauliczne zabieraki tokarskie czołowe,
- imaki tokarskie szybkozmiennne,
- trzpienie i uchwyty wiertarskie.

Produkujemy też wyroby specjalne, dostosowane do indywidualnego życzenia klienta.

**Oferta usługowa** – obejmuje usługi produkcyjne:

- toczenie,
- frezowanie,
- wiercenie i gwintowanie,
- szlifowanie wałków, otworów i płaszczyzn,
- obróbka cieplna i cieplno-chemiczna: nawęglanie, hartowanie, odpuszczanie i wyżarzanie,
- obróbka powierzchniowa: czernienie, piaskowanie i śrutowanie,
- znakowanie laserowe.

Zapraszamy Państwa do współpracy.



## ZM Kolno S.A. offer:

**Product range** – Our products are directed towards the users of technological equipment of both: metric and imperial units. Our offer includes standard catalogue products such as:

- Milling machine chucks,
- Reduction and extension sleeves,
- Live and dead centres,
- Hydraulic face drivers,
- Quick change toolposts and toolholders,
- Drill chucks and arbors.

We also produce special products adjusted to the individual requirements of our customers.

**Service range** - Our offer consists of production services such as:

- Turning,
- Machining,
- Drilling and rifling,
- Grinding of surfaces, openings, cylindrical grinding,
- Heat and chemical treatment such as: carburetion, hardening, tempering and annealing,
- Service treatment such as: blackening, sandblasting, grinding,
- Laser marking.

We invite you to cooperation with ZM Kolno !







**DIN 69871**


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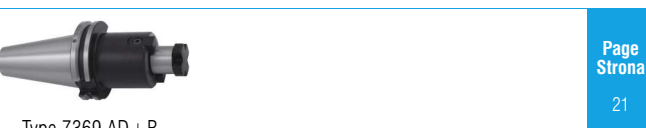

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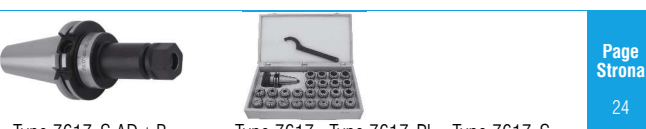

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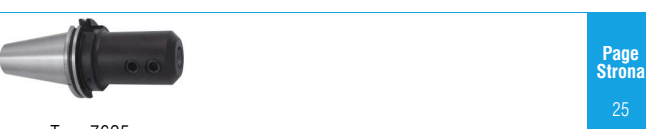

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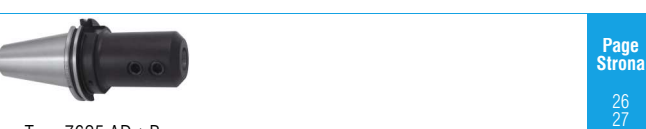
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**MAS 403-BT**


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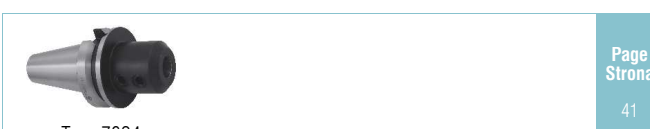

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## MAS 403-BT

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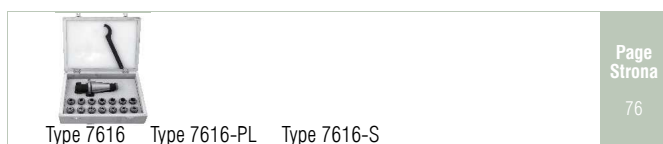
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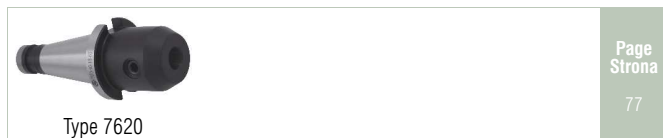


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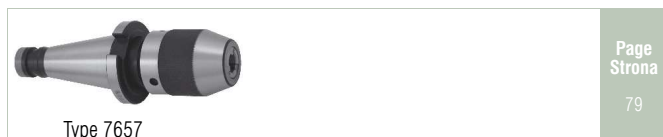
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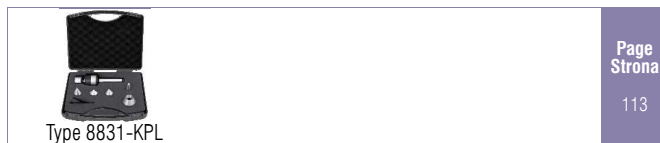
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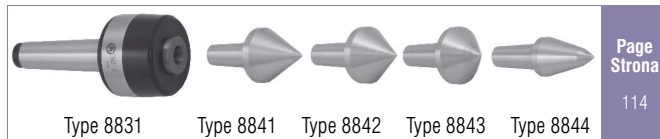
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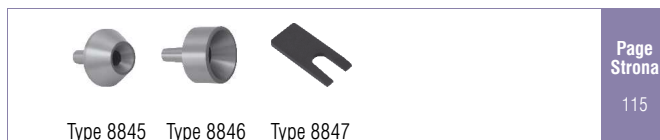
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## SPARE PARTS FOR TOOLPOST CZĘŚCI ZAMIENNE DO IMAKA TOKARSKIEGO



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## ACCESSORIES • CZĘŚCI ZAMIENNE



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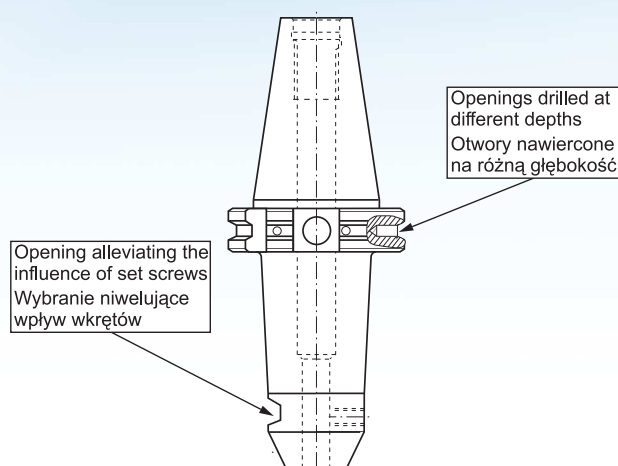
## Szybkowymienne oprawki wyważane

Obróbka skrawaniem metodą frezowania przy użyciu narzędzi najnowszej generacji wymaga stosowania bardzo wysokich parametrów. Wrzeciona obrabiarek pracują z prędkościami dochodzącymi nawet do 40 000 obr/min. Mając na uwadze dokładność obróbki, właściwą pracę narzędzia oraz ochronę łożyskowania wrzeciona obrabiarki przed nierównomiernym obciążeniem, należy stosować oprawki wyważane. Dotyczy to szczególnie oprawek z chwytem wykonanym wg normy DIN-69871 oraz MAS-403 BT.

Powszechnie stosowanym parametrem wyważenia oprawki jest klasa wyważenia G. Podawana jest ona razem z wartością określającą wartość niewyważenia resztkowego jakie może posiadać oprawka, przykładowo: G16; G6,3; G2,5. Im mniejsza wartość niewyważenia resztkowego, tym oprawka jest dokładniej wyważona. Oprócz klasy wyważenia, parametrem koniecznym do przeprowadzenia procesu wyważania jest dopuszczalna prędkość obrotowa oprawki, zależna od parametrów obrabiarki na jakiej będzie ona stosowana.

Obecnie standardem stały się oprawki wyważane w klasie G6,3 do  $n_{max} = 15\,000$  obr/min. Na życzenie klienta możliwe jest wyważenie w wyższych klasach oraz do wyższych obrotów dopuszczalnych.

Proces wyważania dynamicznego oprawek prowadzony jest na wyważarkach włoskiej firmy CEMB. Korekcja wyważenia odbywa się metodą ubytkową i polega na nawiercaniu w kołnierzu oprawki szeregu otworów o określonej głębokości. Możliwe jest też wykonanie wybrań korygujących zaburzenia rozkładu masy spowodowane stosowaniem elementów konstrukcyjnych oprawki (np. wkręty dociskowe w oprawkach do narzędzi z chwytem Weldon). Przypadek ten przedstawiony jest na poniższym rysunku.



Chcąc zamówić oprawkę wyważoną należy podać:

- w jakiej klasie dokładności G ma zostać ona wyważona;
- do jakich prędkości obrotowych  $n_{max}$  będzie stosowana.

## High-speed, balanced holders

Machining with the use of the newest generation cutting tools requires using very high parameters. The grinding machine spindle rotational speeds can reach up to 40000 rpm. Considering the precision of processing, the correct work of the tool and protection of the bearing it's best to use balanced holders. It's especially important to use balanced holders when using DIN-69871 and MAS-403 BT holders.

The standard parameter for balancing tool holders is the G-class symbol. It is quoted including the value of unbalance of the tool holder. For example: G16, G6,3, G2,5. The smaller the number of unbalance the more precise is the balance of the tool holder and the better conditions of work. Aside the class of balance of the tool holder another important aspect is the max. speed of the machine spindle rotations, depending on the parameters of the used lathe.

As for today the standard holders are the ones with class of unbalance G6,3 at  $n_{max} = 15\,000$  rpm. For customer request there is a possibility to produce tool holders with higher classes of unbalance and for higher spindle rotations.

The process of dynamic balancing of the tool holders is done on Italian balancing machines CEMB. The correction of the balance process uses the "loss method" which consists of drilling small openings of specified depth. It is possible to make openings correcting the weight distribution disturbances caused by using construction elements of the holders (such as set screws in tool holders for Weldon flat). Such an example can be found on the drawing below:

When ordering a balanced holder please be sure to send the following information:

- The G-class the tool holder is suppose to be balanced in.
- The  $n_{max}$  rotation speed of the machine the holder will be used on.



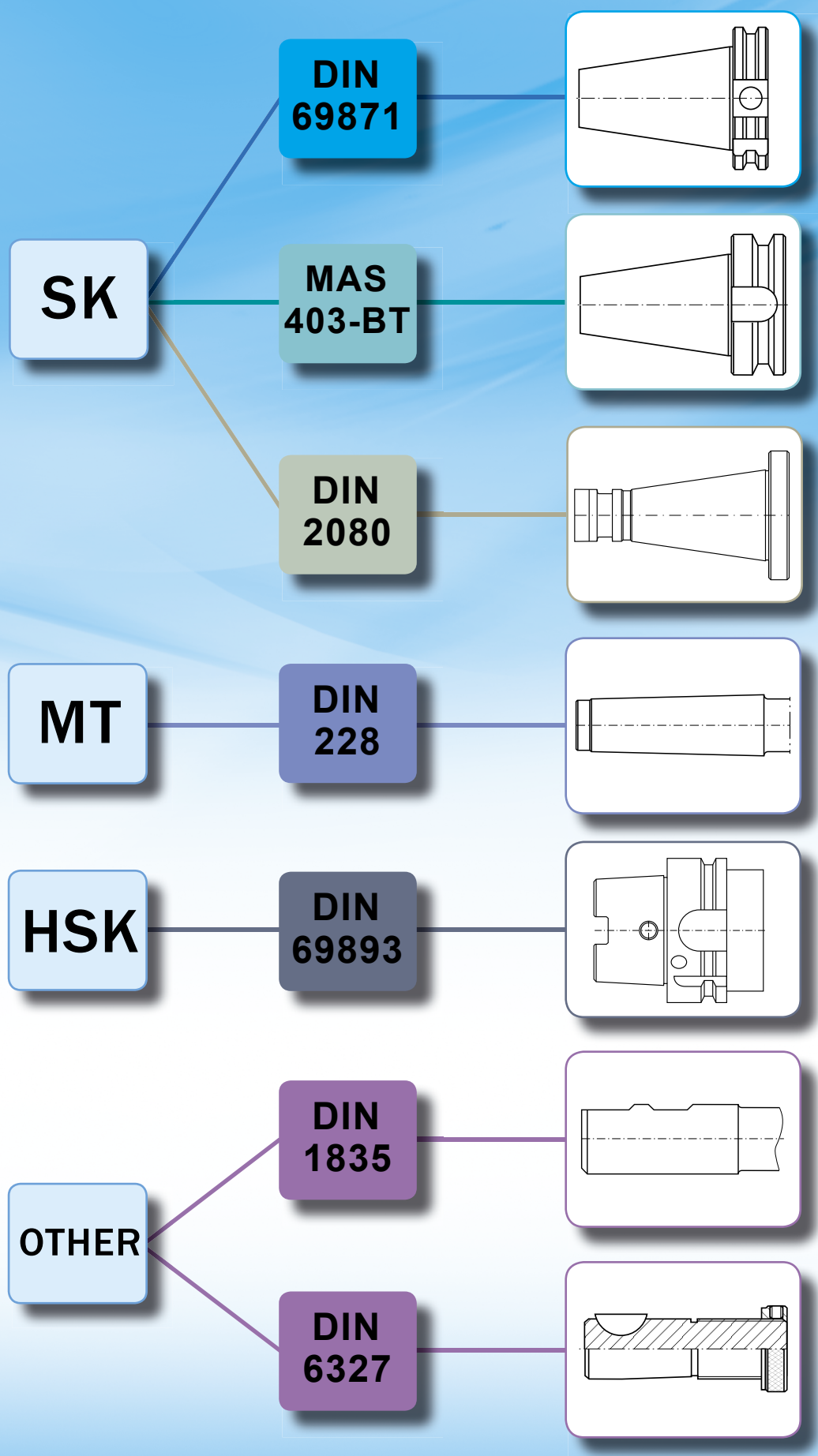
Oprawki oznaczone znakiem podlegają procesowi wyważenia na zamówienie klienta.

Tool holders signed with this mark: Can be balanced on the customer's request.



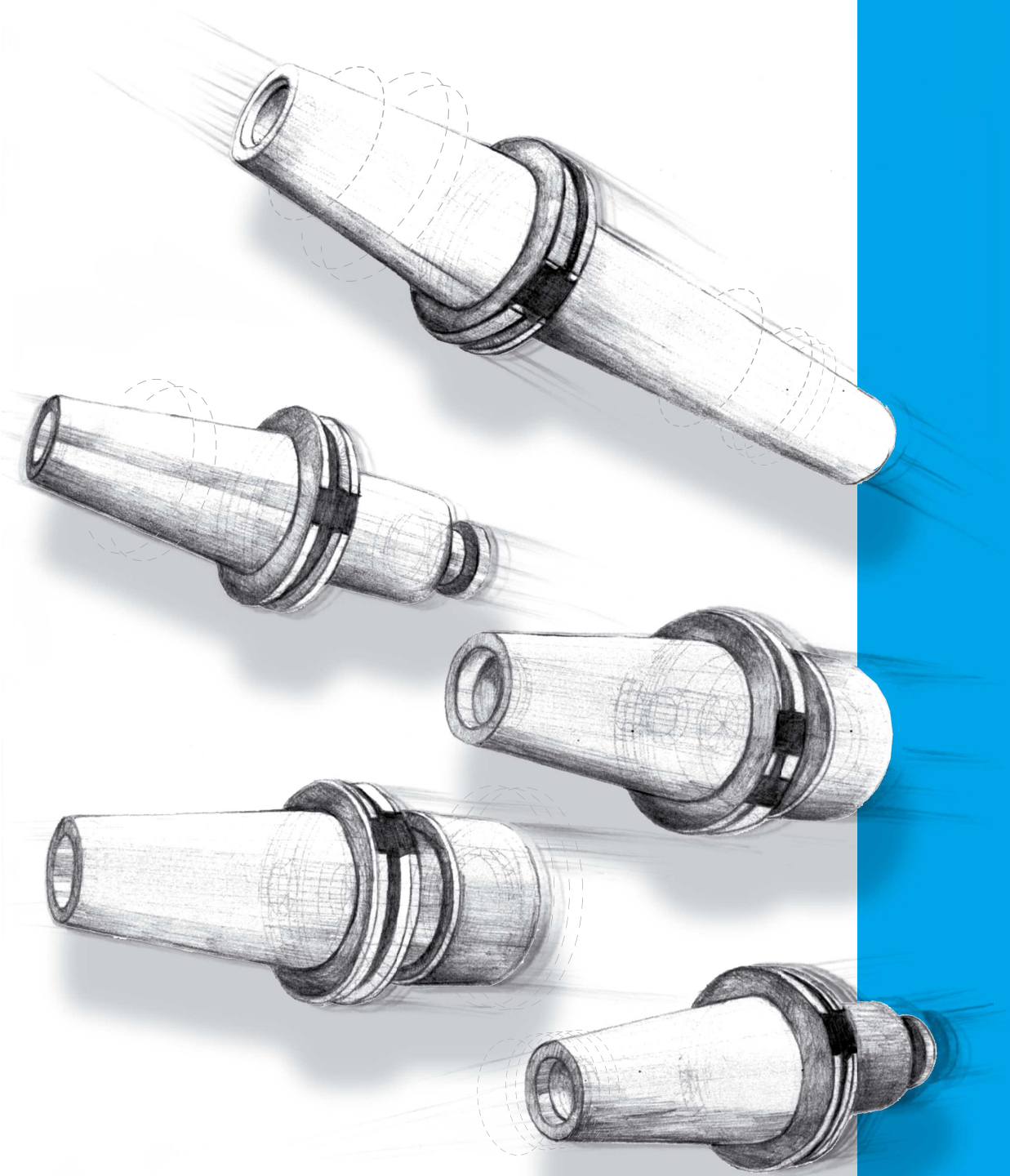
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|---------------------------------------------------|--------------------------------|----------|
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| <b>MAS 403-BT</b>                                 | Page/Strona<br><b>31 - 48</b>  | <b>2</b> |
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DIN 69871



**BISON** BIAL

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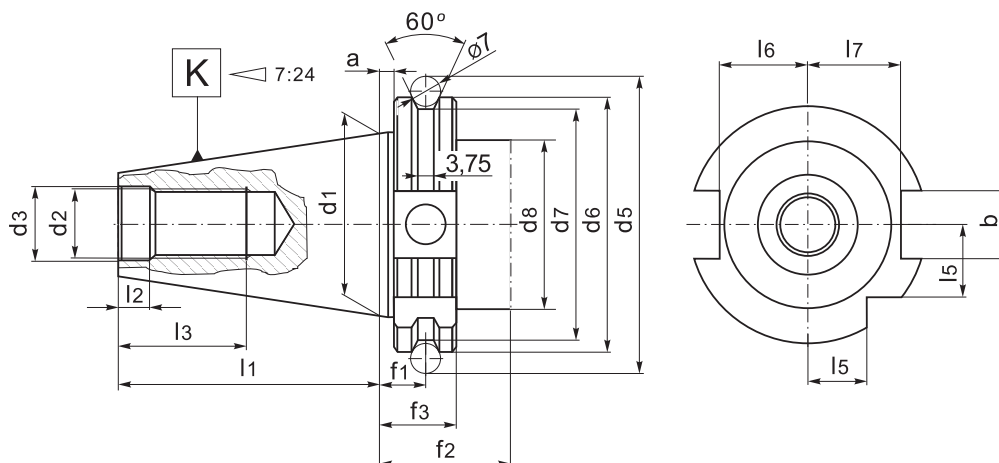
# DIN 69871-A

## TOOL SHANKS

with 7:24 for automatic tool exchange

## CHWYT

ze stożkiem 7:24 do wymiany automatycznej



| K<br>7:24 | a   | bH12 | d1    | d2  | d3H7 | d5     | d6    | d7    | d8 <sub>max</sub> |
|-----------|-----|------|-------|-----|------|--------|-------|-------|-------------------|
| 30        | 3,2 | 16,1 | 31,75 | M12 | 13   | 59,30  | 50,00 | 44,30 | 45                |
| 40        | 3,2 | 16,1 | 44,45 | M16 | 17   | 72,30  | 63,55 | 56,25 | 50                |
| 50        | 3,2 | 25,7 | 69,85 | M24 | 25   | 107,25 | 97,50 | 91,25 | 80                |

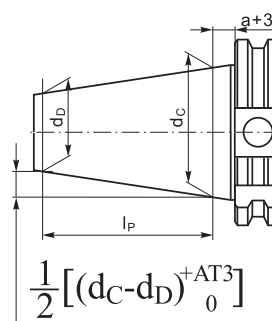
| K<br>7:24 | f1   | f2 <sub>min</sub> | f3   | l1     | l2   | l3 | l5   | l6   | l7   |
|-----------|------|-------------------|------|--------|------|----|------|------|------|
| 30        | 11,1 | 35                | 19,1 | 47,80  | 5,5  | 24 | 15,0 | 16,4 | 19,0 |
| 40        | 11,1 | 35                | 19,1 | 68,40  | 8,2  | 32 | 18,5 | 22,8 | 25,0 |
| 50        | 11,1 | 35                | 19,1 | 101,75 | 11,5 | 47 | 30,0 | 35,5 | 37,7 |

## STANDARD FEATURES OF TOOLING

- Manufactured with Chrome Manganese steel.
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT3.

## CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa.
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka At3.



| K<br>7:24 | d <sub>c</sub> -d <sub>b</sub> | l <sub>p</sub> | a   | AT3   |
|-----------|--------------------------------|----------------|-----|-------|
| 30        | 12,250                         | 42             | 3,2 | 0,002 |
| 40        | 17,208                         | 59             | 3,2 | 0,003 |
| 50        | 26,833                         | 92             | 3,2 | 0,004 |



## Type 1606



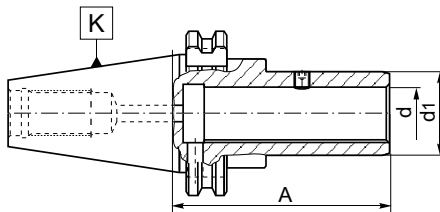
## DIN 69871-AD

### HOLDERS

for adjustable adapters DIN 6327

### OPRAWKI

do trzpieni i tulei z regulacją osiową DIN 6327



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |
|------------------|-----------|----|----|-----|----------|
| 0642 116 060 404 | 40        | 16 | 25 | 75  | U-1997/0 |
| 0642 116 060 506 |           | 20 | 32 | 80  | U-1997/0 |
| 0642 116 060 608 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 060 700 |           | 36 | 50 | 115 | U-7381/0 |
|                  |           |    |    |     |          |
| 0642 116 060 801 | 50        | 16 | 25 | 85  | U-1997/0 |
| 0642 116 060 903 |           | 20 | 32 | 85  | U-1997/0 |
| 0642 116 061 008 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 061 100 |           | 36 | 50 | 100 | U-7381/0 |
| 0642 116 061 201 |           | 48 | 67 | 105 | U-7382/0 |

Typical order/Sposób zamawiania: 0642 116 060 506 lub 1606-40-20-80

## Type 1681



## DIN 69871-AD

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A

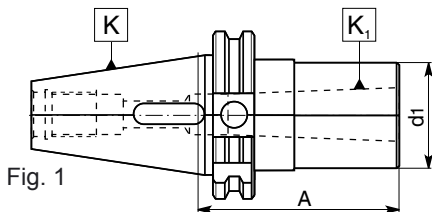


Fig. 1

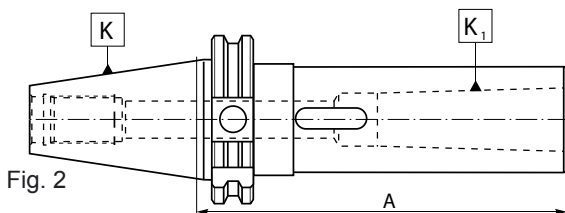


Fig. 2

| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |
|------------------|-----------|-------------|-----|----|------|
| 0642 116 810 119 | 30        | 1           | 50  | 25 | 1    |
| 0642 116 810 210 |           | 2*          | 60  | 32 | 1    |
| 0642 116 810 312 |           | 3*          | 80  | 40 | 1    |
|                  |           |             |     |    |      |
| 0642 116 810 106 | 40        | 1           | 50  | 25 | 1    |
| 0642 116 810 208 |           | 2           | 50  | 32 | 1    |
| 0642 116 810 300 |           | 3*          | 70  | 40 | 1    |
| 0642 116 810 401 |           | 4*          | 95  | 48 | 1    |
| 0642 116 810 503 |           | 1           | 120 | 25 | 2    |
| 0642 116 810 605 |           | 2           | 120 | 32 | 2    |
| 0642 116 810 707 |           | 3*          | 135 | 40 | 2    |
| 0642 116 810 809 |           | 4*          | 165 | 48 | 2    |
|                  |           |             |     |    |      |
| 0642 116 811 107 | 50        | 1           | 45  | 25 | 1    |
| 0642 116 811 209 |           | 2           | 60  | 32 | 1    |
| 0642 116 811 300 |           | 3           | 65  | 40 | 1    |
| 0642 116 811 402 |           | 4           | 95  | 48 | 1    |
| 0642 116 811 504 |           | 5*          | 105 | 63 | 1    |
| 0642 116 811 606 |           | 1           | 120 | 25 | 2    |
| 0642 116 811 708 |           | 2           | 135 | 32 | 2    |
| 0642 116 811 800 |           | 3           | 155 | 40 | 2    |
| 0642 116 811 901 |           | 4           | 180 | 48 | 2    |
| 0642 116 812 108 |           | 5*          | 215 | 63 | 2    |

Typical order/Sposób zamawiania: 0642 116 811 300 lub 1681-50-3-65

\* only for tools with Morse taper and tang DIN 228-B shank  
\* tylko do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B

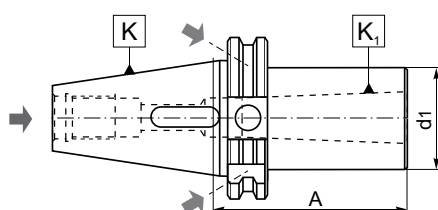
**1**
**Type 1681 AD+B**

**DIN 69871-AD+B**
**REDUCING ADAPTERS**

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

**TULEJE REDUKCYJNE**

do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 |
|------------------|-----------|-------------|-----|----|
| 0642 116 818 307 | 40        | 2           | 50  | 32 |
| 0642 116 818 409 |           | 3*          | 70  | 40 |
| 0642 116 818 500 |           | 4*          | 95  | 48 |
|                  |           |             |     |    |
| 0642 116 819 308 | 50        | 2           | 60  | 32 |
| 0642 116 819 400 |           | 3           | 65  | 40 |
| 0642 116 819 501 |           | 4           | 95  | 48 |
| 0642 116 819 603 |           | 5*          | 120 | 63 |

Typical order/Sposób zamawiania: 0642 116 819 603 lub 1681-50-5-120 AD+B

\* only for tools with Morse taper and tang DIN 228-B shank

\* tylko do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B

**Type 1682**

**DIN 69871-A**
**REDUCING ADAPTERS**

for tools with Morse taper shank and drawbar thread DIN 228-A

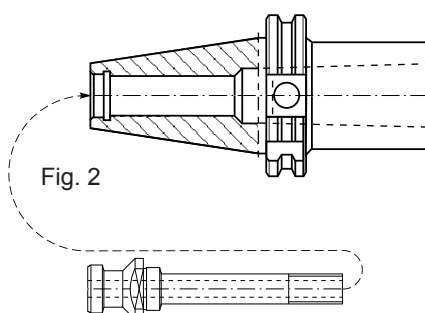
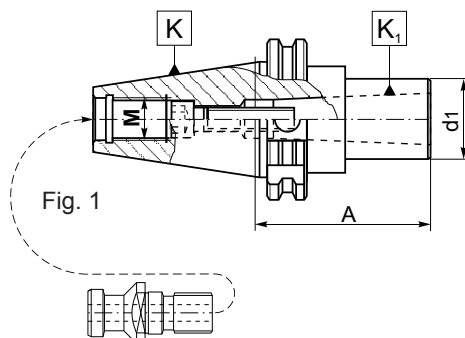
**TULEJE REDUKCYJNE**

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A  | d1 | M   | fig. |          |
|------------------|-----------|-------------|----|----|-----|------|----------|
| 0642 116 820 104 | 40        | 1           | 45 | 25 | M16 | 1    | W-1091/0 |
| 0642 116 820 206 |           | 2           | 60 | 32 | M16 | 1    | W-1092/0 |
| 0642 116 820 308 |           | 3           | 75 | 40 | —   | 2    | —        |
| 0642 116 820 400 |           | 4           | 85 | 48 | —   | 2    | —        |
|                  |           |             |    |    |     |      |          |
| 0642 116 821 105 | 50        | 1           | 45 | 25 | M24 | 1    | W-1091/0 |
| 0642 116 821 207 |           | 2           | 45 | 32 | M24 | 1    | W-1095/0 |
| 0642 116 821 309 |           | 3           | 60 | 40 | M24 | 1    | W-1096/0 |
| 0642 116 821 400 |           | 4           | 75 | 48 | M24 | 1    | U-5984/0 |
| 0642 116 821 502 |           | 5           | 75 | 63 | —   | 2    | —        |

Typical order/Sposób zamawiania: 0642 116 821 502 lub 1682-50-5-75



## Type 1684



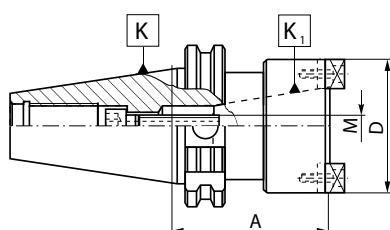
## DIN 69871-AD

### TAPER ADAPTERS

for tools with 7:24 taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem 7:24



| Code No / Kod Nr | K<br>7:24 | K1<br>7:24 | A  | D  | M   |          |
|------------------|-----------|------------|----|----|-----|----------|
| 0642 116 840 508 | 50        | 40         | 80 | 88 | M16 | U-6227/0 |

Typical order/Sposób zamawiania: 0642 116 840 508 lub 1684-50-40-80

## Type 1695



## DIN 69871-AD

### REDUCING ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A

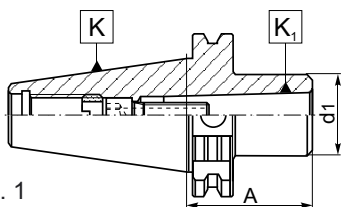


Fig. 1

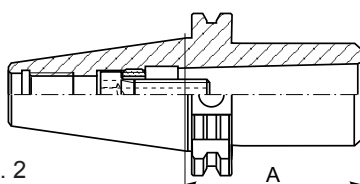


Fig. 2

| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |          |
|------------------|-----------|-------------|-----|----|------|----------|
| 0642 116 952 108 | 30        | 1           | 50  | 25 | 1    | W-1091/0 |
| 0642 116 952 200 |           | 2           | 60  | 32 | 2    | W-1095/0 |
| 0642 116 952 301 |           | 3           | 85  | 40 | 2    | U-7790/0 |
|                  |           |             |     |    |      |          |
| 0642 116 950 106 | 40        | 1           | 50  | 25 | 1    | W-1091/0 |
| 0642 116 950 208 |           | 2           | 50  | 32 | 1    | W-1092/0 |
| 0642 116 950 300 |           | 3           | 70  | 40 | 2    | W-1093/0 |
| 0642 116 950 401 |           | 4           | 95  | 48 | 2    | W-1094/0 |
|                  |           |             |     |    |      |          |
| 0642 116 951 107 | 50        | 1           | 45  | 25 | 1    | W-1091/0 |
| 0642 116 951 209 |           | 2           | 60  | 32 | 1    | W-1095/0 |
| 0642 116 951 300 |           | 3           | 65  | 40 | 1    | W-1096/0 |
| 0642 116 951 402 |           | 4           | 95  | 48 | 1    | W-1097/0 |
| 0642 116 951 504 |           | 5           | 120 | 63 | 2    | W-1098/0 |

Typical order/Sposób zamawiania: 0642 116 951 504 lub 1695-50-5-120

**1**
**Type 1695**

**DIN 69871-AD+B**
**REDUCING ADAPTERS**

for tools with Morse taper shank and drawbar thread DIN 228-A

**TULEJE REDUKCYJNE**

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |  |
|------------------|-----------|-------------|-----|----|------|-------------------------------------------------------------------------------------|
| 0642 116 955 304 | 40        | 2           | 50  | 32 | 1    | W-1092/0                                                                            |
| 0642 116 955 406 |           | 3           | 70  | 40 | 2    | W-1093/0                                                                            |
| 0642 116 955 508 |           | 4           | 95  | 48 | 2    | W-1094/0                                                                            |
|                  |           |             |     |    |      |                                                                                     |
| 0642 116 956 305 | 50        | 2           | 60  | 32 | 1    | W-1095/0                                                                            |
| 0642 116 956 407 |           | 3           | 65  | 40 | 1    | W-1096/0                                                                            |
| 0642 116 956 509 |           | 4           | 95  | 48 | 1    | W-1097/0                                                                            |
| 0642 116 956 600 |           | 5           | 120 | 63 | 2    | W-1098/0                                                                            |

Typical order/Sposób zamawiania: 0642 116 956 600 lub 1695-50-5-120 AD+B

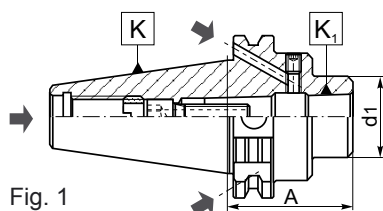


Fig. 1

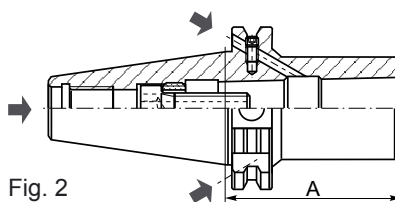
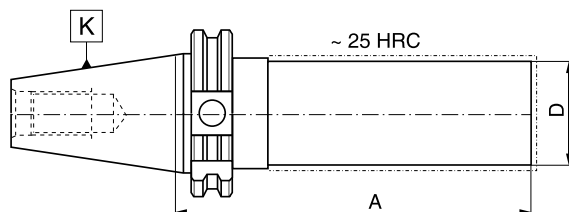


Fig. 2

**Type 2191**

**DIN 69871-A**
**BLANK ADAPTERS**
**TRZPIEŃ - PÓŁFABRYKAT**


| Code No / Kod Nr | K<br>7:24 | D  | A   |
|------------------|-----------|----|-----|
| 0642 121 910 209 | 40        | 40 | 280 |
| 0642 121 910 300 |           | 63 | 280 |
|                  |           |    |     |
| 0642 121 911 200 | 50        | 50 | 330 |
| 0642 121 911 301 |           | 80 | 330 |

Typical order/Sposób zamawiania: 0642 121 911 301 lub 2191-50-80-330



## Type 2827


**DIN 69871-A**

### ADAPTERS

for indexable milling cutters

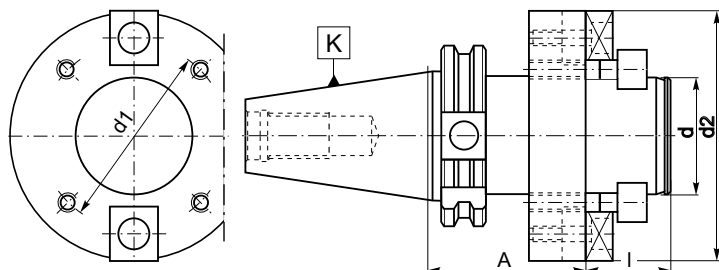
### TRZPIENIE FREZARSKIE

do głowic frezarskich



| Code No / Kod Nr | K<br>7:24 | d  | d1    | d2  | A  | I  |          |          |
|------------------|-----------|----|-------|-----|----|----|----------|----------|
| 0642 128 270 100 | 40        | 40 | 66,7  | 89  | 60 | 30 | U-6064/0 | U-1414/0 |
| 0642 128 270 008 |           | 60 | 101,6 | 129 | 60 | 40 | U-6066/0 | U-2042/0 |
| 0642 128 270 201 | 50        | 40 | 66,7  | 89  | 70 | 30 | U-6064/0 | U-1414/0 |
| 0642 128 270 303 |           | 60 | 101,6 | 129 | 70 | 40 | U-6066/0 | U-2042/0 |

Typical order/Sposób zamawiania: 0642 128 270 303 lub 2827-50-60



## Type 5374


**DIN 69871-A**

### DRILL CHUCK ADAPTERS

for drill chucks taper DIN 238 or Jacobs taper

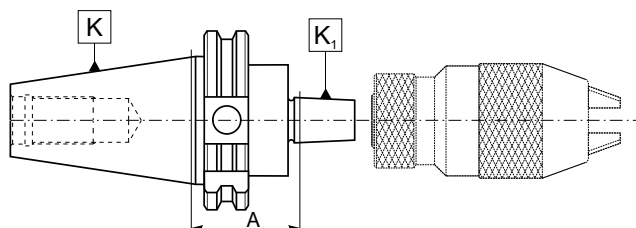
### TRZPIENIE

do uchwytów wiertarskich ze stożkiem DIN 238 lub Jacobsa



| Code No / Kod Nr | K<br>7:24 | K1<br>DIN/Jacobs | A  |
|------------------|-----------|------------------|----|
| 0642 153 742 200 | 30        | B12              | 25 |
| 0642 153 742 301 |           | B16              | 25 |
| 0642 153 740 106 | 40        | B12              | 40 |
| 0642 153 740 605 |           | B12              | 90 |
| 0642 153 740 300 |           | B16              | 40 |
| 0642 153 740 707 |           | B16              | 90 |
| 0642 153 740 503 |           | B18              | 40 |
| 0642 153 740 809 |           | B18              | 90 |
| 0642 153 741 300 | 50        | B16              | 40 |
| 0642 153 741 504 |           | B16              | 90 |
| 0642 153 741 402 |           | B18              | 40 |
| 0642 153 741 606 |           | B18              | 90 |
| 0642 153 745 202 | 40        | J33              | 40 |
| 0642 153 745 600 |           | J6               | 40 |
| 0642 153 746 203 | 50        | J33              | 40 |
| 0642 153 746 600 |           | J6               | 40 |

Typical order/Sposób zamawiania: 0642 153 741 606 lub 5374-50-B18-90



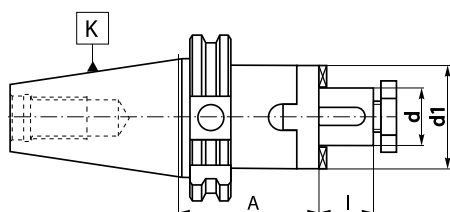
**1**
**Type 7301**

**DIN 69871-A**
**COMBINATION SHELL MILL ADAPTERS**

for cutters with keyway or driving slot DIN 138

**TRZPIENIE FREZARSKIE UNIWERSALNE**

do frezów z rowkiem wpustowym lub rowkiem zabierakowym w/g DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A  | I  | d1 |          |          |          |
|------------------|-----------|----|----|----|----|----------|----------|----------|
| 0642 173 010 000 | 40        | 16 | 55 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 010 101 |           | 22 | 55 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 010 203 |           | 27 | 55 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 010 305 |           | 32 | 60 | 24 | 58 | U-0623/0 | U-1367/0 | U-6355/0 |
| 0642 173 010 407 |           | 40 | 60 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 010 509 | 50        | 16 | 55 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 010 600 |           | 22 | 55 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 010 702 |           | 27 | 55 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 010 804 |           | 32 | 55 | 24 | 58 | U-0623/0 | U-1367/0 | U-6355/0 |
| 0642 173 010 906 |           | 40 | 55 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 011 102 |           | 50 | 70 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |

Typical order/Sposób zamawiania: 0642 173 010 600 lub 7301-50-22-55

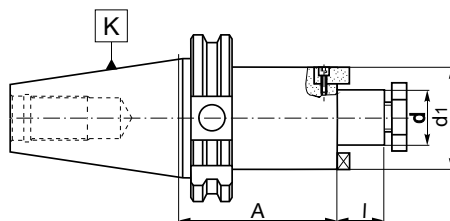
**Type 7369**

**DIN 69871-A**
**SHELL MILL ADAPTERS**

for cutters with driving slot DIN 138

**TRZPIENIE FREZARSKIE ZABIERAKOWE**

do frezów z rowkiem zabierakowym w/g DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | d1 |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 693 205 | 30        | 16 | 35  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 693 307 |           | 22 | 35  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 693 409 |           | 27 | 60  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 693 500 |           | 32 | 60  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 690 100 | 40        | 16 | 60  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 690 600 |           | 16 | 120 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 690 202 |           | 22 | 60  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 690 701 |           | 22 | 120 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 690 304 |           | 27 | 60  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 690 803 |           | 27 | 120 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 690 406 |           | 32 | 60  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 690 905 |           | 32 | 120 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 690 508 |           | 40 | 60  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 691 101 | 50        | 16 | 60  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 691 702 |           | 16 | 110 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 691 203 |           | 22 | 60  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 691 804 |           | 22 | 110 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 691 305 |           | 27 | 60  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 691 906 |           | 27 | 110 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 691 407 |           | 32 | 60  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 692 102 |           | 32 | 110 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 691 509 |           | 40 | 60  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 692 204 |           | 40 | 110 | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 691 600 |           | 50 | 60  | 30 | 90 | U-0625/0 | U-5974/0 |

Typical order/Sposób zamawiania: 0642 173 010 600 lub 7301-50-22-55

# Type 7369



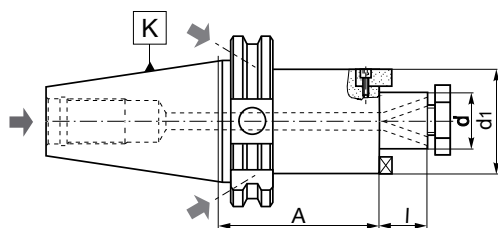
# DIN 69871-AD+B

## SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

## TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym w/g DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | d1 |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 695 105 | 40        | 16 | 45  | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 695 120 |           | 16 | 100 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 695 146 |           | 16 | 130 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 695 161 |           | 16 | 160 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 695 207 |           | 22 | 45  | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 695 222 |           | 22 | 100 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 695 248 |           | 22 | 130 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 695 263 |           | 22 | 160 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 695 309 |           | 27 | 60  | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 695 324 |           | 27 | 100 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 695 340 |           | 27 | 130 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 695 365 |           | 27 | 160 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 695 400 |           | 32 | 60  | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 695 426 |           | 32 | 100 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 695 441 |           | 32 | 130 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 695 467 |           | 32 | 160 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 695 502 |           | 40 | 65  | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 695 528 |           | 40 | 100 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 695 543 |           | 40 | 130 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 695 569 |           | 40 | 160 | 27 | 80 | U-0624/0 | W-1949/0 |
|                  |           |    |     |    |    |          |          |
| 0642 173 696 208 | 50        | 16 | 50  | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 696 223 |           | 16 | 100 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 696 249 |           | 16 | 130 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 696 264 |           | 16 | 160 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 696 280 |           | 16 | 200 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 696 300 |           | 22 | 50  | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 696 325 |           | 22 | 100 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 696 340 |           | 22 | 130 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 696 366 |           | 22 | 160 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 696 381 |           | 22 | 200 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 696 401 |           | 27 | 55  | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 696 427 |           | 27 | 100 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 696 442 |           | 27 | 130 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 696 468 |           | 27 | 160 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 696 483 |           | 27 | 200 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 696 503 |           | 32 | 60  | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 696 529 |           | 32 | 100 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 696 544 |           | 32 | 130 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 696 560 |           | 32 | 160 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 696 585 |           | 32 | 200 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 696 605 |           | 40 | 65  | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 696 620 |           | 40 | 100 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 696 646 |           | 40 | 130 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 696 661 |           | 40 | 160 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 696 687 |           | 40 | 200 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 696 707 |           | 50 | 70  | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 696 722 |           | 50 | 100 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 696 748 |           | 50 | 130 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 696 763 |           | 50 | 160 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 696 789 |           | 50 | 200 | 30 | 90 | U-0625/0 | U-5974/0 |

Typical order/Sposób zamawiania: 0642 173 695 105 lub 7369-40-16-45 AD+B

## Type 7373



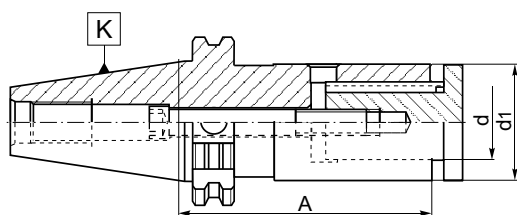
## DIN 69871-A

### MILLING ARBORS

for staggered tooth side milling cutters

### TRZPIENIE FREZARSKIE

do frezów tarczowych



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |          |          |
|------------------|-----------|----|----|-----|----------|----------|----------|
| 0642 173 731 008 | 40        | 16 | 29 | 95  | U-6520/0 | U-6510/0 | U-6526/0 |
| 0642 173 731 100 |           | 16 | 29 | 125 | U-6520/0 | U-6511/0 | U-6527/0 |
| 0642 173 731 201 |           | 22 | 36 | 95  | U-6523/0 | U-6512/0 | U-6528/0 |
| 0642 173 731 303 |           | 22 | 36 | 125 | U-6523/0 | U-6513/0 | U-6529/0 |
| 0642 173 731 405 |           | 27 | 42 | 95  | U-6523/0 | U-6514/0 | U-6530/0 |
| 0642 173 731 507 |           | 27 | 42 | 125 | U-6523/0 | U-6515/0 | U-6531/0 |
| 0642 173 731 609 |           | 32 | 50 | 95  | U-6523/0 | U-6516/0 | U-6532/0 |
| 0642 173 731 700 |           | 32 | 50 | 125 | U-6523/0 | U-6517/0 | U-6533/0 |
| 0642 173 732 009 | 50        | 22 | 36 | 100 | U-6524/0 | U-6512/0 | U-6528/0 |
| 0642 173 732 100 |           | 22 | 36 | 125 | U-6524/0 | U-6513/0 | U-6529/0 |
| 0642 173 732 202 |           | 27 | 42 | 100 | U-6524/0 | U-6514/0 | U-6530/0 |
| 0642 173 732 304 |           | 27 | 42 | 125 | U-6524/0 | U-6515/0 | U-6531/0 |
| 0642 173 732 406 |           | 32 | 50 | 100 | U-6524/0 | U-6516/0 | U-6532/0 |
| 0642 173 732 508 |           | 32 | 50 | 125 | U-6524/0 | U-6517/0 | U-6533/0 |
| 0642 173 732 600 |           | 40 | 58 | 100 | U-6524/0 | U-6518/0 | U-6534/0 |
| 0642 173 732 701 |           | 40 | 58 | 125 | U-6524/0 | U-6519/0 | U-6535/0 |

Typical order/Sposób zamawiania: 0642 173 731 405 lub 7373-40-27-95

## Type 7617



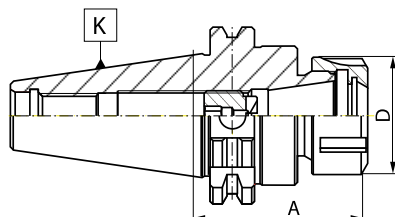
## DIN 69871-AD

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A   | Capacity<br>Zakres | D  |         |              |
|------------------|-----------|-------------------|-----|--------------------|----|---------|--------------|
| 0642 176 170 621 | 30        | ER16              | 60  | 2-10               | 32 | 9833-16 | M10x11LH     |
| 0642 176 170 690 |           | ER25              | 60  | 2-16               | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 170 647 |           | ER32              | 60  | 2-20               | 50 | 9833-32 | M18x1,5x19LH |
| 0642 176 170 265 | 40        | ER16              | 60  | 2-10               | 32 | 9833-16 | M12x1,5x14LH |
| 0642 176 170 005 |           | ER25              | 60  | 2-16               | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 170 300 |           | ER32              | 70  | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 171 301 |           | ER32              | 130 | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 170 901 |           | ER40              | 70  | 2-26               | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 171 709 | 50        | ER32              | 70  | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 172 007 |           | ER32              | 130 | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 172 302 |           | ER40              | 80  | 2-26               | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 172 700 |           | ER40              | 130 | 2-26               | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 172 700 lub 7617-50-40-130

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wypożyczenie podstawowe:

Nakrętka - str. 151  
wkreś

#### Wypożyczenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151



## Type 7617

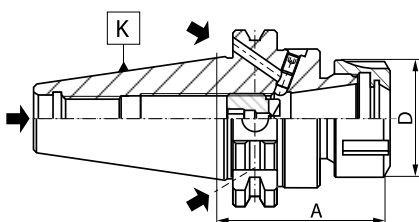

**DIN 69871-AD+B**

### COLLET CHUCKS ER

for tool with cylindrical shank

**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | D  |         |              |
|------------------|--------|----------------|-----|-----------------|----|---------|--------------|
| 0642 176 176 347 | 40     | ER16           | 60  | 2-10            | 32 | 9833-16 | M12x1,5x14LH |
| 0642 176 176 464 |        | ER25           | 60  | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 176 500 |        | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 176 540 |        | ER32           | 160 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 176 566 |        | ER40           | 70  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 176 668 | 50     | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 176 744 |        | ER32           | 160 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 176 785 |        | ER40           | 80  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 176 820 |        | ER40           | 160 | 2-26            | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 172 700 lub 7617-50-40-130

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7617-S

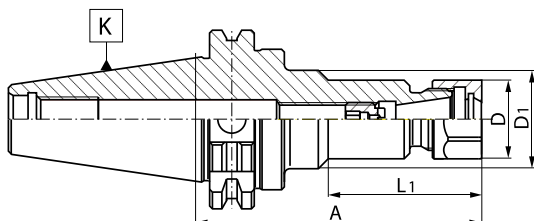

**DIN 69871-AD**

### COLLET CHUCKS ER

for tool with cylindrical shank

**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | L1 | D  | D1 |          |              |
|------------------|--------|----------------|-----|-----------------|----|----|----|----------|--------------|
| 0642 176 174 126 | 40     | ER16           | 100 | 2-10            | -  | 28 | -  | 9833-16D | M12x1,5x14LH |
| 0642 176 174 228 |        | ER16           | 150 | 2-10            | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |
| 0642 176 174 523 | 50     | ER16           | 100 | 2-10            | -  | 28 | -  | 9833-16D | M12x1,5x14LH |
| 0642 176 174 625 |        | ER16           | 150 | 2-10            | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 176 174 625 lub 7617-50-16-150 S

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7617-S



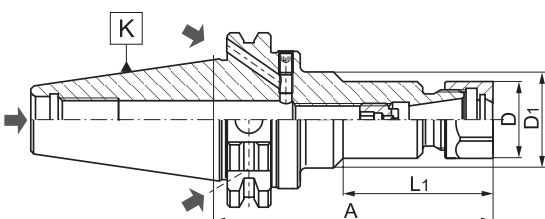
## DIN 69871-AD+B

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | L1 | D  | D1 |          |              |
|------------------|--------|----------------|-----|-----------------|----|----|----|----------|--------------|
| 0642 176 176 388 | 40     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 176 423 |        | ER16           | 160 | 2-10            | 86 | 28 | 40 | 9833-16D | M12x1,5x14LH |
| 0642 176 176 581 | 50     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 176 627 |        | ER16           | 160 | 2-10            | 86 | 28 | 40 | 9833-16D | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 176 176 627 lub 7617-50-16-160 S AD+B

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkret

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7617



## DIN 69871-AD

### COLLET CHUCKS ER - SET

for tool with cylindrical shank

### OPRAWKI ZACISKOWE ER - KOMPLET

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | Full set pieces Ilość tulejek |
|------------------|--------|----------------|-----|-----------------|-------------------------------|
| 0642 176 170 619 | 30     | ER16           | 60  | 2-10            | 8                             |
| 0642 176 170 634 |        | ER32           | 60  | 2-20            | 18                            |
| 0642 176 170 107 | 40     | ER25           | 60  | 2-16            | 14                            |
| 0642 176 170 402 |        | ER32           | 70  | 2-20            | 18                            |
| 0642 176 171 108 |        | ER32           | 130 | 2-20            | 18                            |
| 0642 176 170 708 |        | ER40           | 70  | 2-26            | 24                            |
| 0642 176 171 505 | 50     | ER32           | 70  | 2-20            | 18                            |
| 0642 176 171 800 |        | ER32           | 130 | 2-20            | 18                            |
| 0642 176 172 109 |        | ER40           | 80  | 2-26            | 24                            |
| 0642 176 172 506 |        | ER40           | 130 | 2-26            | 24                            |

## Type 7617-PL

| Code No / Kod Nr | K 7:24 | Collet Tulejka                | A  | Capacity Zakres | Full set pieces Ilość tulejek |
|------------------|--------|-------------------------------|----|-----------------|-------------------------------|
| 0642 176 170 650 | 30     | ER32                          | 60 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |
| 0642 176 170 428 | 40     | ER32                          | 70 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |
| 0642 176 171 518 | 50     | ER32                          | 70 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |

## Type 7617-S

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | Full set pieces Ilość tulejek |
|------------------|--------|----------------|-----|-----------------|-------------------------------|
| 0642 176 174 100 | 40     | ER16           | 100 | 2-10            | 8                             |
| 0642 176 174 202 |        | ER16           | 150 | 2-10            | 8                             |
| 0642 176 174 508 | 50     | ER16           | 100 | 2-10            | 8                             |
| 0642 176 174 600 |        | ER16           | 150 | 2-10            | 8                             |

# Type 7625



# DIN 69871-AD

## END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

## OPRAWKA ZACISKOWA

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B

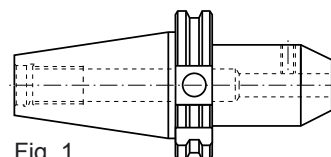


Fig. 1

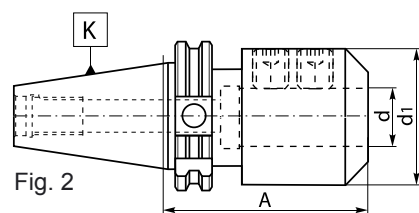


Fig. 2

| Code No / Kod Nr | K<br>7:24 | d  | A   | d1    | Fig. |                   |
|------------------|-----------|----|-----|-------|------|-------------------|
| 0642 176 251 213 | 30        | 6  | 50  | 25,0  | 1    | U-4131/0          |
| 0642 176 251 315 |           | 8  | 50  | 28,0  | 1    | U-4132/0          |
| 0642 176 251 417 |           | 10 | 50  | 35,0  | 1    | U-4133/0          |
| 0642 176 251 519 |           | 12 | 50  | 42,0  | 1    | U-4134/0          |
| 0642 176 251 610 |           | 16 | 63  | 44,0  | 1    | U-4135/0          |
| 0642 176 251 712 |           | 20 | 63  | 44,0  | 1    | U-5888/0          |
| 0642 176 252 201 | 40        | 6  | 30  | 25,0  | 1    | U-4131/0          |
| 0642 176 250 108 |           | 6  | 50  | 25,0  | 1    | U-4131/0          |
| 0642 176 252 255 |           | 6  | 100 | 25,0  | 1    | U-4131/0          |
| 0642 176 252 283 |           | 6  | 130 | 25,0  | 1    | U-4131/0          |
| 0642 176 252 303 |           | 8  | 30  | 28,0  | 1    | U-4132/0          |
| 0642 176 250 200 |           | 8  | 50  | 28,0  | 1    | U-4132/0          |
| 0642 176 252 357 |           | 8  | 100 | 28,0  | 1    | U-4132/0          |
| 0642 176 252 385 |           | 8  | 130 | 28,0  | 1    | U-4132/0          |
| 0642 176 252 405 |           | 10 | 32  | 35,0  | 1    | U-4133/0          |
| 0642 176 250 301 |           | 10 | 50  | 35,0  | 1    | U-4133/0          |
| 0642 176 252 459 |           | 10 | 100 | 35,0  | 1    | U-4133/0          |
| 0642 176 252 487 |           | 10 | 130 | 35,0  | 1    | U-4133/0          |
| 0642 176 252 507 |           | 12 | 34  | 42,0  | 1    | U-4134/0          |
| 0642 176 250 403 |           | 12 | 50  | 42,0  | 1    | U-4134/0          |
| 0642 176 252 550 |           | 12 | 100 | 42,0  | 1    | U-4134/0          |
| 0642 176 252 589 |           | 12 | 130 | 42,0  | 1    | U-4134/0          |
| 0642 176 252 510 |           | 14 | 34  | 44,0  | 1    | U-4134/0          |
| 0642 176 252 522 |           | 14 | 50  | 44,0  | 1    | U-4134/0          |
| 0642 176 252 535 |           | 14 | 63  | 44,0  | 1    | U-4134/0          |
| 0642 176 252 609 |           | 16 | 35  | 44,0  | 1    | U-4135/0          |
| 0642 176 250 505 |           | 16 | 63  | 44,5  | 1    | U-4135/0          |
| 0642 176 252 652 |           | 16 | 100 | 48,0  | 1    | U-4135/0          |
| 0642 176 252 637 |           | 18 | 63  | 44,5  | 1    | U-5887/0          |
| 0642 176 253 100 |           | 20 | 35  | 44,5  | 1    | U-6756/0          |
| 0642 176 250 607 |           | 20 | 63  | 44,5  | 1    | U-5888/0          |
| 0642 176 253 154 |           | 20 | 100 | 52,0  | 1    | U-4136/0          |
| 0642 176 253 304 |           | 25 | 60  | 44,5  | 2    | U-6756/0 U-6757/0 |
| 0642 176 250 709 |           | 25 | 100 | 63,0  | 2    | U-4137/0 U-4137/0 |
| 0642 176 253 508 |           | 32 | 70  | 72,0  | 2    | U-6755/0 U-4138/0 |
| 0642 176 250 800 |           | 32 | 100 | 72,0  | 2    | U-4138/0 U-4138/0 |
| 0642 176 251 109 | 50        | 6  | 63  | 25,0  | 1    | U-4131/0          |
| 0642 176 251 137 |           | 6  | 130 | 25,0  | 1    | U-4131/0          |
| 0642 176 251 200 |           | 8  | 63  | 28,0  | 1    | U-4132/0          |
| 0642 176 251 239 |           | 8  | 130 | 28,0  | 1    | U-4132/0          |
| 0642 176 251 302 |           | 10 | 63  | 35,0  | 1    | U-4133/0          |
| 0642 176 251 330 |           | 10 | 130 | 35,0  | 1    | U-4133/0          |
| 0642 176 251 404 |           | 12 | 63  | 42,0  | 1    | U-4134/0          |
| 0642 176 253 885 |           | 12 | 130 | 42,0  | 1    | U-4134/0          |
| 0642 176 254 000 |           | 14 | 63  | 44,0  | 1    | U-4134/0          |
| 0642 176 251 506 |           | 16 | 63  | 48,0  | 1    | U-4135/0          |
| 0642 176 251 521 |           | 16 | 100 | 48,0  | 1    | U-4135/0          |
| 0642 176 251 534 |           | 16 | 130 | 48,0  | 1    | U-4135/0          |
| 0642 176 251 550 |           | 18 | 63  | 50,0  | 1    | U-4135/0          |
| 0642 176 254 101 |           | 20 | 35  | 52,0  | 1    | U-4136/0          |
| 0642 176 251 608 |           | 20 | 63  | 52,0  | 1    | U-4136/0          |
| 0642 176 251 636 |           | 20 | 130 | 52,0  | 1    | U-4136/0          |
| 0642 176 254 305 |           | 25 | 60  | 69,9  | 2    | U-4136/0 U-4137/0 |
| 0642 176 251 700 |           | 25 | 80  | 65,0  | 2    | U-4137/0 U-4137/0 |
| 0642 176 251 738 |           | 25 | 130 | 65,0  | 2    | U-4137/0 U-4137/0 |
| 0642 176 254 509 |           | 32 | 70  | 69,9  | 2    | U-4136/0 U-4138/0 |
| 0642 176 251 801 |           | 32 | 100 | 72,0  | 2    | U-4138/0 U-4138/0 |
| 0642 176 251 830 |           | 32 | 130 | 72,0  | 2    | U-4138/0 U-4138/0 |
| 0642 176 251 855 |           | 32 | 160 | 72,0  | 2    | U-4138/0 U-4138/0 |
| 0642 176 251 896 |           | 40 | 100 | 80,0  | 2    | U-5870/0 U-5870/0 |
| 0642 176 251 903 |           | 40 | 120 | 90,0  | 2    | U-5870/0 U-5870/0 |
| 0642 176 252 100 |           | 50 | 130 | 100,0 | 2    | U-4139/0 U-4139/0 |

Typical order/Sposób zamawiania: 0642 176 251 801 lub 7625-50-32-100

# Type 7625



# DIN 69871-AD+B

## END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

## OPRAWKA ZACISKOWA

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B

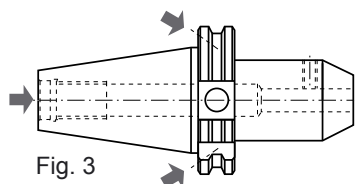


Fig. 3

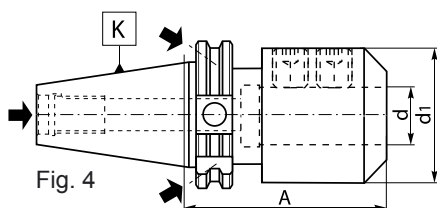
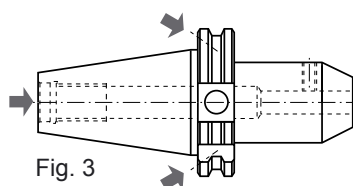
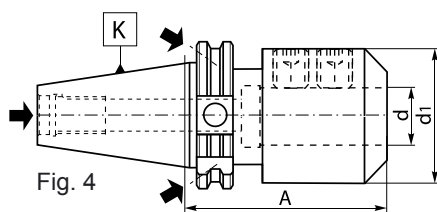


Fig. 4

| Code No / Kod Nr | K<br>7:24 | d  | A   | d1   | Fig. |                   |
|------------------|-----------|----|-----|------|------|-------------------|
| 0642 176 255 102 | 40        | 6  | 50  | 25,0 | 3    | U-4131/0          |
| 0642 176 255 128 |           | 6  | 100 | 25,0 | 3    | U-4131/0          |
| 0642 176 255 143 |           | 6  | 130 | 25,0 | 3    | U-4131/0          |
| 0642 176 255 169 |           | 6  | 160 | 25,0 | 3    | U-4131/0          |
| 0642 176 255 184 |           | 6  | 200 | 25,0 | 3    | U-4131/0          |
| 0642 176 255 204 |           | 8  | 50  | 28,0 | 3    | U-4132/0          |
| 0642 176 255 220 |           | 8  | 100 | 28,0 | 3    | U-4132/0          |
| 0642 176 255 245 |           | 8  | 130 | 28,0 | 3    | U-4132/0          |
| 0642 176 255 260 |           | 8  | 160 | 28,0 | 3    | U-4132/0          |
| 0642 176 255 286 |           | 8  | 200 | 28,0 | 3    | U-4132/0          |
| 0642 176 255 306 |           | 10 | 60  | 35,0 | 3    | U-4133/0          |
| 0642 176 255 321 |           | 10 | 100 | 35,0 | 3    | U-4133/0          |
| 0642 176 255 347 |           | 10 | 130 | 35,0 | 3    | U-4133/0          |
| 0642 176 255 362 |           | 10 | 160 | 35,0 | 3    | U-4133/0          |
| 0642 176 255 388 |           | 10 | 200 | 35,0 | 3    | U-4133/0          |
| 0642 176 255 408 |           | 12 | 60  | 42,0 | 3    | U-4134/0          |
| 0642 176 255 410 |           | 12 | 100 | 42,0 | 3    | U-4134/0          |
| 0642 176 255 423 |           | 12 | 130 | 42,0 | 3    | U-4134/0          |
| 0642 176 255 436 |           | 12 | 160 | 42,0 | 3    | U-4134/0          |
| 0642 176 255 449 |           | 12 | 200 | 42,0 | 3    | U-4134/0          |
| 0642 176 255 451 |           | 14 | 60  | 44,0 | 3    | U-4134/0          |
| 0642 176 255 464 |           | 14 | 100 | 44,0 | 3    | U-4134/0          |
| 0642 176 255 477 |           | 14 | 130 | 44,0 | 3    | U-4134/0          |
| 0642 176 255 480 |           | 14 | 160 | 44,0 | 3    | U-4134/0          |
| 0642 176 255 492 |           | 14 | 200 | 44,0 | 3    | U-4134/0          |
| 0642 176 255 500 |           | 16 | 63  | 44,5 | 3    | U-4135/0          |
| 0642 176 255 512 |           | 16 | 100 | 48,0 | 3    | U-4135/0          |
| 0642 176 255 525 |           | 16 | 130 | 48,0 | 3    | U-4135/0          |
| 0642 176 255 538 |           | 16 | 160 | 48,0 | 3    | U-4135/0          |
| 0642 176 255 540 |           | 16 | 200 | 48,0 | 3    | U-4135/0          |
| 0642 176 255 553 |           | 18 | 63  | 49,5 | 3    | U-4135/0          |
| 0642 176 255 566 |           | 18 | 100 | 49,5 | 3    | U-4135/0          |
| 0642 176 255 579 |           | 18 | 130 | 49,5 | 3    | U-4135/0          |
| 0642 176 255 581 |           | 18 | 160 | 49,5 | 3    | U-4135/0          |
| 0642 176 255 594 |           | 18 | 200 | 49,5 | 3    | U-4135/0          |
| 0642 176 255 601 |           | 20 | 63  | 49,5 | 3    | U-4136/0          |
| 0642 176 255 627 |           | 20 | 100 | 49,5 | 3    | U-4136/0          |
| 0642 176 255 642 |           | 20 | 130 | 49,5 | 3    | U-4136/0          |
| 0642 176 255 668 |           | 20 | 160 | 49,5 | 3    | U-4136/0          |
| 0642 176 255 683 |           | 20 | 200 | 49,5 | 3    | U-4136/0          |
| 0642 176 255 703 |           | 25 | 100 | 63,0 | 4    | U-4137/0 U-4137/0 |
| 0642 176 255 729 |           | 25 | 130 | 65,0 | 4    | U-4137/0 U-4137/0 |
| 0642 176 255 744 |           | 25 | 160 | 65,0 | 4    | U-4137/0 U-4137/0 |
| 0642 176 255 760 |           | 25 | 200 | 65,0 | 4    | U-4137/0 U-4137/0 |
| 0642 176 255 805 |           | 32 | 100 | 72,0 | 4    | U-4138/0 U-4138/0 |
| 0642 176 255 818 |           | 32 | 130 | 72,0 | 4    | U-4138/0 U-4138/0 |
| 0642 176 255 820 |           | 32 | 160 | 72,0 | 4    | U-4138/0 U-4138/0 |
| 0642 176 255 833 |           | 32 | 200 | 72,0 | 4    | U-4138/0 U-4138/0 |



**Type 7625**

**DIN 69871-AD+B**
**1**

**Fig. 3**

**Fig. 4**

| Code No / Kod Nr | K<br>7:24 | d  | A   | d1    | Fig. |                   |
|------------------|-----------|----|-----|-------|------|-------------------|
| 0642 176 256 103 | 50        | 6  | 63  | 25,0  | 3    | U-4131/0          |
| 0642 176 256 129 |           | 6  | 100 | 25,0  | 3    | U-4131/0          |
| 0642 176 256 144 |           | 6  | 130 | 25,0  | 3    | U-4131/0          |
| 0642 176 256 160 |           | 6  | 160 | 25,0  | 3    | U-4131/0          |
| 0642 176 256 185 |           | 6  | 200 | 25,0  | 3    | U-4131/0          |
| 0642 176 256 205 |           | 8  | 63  | 28,0  | 3    | U-4132/0          |
| 0642 176 256 205 |           | 8  | 100 | 28,0  | 3    | U-4132/0          |
| 0642 176 256 246 |           | 8  | 130 | 28,0  | 3    | U-4132/0          |
| 0642 176 256 261 |           | 8  | 160 | 28,0  | 3    | U-4132/0          |
| 0642 176 256 287 |           | 8  | 200 | 28,0  | 3    | U-4132/0          |
| 0642 176 256 307 |           | 10 | 63  | 35,3  | 3    | U-4133/0          |
| 0642 176 256 322 |           | 10 | 100 | 35,0  | 3    | U-4133/0          |
| 0642 176 256 348 |           | 10 | 130 | 35,0  | 3    | U-4133/0          |
| 0642 176 256 363 |           | 10 | 160 | 35,0  | 3    | U-4133/0          |
| 0642 176 256 389 |           | 10 | 200 | 35,0  | 3    | U-4133/0          |
| 0642 176 256 409 |           | 12 | 63  | 42,0  | 3    | U-4134/0          |
| 0642 176 256 411 |           | 12 | 100 | 42,0  | 3    | U-4134/0          |
| 0642 176 256 424 |           | 12 | 130 | 42,0  | 3    | U-4134/0          |
| 0642 176 256 437 |           | 12 | 160 | 42,0  | 3    | U-4134/0          |
| 0642 176 256 440 |           | 12 | 200 | 42,0  | 3    | U-4134/0          |
| 0642 176 256 452 |           | 14 | 63  | 44,0  | 3    | U-4134/0          |
| 0642 176 256 465 |           | 14 | 100 | 44,0  | 3    | U-4134/0          |
| 0642 176 256 478 |           | 14 | 130 | 44,0  | 3    | U-4134/0          |
| 0642 176 256 480 |           | 14 | 160 | 44,0  | 3    | U-4134/0          |
| 0642 176 256 493 |           | 14 | 200 | 44,0  | 3    | U-4134/0          |
| 0642 176 256 500 |           | 16 | 63  | 48,0  | 3    | U-4135/0          |
| 0642 176 256 513 |           | 16 | 100 | 48,0  | 3    | U-4135/0          |
| 0642 176 256 526 |           | 16 | 130 | 48,0  | 3    | U-4135/0          |
| 0642 176 256 539 |           | 16 | 160 | 48,0  | 3    | U-4135/0          |
| 0642 176 256 541 |           | 16 | 200 | 48,0  | 3    | U-4135/0          |
| 0642 176 256 554 |           | 18 | 63  | 50,0  | 3    | U-4135/0          |
| 0642 176 256 567 |           | 18 | 100 | 50,0  | 3    | U-4135/0          |
| 0642 176 256 570 |           | 18 | 130 | 50,0  | 3    | U-4135/0          |
| 0642 176 256 582 |           | 18 | 160 | 50,0  | 3    | U-4135/0          |
| 0642 176 256 595 |           | 18 | 200 | 50,0  | 3    | U-4135/0          |
| 0642 176 256 602 |           | 20 | 63  | 52,0  | 3    | U-4136/0          |
| 0642 176 256 628 |           | 20 | 100 | 52,0  | 3    | U-4136/0          |
| 0642 176 256 643 |           | 20 | 130 | 52,0  | 3    | U-4136/0          |
| 0642 176 256 669 |           | 20 | 160 | 52,0  | 3    | U-4136/0          |
| 0642 176 256 684 |           | 20 | 200 | 52,0  | 3    | U-4136/0          |
| 0642 176 256 704 |           | 25 | 80  | 65,0  | 4    | U-4137/0 U-4137/0 |
| 0642 176 256 717 |           | 25 | 100 | 65,0  | 4    | U-4137/0 U-4137/0 |
| 0642 176 256 720 |           | 25 | 130 | 65,0  | 4    | U-4137/0 U-4137/0 |
| 0642 176 256 732 |           | 25 | 160 | 65,0  | 4    | U-4137/0 U-4137/0 |
| 0642 176 256 745 |           | 25 | 200 | 65,0  | 4    | U-4137/0 U-4137/0 |
| 0642 176 256 760 |           | 32 | 80  | 72,0  | 4    | U-4138/0 U-4138/0 |
| 0642 176 256 806 |           | 32 | 100 | 72,0  | 4    | U-4138/0 U-4138/0 |
| 0642 176 256 819 |           | 32 | 130 | 72,0  | 4    | U-4138/0 U-4138/0 |
| 0642 176 256 834 |           | 32 | 160 | 72,0  | 4    | U-4138/0 U-4138/0 |
| 0642 176 256 850 |           | 32 | 200 | 72,0  | 4    | U-4138/0 U-4138/0 |
| 0642 176 256 908 |           | 40 | 120 | 90,0  | 4    | U-5870/0 U-5870/0 |
| 0642 176 256 923 |           | 40 | 160 | 90,0  | 4    | U-5870/0 U-5870/0 |
| 0642 176 256 949 |           | 40 | 200 | 90,0  | 4    | U-5870/0 U-5870/0 |
| 0642 176 257 104 |           | 50 | 130 | 100,0 | 4    | U-4139/0 U-4139/0 |
| 0642 176 257 120 |           | 50 | 160 | 100,0 | 4    | U-4139/0 U-4139/0 |
| 0642 176 257 145 |           | 50 | 200 | 100,0 | 4    | U-4139/0 U-4139/0 |

Typical order/Sposób zamawiania: 0642 176 257 145 or 7625-50-50-200AD+B

**1**

## Type 7628


**DIN 69871-A**

### END MILL ADAPTERS TYPE WHISTLE-NOTCH

for tools with cylindrical shank and inclined flat DIN 1835-E

### OPRAWKI ZACISKOWE TYPU WHISTLE-NOTCH

do narzędzi z chwytem walcowym ze spłaszczeniem klinowym DIN 1835-E

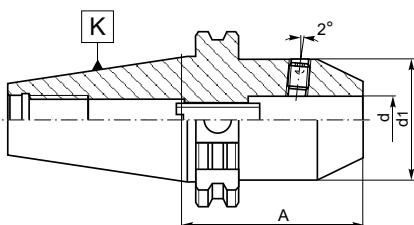


Fig. 1

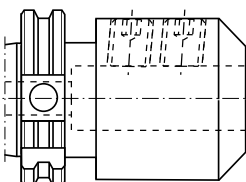


Fig. 2

| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   | Fig. |                   |          |
|------------------|-----------|----|----|-----|------|-------------------|----------|
| 0642 176 282 002 | 40        | 6  | 25 | 50  | 1    | U-4131/0          | U-1599/0 |
| 0642 176 282 104 |           | 8  | 28 | 50  | 1    | U-4132/0          | U-6317/0 |
| 0642 176 282 206 |           | 10 | 35 | 50  | 1    | U-4133/0          | U-0293/0 |
| 0642 176 282 308 |           | 12 | 42 | 50  | 1    | U-4134/0          | U-0757/0 |
| 0642 176 282 400 |           | 14 | 44 | 63  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 282 501 |           | 16 | 44 | 63  | 1    | U-5887/0          | U-6318/0 |
| 0642 176 282 603 |           | 18 | 44 | 63  | 1    | U-5888/0          | U-6793/0 |
| 0642 176 282 705 |           | 20 | 44 | 63  | 1    | U-5888/0          | U-6793/0 |
| 0642 176 282 807 |           | 25 | 65 | 100 | 2    | U-4137/0 U-4137/0 | U-6794/0 |
| 0642 176 282 909 |           | 32 | 72 | 100 | 2    | U-4138/0 U-4138/0 | U-6794/0 |
| 0642 176 280 601 | 50        | 6  | 25 | 63  | 1    | U-4131/0          | U-1599/0 |
| 0642 176 280 703 |           | 8  | 28 | 63  | 1    | U-4132/0          | U-6317/0 |
| 0642 176 280 805 |           | 10 | 35 | 63  | 1    | U-4133/0          | U-0293/0 |
| 0642 176 280 907 |           | 12 | 42 | 63  | 1    | U-4134/0          | U-0757/0 |
| 0642 176 281 001 |           | 14 | 44 | 63  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 281 103 |           | 16 | 48 | 63  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 281 205 |           | 18 | 50 | 63  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 281 307 |           | 20 | 52 | 63  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 281 409 |           | 25 | 70 | 80  | 2    | U-4137/0 U-4137/0 | U-6794/0 |
| 0642 176 281 500 |           | 32 | 72 | 100 | 2    | U-4138/0 U-4138/0 | U-6794/0 |
| 0642 176 281 602 |           | 40 | 90 | 120 | 2    | U-5870/0 U-5870/0 | U-6794/0 |

Typical order: 0642 176 281 602 or 7628-50-40-120

## Type 7655

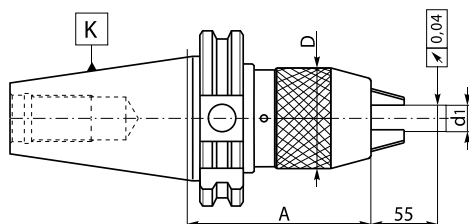

**DIN 69871-A**

### KEYLESS DRILL CHUCKS

with shank

### OPRAWKA

z uchwytem wiertarskim bezkluczykowym



| Code No / Kod Nr | K<br>7:24 | d1   | A   | D  |
|------------------|-----------|------|-----|----|
| 0642 176 550 405 | 40        | 1-13 | 87  | 50 |
| 0642 176 550 446 |           | 3-16 | 106 | 57 |
| 0642 176 550 507 | 50        | 1-13 | 87  | 50 |
| 0642 176 550 548 |           | 3-16 | 90  | 57 |

Typical order/Spósb zamawiania: 0642 176 550 548 lub 7655-50-16-90

Standard accessories:  
wrench

Wypószczenie podstawowe:  
klucz

## Type 7645

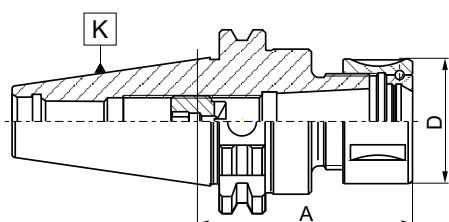

**DIN 69871-A**

### COLLET CHUCKS (DIN 6388-B)

for cutters with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek DIN 6388-B)

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A  | Capacity<br>Zakres | D  |         |              |
|------------------|-----------|-------------------|----|--------------------|----|---------|--------------|
| 0642 176 450 041 | 30        | 16                | 60 | 5-16               | 43 | 9835-16 | M18x1,5x8LH  |
| 0642 176 450 067 |           | 25                | 60 | 6-25               | 60 | 9835-25 | M22x1,5x10LH |
| 0642 176 450 102 | 40        | 16                | 70 | 5-16               | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 450 500 |           | 25                | 70 | 6-25               | 60 | 9835-25 | M28x1,5x10LH |
| 0642 176 450 805 |           | 32                | 90 | 10-32              | 72 | 9835-32 | M28x1,5x10LH |
| 0642 176 451 409 | 50        | 16                | 70 | 5-16               | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 451 500 |           | 25                | 70 | 6-25               | 60 | 9835-25 | M28x1,5x30LH |
| 0642 176 451 806 |           | 32                | 80 | 10-32              | 72 | 9835-32 | M35x1,5x12LH |

Typical order/Sposób zamawiania: 0642 176 451 806 lub 7645-50-32-80

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 136  
wrench - page 151

#### Wyposażenie podstawowe:

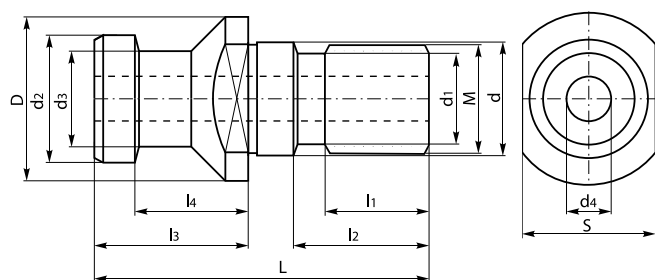
Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 136  
klucz - str. 151

**1**
**Type 9882**
**DIN 69872-A**

**PULL STUDS**  
to DIN 69871  
**KOŃCÓWKI**  
do DIN 69871

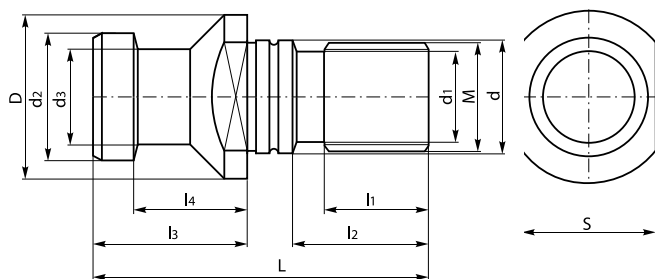


| Code No / Kod Nr | Size Wielkość | L   | D  | d  | d1    | d2 | d3 | d4    | M   | I1 | I2 | I3 | I4 | S  |
|------------------|---------------|-----|----|----|-------|----|----|-------|-----|----|----|----|----|----|
| 0642 198 820 304 | 30            | 44  | 17 | 13 | 10,00 | 13 | 9  | 3,00  | M12 | 10 | 15 | 24 | 19 | 14 |
| 0642 198 820 406 | 40            | 54  | 23 | 17 | 13,50 | 19 | 14 | 7,00  | M16 | 15 | 21 | 26 | 20 | 19 |
| 0642 198 820 419 |               | 85  | 23 | 17 | 8,50  | 19 | 14 | 4,00  | M10 | 10 | 52 | 26 | 20 | 19 |
| 0642 198 820 447 |               | 110 | 23 | 17 | 10,00 | 19 | 14 | 5,00  | M12 | 12 | 77 | 26 | 20 | 19 |
| 0642 198 820 421 |               | 86  | 23 | 17 | 13,50 | 19 | 14 | 7,00  | M16 | 15 | 53 | 26 | 20 | 19 |
| 0642 198 820 450 |               | 111 | 23 | 17 | 13,50 | 19 | 14 | 7,00  | M16 | 15 | 78 | 26 | 20 | 19 |
| 0642 198 820 434 |               | 108 | 23 | 17 | 13,50 | 19 | 14 | 7,00  | M16 | 15 | 75 | 26 | 20 | 19 |
| 0642 198 820 600 | 50            | 74  | 36 | 25 | 20,00 | 28 | 21 | 11,50 | M24 | 23 | 30 | 34 | 25 | 30 |
| 0642 198 820 653 |               | 110 | 36 | 25 | 16,50 | 28 | 21 | 7,00  | M20 | 23 | 66 | 34 | 25 | 30 |

Typical order/Sposób zamawiania: 0642 198 820 600 lub 9882-50-74 A

**Type 9882**
**DIN 69872-B**

**PULL STUDS**  
to DIN 69871  
**KOŃCÓWKI**  
do DIN 69871



| Code No / Kod Nr | Size Wielkość | L  | D  | d  | d1    | d2 | d3 | M   | I1 | I2 | I3 | I4 | S  |
|------------------|---------------|----|----|----|-------|----|----|-----|----|----|----|----|----|
| 0642 198 821 305 | 30            | 44 | 17 | 13 | 10,00 | 13 | 9  | M12 | 10 | 15 | 24 | 19 | 14 |
| 0642 198 821 407 | 40            | 54 | 23 | 17 | 13,50 | 19 | 14 | M16 | 15 | 21 | 26 | 20 | 19 |
| 0642 198 821 600 | 50            | 74 | 36 | 25 | 20,00 | 28 | 21 | M24 | 23 | 30 | 34 | 25 | 30 |

Typical order/Sposób zamawiania: 0642 198 821 600 lub 9882-50-74 B



MAS 403-BT



**BISON** BIAL

2



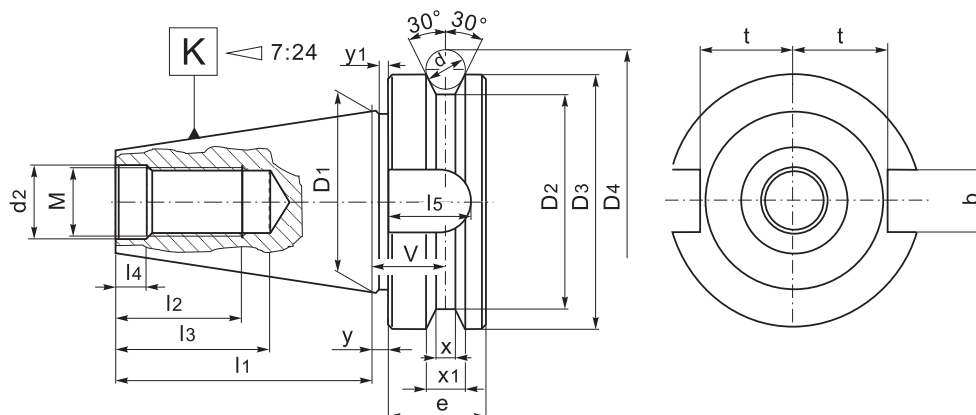
## MAS 403-BT

### TOOL SHANKS

with 7:24 for automatic tool exchange

### CHWYT

ze stożkiem 7:24 do wymiany automatycznej



| K<br>7:24 | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | D <sub>4</sub> | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | l <sub>5</sub> | bH12 |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| 30        | 31,75          | 38             | 46             | 56,1           | 48,4           | 24             | 34             | 7              | 17             | 16,1 |
| 40        | 44,45          | 53             | 63             | 75,6           | 65,4           | 30             | 43             | 9              | 21             | 16,1 |
| 50        | 69,85          | 85             | 100            | 119,0          | 101,8          | 45             | 62             | 13             | 31             | 25,7 |

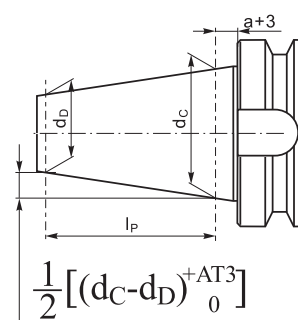
| K<br>7:24 | t    | d  | d <sub>2</sub> H7 | M   | e  | v    | x | x <sub>1</sub> | y | y <sub>1</sub> |
|-----------|------|----|-------------------|-----|----|------|---|----------------|---|----------------|
| 30        | 16,3 | 8  | 12,5              | M12 | 20 | 13,6 | 4 | 8              | 2 | 2              |
| 40        | 22,6 | 10 | 17,0              | M16 | 25 | 16,6 | 5 | 10             | 2 | 2              |
| 50        | 35,4 | 15 | 25,0              | M24 | 35 | 23,2 | 7 | 15             | 3 | 3              |

### STANDARD FEATURES OF TOOLING

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT3.

### CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka AT3.



| K<br>7:24 | d <sub>c</sub> - d <sub>b</sub> | l <sub>p</sub> | a | AT3   |
|-----------|---------------------------------|----------------|---|-------|
| 30        | 12,250                          | 42             | 2 | 0,002 |
| 40        | 17,208                          | 59             | 2 | 0,003 |
| 50        | 26,833                          | 92             | 3 | 0,004 |

## Type 1613



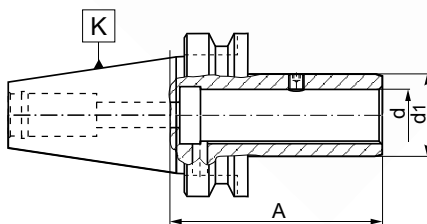
## MAS 403-BT AD

### HOLDERS

for adjustable adapters DIN 6327

### OPRAWKI

do trzpieni i tulei z regulacją osiową DIN 6327



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |
|------------------|-----------|----|----|-----|----------|
| 0642 116 136 107 | 40        | 16 | 25 | 75  | U-1997/0 |
| 0642 116 136 209 |           | 20 | 32 | 80  | U-1997/0 |
| 0642 116 136 300 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 136 402 |           | 36 | 50 | 115 | U-7381/0 |
|                  |           |    |    |     |          |
| 0642 116 137 108 | 50        | 16 | 25 | 85  | U-1997/0 |
| 0642 116 137 200 |           | 20 | 32 | 85  | U-1997/0 |
| 0642 116 137 301 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 137 403 |           | 36 | 50 | 100 | U-7381/0 |
| 0642 116 137 505 |           | 48 | 67 | 105 | U-7382/0 |

Typical order/Sposób zamawiania: 0642 116 137 505 lub 1613-50-48-105

## Type 1660



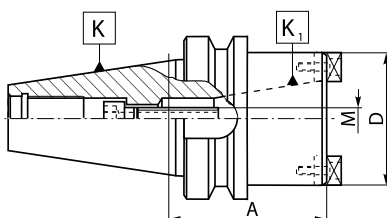
## MAS 403-BT

### TAPER ADAPTERS

for tools with 7:24 taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem 7:24



| Code No / Kod Nr | K<br>7:24 | K1<br>7:24 | A  | D  | M   |          |
|------------------|-----------|------------|----|----|-----|----------|
| 0642 116 605 505 | 50        | 40         | 80 | 88 | M16 | U-6227/0 |

Typical order/Sposób zamawiania: 0642 116 605 505 lub 1660-50-40-80

## Type 1661



## MAS 403-BT

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |
|------------------|-----------|-------------|-----|----|------|
| 0642 116 617 108 | 30        | 1           | 50  | 25 | 1    |
| 0642 116 617 200 |           | 2*          | 60  | 32 | 1    |
| 0642 116 617 301 |           | 3*          | 79  | 40 | 1    |
| 0642 116 613 104 | 40        | 1           | 50  | 25 | 1    |
| 0642 116 613 206 |           | 2           | 50  | 32 | 1    |
| 0642 116 613 308 |           | 3*          | 70  | 40 | 1    |
| 0642 116 613 400 |           | 4*          | 95  | 48 | 1    |
| 0642 116 613 501 |           | 1           | 120 | 25 | 2    |
| 0642 116 613 603 |           | 2           | 120 | 32 | 2    |
| 0642 116 613 705 |           | 3*          | 135 | 40 | 2    |
| 0642 116 613 807 |           | 4*          | 165 | 48 | 2    |
| 0642 116 614 105 | 50        | 1           | 45  | 25 | 1    |
| 0642 116 614 207 |           | 2           | 60  | 32 | 1    |
| 0642 116 614 309 |           | 3           | 65  | 40 | 1    |
| 0642 116 614 400 |           | 4           | 95  | 48 | 1    |
| 0642 116 614 502 |           | 5*          | 105 | 63 | 1    |
| 0642 116 614 604 |           | 1           | 120 | 25 | 2    |
| 0642 116 614 706 |           | 2           | 135 | 32 | 2    |
| 0642 116 614 808 |           | 3           | 155 | 40 | 2    |
| 0642 116 614 900 |           | 4           | 180 | 48 | 2    |
| 0642 116 615 106 |           | 5*          | 215 | 63 | 2    |

Typical order/Sposób zamawiania: 0642 116 615 106 or 1661-50-5-215

\* only for tools with Morse taper and tang DIN 228-B shank  
tylko do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B

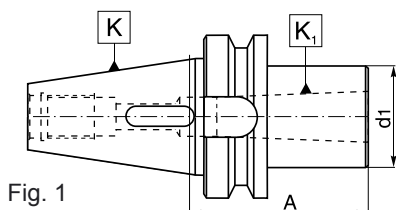


Fig. 1

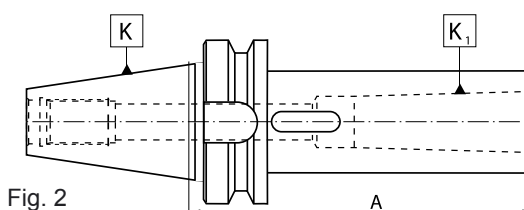


Fig. 2

## Type 1661



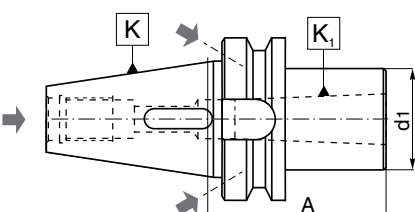
## MAS 403-BT AD+B

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 |
|------------------|-----------|-------------|-----|----|
| 0642 116 615 223 | 40        | 2           | 50  | 32 |
| 0642 116 615 249 |           | 3*          | 70  | 40 |
| 0642 116 615 264 |           | 4*          | 95  | 48 |
| 0642 116 615 427 | 50        | 2           | 60  | 32 |
| 0642 116 615 442 |           | 3           | 65  | 40 |
| 0642 116 615 468 |           | 4           | 95  | 48 |
| 0642 116 615 483 |           | 5*          | 120 | 63 |

Typical order/Sposób zamawiania: 0642 116 615 483 lub 1661-50-5-120 AD+B

\* only for tools with Morse taper and tang DIN 228-B shank  
tylko do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B

## Type 1663



## MAS 403-BT

### REDUCING ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

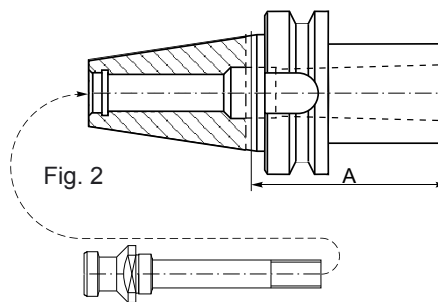
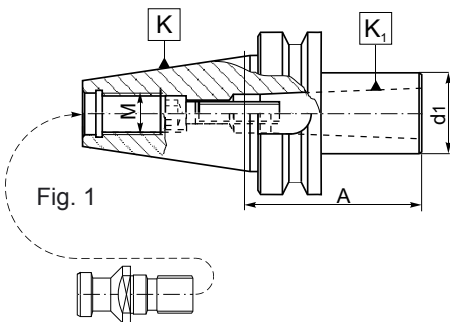
### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A  | d1 | M   | Fig. |          |
|------------------|-----------|-------------|----|----|-----|------|----------|
| 0642 116 634 101 | 30        | 1           | 45 | 25 | M12 | 1    | W-1348/0 |
| 0642 116 634 203 |           | 2           | 60 | 32 | —   | 2    | —        |
| 0642 116 635 102 | 40        | 1           | 45 | 25 | M16 | 1    | W-1091/0 |
| 0642 116 635 204 |           | 2           | 60 | 32 | M16 | 1    | W-1092/0 |
| 0642 116 635 306 |           | 3           | 75 | 40 | —   | 2    | —        |
| 0642 116 635 408 |           | 4           | 85 | 48 | —   | 2    | —        |
| 0642 116 636 103 | 50        | 1           | 45 | 25 | M24 | 1    | W-1091/0 |
| 0642 116 636 205 |           | 2           | 45 | 32 | M24 | 1    | W-1095/0 |
| 0642 116 636 307 |           | 3           | 60 | 40 | M24 | 1    | W-1096/0 |
| 0642 116 636 409 |           | 4           | 75 | 48 | M24 | 1    | U-5984/0 |
| 0642 116 636 500 |           | 5           | 75 | 63 | —   | 2    | —        |

Typical order/Sposób zamawiania: 0642 116 615 483 lub 1661-50-5-120 AD+B



## Type 1694



## MAS 403-BT AD

### REDUCING ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

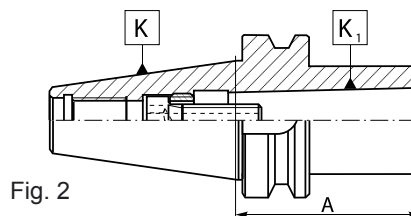
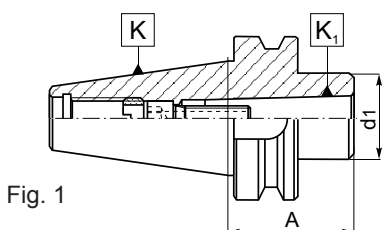
### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |          |
|------------------|-----------|-------------|-----|----|------|----------|
| 0642 116 942 100 | 30        | 1           | 50  | 25 | 1    | W-1091/0 |
| 0642 116 942 201 |           | 2           | 62  | 32 | 2    | W-1095/0 |
| 0642 116 942 303 |           | 3           | 82  | 40 | 2    | U-7790/0 |
| 0642 116 940 108 | 40        | 1           | 50  | 25 | 1    | W-1091/0 |
| 0642 116 940 200 |           | 2           | 50  | 32 | 1    | W-1092/0 |
| 0642 116 940 301 |           | 3           | 70  | 40 | 2    | W-1093/0 |
| 0642 116 940 403 |           | 4           | 95  | 48 | 2    | W-1094/0 |
| 0642 116 941 109 | 50        | 1           | 45  | 25 | 1    | W-1091/0 |
| 0642 116 941 200 |           | 2           | 60  | 32 | 1    | W-1095/0 |
| 0642 116 941 302 |           | 3           | 65  | 40 | 1    | W-1096/0 |
| 0642 116 941 404 |           | 4           | 90  | 48 | 1    | W-1097/0 |
| 0642 116 941 506 |           | 5           | 120 | 63 | 2    | W-1098/0 |

Typical order/Sposób zamawiania: 0642 116 941 506 lub 1694-50-5-120



## Type 1694



## MAS 403-BT AD+B

### REDUCING ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | Fig. |          |
|------------------|-----------|-------------|-----|----|------|----------|
| 0642 116 945 306 | 40        | 2           | 50  | 32 | 1    | W-1092/0 |
| 0642 116 945 408 |           | 3           | 70  | 40 | 2    | W-1093/0 |
| 0642 116 945 500 |           | 4           | 95  | 48 | 2    | W-1094/0 |
| 0642 116 946 307 | 50        | 2           | 60  | 32 | 1    | W-1095/0 |
| 0642 116 946 409 |           | 3           | 65  | 40 | 1    | W-1096/0 |
| 0642 116 946 500 |           | 4           | 95  | 48 | 1    | W-1097/0 |
| 0642 116 946 602 |           | 5           | 120 | 63 | 2    | W-1098/0 |

Typical order/Sposób zamawiania: 0642 116 946 602 lub 1694-50-5-120 AD+B

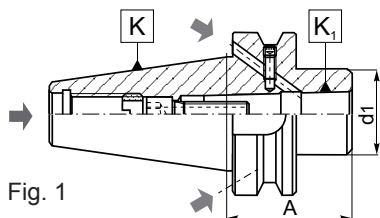


Fig. 1

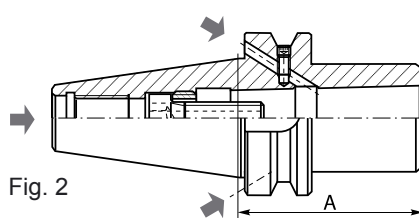


Fig. 2

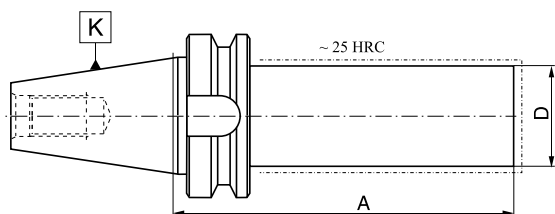
## Type 2192



## MAS 403-BT

### BLANK ADAPTERS

### TRZPIEŃ - PÓŁFABRYKAT



| Code No / Kod Nr | K<br>7:24 | D  | A   |
|------------------|-----------|----|-----|
| 0642 121 920 207 | 40        | 40 | 280 |
| 0642 121 920 309 |           | 63 | 280 |
| 0642 121 921 208 | 50        | 50 | 330 |
| 0642 121 921 300 |           | 80 | 330 |

Typical order/Sposób zamawiania: 0642 121 921 300 lub 2192-50-80-330



## Type 2826



## MAS 403-BT

### ADAPTERS

for indexable milling cutters

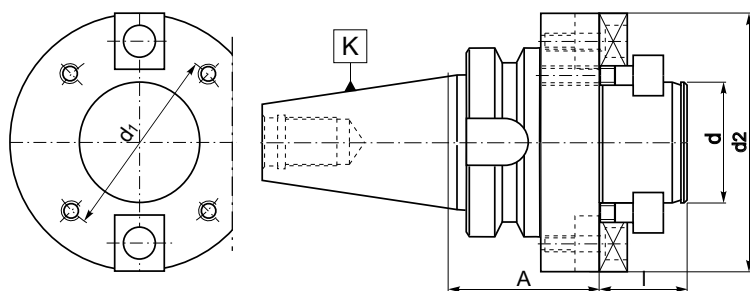
### TRZPIENIE FREZARSKIE

do głowic frezarskich



| Code No / Kod Nr | K<br>7:24 | d  | d1    | d2  | A  | I  |          |          |
|------------------|-----------|----|-------|-----|----|----|----------|----------|
| 0642 128 260 101 | 40        | 40 | 66,7  | 89  | 60 | 30 | U-6064/0 | U-1414/0 |
| 0642 128 260 000 |           | 60 | 101,6 | 129 | 60 | 40 | U-6066/0 | U-2042/0 |
| 0642 128 260 203 | 50        | 40 | 66,7  | 89  | 70 | 30 | U-6064/0 | U-1414/0 |
| 0642 128 260 305 |           | 60 | 101,6 | 129 | 80 | 40 | U-6066/0 | U-2042/0 |

Typical order/Sposób zamawiania: 0642 128 260 305 lub 2826-50-60



## Type 5373



## MAS 403-BT

### DRILL CHUCK ADAPTERS

for drill chucks taper DIN 238 or Jacobs taper

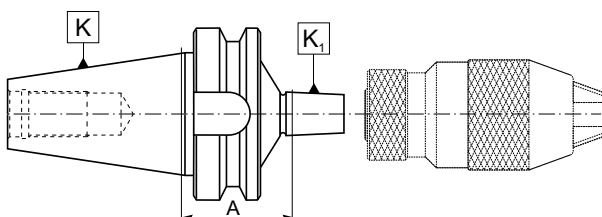
### TRZPIENIE

do uchwytów wiertarskich ze stożkiem DIN 238 lub Jacobsa



| Code No / Kod Nr | K<br>7:24 | K1<br>DIN/Jacobs | A  |
|------------------|-----------|------------------|----|
| 0642 153 736 103 | 30        | B12              | 30 |
| 0642 153 736 205 |           | B16              | 30 |
| 0642 153 733 100 | 40        | B12              | 40 |
| 0642 153 733 600 |           | B12              | 90 |
| 0642 153 733 304 |           | B16              | 42 |
| 0642 153 733 701 |           | B16              | 90 |
| 0642 153 733 508 |           | B18              | 42 |
| 0642 153 733 803 |           | B18              | 90 |
| 0642 153 734 305 | 50        | B16              | 45 |
| 0642 153 735 306 |           | B16              | 90 |
| 0642 153 734 509 |           | B18              | 45 |
| 0642 153 735 500 |           | B18              | 90 |
| 0642 153 737 807 | 30        | J6               | 30 |
| 0642 153 738 400 | 40        | J33              | 42 |
| 0642 153 738 808 |           | J6               | 42 |
| 0642 153 739 401 | 50        | J33              | 45 |
| 0642 153 739 809 |           | J6               | 45 |

Typical order/Sposób zamawiania: 0642 153 735 500 or 5373-50-B18-90



## Type 7361



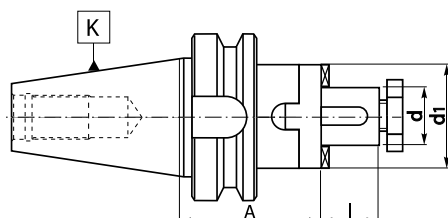
## MAS 403-BT

### COMBINATION SHELL MILL ADAPTERS

for cutters with keyway or driving slot DIN 138

### TRZPIENIE FREZARSKIE UNIWERSALNE

do frezów z rowkiem wpustowym lub rowkiem zabierakowym w/g DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A  | I  | d1 |          |          |          |
|------------------|-----------|----|----|----|----|----------|----------|----------|
| 0642 173 617 000 | 40        | 16 | 55 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 617 101 |           | 22 | 55 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 617 203 |           | 27 | 55 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 617 305 |           | 32 | 60 | 24 | 58 | U-0623/0 | U-1367/0 | U-6355/0 |
| 0642 173 617 407 |           | 40 | 60 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 617 509 | 50        | 16 | 70 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 617 600 |           | 22 | 70 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 617 702 |           | 27 | 70 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 617 804 |           | 32 | 70 | 24 | 58 | U-0623/0 | U-1367/0 | U-6355/0 |
| 0642 173 617 906 |           | 40 | 70 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 618 000 |           | 50 | 70 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |

Typical order/Sposób zamawiania: 0642 173 618 000 lub 7361-50-50-70

## Type 7372



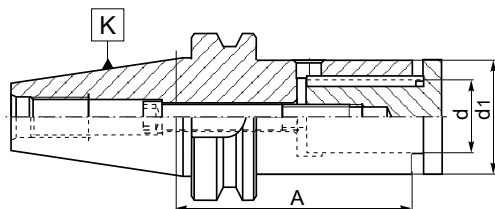
## MAS 403-BT

### MILLING ARBORS

for staggered tooth side milling cutters

### TRZPIENIE FREZARSKIE

do frezów tarczowych



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |          |          |
|------------------|-----------|----|----|-----|----------|----------|----------|
| 0642 173 721 000 | 40        | 16 | 29 | 95  | U-6520/0 | U-6510/0 | U-6526/0 |
| 0642 173 721 101 |           | 16 | 29 | 125 | U-6520/0 | U-6511/0 | U-6527/0 |
| 0642 173 721 203 |           | 22 | 36 | 95  | U-6523/0 | U-6512/0 | U-6528/0 |
| 0642 173 721 305 |           | 22 | 36 | 125 | U-6523/0 | U-6513/0 | U-6529/0 |
| 0642 173 721 407 |           | 27 | 42 | 95  | U-6523/0 | U-6514/0 | U-6530/0 |
| 0642 173 721 509 |           | 27 | 42 | 125 | U-6523/0 | U-6515/0 | U-6531/0 |
| 0642 173 721 600 |           | 32 | 50 | 95  | U-6523/0 | U-6516/0 | U-6532/0 |
| 0642 173 721 702 |           | 32 | 50 | 125 | U-6523/0 | U-6517/0 | U-6533/0 |
| 0642 173 722 000 | 50        | 22 | 36 | 100 | U-6524/0 | U-6512/0 | U-6528/0 |
| 0642 173 722 102 |           | 22 | 36 | 125 | U-6524/0 | U-6513/0 | U-6529/0 |
| 0642 173 722 204 |           | 27 | 42 | 100 | U-6524/0 | U-6514/0 | U-6530/0 |
| 0642 173 722 306 |           | 27 | 42 | 125 | U-6524/0 | U-6515/0 | U-6531/0 |
| 0642 173 722 408 |           | 32 | 50 | 100 | U-6524/0 | U-6516/0 | U-6532/0 |
| 0642 173 722 500 |           | 32 | 50 | 125 | U-6524/0 | U-6517/0 | U-6533/0 |
| 0642 173 722 601 |           | 40 | 58 | 100 | U-6524/0 | U-6518/0 | U-6534/0 |
| 0642 173 722 703 |           | 40 | 58 | 125 | U-6524/0 | U-6519/0 | U-6535/0 |

Typical order/Sposób zamawiania: 0642 173 722 703 or 7372-50-40-125

## Type 7388

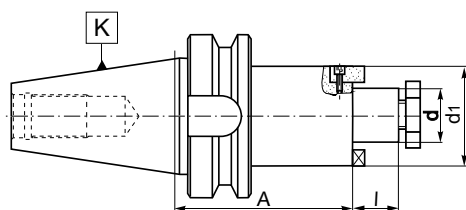


### SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym w/g DIN 138



## MAS 403-BT

| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | d1 |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 883 100 | 30        | 16 | 43  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 883 201 |           | 22 | 43  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 883 303 |           | 27 | 43  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 883 405 |           | 32 | 45  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 880 107 | 40        | 16 | 52  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 880 606 |           | 16 | 120 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 880 209 |           | 22 | 52  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 880 708 |           | 22 | 120 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 880 300 |           | 27 | 52  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 880 800 |           | 27 | 120 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 880 402 |           | 32 | 52  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 880 901 |           | 32 | 120 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 880 504 |           | 40 | 60  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 881 108 | 50        | 16 | 65  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 881 709 |           | 16 | 110 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 881 200 |           | 22 | 65  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 881 800 |           | 22 | 110 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 881 301 |           | 27 | 65  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 881 902 |           | 27 | 110 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 881 403 |           | 32 | 65  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 882 109 |           | 32 | 110 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 881 505 |           | 40 | 78  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 882 200 |           | 40 | 110 | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 881 607 |           | 50 | 78  | 30 | 90 | U-0625/0 | U-5974/0 |

Typical order/Sposób zamawiania: 0642 173 881 607 lub 7388-50-50-78

## Type 7388

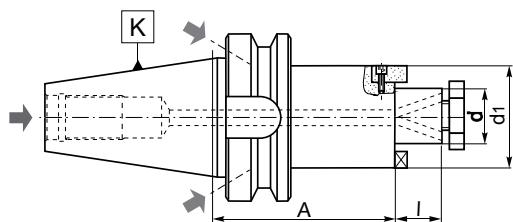


### SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym w/g DIN 138



## MAS 403-BT AD+B

| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | d1 |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 887 103 | 40        | 16 | 45  | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 887 129 |           | 16 | 100 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 887 144 |           | 16 | 130 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 887 160 |           | 16 | 160 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 887 185 |           | 22 | 45  | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 887 205 |           | 22 | 100 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 887 220 |           | 22 | 130 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 887 246 |           | 22 | 160 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 887 261 |           | 27 | 50  | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 887 287 |           | 27 | 100 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 887 307 |           | 27 | 130 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 887 322 |           | 27 | 160 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 887 348 |           | 32 | 55  | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 887 363 |           | 32 | 100 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 887 389 |           | 32 | 130 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 887 409 |           | 32 | 160 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 887 424 |           | 40 | 60  | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 887 440 |           | 40 | 100 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 887 465 |           | 40 | 130 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 887 480 |           | 40 | 160 | 27 | 80 | U-0624/0 | W-1949/0 |

## Type 7388



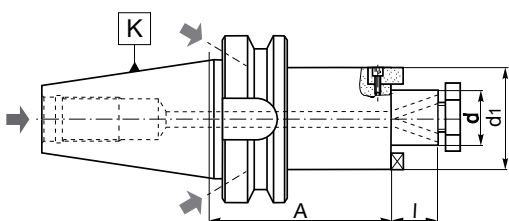
## MAS 403-BT AD+B

### SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym w/g DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | d1 |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 888 104 | 50        | 16 | 55  | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 888 120 |           | 16 | 100 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 888 145 |           | 16 | 130 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 888 160 |           | 16 | 160 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 888 186 |           | 16 | 200 | 17 | 38 | U-0620/0 | W-1945/0 |
| 0642 173 888 206 |           | 22 | 55  | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 888 221 |           | 22 | 100 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 888 247 |           | 22 | 130 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 888 262 |           | 22 | 160 | 19 | 48 | U-0621/0 | W-1946/0 |
| 0642 173 888 288 |           | 22 | 200 | 19 | 58 | U-0621/0 | W-1947/0 |
| 0642 173 888 308 |           | 27 | 60  | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 888 323 |           | 27 | 100 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 888 349 |           | 27 | 130 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 888 364 |           | 27 | 160 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 888 380 |           | 27 | 200 | 21 | 58 | U-0622/0 | W-1947/0 |
| 0642 173 888 400 |           | 32 | 65  | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 888 425 |           | 32 | 100 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 888 440 |           | 32 | 130 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 888 466 |           | 32 | 160 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 888 481 |           | 32 | 200 | 24 | 66 | U-0623/0 | W-1948/0 |
| 0642 173 888 501 |           | 40 | 70  | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 888 527 |           | 40 | 100 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 888 542 |           | 40 | 130 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 888 568 |           | 40 | 160 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 888 583 |           | 40 | 200 | 27 | 80 | U-0624/0 | W-1949/0 |
| 0642 173 888 603 |           | 50 | 70  | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 888 629 |           | 50 | 100 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 888 644 |           | 50 | 130 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 888 660 |           | 50 | 160 | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 888 685 |           | 50 | 200 | 30 | 90 | U-0625/0 | U-5974/0 |

Typical order/Sposób zamawiania: 0642 173 888 685 or 7388-50-50-200 AD+B

## Type 7624



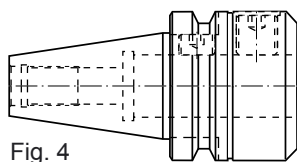
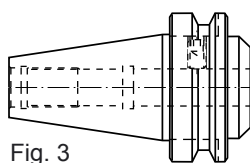
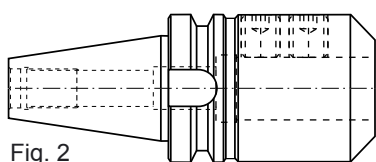
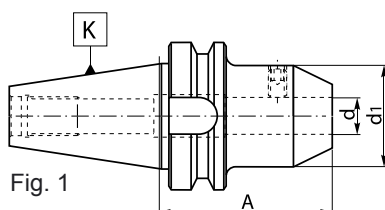
## MAS 403-BT

### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B



| Code No / Kod Nr | K<br>7:24 | d  | A   | d1  | Fig. |                   |
|------------------|-----------|----|-----|-----|------|-------------------|
| 0642 176 242 203 | 30        | 6  | 50  | 25  | 1    | U-4131/0          |
| 0642 176 242 305 |           | 8  | 50  | 28  | 1    | U-4132/0          |
| 0642 176 242 407 |           | 10 | 50  | 35  | 1    | U-4133/0          |
| 0642 176 242 509 |           | 12 | 50  | 42  | 1    | U-4134/0          |
| 0642 176 242 600 |           | 16 | 63  | 48  | 1    | U-4135/0          |
| 0642 176 242 702 |           | 20 | 63  | 52  | 1    | U-4136/0          |
| 0642 176 243 204 | 40        | 6  | 35  | 25  | 3    | U-4131/0          |
| 0642 176 240 100 |           | 6  | 50  | 25  | 1    | U-4131/0          |
| 0642 176 243 306 |           | 8  | 35  | 28  | 3    | U-4132/0          |
| 0642 176 240 201 |           | 8  | 50  | 28  | 1    | U-4132/0          |
| 0642 176 243 408 |           | 10 | 37  | 35  | 3    | U-4133/0          |
| 0642 176 240 303 |           | 10 | 63  | 35  | 1    | U-4133/0          |
| 0642 176 243 500 |           | 12 | 37  | 42  | 3    | U-4134/0          |
| 0642 176 240 405 |           | 12 | 63  | 42  | 1    | U-4134/0          |
| 0642 176 243 512 |           | 14 | 37  | 44  | 3    | U-4134/0          |
| 0642 176 243 525 |           | 14 | 63  | 44  | 1    | U-4134/0          |
| 0642 176 243 601 |           | 16 | 37  | 48  | 3    | U-4135/0          |
| 0642 176 240 507 |           | 16 | 63  | 48  | 1    | U-4135/0          |
| 0642 176 243 703 |           | 20 | 37  | 50  | 3    | U-6756/0          |
| 0642 176 240 609 |           | 20 | 63  | 50  | 1    | U-4136/0          |
| 0642 176 243 805 |           | 25 | 60  | 63  | 4    | U-4137/0 U-6755/0 |
| 0642 176 240 700 |           | 25 | 90  | 63  | 2    | U-4137/0 U-4137/0 |
| 0642 176 243 907 |           | 32 | 65  | 72  | 4    | U-4138/0 U-6755/0 |
| 0642 176 240 802 |           | 32 | 100 | 72  | 2    | U-4138/0 U-4138/0 |
| 0642 176 241 100 | 50        | 6  | 63  | 25  | 1    | U-4131/0          |
| 0642 176 241 202 |           | 8  | 63  | 28  | 1    | U-4132/0          |
| 0642 176 241 304 |           | 10 | 63  | 35  | 1    | U-4133/0          |
| 0642 176 241 406 |           | 12 | 80  | 42  | 1    | U-4134/0          |
| 0642 176 244 307 |           | 14 | 80  | 44  | 1    | U-4134/0          |
| 0642 176 241 508 |           | 16 | 80  | 48  | 1    | U-4135/0          |
| 0642 176 244 409 |           | 20 | 40  | 52  | 3    | U-4136/0          |
| 0642 176 241 600 |           | 20 | 80  | 52  | 1    | U-4136/0          |
| 0642 176 244 500 |           | 25 | 60  | 63  | 4    | U-4137/0 U-4137/0 |
| 0642 176 241 701 |           | 25 | 100 | 63  | 2    | U-4137/0 U-4137/0 |
| 0642 176 244 602 |           | 32 | 70  | 72  | 4    | U-4138/0 U-4138/0 |
| 0642 176 241 803 |           | 32 | 105 | 72  | 2    | U-4138/0 U-4138/0 |
| 0642 176 241 905 |           | 40 | 120 | 90  | 2    | U-5870/0 U-5870/0 |
| 0642 176 242 101 |           | 50 | 130 | 100 | 2    | U-4139/0 U-4139/0 |

Typical order/Sposób zamawiania: 0642 176 242 101 lub 7624-50-50-130



## Type 7624

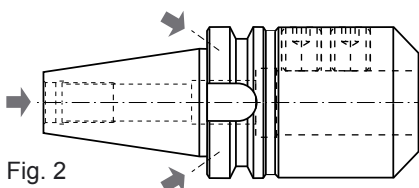
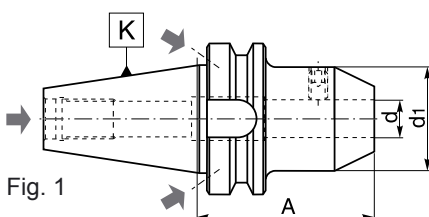


### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B



## MAS 403-BT AD+B

| Code No / Kod Nr | K<br>7:24 | d  | A   | d1   | Fig. |                   |
|------------------|-----------|----|-----|------|------|-------------------|
| 0642 176 248 300 | 40        | 6  | 50  | 25,0 | 1    | U-4131/0          |
| 0642 176 248 313 |           | 6  | 100 | 25,0 | 1    | U-4131/0          |
| 0642 176 248 326 |           | 6  | 130 | 25,0 | 1    | U-4131/0          |
| 0642 176 248 339 |           | 6  | 160 | 25,0 | 1    | U-4131/0          |
| 0642 176 248 341 |           | 6  | 200 | 25,0 | 1    | U-4131/0          |
| 0642 176 248 354 |           | 8  | 50  | 28,0 | 1    | U-4132/0          |
| 0642 176 248 367 |           | 8  | 100 | 28,0 | 1    | U-4132/0          |
| 0642 176 248 370 |           | 8  | 130 | 28,0 | 1    | U-4132/0          |
| 0642 176 248 382 |           | 8  | 160 | 28,0 | 1    | U-4132/0          |
| 0642 176 248 395 |           | 8  | 200 | 28,0 | 1    | U-4132/0          |
| 0642 176 248 402 |           | 10 | 60  | 35,0 | 1    | U-4133/0          |
| 0642 176 248 415 |           | 10 | 100 | 35,0 | 1    | U-4133/0          |
| 0642 176 248 428 |           | 10 | 130 | 35,0 | 1    | U-4133/0          |
| 0642 176 248 430 |           | 10 | 160 | 35,0 | 1    | U-4133/0          |
| 0642 176 248 443 |           | 10 | 200 | 35,0 | 1    | U-4133/0          |
| 0642 176 248 456 |           | 12 | 60  | 42,0 | 1    | U-4134/0          |
| 0642 176 248 469 |           | 12 | 100 | 42,0 | 1    | U-4134/0          |
| 0642 176 248 471 |           | 12 | 130 | 42,0 | 1    | U-4134/0          |
| 0642 176 248 484 |           | 12 | 160 | 42,0 | 1    | U-4134/0          |
| 0642 176 248 497 |           | 12 | 200 | 42,0 | 1    | U-4134/0          |
| 0642 176 248 504 |           | 14 | 60  | 44,0 | 1    | U-4134/0          |
| 0642 176 248 517 |           | 14 | 100 | 44,0 | 1    | U-4134/0          |
| 0642 176 248 520 |           | 14 | 130 | 44,0 | 1    | U-4134/0          |
| 0642 176 248 532 |           | 14 | 160 | 44,0 | 1    | U-4134/0          |
| 0642 176 248 545 |           | 14 | 200 | 44,0 | 1    | U-4134/0          |
| 0642 176 248 558 |           | 16 | 63  | 48,0 | 1    | U-4135/0          |
| 0642 176 248 560 |           | 16 | 100 | 48,0 | 1    | U-4135/0          |
| 0642 176 248 573 |           | 16 | 130 | 48,0 | 1    | U-4135/0          |
| 0642 176 248 586 |           | 16 | 160 | 48,0 | 1    | U-4135/0          |
| 0642 176 248 599 |           | 16 | 200 | 48,0 | 1    | U-4135/0          |
| 0642 176 248 606 |           | 18 | 63  | 49,5 | 1    | U-4135/0          |
| 0642 176 248 619 |           | 18 | 100 | 49,5 | 1    | U-4135/0          |
| 0642 176 248 621 |           | 18 | 130 | 49,5 | 1    | U-4135/0          |
| 0642 176 248 634 |           | 18 | 160 | 49,5 | 1    | U-4135/0          |
| 0642 176 248 647 |           | 18 | 200 | 49,5 | 1    | U-4135/0          |
| 0642 176 248 650 |           | 20 | 63  | 49,5 | 1    | U-4136/0          |
| 0642 176 248 662 |           | 20 | 100 | 49,5 | 1    | U-4136/0          |
| 0642 176 248 675 |           | 20 | 130 | 49,5 | 1    | U-4136/0          |
| 0642 176 248 688 |           | 20 | 160 | 49,5 | 1    | U-4136/0          |
| 0642 176 248 690 |           | 20 | 200 | 49,5 | 1    | U-4136/0          |
| 0642 176 248 708 |           | 25 | 100 | 63,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 248 710 |           | 25 | 130 | 63,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 248 723 |           | 25 | 160 | 63,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 248 736 |           | 25 | 200 | 63,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 248 749 |           | 32 | 100 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 248 751 |           | 32 | 130 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 248 764 |           | 32 | 160 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 248 777 |           | 32 | 200 | 72,0 | 2    | U-4138/0 U-4138/0 |

## Type 7624



## MAS 403-BT AD+B

### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B

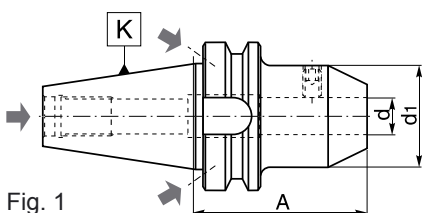


Fig. 1

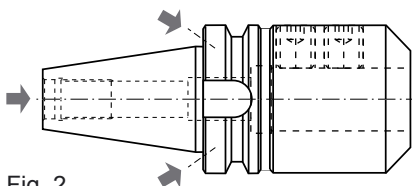


Fig. 2

| Code No / Kod Nr | K<br>7:24 | d  | A   | d1   | Fig. |                   |
|------------------|-----------|----|-----|------|------|-------------------|
| 0642 176 249 108 | 50        | 6  | 63  | 25,0 | 1    | U-4131/0          |
| 0642 176 249 110 |           | 6  | 100 | 25,0 | 1    | U-4131/0          |
| 0642 176 249 123 |           | 6  | 130 | 25,0 | 1    | U-4131/0          |
| 0642 176 249 136 |           | 6  | 160 | 25,0 | 1    | U-4131/0          |
| 0642 176 249 149 |           | 6  | 200 | 25,0 | 1    | U-4131/0          |
| 0642 176 249 151 |           | 8  | 63  | 28,0 | 1    | U-4132/0          |
| 0642 176 249 164 |           | 8  | 100 | 28,0 | 1    | U-4132/0          |
| 0642 176 249 177 |           | 8  | 130 | 28,0 | 1    | U-4132/0          |
| 0642 176 249 180 |           | 8  | 160 | 28,0 | 1    | U-4132/0          |
| 0642 176 249 192 |           | 8  | 200 | 28,0 | 1    | U-4132/0          |
| 0642 176 249 200 |           | 10 | 70  | 35,0 | 1    | U-4133/0          |
| 0642 176 249 212 |           | 10 | 100 | 35,0 | 1    | U-4133/0          |
| 0642 176 249 225 |           | 10 | 130 | 35,0 | 1    | U-4133/0          |
| 0642 176 249 238 |           | 10 | 160 | 35,0 | 1    | U-4133/0          |
| 0642 176 249 240 |           | 10 | 200 | 35,0 | 1    | U-4133/0          |
| 0642 176 249 253 |           | 12 | 80  | 42,0 | 1    | U-4134/0          |
| 0642 176 249 266 |           | 12 | 100 | 42,0 | 1    | U-4134/0          |
| 0642 176 249 279 |           | 12 | 130 | 42,0 | 1    | U-4134/0          |
| 0642 176 249 281 |           | 12 | 160 | 42,0 | 1    | U-4134/0          |
| 0642 176 249 294 |           | 12 | 200 | 42,0 | 1    | U-4134/0          |
| 0642 176 249 301 |           | 14 | 80  | 44,0 | 1    | U-4134/0          |
| 0642 176 249 314 |           | 14 | 100 | 44,0 | 1    | U-4134/0          |
| 0642 176 249 327 |           | 14 | 130 | 44,0 | 1    | U-4134/0          |
| 0642 176 249 330 |           | 14 | 160 | 44,0 | 1    | U-4134/0          |
| 0642 176 249 342 |           | 14 | 200 | 44,0 | 1    | U-4134/0          |
| 0642 176 249 355 |           | 16 | 80  | 48,0 | 1    | U-4135/0          |
| 0642 176 249 368 |           | 16 | 100 | 48,0 | 1    | U-4135/0          |
| 0642 176 249 370 |           | 16 | 130 | 48,0 | 1    | U-4135/0          |
| 0642 176 249 383 |           | 16 | 160 | 48,0 | 1    | U-4135/0          |
| 0642 176 249 396 |           | 16 | 200 | 48,0 | 1    | U-4135/0          |
| 0642 176 249 403 |           | 18 | 80  | 50,0 | 1    | U-4135/0          |
| 0642 176 249 416 |           | 18 | 100 | 50,0 | 1    | U-4135/0          |
| 0642 176 249 429 |           | 18 | 130 | 50,0 | 1    | U-4135/0          |
| 0642 176 249 431 |           | 18 | 160 | 50,0 | 1    | U-4135/0          |
| 0642 176 249 444 |           | 18 | 200 | 50,0 | 1    | U-4135/0          |
| 0642 176 249 457 |           | 20 | 80  | 52,0 | 1    | U-4136/0          |
| 0642 176 249 460 |           | 20 | 100 | 52,0 | 1    | U-4136/0          |
| 0642 176 249 472 |           | 20 | 130 | 52,0 | 1    | U-4136/0          |
| 0642 176 249 485 |           | 20 | 160 | 52,0 | 1    | U-4136/0          |
| 0642 176 249 498 |           | 20 | 200 | 52,0 | 1    | U-4136/0          |
| 0642 176 249 505 |           | 25 | 100 | 65,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 249 518 |           | 25 | 130 | 65,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 249 520 |           | 25 | 160 | 65,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 249 533 |           | 25 | 200 | 65,0 | 2    | U-4137/0 U-4137/0 |
| 0642 176 249 546 |           | 32 | 105 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 249 559 |           | 32 | 130 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 249 561 |           | 32 | 160 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 249 574 |           | 32 | 200 | 72,0 | 2    | U-4138/0 U-4138/0 |
| 0642 176 249 587 |           | 40 | 120 | 90,0 | 2    | U-5870/0 U-5870/0 |
| 0642 176 249 590 |           | 40 | 160 | 90,0 | 2    | U-5870/0 U-5870/0 |
| 0642 176 249 607 |           | 40 | 200 | 90,0 | 2    | U-5870/0 U-5870/0 |

Typical order/Sposób zamawiania: 0642 176 248 607 lub 7624-50-40-200 AD+B

## Type 7626

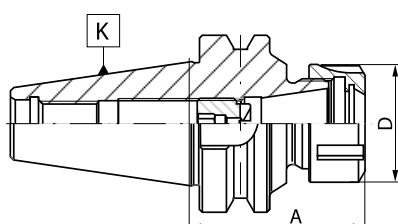


### COLLET CHUCKS ER

for tool with cylindrical shank

OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## MAS 403-BT

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | D  |         |              |
|------------------|--------|----------------|-----|-----------------|----|---------|--------------|
| 0642 176 263 302 | 30     | ER16           | 60  | 2-10            | 32 | 9833-16 | M10x11LH     |
| 0642 176 264 100 |        | ER25           | 60  | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 263 007 |        | ER32           | 60  | 2-20            | 50 | 9833-32 | M18x1,5x19LH |
| 0642 176 260 967 | 40     | ER16           | 60  | 2-10            | 32 | 9833-16 | M12x1,5x14LH |
| 0642 176 260 004 |        | ER25           | 60  | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 260 300 |        | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 261 300 |        | ER32           | 130 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 260 900 |        | ER40           | 70  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 260 926 |        | ER40           | 80  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 261 402 | 50     | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 261 901 |        | ER32           | 130 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 262 006 |        | ER40           | 80  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 262 505 |        | ER40           | 130 | 2-26            | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 262 505 lub 7626-50-40-130

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7626

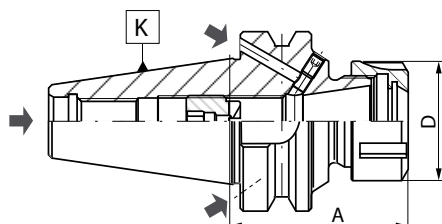


### COLLET CHUCKS ER

for tool with cylindrical shank

OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## MAS 403-BT AD+B

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | D  |         |              |
|------------------|--------|----------------|-----|-----------------|----|---------|--------------|
| 0642 176 268 348 | 40     | ER16           | 60  | 2-10            | 32 | 9833-16 | M12x1,5x14LH |
| 0642 176 268 465 |        | ER25           | 60  | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 268 500 |        | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 268 541 |        | ER32           | 160 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 268 567 |        | ER40           | 70  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 268 669 | 50     | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 268 745 |        | ER32           | 160 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 268 786 |        | ER40           | 80  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 268 821 |        | ER40           | 160 | 2-26            | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 268 821 lub 7626-50-40-160 AD+B

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7626-S



## MAS 403-BT

### COLLET CHUCKS ER

for tool with cylindrical shank

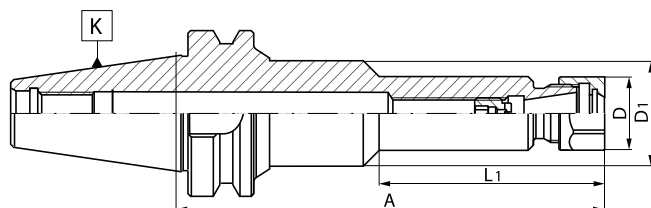
**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | L1 | D  | D1 |          |              |
|------------------|--------|----------------|-----|-----------------|----|----|----|----------|--------------|
| 0642 176 265 126 | 40     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 265 228 |        | ER16           | 150 | 2-10            | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |
| 0642 176 265 523 | 50     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 265 625 |        | ER16           | 150 | 2-10            | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 176 265 625 lub 7626-50-16-150 S



#### Standard accessories:

Nut - page 151  
screw

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkręt

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7626-S



## MAS 403-BT AD+B

### COLLET CHUCKS ER

for tool with cylindrical shank

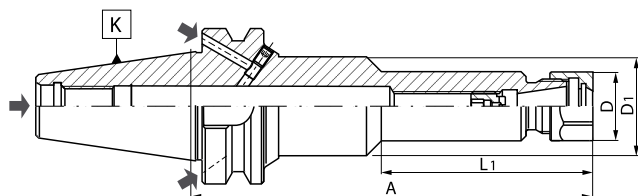
**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | L1 | D  | D1 |          |              |
|------------------|--------|----------------|-----|-----------------|----|----|----|----------|--------------|
| 0642 176 268 389 | 40     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 268 424 |        | ER16           | 160 | 2-10            | 86 | 28 | 40 | 9833-16D | M12x1,5x14LH |
| 0642 176 268 582 | 50     | ER16           | 100 | 2-10            | —  | 28 | —  | 9833-16D | M12x1,5x14LH |
| 0642 176 268 628 |        | ER16           | 160 | 2-10            | 86 | 28 | 40 | 9833-16D | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 176 268 628 lub 7626-50-16-160 S AD+B



#### Standard accessories:

Nut - page 151  
screw

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkręt

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7626



### COLLET CHUCKS ER - SET

for tool with cylindrical shank

### OPRAWKI ZACISKOWE ER - KOMPLET

do narzędzi z chwytem walcowym



## MAS 403-BT AD+B

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | Full set pieces ilość tulejek |
|------------------|--------|----------------|-----|-----------------|-------------------------------|
| 0642 176 263 404 | 30     | ER16           | 60  | 2-10            | 8                             |
| 0642 176 263 109 |        | ER32           | 60  | 2-20            | 18                            |
| 0642 176 260 106 | 40     | ER25           | 60  | 2-16            | 14                            |
| 0642 176 260 401 |        | ER32           | 70  | 2-20            | 18                            |
| 0642 176 261 107 |        | ER32           | 130 | 2-20            | 18                            |
| 0642 176 260 707 |        | ER40           | 70  | 2-26            | 24                            |
| 0642 176 261 504 | 50     | ER32           | 70  | 2-20            | 18                            |
| 0642 176 261 708 |        | ER32           | 130 | 2-20            | 18                            |
| 0642 176 262 108 |        | ER40           | 80  | 2-26            | 24                            |
| 0642 176 262 301 |        | ER40           | 130 | 2-26            | 24                            |

## Type 7626-S

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | Full set pieces ilość tulejek |
|------------------|--------|----------------|-----|-----------------|-------------------------------|
| 0642 176 265 100 | 40     | ER16           | 100 | 2-10            | 8                             |
| 0642 176 265 202 |        | ER16           | 150 | 2-10            | 8                             |
| 0642 176 265 508 | 50     | ER16           | 100 | 2-10            | 8                             |
| 0642 176 265 600 |        | ER16           | 150 | 2-10            | 8                             |

## Type 7626-PL

| Code No / Kod Nr | K 7:24 | Collet Tulejka                | A  | Capacity Zakres | Full set pieces ilość tulejek |
|------------------|--------|-------------------------------|----|-----------------|-------------------------------|
| 0642 176 263 111 | 30     | ER32                          | 60 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |
| 0642 176 260 516 | 40     | ER32                          | 70 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |
| 0642 176 261 517 | 50     | ER32                          | 70 | 3-20            | 8                             |
|                  |        | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                 |                               |

## Type 7629



### END MILL ADAPTERS TYPE WHISTLE-NOTCH

for tools with cylindrical shank and inclined flat DIN 1835-E

### OPRAWKI ZACISKOWE TYPU WHISTLE-NOTCH

do narzędzi z chwytem walcowym ze spłaszczeniem klinowym DIN 1835-E

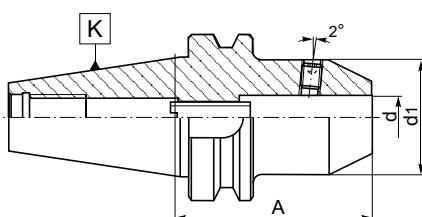


Fig. 1

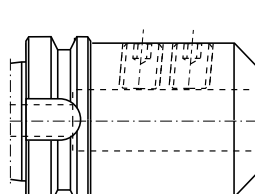


Fig. 2

## MAS 403-BT

| Code No / Kod Nr | K 7:24 | d  | d1 | A   | Fig. |                   |          |
|------------------|--------|----|----|-----|------|-------------------|----------|
| 0642 176 290 009 | 40     | 6  | 25 | 50  | 1    | U-4131/0          | U-1599/0 |
| 0642 176 290 100 |        | 8  | 28 | 50  | 1    | U-4132/0          | U-6317/0 |
| 0642 176 290 202 |        | 10 | 35 | 63  | 1    | U-4133/0          | U-0293/0 |
| 0642 176 290 304 |        | 12 | 42 | 63  | 1    | U-4134/0          | U-0757/0 |
| 0642 176 290 406 |        | 14 | 44 | 63  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 290 508 |        | 16 | 48 | 63  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 290 600 |        | 18 | 50 | 63  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 290 701 |        | 20 | 52 | 63  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 290 803 |        | 25 | 65 | 90  | 2    | U-4137/0 U-4137/0 | U-6794/0 |
| 0642 176 290 905 |        | 32 | 72 | 100 | 2    | U-4138/0 U-4138/0 | U-6794/0 |
| 0642 176 291 000 | 50     | 6  | 25 | 63  | 1    | U-4131/0          | U-1599/0 |
| 0642 176 291 101 |        | 8  | 28 | 63  | 1    | U-4132/0          | U-6317/0 |
| 0642 176 291 203 |        | 10 | 35 | 65  | 1    | U-4133/0          | U-0293/0 |
| 0642 176 291 305 |        | 12 | 42 | 80  | 1    | U-4134/0          | U-0757/0 |
| 0642 176 291 407 |        | 14 | 44 | 80  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 291 509 |        | 16 | 48 | 80  | 1    | U-4135/0          | U-6318/0 |
| 0642 176 291 600 |        | 18 | 50 | 80  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 291 702 |        | 20 | 52 | 80  | 1    | U-4136/0          | U-6793/0 |
| 0642 176 291 804 |        | 25 | 65 | 100 | 2    | U-4137/0 U-4137/0 | U-6794/0 |
| 0642 176 291 906 |        | 32 | 72 | 105 | 2    | U-4138/0 U-4138/0 | U-6794/0 |
| 0642 176 292 102 |        | 40 | 90 | 120 | 2    | U-5870/0 U-5870/0 | U-6794/0 |

Typical order/Sposób zamawiania: 0642 176 292 102 or 7629-50-40-120



## Type 7656



## MAS 403-BT

### KEYLESS DRILL CHUCKS

with shank

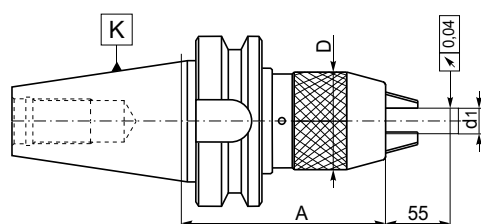
### OPRAWKA

z uchwytem wiertarskim bezkluczkowym



| Code No / Kod Nr | K<br>7:24 | d1   | A   | D  |
|------------------|-----------|------|-----|----|
| 0642 176 560 403 | 40        | 1-13 | 95  | 50 |
| 0642 176 560 444 |           | 3-16 | 100 | 57 |
| 0642 176 560 505 | 50        | 1-13 | 105 | 50 |
| 0642 176 560 546 |           | 3-16 | 110 | 57 |

Typical order/Sposób zamawiania: 0642 176 560 546 lub 7656-50-16-110



**Standard accessories:**  
wrench

**Wyposażenie podstawowe:**  
klucz

## Type 7606



## MAS 403-BT

### COLLET CHUCKS (DIN 6388-B)

for tools with cylindrical shank

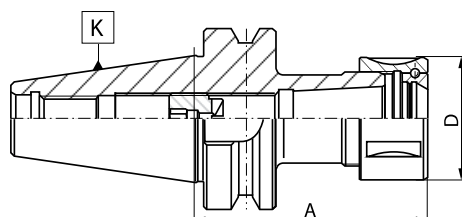
### OPRAWKI ZACISKOWE (do tulejek DIN 6388-B)

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A  | Capacity<br>Zakres | D  |         |              |
|------------------|-----------|-------------------|----|--------------------|----|---------|--------------|
| 0642 176 060 203 | 40        | 16                | 70 | 5-16               | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 061 102 |           | 25                | 70 | 6-25               | 60 | 9835-25 | M28x1,5x10LH |
| 0642 176 061 500 |           | 32                | 90 | 10-32              | 72 | 9835-32 | M28x1,5x10LH |
| 0642 176 063 104 | 50        | 25                | 85 | 6-25               | 60 | 9835-25 | M35x1,5x12LH |
| 0642 176 063 501 |           | 32                | 90 | 10-32              | 72 | 9835-32 | M35x1,5x12LH |

Typical order/Sposób zamawiania: 0642 176 451 806 lub 7645-50-32-80



**Standard accessories:**  
Nut - page 151  
screw

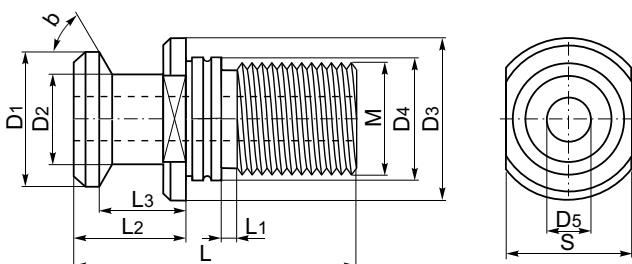
**Optional accessories:**  
Collets - page 136  
wrench - page 151

**Wyposażenie podstawowe:**  
Nakrętka - str. 151  
wkreć

**Wyposażenie dodatkowe:**  
Tulejki zaciskowe - str. 136  
klucz - str. 151

## Type 9883

**PULL STUDS**  
to MAS 403-BT  
**KOŃCÓWKI**  
do MAS 403-BT



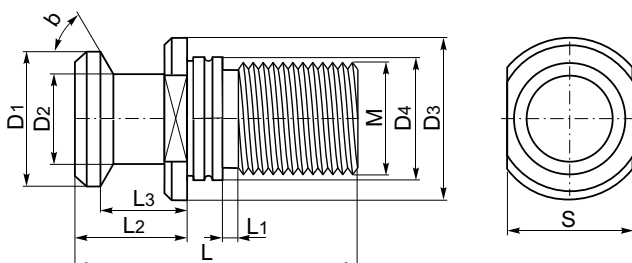
## MAS 403-BT A

| Code No / Kod Nr | Size<br>Wielkość | L  | b   | M   | L1 | L2 | L3 | D1 | D2 | D3 | D4 | D5 | S  |
|------------------|------------------|----|-----|-----|----|----|----|----|----|----|----|----|----|
| 0642 198 835 500 | 40               | 60 | 45° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 0642 198 836 501 |                  | 60 | 60° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 0642 198 837 309 |                  | 60 | 90° | M16 | 4  | 35 | 28 | 15 | 10 | 23 | 17 | 4  | 19 |
| 0642 198 835 602 | 50               | 85 | 45° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |
| 0642 198 836 603 |                  | 85 | 60° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |
| 0642 198 837 706 |                  | 85 | 90° | M24 | 8  | 45 | 35 | 23 | 17 | 38 | 25 | 6  | 30 |

Typical order/Sposób zamawiania: 0642 198 837 706 lub 9883-50-85-90 A

## Type 9883

**PULL STUDS**  
to MAS 403-BT  
**KOŃCÓWKI**  
do MAS 403-BT



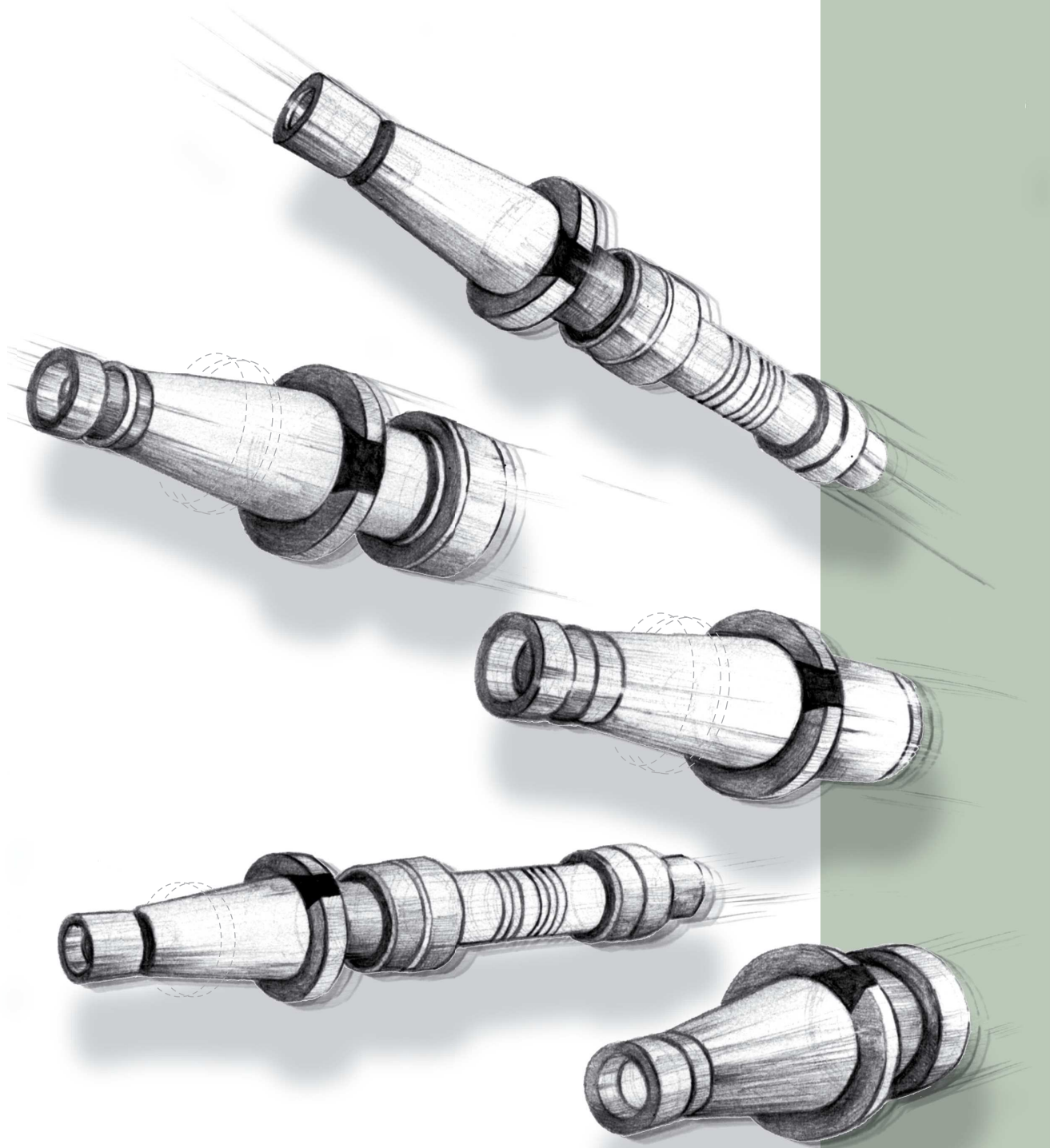
## MAS 403-BT B

| Code No / Kod Nr | Size<br>Wielkość | L   | b   | M   | L1 | L2 | L3 | D1 | D2 | D3   | D4   | S  |
|------------------|------------------|-----|-----|-----|----|----|----|----|----|------|------|----|
| 0642 198 830 302 | 30               | 43  | 45° | M12 | 2  | 23 | 18 | 11 | 7  | 16,5 | 12,5 | 13 |
| 0642 198 831 303 |                  | 43  | 60° | M12 | 2  | 23 | 18 | 11 | 7  | 16,5 | 12,5 | 13 |
| 0642 198 830 506 | 40               | 60  | 45° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 831 507 |                  | 60  | 60° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 832 304 |                  | 60  | 90° | M16 | 4  | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 830 534 |                  | 120 | 45° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 831 535 |                  | 120 | 60° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 832 406 |                  | 120 | 90° | M12 | 64 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 830 547 |                  | 125 | 45° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 831 548 |                  | 125 | 60° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 832 508 |                  | 125 | 90° | M16 | 69 | 35 | 28 | 15 | 10 | 23   | 17   | 19 |
| 0642 198 830 608 | 50               | 85  | 45° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 0642 198 831 609 |                  | 85  | 60° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 0642 198 832 701 |                  | 85  | 90° | M24 | 8  | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 0642 198 830 636 |                  | 125 | 45° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 0642 198 831 637 |                  | 125 | 60° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |
| 0642 198 832 803 |                  | 125 | 90° | M24 | 48 | 45 | 35 | 23 | 17 | 38   | 25   | 30 |

Typical order/Sposób zamawiania: 0642 198 832 803 lub 9883-50-125-90 B



DIN 2080



**BISON** BIAL

3

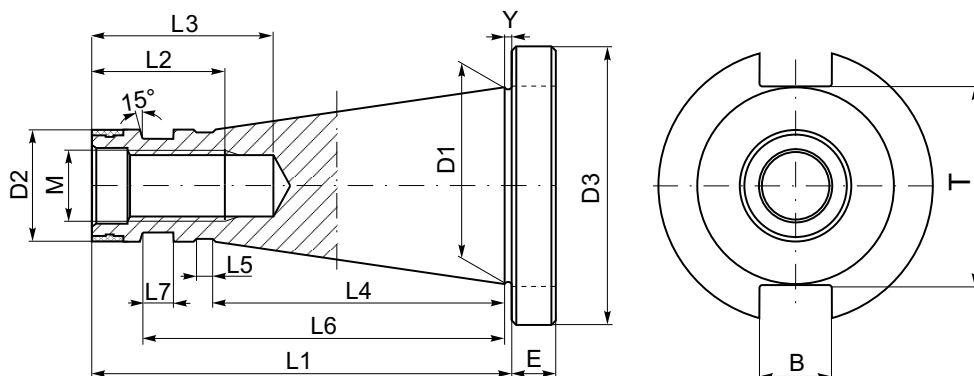
# DIN 2080

## TOOL SHANKS

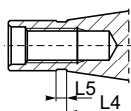
with 7:24 taper

## CHWYT

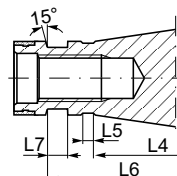
ze stożkiem 7:24



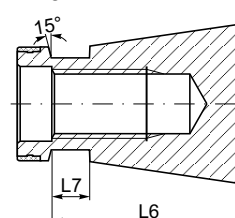
K-30



K-40



K-50



| K<br>7:24 | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | L <sub>6</sub> | L <sub>7</sub> |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 30        | 31,75          | 17,1           | 50,0           | 70             | 24             | 35             | 48,4           | 3              | -              | -              |
| 40        | 44,45          | 25,0           | 63,0           | 95             | 30             | 41             | 65,4           | 5              | 82             | 7,0            |
| 50        | 69,85          | 39,3           | 97,5           | 130            | 45             | 60             | -              | -              | 115            | 13,3           |

| K<br>7:24 | B H12 | T    | E     | M   | Y   |  |  |  |  |  |
|-----------|-------|------|-------|-----|-----|--|--|--|--|--|
| 30        | 16,1  | 32,4 | 8,76  | M12 | 1,8 |  |  |  |  |  |
| 40        | 16,1  | 45,0 | 7,98  | M16 | 1,8 |  |  |  |  |  |
| 50        | 25,7  | 70,6 | 11,50 | M24 | 3,2 |  |  |  |  |  |

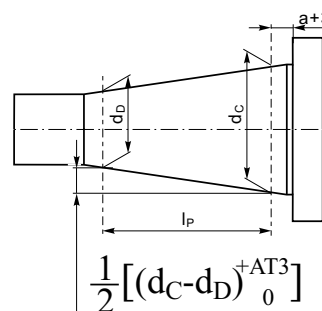
## STANDARD FEATURES OF TOOLING

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT3.

| K<br>7:24 | d <sub>C</sub> -d <sub>D</sub> | l <sub>P</sub> | a   | AT3   |
|-----------|--------------------------------|----------------|-----|-------|
| 30        | 12,250                         | 42             | 1,6 | 0,002 |
| 40        | 17,208                         | 59             | 1,6 | 0,003 |
| 50        | 26,833                         | 92             | 3,2 | 0,004 |

## CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka AT3.



# DIN 2080

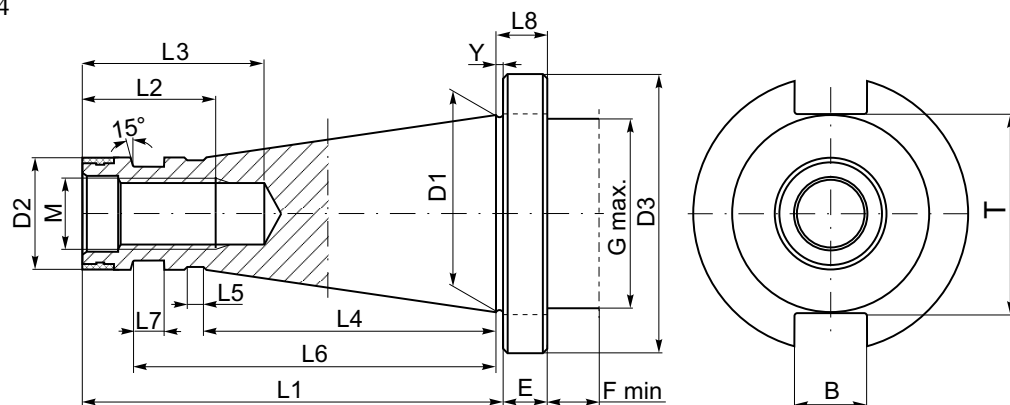
## QUICK CHANGE

### TOOL SHANKS

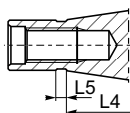
with 7:24 taper

### CHWYT

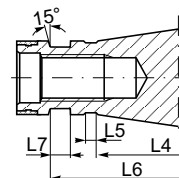
ze stożkiem 7:24



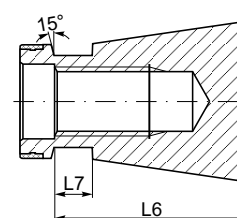
K-30



K-40



K-50



| K<br>7:24 | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | L <sub>6</sub> | L <sub>7</sub> | L <sub>8</sub> |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 30        | 31,75          | 17,1           | 46,0           | 70             | 24             | 35             | 48,4           | 3              | -              | -              | 10,74          |
| 40        | 44,45          | 25,0           | 63,5           | 95             | 30             | 41             | 65,4           | 5              | 82             | 7,0            | 9,96           |
| 50        | 69,85          | 39,6           | 88,9           | 130            | 45             | 60             | -              | -              | 115            | 13,3           | 15,10          |

| K<br>7:24 | B H12 | T    | E     | M   | Y    | F    | G  |  |  |  |  |
|-----------|-------|------|-------|-----|------|------|----|--|--|--|--|
| 30        | 16,1  | 32,4 | 8,76  | M12 | 1,98 | 8,5  | 30 |  |  |  |  |
| 40        | 16,1  | 45,0 | 7,98  | M16 | 1,98 | 11,5 | 42 |  |  |  |  |
| 50        | 25,7  | 70,6 | 11,50 | M24 | 3,60 | 11,5 | 63 |  |  |  |  |

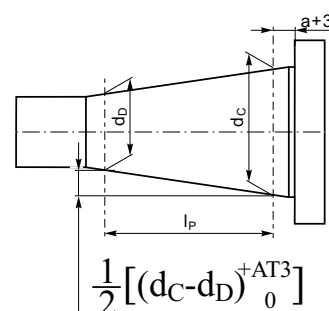
### STANDARD FEATURES OF TOOLING

- Manufactured with Chrome Manganese steel
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT3.

| K<br>7:24 | d <sub>C</sub> -d <sub>D</sub> | l <sub>p</sub> | a   | AT3   |
|-----------|--------------------------------|----------------|-----|-------|
| 30        | 12,250                         | 42             | 1,6 | 0,002 |
| 40        | 17,208                         | 59             | 1,6 | 0,003 |
| 50        | 26,833                         | 92             | 3,2 | 0,004 |

### CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka AT3.





## Type 1616

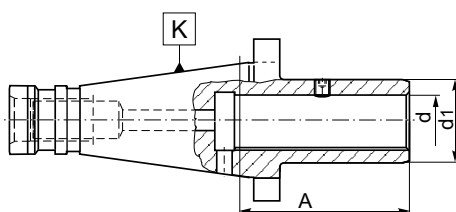
## DIN 2080

### HOLDERS

for adjustable adapters DIN 6327

### OPRAWKI

do trzpieni i tulei z regulacją osiową DIN 6327



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |
|------------------|-----------|----|----|-----|----------|
| 0642 116 160 401 | 40        | 16 | 25 | 60  | U-1997/0 |
| 0642 116 160 503 |           | 20 | 32 | 60  | U-1997/0 |
| 0642 116 160 605 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 160 707 |           | 36 | 50 | 120 | U-7381/0 |
|                  |           |    |    |     |          |
| 0642 116 160 809 | 50        | 16 | 25 | 60  | U-1997/0 |
| 0642 116 160 900 |           | 20 | 32 | 60  | U-1997/0 |
| 0642 116 161 005 |           | 28 | 40 | 100 | U-7381/0 |
| 0642 116 161 107 |           | 36 | 50 | 100 | U-7381/0 |
| 0642 116 161 209 |           | 48 | 67 | 100 | U-7382/0 |

Typical order/Sposób zamawiania: 0642 116 161 209 lub 1616-50-48-100

## Type 1650

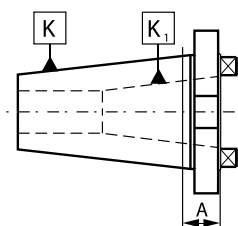
## DIN 2080

### TAPER ADAPTERS

for tools with DIN 2080 taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem 7:24 w/g DIN 2080



| Code No / Kod Nr | K<br>7:24 | K1<br>7:24 | A    |
|------------------|-----------|------------|------|
| 0642 116 501 005 | 40        | 30         | 13,0 |
|                  |           |            |      |
| 0642 116 503 007 | 50        | 30         | 15,9 |
| 0642 116 503 109 |           | 40         | 15,9 |

Typical order/Sposób zamawiania: 0642 116 503 109 lub 1650-50-40

## Type 1653

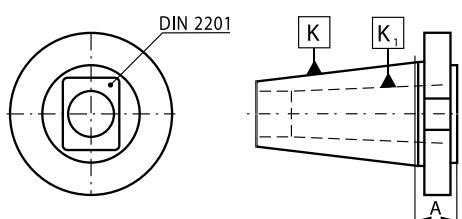
**DIN 2080**

### TAPER ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A  |
|------------------|-----------|-------------|----|
| 0642 116 531 305 | 40        | 3           | 38 |
| 0642 116 531 407 |           | 4           | 61 |
|                  |           |             |    |
| 0642 116 533 307 | 50        | 3           | 16 |
| 0642 116 533 409 |           | 4           | 22 |
| 0642 116 533 500 |           | 5           | 51 |

Typical order/Sposób zamawiania: 0642 116 533 500 lub 1653-50-5

## Type 1655

**DIN 2080**

### TAPER ADAPTERS

for tools with Morse taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a

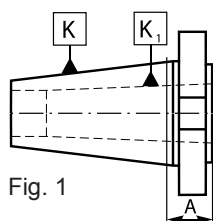


Fig. 1

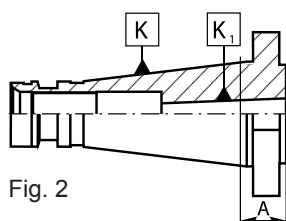


Fig. 2

| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A  | fig |
|------------------|-----------|-------------|----|-----|
| 0642 116 550 209 | 30        | 2           | 18 | 1   |
| 0642 116 550 300 |           | 3           | 72 | 1   |
|                  |           |             |    |     |
| 0642 116 555 101 | 40        | 1           | 14 | 2   |
| 0642 116 555 203 |           | 2           | 14 | 1   |
| 0642 116 555 305 |           | 3           | 14 | 1   |
| 0642 116 555 407 |           | 4           | 43 | 1   |
| 0642 116 555 509 |           | 4           | 67 | 1   |
|                  |           |             |    |     |
| 0642 116 556 102 | 50        | 1           | 17 | 2   |
| 0642 116 556 204 |           | 2           | 21 | 1   |
| 0642 116 556 306 |           | 3           | 21 | 1   |
| 0642 116 556 408 |           | 4           | 21 | 1   |
| 0642 116 556 500 |           | 5           | 65 | 1   |

Typical order/Sposób zamawiania: 0642 116 556 500 lub 1655-50-5-65

## Type 1657

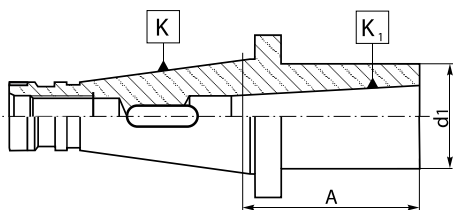
## DIN 2080

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z płetwą wg DIN 228-B



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 |
|------------------|-----------|-------------|-----|----|
| 0642 116 570 103 | 30        | 1           | 50  | 25 |
| 0642 116 570 205 |           | 2           | 57  | 32 |
| 0642 116 570 307 |           | 3           | 72  | 40 |
|                  |           |             |     |    |
| 0642 116 577 100 | 40        | 1           | 50  | 25 |
| 0642 116 577 201 |           | 2           | 50  | 32 |
| 0642 116 577 303 |           | 3           | 65  | 40 |
| 0642 116 577 405 |           | 4           | 95  | 48 |
| 0642 116 571 002 |           | 5           | 170 | 63 |
|                  |           |             |     |    |
| 0642 116 571 206 | 50        | 2           | 23  | 32 |
| 0642 116 571 308 |           | 3           | 33  | 40 |
| 0642 116 571 400 |           | 4           | 53  | 48 |
| 0642 116 571 501 |           | 5           | 86  | 63 |

Typical order/Sposób zamawiania: 0642 116 571 501 lub 1657-50-5-86

## Type 1676

## DIN 2080

### REDUCING ADAPTERS

for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A

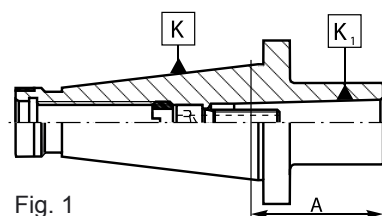
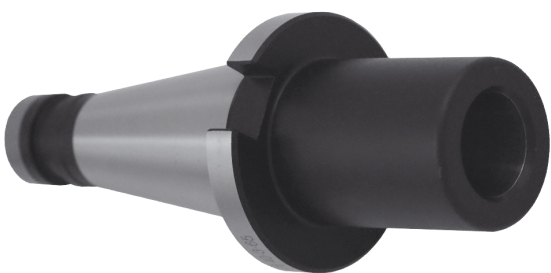


Fig. 1

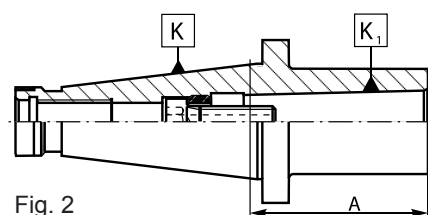


Fig. 2

| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | fig |          |
|------------------|-----------|-------------|-----|----|-----|----------|
| 0642 116 761 100 | 30        | 1           | 50  | 25 | 1   | U-2369/0 |
| 0642 116 761 202 |           | 2           | 50  | 32 | 2   | W-1092/0 |
| 0642 116 761 304 |           | 3           | 78  | 40 | 2   | U-7790/0 |
|                  |           |             |     |    |     |          |
| 0642 116 760 100 | 40        | 1           | 50  | 25 | 1   | W-1091/0 |
| 0642 116 760 201 |           | 2           | 50  | 32 | 1   | W-1092/0 |
| 0642 116 760 303 |           | 3           | 65  | 40 | 2   | W-1093/0 |
| 0642 116 760 405 |           | 4           | 95  | 48 | 2   | W-1094/0 |
|                  |           |             |     |    |     |          |
| 0642 116 760 507 | 50        | 1           | 45  | 25 | 1   | W-1091/0 |
| 0642 116 760 609 |           | 2           | 60  | 32 | 1   | W-1095/0 |
| 0642 116 760 700 |           | 3           | 65  | 40 | 1   | W-1096/0 |
| 0642 116 760 802 |           | 4           | 65  | 48 | 1   | W-1097/0 |
| 0642 116 760 904 |           | 5           | 120 | 63 | 2   | W-1098/0 |

Typical order/Sposób zamawiania: 0642 116 760 904 lub 1676-50-5-120

## Type 1679

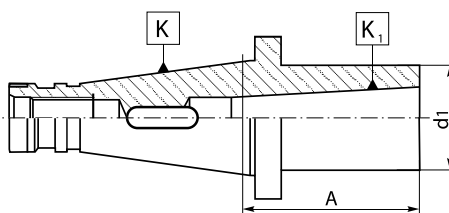
## DIN 2080

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z płetwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A



| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | d1 | fig |
|------------------|-----------|-------------|-----|----|-----|
| 0642 116 794 915 | 30        | 1           | 50  | 25 | 1   |
| 0642 116 794 928 |           | 2*          | 50  | 32 | 1   |
| 0642 116 794 930 |           | 3*          | 72  | 40 | 1   |
| 0642 116 795 109 | 40        | 1           | 50  | 25 | 1   |
| 0642 116 791 105 |           | 1           | 92  | 25 | 2   |
| 0642 116 795 200 |           | 2           | 50  | 32 | 1   |
| 0642 116 791 207 |           | 2           | 109 | 32 | 2   |
| 0642 116 795 302 |           | 3*          | 65  | 40 | 1   |
| 0642 116 791 309 |           | 3*          | 129 | 40 | 2   |
| 0642 116 795 404 |           | 4*          | 95  | 48 | 1   |
| 0642 116 791 400 |           | 4*          | 152 | 48 | 2   |
| 0642 116 796 100 | 50        | 1           | 45  | 25 | 1   |
| 0642 116 792 106 |           | 1           | 96  | 25 | 2   |
| 0642 116 796 201 |           | 2           | 60  | 32 | 1   |
| 0642 116 792 208 |           | 2           | 113 | 32 | 2   |
| 0642 116 796 303 |           | 3           | 65  | 40 | 1   |
| 0642 116 792 300 |           | 3           | 133 | 40 | 2   |
| 0642 116 796 405 |           | 4           | 70  | 48 | 1   |
| 0642 116 792 401 |           | 4           | 163 | 48 | 2   |
| 0642 116 796 507 |           | 5*          | 105 | 63 | 1   |
| 0642 116 792 503 |           | 5*          | 193 | 63 | 2   |

Typical order/Sposób zamawiania: 0642 116 792 503 lub 1679-50-5-193

## Type 1679

## QUICK CHANGE

## DIN 2080

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank or for tools with Morse taper shank and drawbar thread DIN 228-A

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z płetwą wg DIN 228-B lub do narzędzi z chwytem Morse'a z gwintem wg DIN 228-A

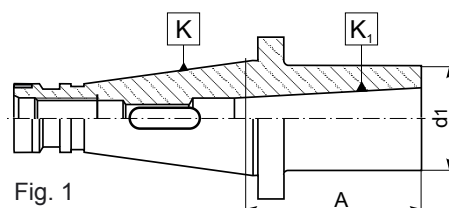


Fig. 1

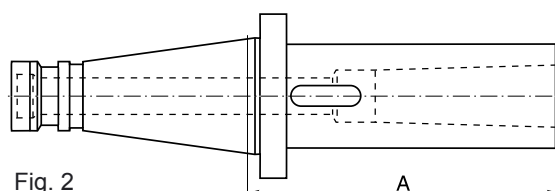


Fig. 2

| Code No / Kod Nr | K<br>7:24 | K1<br>Morse | A   | D  | fig |
|------------------|-----------|-------------|-----|----|-----|
| 0642 116 798 114 | 30        | 1           | 50  | 25 | 1   |
| 0642 116 798 127 |           | 2*          | 50  | 32 | 1   |
| 0642 116 798 130 |           | 3*          | 72  | 40 | 1   |
| 0642 116 798 216 | 40        | 1           | 50  | 25 | 1   |
| 0642 116 798 229 |           | 1           | 92  | 25 | 2   |
| 0642 116 798 318 |           | 2           | 50  | 32 | 1   |
| 0642 116 798 320 |           | 2           | 109 | 32 | 2   |
| 0642 116 798 410 |           | 3*          | 65  | 40 | 1   |
| 0642 116 798 422 |           | 3*          | 129 | 40 | 2   |
| 0642 116 798 511 |           | 4*          | 95  | 48 | 1   |
| 0642 116 798 524 |           | 4*          | 160 | 48 | 2   |

Typical order/Sposób zamawiania: 0642 116 798 524 lub 1679-40-4-160QC

\*only for tools with Morse taper and tang DIN 228-B shank  
tylko do narzędzi z chwytem Morse'a z płetwą wg DIN 228-B

## Type 1699

**DIN 2080**

### TAPER ADAPTERS

for tools with 7:24 taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem 7:24



| Code No / Kod Nr | K<br>7:24 | K1<br>7:24 | A  | Fig. | D  | M   |          |
|------------------|-----------|------------|----|------|----|-----|----------|
| 0642 116 991 100 | 50        | 40         | 27 | 1    | 88 | M16 | U-6227/0 |
| 0642 116 991 507 |           | 40         | 65 | 2    | 88 | M16 | U-6227/0 |

Typical order/Sposób zamawiania: 0642 116 991 507 lub 1699-50-40-65

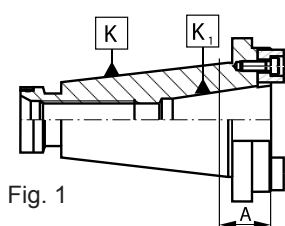


Fig. 1

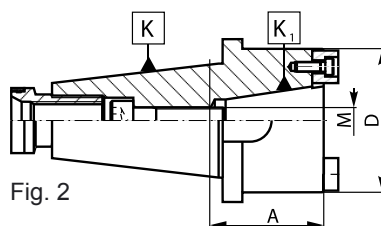


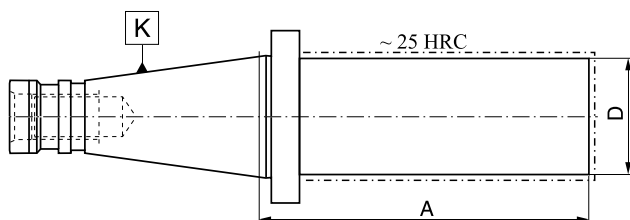
Fig. 2

## Type 2190

**DIN 2080**

### BLANK ADAPTERS

TRZPIEŃ - PÓŁFABRYKAT



| Code No / Kod Nr | K<br>7:24 | D  | A   |
|------------------|-----------|----|-----|
| 0642 121 900 200 | 40        | 40 | 280 |
| 0642 121 900 302 |           | 63 | 280 |
| 0642 121 901 201 | 50        | 50 | 330 |
| 0642 121 901 303 |           | 80 | 330 |

Typical order/Sposób zamawiania: 0642 121 901 303 lub 2190-50-80-330



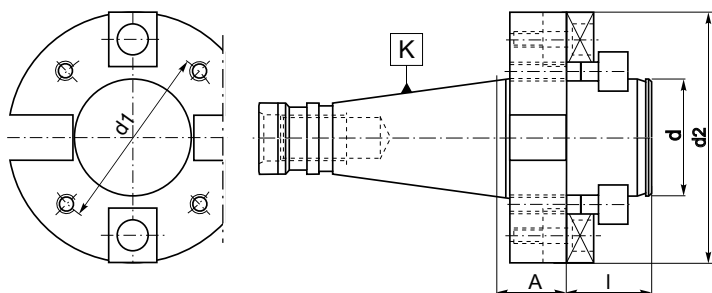
## Type 2824

### ADAPTERS

for indexable milling cutters

### TRZPIENIE FREZARSKIE

do głowic frezarskich



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | d  | d1  | d2  | A  | I  |  |  |
|------------------|-----------|----|-----|-----|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0642 128 240 105 | 40        | 40 | 66  | 89  | 30 | 30 | U-6064/0                                                                            | U-1414/0                                                                            |
| 0642 128 240 207 |           | 50 | 101 | 129 | 30 | 40 | U-6065/0                                                                            | U-2042/0                                                                            |
| 0642 128 240 309 |           | 60 | 101 | 129 | 30 | 40 | U-6066/0                                                                            | U-2042/0                                                                            |
|                  |           |    |     |     |    |    |                                                                                     |                                                                                     |
| 0642 128 240 400 | 50        | 40 | 66  | 89  | 30 | 30 | U-6064/0                                                                            | U-1414/0                                                                            |
| 0642 128 240 502 |           | 50 | 101 | 129 | 30 | 40 | U-6065/0                                                                            | U-2042/0                                                                            |
| 0642 128 240 604 |           | 60 | 101 | 129 | 30 | 40 | U-6066/0                                                                            | U-2042/0                                                                            |

Typical order/Sposób zamawiania: 0642 128 240 604 lub 2824-50-60

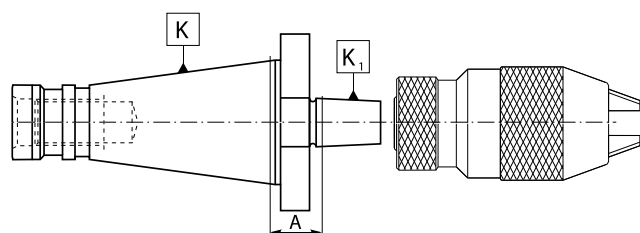
## Type 5370

### DRILL CHUCK ADAPTERS

for drill chucks taper DIN 238 or Jacobs taper

### TRZPIENIE

do uchwytów wiertarskich ze stożkiem DIN 238 lub Jacobsa



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | K1<br>DIN | A  |
|------------------|-----------|-----------|----|
| 0642 153 700 103 | 30        | B10       | 15 |
| 0642 153 700 205 |           | B12       | 15 |
| 0642 153 700 307 |           | B16       | 15 |
| 0642 153 700 409 |           | B18       | 15 |
| 0642 153 700 500 |           | B22       | 15 |
|                  |           |           |    |
| 0642 153 701 206 | 40        | B12       | 17 |
| 0642 153 707 100 |           | B12       | 90 |
| 0642 153 701 308 |           | B16       | 17 |
| 0642 153 707 201 |           | B16       | 90 |
| 0642 153 701 400 |           | B18       | 17 |
| 0642 153 707 303 |           | B18       | 90 |
| 0642 153 701 501 |           | B22       | 17 |
| 0642 153 701 603 |           | B24       | 17 |
|                  |           |           |    |
| 0642 153 702 309 | 50        | B16       | 20 |
| 0642 153 706 109 |           | B16       | 90 |
| 0642 153 702 400 |           | B18       | 20 |
| 0642 153 706 200 |           | B18       | 90 |
| 0642 153 702 502 |           | B22       | 20 |
| 0642 153 702 604 |           | B24       | 20 |

## Type 5370

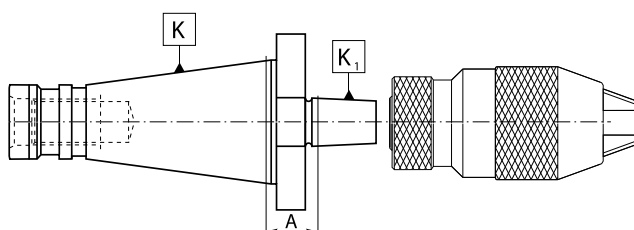
## DIN 2080

### DRILL CHUCK ADAPTERS

for drill chucks taper DIN 238 or Jacobs taper

### TRZPIENIE

do uchwytów wiertarskich ze stożkiem DIN 238 lub Jacobsa



| Code No / Kod Nr | K<br>7:24 | K1<br>Jacobs | A  |
|------------------|-----------|--------------|----|
| 0642 153 540 000 | 30        | J0           | 12 |
| 0642 153 540 101 |           | J1           | 12 |
| 0642 153 540 305 |           | J2           | 12 |
| 0642 153 540 702 |           | J3           | 12 |
| 0642 153 540 407 |           | J33          | 12 |
| 0642 153 540 509 |           | J6           | 12 |
| 0642 153 541 306 | 40        | J2           | 14 |
| 0642 153 541 703 |           | J3           | 14 |
| 0642 153 541 408 |           | J33          | 14 |
| 0642 153 541 500 |           | J6           | 14 |
| 0642 153 542 704 | 50        | J3           | 18 |
| 0642 153 542 409 |           | J33          | 18 |
| 0642 153 542 908 |           | J4           | 18 |
| 0642 153 543 002 |           | J5           | 18 |
| 0642 153 542 500 |           | J6           | 18 |

Typical order/Sposób zamawiania: 0642 153 702 604 lub 5370-50-B24-20

## Type 5370

## QUICK CHANGE

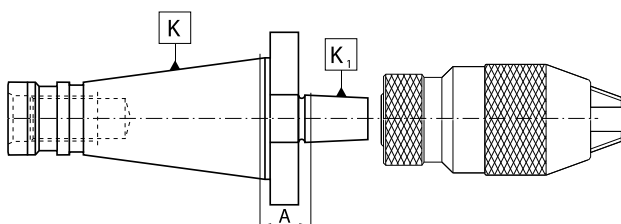
## DIN 2080

### DRILL CHUCK ADAPTERS

for drill chucks Jacobs taper

### TRZPIENIE

do uchwytów wiertarskich ze stożkiem Jacobsa



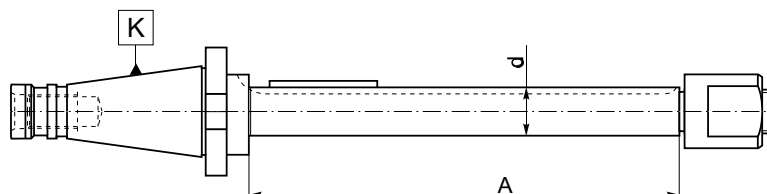
| Code No / Kod Nr | K<br>7:24 | K1<br>Jacobs | A  |
|------------------|-----------|--------------|----|
| 0642 153 549 446 | 30        | J33          | 21 |
| 0642 153 549 459 |           | J6           | 21 |
| 0642 153 549 548 | 40        | J33          | 23 |
| 0642 153 549 550 |           | J6           | 23 |

Typical order/Sposób zamawiania: 0642 153 549 550 lub 5370-40-J6-11 QC

## Type 7175

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE

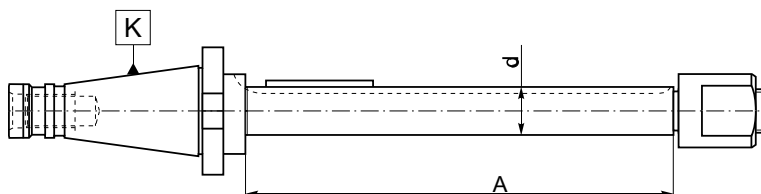


| Code No / Kod Nr | K<br>7:24 | d  | A   |         |         |
|------------------|-----------|----|-----|---------|---------|
| 0642 171 750 306 | 30        | 16 | 200 | 4x4x45  | M16x1,5 |
| 0642 171 750 408 |           | 16 | 250 | 4x4x45  | M16x1,5 |
| 0642 171 750 500 |           | 16 | 315 | 4x4x45  | M16x1,5 |
| 0642 171 750 907 |           | 22 | 200 | 6x6x50  | M20x2   |
| 0642 171 751 001 |           | 22 | 250 | 6x6x50  | M20x2   |
| 0642 171 751 103 |           | 22 | 315 | 6x6x50  | M20x2   |
| 0642 171 751 205 |           | 22 | 400 | 6x6x50  | M20x2   |
| 0642 171 751 602 |           | 27 | 200 | 7x7x50  | M24x2   |
| 0642 171 751 704 |           | 27 | 250 | 7x7x50  | M24x2   |
| 0642 171 751 806 |           | 27 | 315 | 7x7x50  | M24x2   |
| 0642 171 751 908 |           | 27 | 400 | 7x7x50  | M24x2   |
| 0642 171 752 308 | 40        | 16 | 200 | 4x4x45  | M16x1,5 |
| 0642 171 752 400 |           | 16 | 250 | 4x4x45  | M16x1,5 |
| 0642 171 752 501 |           | 16 | 315 | 4x4x45  | M16x1,5 |
| 0642 171 752 603 |           | 16 | 400 | 4x4x45  | M16x1,5 |
| 0642 171 753 003 |           | 22 | 200 | 6x6x50  | M20x2   |
| 0642 171 753 105 |           | 22 | 250 | 6x6x50  | M20x2   |
| 0642 171 753 207 |           | 22 | 315 | 6x6x50  | M20x2   |
| 0642 171 753 309 |           | 22 | 400 | 6x6x50  | M20x2   |
| 0642 171 753 400 |           | 22 | 500 | 6x6x50  | M20x2   |
| 0642 171 753 808 |           | 27 | 200 | 7x7x50  | M24x2   |
| 0642 171 753 900 |           | 27 | 250 | 7x7x50  | M24x2   |
| 0642 171 754 004 |           | 27 | 315 | 7x7x50  | M24x2   |
| 0642 171 754 106 |           | 27 | 400 | 7x7x50  | M24x2   |
| 0642 171 754 208 |           | 27 | 500 | 7x7x50  | M24x2   |
| 0642 171 754 300 |           | 27 | 630 | 7x7x50  | M24x2   |
| 0642 171 754 605 |           | 32 | 160 | 8x7x63  | M27x2   |
| 0642 171 754 809 |           | 32 | 250 | 8x7x63  | M27x2   |
| 0642 171 754 900 |           | 32 | 315 | 8x7x63  | M27x2   |
| 0642 171 755 005 |           | 32 | 400 | 8x7x63  | M27x2   |
| 0642 171 755 107 |           | 32 | 500 | 8x7x63  | M27x2   |
| 0642 171 755 209 |           | 32 | 630 | 8x7x63  | M27x2   |
| 0642 171 755 708 |           | 40 | 315 | 10x8x63 | M33x2   |
| 0642 171 755 800 |           | 40 | 400 | 10x8x63 | M33x2   |
| 0642 171 755 901 |           | 40 | 500 | 10x8x63 | M33x2   |
| 0642 171 756 006 |           | 40 | 630 | 10x8x63 | M33x2   |

# Type 7175

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE



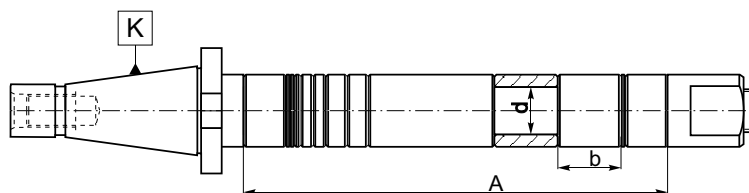
| Code No / Kod Nr | K<br>7:24 | d  | A    |         |       |
|------------------|-----------|----|------|---------|-------|
| 0642 171 760 508 | 50        | 22 | 200  | 6x6x50  | M20x2 |
| 0642 171 760 600 |           | 22 | 250  | 6x6x50  | M20x2 |
| 0642 171 760 701 |           | 22 | 315  | 6x6x50  | M20x2 |
| 0642 171 760 803 |           | 22 | 400  | 6x6x50  | M20x2 |
| 0642 171 760 905 |           | 22 | 500  | 6x6x50  | M20x2 |
| 0642 171 761 000 |           | 22 | 630  | 6x6x50  | M20x2 |
| 0642 171 761 600 |           | 27 | 315  | 7x7x50  | M24x2 |
| 0642 171 761 702 |           | 27 | 400  | 7x7x50  | M24x2 |
| 0642 171 761 804 |           | 27 | 500  | 7x7x50  | M24x2 |
| 0642 171 761 906 |           | 27 | 630  | 7x7x50  | M24x2 |
| 0642 171 762 000 |           | 27 | 800  | 7x7x50  | M24x2 |
| 0642 171 762 601 |           | 32 | 315  | 8x7x63  | M27x2 |
| 0642 171 762 703 |           | 32 | 400  | 8x7x63  | M27x2 |
| 0642 171 762 805 |           | 32 | 500  | 8x7x63  | M27x2 |
| 0642 171 762 907 |           | 32 | 630  | 8x7x63  | M27x2 |
| 0642 171 763 001 |           | 32 | 800  | 8x7x63  | M27x2 |
| 0642 171 763 103 |           | 32 | 900  | 8x7x63  | M27x2 |
| 0642 171 763 205 |           | 32 | 1000 | 8x7x63  | M27x2 |
| 0642 171 763 806 |           | 40 | 400  | 10x8x63 | M33x3 |
| 0642 171 763 908 |           | 40 | 500  | 10x8x63 | M33x3 |
| 0642 171 764 002 |           | 40 | 630  | 10x8x63 | M33x3 |
| 0642 171 764 104 |           | 40 | 800  | 10x8x63 | M33x3 |
| 0642 171 764 206 |           | 40 | 900  | 10x8x63 | M33x3 |
| 0642 171 764 308 |           | 40 | 1000 | 10x8x63 | M33x3 |
| 0642 171 764 400 |           | 50 | 400  | 12x8x80 | M39x3 |
| 0642 171 764 501 |           | 50 | 500  | 12x8x80 | M39x3 |
| 0642 171 764 603 |           | 50 | 630  | 12x8x80 | M39x3 |
| 0642 171 764 705 |           | 50 | 800  | 12x8x80 | M39x3 |
| 0642 171 764 807 |           | 50 | 900  | 12x8x80 | M39x3 |
| 0642 171 764 909 |           | 50 | 1000 | 12x8x80 | M39x3 |
| 0642 171 765 207 |           | 60 | 630  | 14x9x80 | M45x3 |
| 0642 171 765 309 |           | 60 | 800  | 14x9x80 | M45x3 |
| 0642 171 765 400 |           | 60 | 900  | 14x9x80 | M45x3 |
| 0642 171 765 502 |           | 60 | 1000 | 14x9x80 | M45x3 |

Typical order/Sposób zamawiania: 0642 171 753 003 lub 7175-40/22/200

# Type 7178

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE

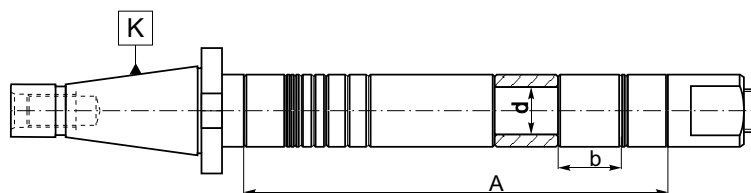


| Code No / Kod Nr | K<br>7:24 | d  | A   | 1 | Pierścienie * b rings<br>Liczba szt na 1 trzpień * Nombre of pcs 1 arbor |   |   |    |    |    |    |     |  |  |
|------------------|-----------|----|-----|---|--------------------------------------------------------------------------|---|---|----|----|----|----|-----|--|--|
|                  |           |    |     |   | 2                                                                        | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |  |
| 0642 171 780 300 | 30        | 16 | 200 | 2 | 3                                                                        | 4 | 2 | 4  | 2  | 3  | -  | -   |  |  |
| 0642 171 780 402 |           | 16 | 250 | 2 | 3                                                                        | 4 | 2 | 4  | 3  | 4  | -  | -   |  |  |
| 0642 171 780 504 |           | 16 | 315 | 1 | 4                                                                        | 2 | 2 | 4  | 5  | 5  | -  | -   |  |  |
| 0642 171 780 901 |           | 22 | 200 | 1 | 3                                                                        | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |  |
| 0642 171 781 006 |           | 22 | 250 | 1 | 3                                                                        | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |  |
| 0642 171 781 108 |           | 22 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 781 200 |           | 22 | 400 | 1 | 3                                                                        | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |  |
| 0642 171 781 607 |           | 27 | 200 | 1 | 3                                                                        | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |  |
| 0642 171 781 709 |           | 27 | 250 | 1 | 3                                                                        | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |  |
| 0642 171 781 800 |           | 27 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 781 902 |           | 27 | 400 | 1 | 3                                                                        | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |  |
|                  |           |    |     |   |                                                                          |   |   |    |    |    |    |     |  |  |
| 0642 171 782 302 | 40        | 16 | 200 | 2 | 3                                                                        | 4 | 2 | 4  | 2  | 3  | -  | -   |  |  |
| 0642 171 782 404 |           | 16 | 250 | 2 | 3                                                                        | 4 | 2 | 4  | 3  | 4  | -  | -   |  |  |
| 0642 171 782 506 |           | 16 | 315 | 1 | 4                                                                        | 2 | 2 | 4  | 5  | 5  | -  | -   |  |  |
| 0642 171 782 608 |           | 16 | 400 | 1 | 5                                                                        | 3 | 2 | 4  | 6  | 7  | -  | -   |  |  |
| 0642 171 783 008 |           | 22 | 200 | 1 | 3                                                                        | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |  |
| 0642 171 783 100 |           | 22 | 250 | 1 | 3                                                                        | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |  |
| 0642 171 783 201 |           | 22 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 783 303 |           | 22 | 400 | 1 | 3                                                                        | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |  |
| 0642 171 783 405 |           | 22 | 500 | 2 | 3                                                                        | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |  |
| 0642 171 783 802 |           | 27 | 200 | 1 | 3                                                                        | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |  |
| 0642 171 783 904 |           | 27 | 250 | 1 | 3                                                                        | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |  |
| 0642 171 784 009 |           | 27 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 784 100 |           | 27 | 400 | 1 | 3                                                                        | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |  |
| 0642 171 784 202 |           | 27 | 500 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |  |
| 0642 171 784 304 |           | 27 | 630 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |  |
| 0642 171 784 600 |           | 32 | 160 | 2 | 3                                                                        | 4 | 2 | 3  | 2  | 2  | -  | -   |  |  |
| 0642 171 784 803 |           | 32 | 250 | 1 | 3                                                                        | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |  |
| 0642 171 784 905 |           | 32 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 785 000 |           | 32 | 400 | 1 | 3                                                                        | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |  |
| 0642 171 785 101 |           | 32 | 500 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |  |
| 0642 171 785 203 |           | 32 | 630 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |  |
| 0642 171 785 702 |           | 40 | 315 | 1 | 4                                                                        | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |  |
| 0642 171 785 804 |           | 40 | 400 | 1 | 3                                                                        | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |  |
| 0642 171 785 906 |           | 40 | 500 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |  |
| 0642 171 786 000 |           | 40 | 630 | 2 | 3                                                                        | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |  |

# Type 7178

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE



| Code No / Kod Nr | K<br>7:24 | d  | A    | Pierścienie * b rings<br>Liczba szt na 1 trzpień * Nombre of pcs 1 arbor |   |   |   |    |    |    |    |     |  |
|------------------|-----------|----|------|--------------------------------------------------------------------------|---|---|---|----|----|----|----|-----|--|
|                  |           |    |      | 1                                                                        | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |
| 0642 171 790 502 | 50        | 22 | 200  | 1                                                                        | 3 | 1 | 2 | 2  | 2  | 2  | 1  | -   |  |
| 0642 171 790 604 |           | 22 | 250  | 1                                                                        | 3 | 1 | 2 | 1  | 2  | 2  | 2  | -   |  |
| 0642 171 790 706 |           | 22 | 315  | 1                                                                        | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 0642 171 790 808 |           | 22 | 400  | 1                                                                        | 3 | 1 | 2 | 3  | 4  | 3  | 3  | -   |  |
| 0642 171 790 900 |           | 22 | 500  | 2                                                                        | 3 | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |
| 0642 171 791 004 |           | 22 | 500  | 2                                                                        | 3 | 2 | 3 | 3  | 4  | 4  | 4  | -   |  |
| 0642 171 791 605 |           | 27 | 315  | 1                                                                        | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 0642 171 791 707 |           | 27 | 400  | 1                                                                        | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 0642 171 791 809 |           | 27 | 500  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 0642 171 791 900 |           | 27 | 630  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 0642 171 792 005 |           | 27 | 800  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 0642 171 792 606 |           | 32 | 315  | 1                                                                        | 4 | 2 | 2 | 2  | 3  | 3  | 2  | -   |  |
| 0642 171 792 708 |           | 32 | 400  | 1                                                                        | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 0642 171 792 800 |           | 32 | 500  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 0642 171 792 901 |           | 32 | 630  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 0642 171 793 006 |           | 32 | 800  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 0642 171 793 108 |           | 32 | 900  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 0642 171 793 200 |           | 32 | 1000 | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |
| 0642 171 793 800 |           | 40 | 400  | 1                                                                        | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 0642 171 793 902 |           | 40 | 500  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 0642 171 794 007 |           | 40 | 630  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 0642 171 794 109 |           | 40 | 800  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 0642 171 794 200 |           | 40 | 900  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 0642 171 794 302 |           | 40 | 1000 | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |
| 0642 171 794 404 |           | 50 | 400  | 1                                                                        | 3 | 1 | 2 | 1  | 3  | 3  | 2  | 1   |  |
| 0642 171 794 506 |           | 50 | 500  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 3  | 2  | 2   |  |
| 0642 171 794 608 |           | 50 | 630  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 0642 171 794 700 |           | 50 | 800  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 0642 171 794 801 |           | 50 | 900  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 0642 171 794 903 |           | 50 | 1000 | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |
| 0642 171 795 201 |           | 60 | 630  | 2                                                                        | 3 | 2 | 3 | 2  | 2  | 2  | 3  | 3   |  |
| 0642 171 795 303 |           | 60 | 800  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 3   |  |
| 0642 171 795 405 |           | 60 | 900  | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 4   |  |
| 0642 171 795 507 |           | 60 | 1000 | 4                                                                        | 4 | 4 | 3 | 4  | 3  | 4  | 4  | 5   |  |

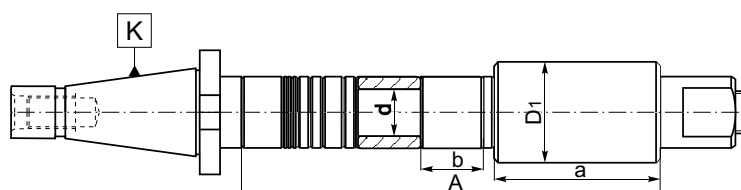
Typical order/Sposób zamawiania: 0642 171 783 008 lub 7178 -40-22-200



# Type 7181

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE

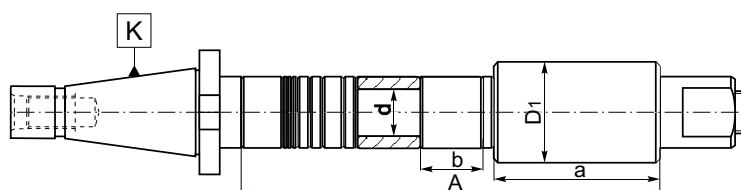


| Code No / Kod Nr | K<br>7:24 | d  | A   | Pierścienie * b rings<br>6 10 20 30 60 100      |   |   |   |    |    |    |    |     |  | Bushing<br>Tuleja walcowa<br>dxD1xa |
|------------------|-----------|----|-----|-------------------------------------------------|---|---|---|----|----|----|----|-----|--|-------------------------------------|
|                  |           |    |     | 1                                               | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 |  |                                     |
|                  |           |    |     | Liczba szt na 1 trzpień * Numbre of pcs 1 arbor |   |   |   |    |    |    |    |     |  |                                     |
| 0642 171 810 005 | 30        | 16 | 200 | 1                                               | 3 | 3 | 1 | 2  | 2  | 2  | -  | -   |  | 16x42x60                            |
| 0642 171 810 107 |           | 16 | 250 | 1                                               | 3 | 3 | 1 | 4  | 2  | 3  | -  | -   |  | 16x42x60                            |
| 0642 171 810 209 |           | 16 | 315 | 3                                               | 3 | 4 | 1 | 5  | 3  | 4  | -  | -   |  | 16x42x60                            |
| 0642 171 810 300 |           | 22 | 200 | 1                                               | 3 | 3 | 1 | 2  | 2  | 2  | -  | -   |  | 22x42x60                            |
| 0642 171 810 402 |           | 22 | 250 | 1                                               | 3 | 3 | 1 | 1  | 2  | 2  | 1  | -   |  | 22x42x60                            |
| 0642 171 810 504 |           | 22 | 315 | 1                                               | 4 | 2 | 2 | 2  | 3  | 3  | 1  | -   |  | 22x42x60                            |
| 0642 171 810 606 |           | 22 | 400 | 1                                               | 3 | 3 | 1 | 2  | 3  | 2  | 3  | -   |  | 22x42x60                            |
| 0642 171 810 708 |           | 27 | 200 | 1                                               | 1 | 1 | 1 | 2  | 2  | 2  | -  | -   |  | 27x48x70                            |
| 0642 171 810 800 |           | 27 | 250 | 1                                               | 1 | 1 | 1 | 1  | 2  | 2  | 1  | -   |  | 27x48x70                            |
| 0642 171 810 901 |           | 27 | 315 | 1                                               | 2 | 2 | 1 | 2  | 3  | 3  | 1  | -   |  | 27x48x70                            |
| 0642 171 811 006 |           | 27 | 400 | 1                                               | 1 | 1 | 1 | 2  | 1  | 2  | 2  | 1   |  | 27x48x70                            |
| 0642 171 811 108 | 40        | 16 | 200 | 2                                               | 1 | 2 | 2 | 2  | 1  | 2  | -  | -   |  | 16x56x80                            |
| 0642 171 811 200 |           | 16 | 250 | 1                                               | 3 | 3 | 1 | 4  | 1  | 3  | -  | -   |  | 16x56x80                            |
| 0642 171 811 301 |           | 16 | 315 | 3                                               | 3 | 4 | 1 | 5  | 2  | 4  | -  | -   |  | 16x56x80                            |
| 0642 171 811 403 |           | 16 | 400 | 2                                               | 3 | 4 | 2 | 5  | 3  | 6  | -  | -   |  | 16x56x80                            |
| 0642 171 811 505 |           | 22 | 200 | 1                                               | 3 | 3 | 1 | 2  | 1  | 2  | -  | -   |  | 22x56x80                            |
| 0642 171 811 607 |           | 22 | 250 | 1                                               | 3 | 3 | 1 | 1  | 1  | 2  | 1  | -   |  | 22x56x80                            |
| 0642 171 811 709 |           | 22 | 315 | 1                                               | 4 | 2 | 2 | 2  | 2  | 3  | 1  | -   |  | 22x56x80                            |
| 0642 171 811 800 |           | 22 | 400 | 1                                               | 3 | 3 | 1 | 2  | 2  | 2  | 3  | -   |  | 22x56x80                            |
| 0642 171 811 902 |           | 22 | 500 | 1                                               | 3 | 3 | 1 | 3  | 2  | 3  | 4  | -   |  | 22x56x80                            |
| 0642 171 812 007 |           | 27 | 250 | 1                                               | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   |  | 27x56x80                            |
| 0642 171 812 109 |           | 27 | 315 | 2                                               | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   |  | 27x56x80                            |
| 0642 171 812 200 |           | 27 | 400 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   |  | 27x56x80                            |
| 0642 171 812 302 |           | 27 | 500 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   |  | 27x56x80                            |
| 0642 171 812 404 |           | 27 | 630 | 2                                               | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   |  | 27x56x80                            |
| 0642 171 812 506 |           | 32 | 250 | 1                                               | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   |  | 32x56x80                            |
| 0642 171 812 608 |           | 32 | 315 | 2                                               | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   |  | 32x56x80                            |
| 0642 171 812 700 |           | 32 | 400 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   |  | 32x56x80                            |
| 0642 171 812 801 |           | 32 | 500 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   |  | 32x56x80                            |
| 0642 171 812 903 |           | 32 | 630 | 2                                               | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   |  | 32x56x80                            |
| 0642 171 813 008 |           | 40 | 315 | 2                                               | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   |  | 40x56x80                            |
| 0642 171 813 100 |           | 40 | 400 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   |  | 40x56x80                            |
| 0642 171 813 201 |           | 40 | 500 | 2                                               | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   |  | 40x56x80                            |
| 0642 171 813 303 |           | 40 | 630 | 2                                               | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   |  | 40x56x80                            |

# Type 7181

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE



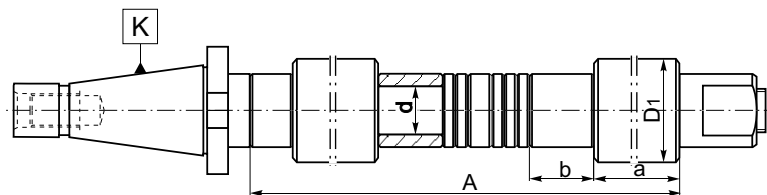
| Pierścienie * b rings |           |    |      |   |             |          |      |               |                   |           |         |             |     |                                     |
|-----------------------|-----------|----|------|---|-------------|----------|------|---------------|-------------------|-----------|---------|-------------|-----|-------------------------------------|
| Code No / Kod Nr      | K<br>7:24 | d  | A    | 1 | 2<br>Liczba | 3<br>szt | na 1 | 6<br>trząpień | 10<br>* Number of | 20<br>pcs | 30<br>1 | 60<br>arbor | 100 | Bushing<br>Tuleja walcowa<br>dxD1xa |
| 0642 171 815 702      | 50        | 22 | 200  | 1 | 3           | 1        | 2    | 1             | 2                 | 1         | -       | -           |     | 22x70x100                           |
| 0642 171 815 804      |           | 22 | 250  | 1 | 3           | 1        | 2    | 1             | 3                 | 2         | -       | -           |     | 22x70x100                           |
| 0642 171 815 906      |           | 22 | 315  | 1 | 4           | 2        | 2    | 1             | 3                 | 2         | 1       | -           |     | 22x70x100                           |
| 0642 171 816 000      |           | 22 | 400  | 1 | 3           | 1        | 2    | 1             | 3                 | 1         | 3       | -           |     | 22x70x100                           |
| 0642 171 816 102      |           | 22 | 500  | 2 | 3           | 4        | 2    | 4             | 3                 | 3         | 3       | -           |     | 22x70x100                           |
| 0642 171 816 204      |           | 22 | 630  | 2 | 3           | 4        | 2    | 4             | 2                 | 4         | 5       | -           |     | 22x70x100                           |
| 0642 171 816 306      |           | 27 | 315  | 2 | 2           | 3        | 2    | 2             | 1                 | 1         | 2       | -           |     | 27x70x100                           |
| 0642 171 816 408      |           | 27 | 400  | 2 | 1           | 2        | 2    | 4             | 3                 | 2         | 2       | -           |     | 27x70x100                           |
| 0642 171 816 500      |           | 27 | 500  | 2 | 1           | 2        | 2    | 3             | 4                 | 3         | 3       | -           |     | 27x70x100                           |
| 0642 171 816 601      |           | 27 | 630  | 2 | 3           | 4        | 2    | 2             | 2                 | 2         | 3       | 2           |     | 27x70x100                           |
| 0642 171 816 703      |           | 27 | 800  | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 5       | 2           |     | 27x70x100                           |
| 0642 171 816 805      |           | 32 | 315  | 2 | 2           | 3        | 2    | 2             | 1                 | 1         | 2       | -           |     | 32x70x100                           |
| 0642 171 816 907      |           | 32 | 400  | 2 | 1           | 2        | 2    | 4             | 3                 | 2         | 2       | -           |     | 32x70x100                           |
| 0642 171 817 001      |           | 32 | 500  | 2 | 1           | 2        | 2    | 3             | 4                 | 3         | 3       | -           |     | 32x70x100                           |
| 0642 171 817 103      |           | 32 | 630  | 2 | 3           | 4        | 2    | 2             | 2                 | 2         | 3       | 2           |     | 32x70x100                           |
| 0642 171 817 205      |           | 32 | 800  | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 5       | 2           |     | 32x70x100                           |
| 0642 171 817 307      |           | 32 | 900  | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 5       | 3           |     | 32x70x100                           |
| 0642 171 817 409      |           | 32 | 1000 | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 5       | 4           |     | 32x70x100                           |
| 0642 171 817 500      |           | 40 | 400  | 2 | 1           | 2        | 2    | 4             | 2                 | 2         | 2       | -           |     | 40x85x120                           |
| 0642 171 817 602      |           | 40 | 500  | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 3       | -           |     | 40x85x120                           |
| 0642 171 817 704      |           | 40 | 630  | 2 | 3           | 4        | 2    | -             | 2                 | 2         | 3       | 2           |     | 40x85x120                           |
| 0642 171 817 806      |           | 40 | 800  | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 2           |     | 40x85x120                           |
| 0642 171 817 908      |           | 40 | 900  | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 3           |     | 40x85x120                           |
| 0642 171 818 002      |           | 40 | 1000 | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 4           |     | 40x85x120                           |
| 0642 171 818 104      |           | 50 | 400  | 2 | 1           | 2        | 2    | 4             | 2                 | 2         | 2       | -           |     | 50x85x120                           |
| 0642 171 818 206      |           | 50 | 500  | 2 | 1           | 2        | 2    | 3             | 3                 | 3         | 3       | -           |     | 50x85x120                           |
| 0642 171 818 308      |           | 50 | 630  | 2 | 3           | 4        | 2    | 2             | 1                 | 2         | 3       | 2           |     | 50x85x120                           |
| 0642 171 818 400      |           | 50 | 800  | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 2           |     | 50x85x120                           |
| 0642 171 818 501      |           | 50 | 900  | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 3           |     | 50x85x120                           |
| 0642 171 818 603      |           | 50 | 1000 | 2 | 1           | 2        | 2    | 3             | 2                 | 3         | 5       | 4           |     | 50x85x120                           |
| 0642 171 818 909      |           | 60 | 630  | 2 | 3           | 2        | 3    | 2             | 3                 | 2         | 2       | 2           |     | 60x110x120                          |
| 0642 171 819 003      |           | 60 | 800  | 4 | 4           | 4        | 3    | 3             | 3                 | 3         | 4       | 2           |     | 60x110x120                          |
| 0642 171 819 105      |           | 60 | 900  | 4 | 4           | 4        | 3    | 3             | 3                 | 3         | 4       | 3           |     | 60x110x120                          |
| 0642 171 819 207      |           | 60 | 1000 | 4 | 4           | 4        | 3    | 3             | 3                 | 3         | 4       | 4           |     | 60x110x120                          |

Typical order/Sposób zamawiania: 0642 171 811 505 lub 7181-40-22-200

# Type 7184

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE

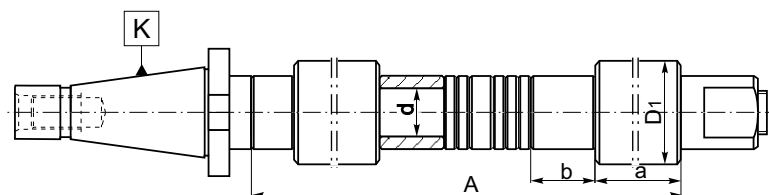


| Code No / Kod Nr | K<br>7:24 | d  | A   | 1 | Pierścienie * b rings                           |   |   |    |    |    |    |     |           |  | Bushing<br>Tuleja walcowa<br>dxD1xa |
|------------------|-----------|----|-----|---|-------------------------------------------------|---|---|----|----|----|----|-----|-----------|--|-------------------------------------|
|                  |           |    |     |   | 2                                               | 3 | 6 | 10 | 20 | 30 | 60 | 100 |           |  |                                     |
|                  |           |    |     |   | Liczba szt na 1 trzpień * Number of pcs 1 arbor |   |   |    |    |    |    |     |           |  |                                     |
| 0642 171 840 000 | 30        | 16 | 315 | 2 | 2                                               | 2 | 2 | 2  | 3  | 3  | -  | -   | 16x42x60  |  |                                     |
| 0642 171 840 101 |           | 22 | 315 | 2 | 2                                               | 2 | 2 | 2  | 3  | 3  | -  | -   | 22x42x60  |  |                                     |
| 0642 171 840 203 |           | 22 | 400 | 2 | 1                                               | 3 | 1 | 3  | 4  | 3  | 1  | -   | 22x42x60  |  |                                     |
| 0642 171 840 305 |           | 27 | 315 | 2 | 2                                               | 1 | 3 | 2  | 2  | 3  | -  | -   | 27x48x70  |  |                                     |
| 0642 171 840 407 |           | 27 | 400 | 2 | 1                                               | 2 | 2 | 3  | 3  | 3  | 1  | -   | 27x48x70  |  |                                     |
|                  |           |    |     |   |                                                 |   |   |    |    |    |    |     |           |  |                                     |
| 0642 171 840 509 | 40        | 16 | 315 | 2 | 2                                               | 1 | 3 | 3  | 3  | 2  | -  | -   | 16x48x70  |  |                                     |
| 0642 171 840 600 |           | 16 | 400 | 2 | 3                                               | 2 | 3 | 3  | 4  | 4  | -  | -   | 16x48x70  |  |                                     |
| 0642 171 840 702 |           | 22 | 315 | 2 | 2                                               | 1 | 3 | 1  | 3  | 2  | -  | -   | 22x56x80  |  |                                     |
| 0642 171 840 804 |           | 22 | 400 | 2 | 1                                               | 2 | 2 | 2  | 4  | 2  | 1  | -   | 22x56x80  |  |                                     |
| 0642 171 840 906 |           | 22 | 500 | 2 | 1                                               | 2 | 2 | 2  | 3  | 2  | 3  | -   | 22x56x80  |  |                                     |
| 0642 171 841 000 |           | 27 | 315 | 2 | 2                                               | 1 | 3 | 3  | 2  | 2  | -  | -   | 27x56x80  |  |                                     |
| 0642 171 841 102 |           | 27 | 400 | 2 | 1                                               | 2 | 2 | 4  | 3  | 2  | 1  | -   | 27x56x80  |  |                                     |
| 0642 171 841 204 |           | 27 | 500 | 2 | 3                                               | 2 | 3 | 4  | 3  | 3  | 2  | -   | 27x56x80  |  |                                     |
| 0642 171 841 306 |           | 27 | 630 | 4 | 4                                               | 4 | 3 | 2  | 2  | 3  | 3  | 1   | 27x56x80  |  |                                     |
| 0642 171 841 408 |           | 32 | 315 | 2 | 2                                               | 1 | 3 | 3  | 2  | 2  | -  | -   | 32x56x80  |  |                                     |
| 0642 171 841 500 |           | 32 | 400 | 2 | 1                                               | 2 | 2 | 4  | 3  | 2  | 1  | -   | 32x56x80  |  |                                     |
| 0642 171 841 601 |           | 32 | 500 | 2 | 3                                               | 2 | 3 | 4  | 3  | 3  | 2  | -   | 32x56x80  |  |                                     |
| 0642 171 841 703 |           | 32 | 630 | 4 | 4                                               | 4 | 3 | 2  | 2  | 3  | 3  | 1   | 32x56x80  |  |                                     |
| 0642 171 841 805 |           | 40 | 315 | 2 | 2                                               | 1 | 3 | 2  | 2  | 1  | -  | -   | 40x70x100 |  |                                     |
| 0642 171 841 907 |           | 40 | 400 | 2 | 1                                               | 2 | 2 | 2  | 2  | 2  | 1  | -   | 40x70x100 |  |                                     |
| 0642 171 842 001 |           | 40 | 500 | 2 | 3                                               | 2 | 3 | 2  | 2  | 3  | 2  | -   | 40x70x100 |  |                                     |
| 0642 171 842 103 |           | 40 | 630 | 4 | 4                                               | 4 | 3 | 2  | 3  | 3  | 2  | 1   | 40x70x100 |  |                                     |

# Type 7184

DIN 2080

MILLING MACHINE ARBORS  
TRZPIENIE FREZARSKIE DŁUGIE



| Code No / Kod Nr | K<br>7:24 | d  | A    | 1 | Pierścienie * b rings   |               |   |    |    |    |    |     |            |  | Bushing<br>Tuleja walcowa<br>dxD1xa |
|------------------|-----------|----|------|---|-------------------------|---------------|---|----|----|----|----|-----|------------|--|-------------------------------------|
|                  |           |    |      |   | 2<br>Liczba<br>szt na 1 | 3<br>trząpień | 6 | 10 | 20 | 30 | 60 | 100 |            |  |                                     |
| 0642 171 844 003 | 50        | 22 | 315  | 2 | 2                       | 3             | 2 | 2  | 2  | 1  | -  | -   | 22x70x100  |  |                                     |
| 0642 171 844 105 |           | 22 | 400  | 2 | 1                       | 2             | 2 | 3  | 3  | 3  | -  | -   | 22x70x100  |  |                                     |
| 0642 171 844 207 |           | 22 | 500  | 2 | 1                       | 2             | 2 | 4  | 3  | 2  | 2  | -   | 22x70x100  |  |                                     |
| 0642 171 844 309 |           | 22 | 630  | 2 | 1                       | 2             | 2 | 4  | 2  | 3  | 4  | -   | 22x70x100  |  |                                     |
| 0642 171 844 400 |           | 27 | 315  | 2 | 2                       | 3             | 2 | 2  | 2  | 1  | -  | -   | 27x70x100  |  |                                     |
| 0642 171 844 502 |           | 27 | 400  | 2 | 1                       | 2             | 2 | 3  | 3  | 3  | -  | -   | 27x70x100  |  |                                     |
| 0642 171 844 604 |           | 27 | 500  | 2 | 1                       | 2             | 2 | 4  | 3  | 2  | 2  | -   | 27x70x100  |  |                                     |
| 0642 171 844 706 |           | 27 | 630  | 4 | 4                       | 4             | 3 | 4  | 2  | 3  | 2  | 1   | 27x70x100  |  |                                     |
| 0642 171 844 808 |           | 27 | 800  | 4 | 4                       | 4             | 3 | 2  | 2  | 4  | 3  | 2   | 27x70x100  |  |                                     |
| 0642 171 844 900 |           | 32 | 315  | 2 | 2                       | 3             | 2 | 2  | 2  | 1  | -  | -   | 32x70x100  |  |                                     |
| 0642 171 845 004 |           | 32 | 400  | 2 | 1                       | 2             | 2 | 3  | 3  | 3  | -  | -   | 32x70x100  |  |                                     |
| 0642 171 845 106 |           | 32 | 500  | 2 | 1                       | 2             | 2 | 4  | 3  | 2  | 2  | -   | 32x70x100  |  |                                     |
| 0642 171 845 208 |           | 32 | 630  | 4 | 4                       | 4             | 3 | 4  | 2  | 3  | 2  | 1   | 32x70x100  |  |                                     |
| 0642 171 845 300 |           | 32 | 800  | 4 | 4                       | 4             | 3 | 2  | 2  | 4  | 3  | 2   | 32x70x100  |  |                                     |
| 0642 171 845 401 |           | 32 | 900  | 4 | 4                       | 4             | 3 | 2  | 2  | 4  | 3  | 3   | 32x70x100  |  |                                     |
| 0642 171 845 503 |           | 32 | 1000 | 4 | 4                       | 4             | 3 | 2  | 2  | 4  | 3  | 4   | 32x70x100  |  |                                     |
| 0642 171 845 605 |           | 40 | 400  | 2 | 1                       | 2             | 2 | 2  | 3  | 2  | -  | -   | 40x85x120  |  |                                     |
| 0642 171 845 707 |           | 40 | 500  | 2 | 1                       | 2             | 2 | 3  | 3  | 1  | 2  | -   | 40x85x120  |  |                                     |
| 0642 171 845 809 |           | 40 | 630  | 4 | 4                       | 4             | 3 | 3  | 2  | 2  | 2  | 1   | 40x85x120  |  |                                     |
| 0642 171 845 900 |           | 40 | 800  | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 2   | 40x85x120  |  |                                     |
| 0642 171 846 005 |           | 40 | 900  | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 3   | 40x85x120  |  |                                     |
| 0642 171 846 107 |           | 40 | 1000 | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 4   | 40x85x120  |  |                                     |
| 0642 171 846 209 |           | 50 | 400  | 2 | 1                       | 2             | 2 | 2  | 3  | 2  | -  | -   | 50x85x120  |  |                                     |
| 0642 171 846 300 |           | 50 | 500  | 2 | 1                       | 2             | 2 | 3  | 3  | 1  | 2  | -   | 50x85x120  |  |                                     |
| 0642 171 846 402 |           | 50 | 630  | 4 | 4                       | 4             | 3 | 3  | 2  | 2  | 2  | 1   | 50x85x120  |  |                                     |
| 0642 171 846 504 |           | 50 | 800  | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 2   | 50x85x120  |  |                                     |
| 0642 171 846 606 |           | 50 | 900  | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 3   | 50x85x120  |  |                                     |
| 0642 171 846 708 |           | 50 | 1000 | 4 | 4                       | 4             | 3 | 1  | 2  | 3  | 3  | 4   | 50x85x120  |  |                                     |
| 0642 171 847 006 |           | 63 | 630  | 4 | 4                       | 4             | 3 | 1  | 1  | 2  | 2  | 1   | 63x110x140 |  |                                     |
| 0642 171 847 108 |           | 63 | 800  | 4 | 4                       | 4             | 3 | 2  | 1  | 2  | 3  | 2   | 63x110x140 |  |                                     |
| 0642 171 847 200 |           | 63 | 900  | 4 | 4                       | 4             | 3 | 2  | 1  | 2  | 3  | 3   | 63x110x140 |  |                                     |
| 0642 171 847 301 |           | 63 | 1000 | 4 | 4                       | 4             | 3 | 2  | 1  | 2  | 3  | 4   | 63x110x140 |  |                                     |

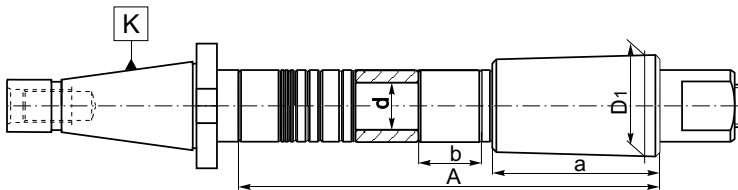
Typical order/Sposób zamawiania: 0642 171 840 702 lub 7184-40-22-315

# Type 7186

# DIN 2080

## MILLING MACHINE ARBORS

## TRZPIENIE FREZARSKIE DŁUGIE



| Code No / Kod Nr                                                         | K<br>7:24 | d  | A    | 1 | 2 | 3 | 6 | 10 | 20 | 30 | 60 | 100 | Bushing<br>Tuleja stożkowa<br>dxD1xa |
|--------------------------------------------------------------------------|-----------|----|------|---|---|---|---|----|----|----|----|-----|--------------------------------------|
| Pierścienie * b rings<br>Liczba szt na 1 trzpień * Number of pcs 1 arbor |           |    |      |   |   |   |   |    |    |    |    |     |                                      |
| 0642 171 860 006                                                         | 40        | 22 | 200  | 1 | 3 | 3 | 1 | 2  | 1  | 2  | -  | -   | 22x47x80                             |
| 0642 171 860 108                                                         |           | 22 | 250  | 1 | 3 | 3 | 1 | 1  | 1  | 2  | 1  | -   | 22x47x80                             |
| 0642 171 860 200                                                         |           | 22 | 315  | 1 | 4 | 2 | 2 | 2  | 2  | 3  | 1  | -   | 22x47x80                             |
| 0642 171 860 301                                                         |           | 22 | 400  | 1 | 3 | 3 | 1 | 2  | 2  | 2  | 3  | -   | 22x47x80                             |
| 0642 171 860 403                                                         |           | 22 | 500  | 1 | 3 | 3 | 1 | 3  | 2  | 3  | 4  | -   | 22x47x80                             |
| 0642 171 860 505                                                         |           | 27 | 250  | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | 27x47x80                             |
| 0642 171 860 607                                                         |           | 27 | 315  | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | 27x47x80                             |
| 0642 171 860 709                                                         |           | 27 | 400  | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | 27x47x80                             |
| 0642 171 860 800                                                         |           | 27 | 500  | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | 27x47x80                             |
| 0642 171 860 902                                                         |           | 27 | 630  | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | 27x47x80                             |
| 0642 171 861 007                                                         |           | 32 | 250  | 1 | 3 | 3 | 1 | 2  | 2  | 1  | 1  | -   | 32x47x80                             |
| 0642 171 861 109                                                         |           | 32 | 315  | 2 | 2 | 3 | 2 | 1  | 1  | 2  | 2  | -   | 32x47x80                             |
| 0642 171 861 200                                                         |           | 32 | 400  | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 1   | 32x47x80                             |
| 0642 171 861 302                                                         |           | 32 | 500  | 2 | 1 | 2 | 2 | 2  | 3  | 2  | 1  | 2   | 32x47x80                             |
| 0642 171 861 404                                                         |           | 32 | 630  | 2 | 3 | 4 | 2 | 2  | 3  | 2  | 3  | 2   | 32x47x80                             |
|                                                                          |           |    |      |   |   |   |   |    |    |    |    |     |                                      |
| 0642 171 863 009                                                         | 50        | 22 | 200  | 1 | 3 | 1 | 2 | 1  | 2  | 1  | -  | -   | 22x70x100                            |
| 0642 171 863 100                                                         |           | 22 | 250  | 1 | 3 | 1 | 2 | 1  | 3  | 2  | -  | -   | 22x70x100                            |
| 0642 171 863 202                                                         |           | 22 | 315  | 1 | 4 | 2 | 2 | 1  | 3  | 2  | 1  | -   | 22x70x100                            |
| 0642 171 863 304                                                         |           | 22 | 400  | 1 | 3 | 1 | 2 | 1  | 3  | 1  | 3  | -   | 22x70x100                            |
| 0642 171 863 406                                                         |           | 22 | 500  | 2 | 3 | 4 | 2 | 4  | 3  | 3  | 3  | -   | 22x70x100                            |
| 0642 171 863 508                                                         |           | 22 | 630  | 2 | 3 | 4 | 2 | 4  | 2  | 4  | 5  | -   | 22x70x100                            |
| 0642 171 863 600                                                         |           | 27 | 315  | 2 | 2 | 3 | 2 | 2  | 1  | 1  | 2  | -   | 27x70x100                            |
| 0642 171 863 701                                                         |           | 27 | 400  | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 2  | -   | 27x70x100                            |
| 0642 171 863 803                                                         |           | 27 | 500  | 2 | 1 | 2 | 2 | 3  | 4  | 3  | 3  | -   | 27x70x100                            |
| 0642 171 863 905                                                         |           | 27 | 630  | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 3  | 2   | 27x70x100                            |
| 0642 171 864 000                                                         |           | 27 | 800  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 2   | 27x70x100                            |
| 0642 171 864 101                                                         |           | 32 | 315  | 2 | 2 | 3 | 2 | 2  | 1  | 1  | 2  | -   | 32x70x100                            |
| 0642 171 864 203                                                         |           | 32 | 400  | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 2  | -   | 32x70x100                            |
| 0642 171 864 305                                                         |           | 32 | 500  | 2 | 1 | 2 | 2 | 3  | 4  | 3  | 3  | -   | 32x70x100                            |
| 0642 171 864 407                                                         |           | 32 | 630  | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 3  | 2   | 32x70x100                            |
| 0642 171 864 509                                                         |           | 32 | 800  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 2   | 32x70x100                            |
| 0642 171 864 600                                                         |           | 32 | 900  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 3   | 32x70x100                            |
| 0642 171 864 702                                                         |           | 32 | 1000 | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 4   | 32x70x100                            |
| 0642 171 864 804                                                         |           | 40 | 400  | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 2  | -   | 40x70x100                            |
| 0642 171 864 906                                                         |           | 40 | 500  | 2 | 1 | 2 | 2 | 3  | 4  | 3  | 3  | -   | 40x70x100                            |
| 0642 171 865 000                                                         |           | 40 | 630  | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 3  | 2   | 40x70x100                            |
| 0642 171 865 102                                                         |           | 40 | 800  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 2   | 40x70x100                            |
| 0642 171 865 204                                                         |           | 40 | 900  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 3   | 40x70x100                            |
| 0642 171 865 306                                                         |           | 40 | 1000 | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 4   | 40x70x100                            |
| 0642 171 865 408                                                         |           | 50 | 400  | 2 | 1 | 2 | 2 | 4  | 3  | 2  | 2  | -   | 50x86x100                            |
| 0642 171 865 500                                                         |           | 50 | 500  | 2 | 1 | 2 | 2 | 3  | 4  | 3  | 3  | -   | 50x86x100                            |
| 0642 171 865 601                                                         |           | 50 | 630  | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 3  | 2   | 50x86x100                            |
| 0642 171 865 703                                                         |           | 50 | 800  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 2   | 50x86x100                            |
| 0642 171 865 805                                                         |           | 50 | 900  | 2 | 1 | 2 | 2 | 2  | 3  | 3  | 5  | 3   | 50x86x100                            |
| 0642 171 865 907                                                         |           | 50 | 1000 | 2 | 1 | 2 | 2 | 2  | 3  | 3  | 5  | 4   | 50x86x100                            |
| 0642 171 866 205                                                         |           | 60 | 630  | 2 | 3 | 4 | 2 | 2  | 2  | 2  | 3  | 2   | 63x86x100                            |
| 0642 171 866 307                                                         |           | 60 | 800  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 2   | 63x86x100                            |
| 0642 171 866 409                                                         |           | 60 | 900  | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 3   | 63x86x100                            |
| 0642 171 866 500                                                         |           | 60 | 1000 | 2 | 1 | 2 | 2 | 3  | 3  | 3  | 5  | 4   | 63x86x100                            |

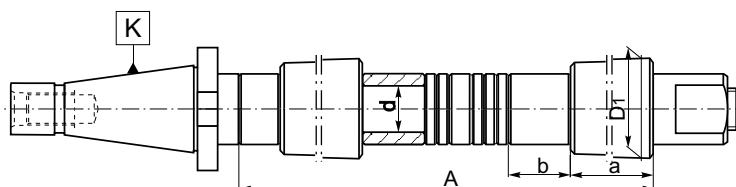
Typical order/Sposób zamawiania: 0642 171 861 200 lub 7186-40-32-400

# Type 7188

DIN 2080

MILLING MACHINE ARBORS

TRZPIENIE FREZARSKIE DŁUGIE



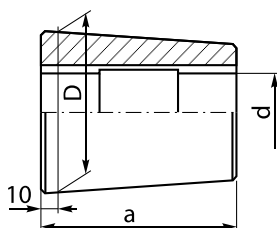
| Code No / Kod Nr | K<br>7:24 | d  | A    | 1 | Pierścienie * b rings        |   |   |    |    |    |    |     | Bushing<br>Tuleja stożkowa<br>dxD1xa |
|------------------|-----------|----|------|---|------------------------------|---|---|----|----|----|----|-----|--------------------------------------|
|                  |           |    |      |   | 2<br>Liczba szt na 1 trzpień | 3 | 6 | 10 | 20 | 30 | 60 | 100 |                                      |
| 0642 171 880 002 | 40        | 22 | 315  | 2 | 2                            | 1 | 3 | 1  | 3  | 2  | -  | -   | 22x47x80                             |
| 0642 171 880 104 |           | 22 | 400  | 2 | 1                            | 2 | 2 | 2  | 4  | 2  | 1  | -   | 22x47x80                             |
| 0642 171 880 206 |           | 22 | 500  | 2 | 1                            | 2 | 2 | 2  | 3  | 2  | 3  | -   | 22x47x80                             |
| 0642 171 880 308 |           | 27 | 315  | 2 | 2                            | 1 | 3 | 3  | 2  | 2  | -  | -   | 22x47x80                             |
| 0642 171 880 400 |           | 27 | 400  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 1  | -   | 22x47x80                             |
| 0642 171 880 501 |           | 27 | 500  | 2 | 3                            | 2 | 3 | 4  | 3  | 3  | 2  | -   | 22x47x80                             |
| 0642 171 880 603 |           | 27 | 630  | 4 | 4                            | 4 | 3 | 2  | 2  | 3  | 3  | 1   | 22x47x80                             |
| 0642 171 880 705 |           | 32 | 315  | 2 | 2                            | 1 | 3 | 3  | 2  | 2  | -  | -   | 32x47x80                             |
| 0642 171 880 807 |           | 32 | 400  | 2 | 1                            | 2 | 2 | 4  | 3  | 3  | 2  | -   | 32x47x80                             |
| 0642 171 880 909 |           | 32 | 500  | 2 | 3                            | 2 | 3 | 4  | 3  | 3  | 2  | -   | 32x47x80                             |
| 0642 171 881 003 |           | 32 | 630  | 4 | 4                            | 4 | 3 | 2  | 2  | 3  | 3  | 1   | 32x47x80                             |
|                  |           |    |      |   |                              |   |   |    |    |    |    |     |                                      |
| 0642 171 882 208 | 50        | 22 | 315  | 2 | 2                            | 3 | 2 | 2  | 2  | 1  | -  | -   | 22x70x100                            |
| 0642 171 882 300 |           | 22 | 400  | 2 | 1                            | 2 | 2 | 3  | 3  | 3  | -  | -   | 22x70x100                            |
| 0642 171 882 401 |           | 22 | 500  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 2  | -   | 22x70x100                            |
| 0642 171 882 503 |           | 22 | 630  | 2 | 1                            | 2 | 2 | 4  | 2  | 3  | 4  | -   | 22x70x100                            |
| 0642 171 882 605 |           | 27 | 315  | 2 | 2                            | 3 | 2 | 2  | 2  | 1  | -  | -   | 22x70x100                            |
| 0642 171 882 707 |           | 27 | 400  | 2 | 1                            | 2 | 2 | 3  | 3  | 3  | -  | -   | 22x70x100                            |
| 0642 171 882 809 |           | 27 | 500  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 2  | -   | 22x70x100                            |
| 0642 171 882 900 |           | 27 | 630  | 4 | 4                            | 4 | 3 | 4  | 2  | 3  | 2  | 1   | 22x70x100                            |
| 0642 171 883 005 |           | 27 | 800  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 2   | 22x70x100                            |
| 0642 171 883 107 |           | 32 | 315  | 2 | 2                            | 3 | 2 | 2  | 2  | 1  | -  | -   | 32x70x100                            |
| 0642 171 883 209 |           | 32 | 400  | 2 | 1                            | 2 | 2 | 3  | 3  | 3  | -  | -   | 32x70x100                            |
| 0642 171 883 300 |           | 32 | 500  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 2  | -   | 32x70x100                            |
| 0642 171 883 402 |           | 32 | 630  | 4 | 4                            | 4 | 3 | 4  | 2  | 3  | 2  | 1   | 32x70x100                            |
| 0642 171 883 504 |           | 32 | 800  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 2   | 32x70x100                            |
| 0642 171 883 606 |           | 32 | 900  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 3   | 32x70x100                            |
| 0642 171 883 708 |           | 32 | 1000 | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 4   | 32x70x100                            |
| 0642 171 883 800 |           | 40 | 400  | 2 | 1                            | 2 | 2 | 3  | 3  | 3  | -  | -   | 40x70x100                            |
| 0642 171 883 901 |           | 40 | 500  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 2  | -   | 40x70x100                            |
| 0642 171 884 006 |           | 40 | 630  | 4 | 4                            | 4 | 3 | 4  | 2  | 3  | 2  | 1   | 40x70x100                            |
| 0642 171 884 108 |           | 40 | 800  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 2   | 40x70x100                            |
| 0642 171 884 200 |           | 40 | 900  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 3   | 40x70x100                            |
| 0642 171 884 301 |           | 40 | 1000 | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 4   | 40x70x100                            |
| 0642 171 884 403 |           | 50 | 400  | 2 | 1                            | 2 | 2 | 3  | 3  | 3  | -  | -   | 50x86x100                            |
| 0642 171 884 505 |           | 50 | 500  | 2 | 1                            | 2 | 2 | 4  | 3  | 2  | 2  | -   | 50x86x100                            |
| 0642 171 884 607 |           | 50 | 630  | 4 | 4                            | 4 | 3 | 4  | 2  | 3  | 2  | 1   | 50x86x100                            |
| 0642 171 884 709 |           | 50 | 800  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 2   | 50x86x100                            |
| 0642 171 884 800 |           | 50 | 900  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 3   | 50x86x100                            |
| 0642 171 884 902 |           | 50 | 1000 | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 4   | 50x86x100                            |
| 0642 171 885 200 |           | 60 | 630  | 4 | 4                            | 4 | 3 | 4  | 2  | 3  | 2  | 1   | 60x86x100                            |
| 0642 171 885 302 |           | 60 | 800  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 2   | 60x86x100                            |
| 0642 171 885 404 |           | 60 | 900  | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 3   | 60x86x100                            |
| 0642 171 885 506 |           | 60 | 1000 | 4 | 4                            | 4 | 3 | 2  | 2  | 4  | 3  | 4   | 60x86x100                            |

Typical order/Sposób zamawiania: 0642 171 885 506 lub 7188-50-60-1000



## Type 7272

**ARBOR RUNNING BUSHINGS**  
for milling machine arbors  
**TULEJE STOŻKOWE**  
do trzpieni frezarskich

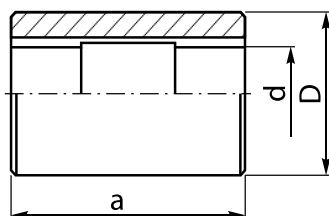


| Code No / Kod Nr | d  | D  | a   |
|------------------|----|----|-----|
| 0642 172 720 501 | 16 | 47 | 80  |
| 0642 172 720 603 | 22 | 47 | 80  |
| 0642 172 721 604 |    | 70 | 100 |
| 0642 172 720 705 | 27 | 47 | 80  |
| 0642 172 721 706 |    | 70 | 100 |
| 0642 172 720 807 | 32 | 47 | 80  |
| 0642 172 721 808 | 32 | 70 | 100 |
| 0642 172 721 900 | 40 | 70 | 100 |
| 0642 172 722 900 |    | 86 | 100 |
| 0642 172 722 004 | 50 | 70 | 100 |
| 0642 172 723 005 |    | 86 | 100 |
| 0642 172 723 107 | 60 | 86 | 100 |

Typical order/Sposób zamawiania: 0642 172 720 705 lub 7272-27x47x80

## Type 7275

**ARBOR RUNNING BUSHINGS**  
for milling machine arbors  
**TULEJE WALCOWE**  
do trzpieni frezarskich



| Code No / Kod Nr | d   | D   | a   |
|------------------|-----|-----|-----|
| 0642 172 730 306 | 16  | 42  | 60  |
| 0642 172 730 500 |     | 48  | 70  |
| 0642 172 730 703 |     | 56  | 80  |
| 0642 172 731 205 | 22  | 42  | 60  |
| 0642 172 731 409 |     | 48  | 70  |
| 0642 172 731 602 |     | 56  | 80  |
| 0642 172 731 704 |     | 70  | 100 |
| 0642 172 732 206 | 27  | 42  | 60  |
| 0642 172 732 400 |     | 48  | 70  |
| 0642 172 732 603 |     | 56  | 80  |
| 0642 172 732 705 |     | 70  | 100 |
| 0642 172 732 909 |     | 85  | 120 |
| 0642 172 733 309 | 32  | 48  | 70  |
| 0642 172 733 502 |     | 56  | 80  |
| 0642 172 733 604 | 32  | 70  | 100 |
| 0642 172 733 808 |     | 85  | 120 |
| 0642 172 734 401 | 40  | 56  | 80  |
| 0642 172 734 503 |     | 70  | 100 |
| 0642 172 734 707 |     | 85  | 120 |
| 0642 172 735 300 | 50  | 70  | 100 |
| 0642 172 735 504 |     | 85  | 120 |
| 0642 172 735 606 |     | 110 | 140 |
| 0642 172 736 301 | 60  | 110 | 140 |
| 0642 172 736 607 | 80  | 110 | 140 |
| 0642 172 737 404 | 100 | 140 | 160 |

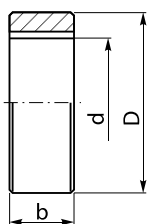
Typical order/Sposób zamawiania: 0642 172 720 705 lub 7272-27x47x80

## Type 7285

ARBOR SOLID SPACERS  
for milling machine arbors

PIERŚCIEŃ

do trzpieni frezarskich



| Code No / Kod Nr | d  | D  | b   |
|------------------|----|----|-----|
| 0642 172 810 103 | 16 | 26 | 1   |
| 0642 172 810 205 |    | 27 | 2   |
| 0642 172 810 307 |    | 27 | 3   |
| 0642 172 810 409 |    | 27 | 6   |
| 0642 172 810 500 |    | 27 | 10  |
| 0642 172 810 602 |    | 27 | 20  |
| 0642 172 810 704 |    | 27 | 30  |
|                  |    |    |     |
| 0642 172 810 806 | 22 | 33 | 1   |
| 0642 172 810 908 |    | 34 | 2   |
| 0642 172 811 002 |    | 34 | 3   |
| 0642 172 811 104 |    | 34 | 6   |
| 0642 172 811 206 |    | 34 | 10  |
| 0642 172 811 308 |    | 34 | 20  |
| 0642 172 811 400 |    | 34 | 30  |
| 0642 172 811 501 |    | 34 | 60  |
|                  |    |    |     |
| 0642 172 811 603 | 27 | 40 | 1   |
| 0642 172 811 705 |    | 41 | 2   |
| 0642 172 811 807 |    | 41 | 3   |
| 0642 172 811 909 |    | 41 | 6   |
| 0642 172 812 003 |    | 41 | 10  |
| 0642 172 812 105 |    | 41 | 20  |
| 0642 172 812 207 |    | 41 | 30  |
| 0642 172 812 309 |    | 41 | 60  |
| 0642 172 812 400 |    | 41 | 100 |
|                  |    |    |     |
| 0642 172 812 502 | 32 | 46 | 1   |
| 0642 172 812 604 |    | 47 | 2   |
| 0642 172 812 706 |    | 47 | 3   |
| 0642 172 812 808 |    | 47 | 6   |
| 0642 172 812 900 |    | 47 | 10  |
| 0642 172 813 004 |    | 47 | 20  |
| 0642 172 813 106 |    | 47 | 30  |
| 0642 172 813 208 |    | 47 | 60  |
| 0642 172 813 300 |    | 47 | 100 |
|                  |    |    |     |
| 0642 172 813 401 | 40 | 54 | 1   |
| 0642 172 813 503 |    | 55 | 2   |
| 0642 172 813 605 |    | 55 | 3   |
| 0642 172 813 707 |    | 55 | 6   |
| 0642 172 813 809 |    | 55 | 10  |
| 0642 172 813 900 |    | 55 | 20  |
| 0642 172 814 005 |    | 55 | 30  |
| 0642 172 814 107 |    | 55 | 60  |
| 0642 172 814 209 |    | 55 | 100 |
|                  |    |    |     |
| 0642 172 814 300 | 50 | 68 | 1   |
| 0642 172 814 402 |    | 69 | 2   |
| 0642 172 814 504 |    | 69 | 3   |
| 0642 172 814 606 |    | 69 | 6   |
| 0642 172 814 708 |    | 69 | 10  |
| 0642 172 814 800 |    | 69 | 20  |
| 0642 172 814 901 |    | 69 | 30  |
| 0642 172 815 006 |    | 69 | 60  |
| 0642 172 815 108 |    | 69 | 100 |
|                  |    |    |     |
| 0642 172 815 200 | 60 | 83 | 1   |
| 0642 172 815 301 |    | 84 | 2   |
| 0642 172 815 403 |    | 84 | 3   |
| 0642 172 815 505 |    | 84 | 6   |
| 0642 172 815 607 |    | 84 | 10  |
| 0642 172 815 709 |    | 84 | 20  |
| 0642 172 815 800 |    | 84 | 30  |
| 0642 172 815 902 |    | 84 | 60  |
| 0642 172 816 007 |    | 84 | 100 |

Typical order/Sposób zamawiania: 0642 172 812 105 lub 7285-27x20

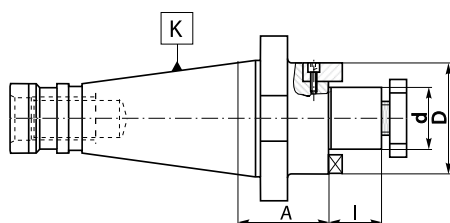
## Type 7311

### SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym DIN 138



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | d  | A   | I  | D  |          |          |
|------------------|-----------|----|-----|----|----|----------|----------|
| 0642 173 115 103 | 30        | 16 | 35  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 115 129 |           | 22 | 35  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 115 144 |           | 27 | 35  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 115 157 |           | 32 | 35  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 115 307 | 40        | 16 | 37  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 119 107 |           | 16 | 90  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 115 409 |           | 22 | 37  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 119 209 |           | 22 | 37  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 115 500 |           | 27 | 37  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 117 502 |           | 27 | 90  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 115 602 |           | 32 | 37  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 117 604 |           | 32 | 90  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 115 704 |           | 40 | 37  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 117 706 |           | 40 | 90  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 118 401 | 50        | 22 | 40  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 116 400 |           | 22 | 100 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 118 503 |           | 27 | 40  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 116 501 |           | 27 | 100 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 118 605 |           | 32 | 40  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 116 603 |           | 32 | 100 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 118 707 |           | 40 | 40  | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 116 705 |           | 40 | 100 | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 118 809 |           | 50 | 40  | 30 | 90 | U-0625/0 | U-5974/0 |
| 0642 173 116 807 |           | 50 | 100 | 30 | 90 | U-0625/0 | U-5974/0 |

Typical order/Sposób zamawiania: 0642 173 119 107 lub 7311-40-16-90

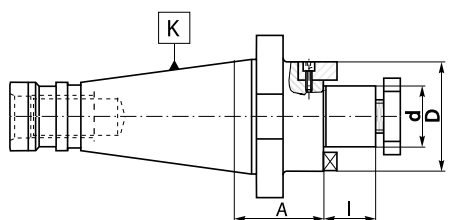
## Type 7311

### SHELL MILL ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE FREZARSKIE ZABIERAKOWE

do frezów z rowkiem zabierakowym DIN 138



## QUICK CHANGE

## DIN 2080

| Code No / Kod Nr | K<br>7:24 | d  | A  | I  | D  |          |          |
|------------------|-----------|----|----|----|----|----------|----------|
| 0642 173 115 220 | 30        | 16 | 45 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 115 233 |           | 22 | 45 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 115 246 |           | 27 | 45 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 115 259 |           | 32 | 45 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 115 806 | 40        | 16 | 50 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 115 819 |           | 16 | 90 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 173 115 821 |           | 22 | 50 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 115 834 |           | 22 | 90 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 173 115 847 |           | 27 | 50 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 115 850 |           | 27 | 90 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 173 115 862 |           | 32 | 50 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 115 875 |           | 32 | 90 | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 173 115 888 |           | 40 | 50 | 27 | 70 | U-0624/0 | S-2124/0 |
| 0642 173 115 890 |           | 40 | 90 | 27 | 70 | U-0624/0 | S-2124/0 |

Typical order/Sposób zamawiania: 0642 173 115 890 lub 7311-40-40-90 QC

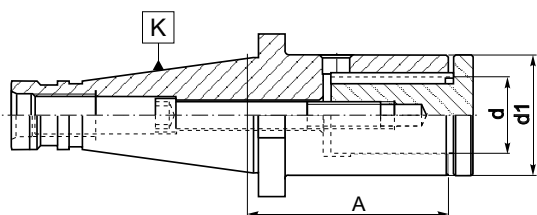
## Type 7314

### MILLING ARBORS

for staggered tooth side milling cutters

### TRZPIENIE FREZARSKIE

do frezów tarczowych



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |          |          |
|------------------|-----------|----|----|-----|----------|----------|----------|
| 0642 173 141 104 | 40        | 16 | 29 | 70  | U-6520/0 | U-6510/0 | U-6526/0 |
| 0642 173 141 603 |           | 16 | 29 | 100 | U-6520/0 | U-6511/0 | U-6527/0 |
| 0642 173 141 206 |           | 22 | 36 | 70  | U-6523/0 | U-6512/0 | U-6528/0 |
| 0642 173 141 705 |           | 22 | 36 | 100 | U-6523/0 | U-6513/0 | U-6529/0 |
| 0642 173 141 308 |           | 27 | 42 | 70  | U-6523/0 | U-6514/0 | U-6530/0 |
| 0642 173 141 807 |           | 27 | 42 | 100 | U-6523/0 | U-6515/0 | U-6531/0 |
| 0642 173 141 400 |           | 32 | 50 | 70  | U-6523/0 | U-6516/0 | U-6532/0 |
| 0642 173 141 909 |           | 32 | 50 | 100 | U-6523/0 | U-6517/0 | U-6533/0 |
| 0642 173 141 501 |           | 40 | 58 | 70  | U-6523/0 | U-6518/0 | U-6534/0 |
| 0642 173 142 003 |           | 40 | 58 | 100 | U-6523/0 | U-6519/0 | U-6535/0 |
| 0642 173 142 105 | 50        | 27 | 42 | 75  | U-6524/0 | U-6514/0 | U-6530/0 |
| 0642 173 142 400 |           | 27 | 42 | 105 | U-6524/0 | U-6515/0 | U-6531/0 |
| 0642 173 142 207 |           | 32 | 50 | 75  | U-6524/0 | U-6516/0 | U-6532/0 |
| 0642 173 142 502 |           | 32 | 50 | 105 | U-6524/0 | U-6517/0 | U-6533/0 |
| 0642 173 142 309 |           | 40 | 58 | 75  | U-6524/0 | U-6518/0 | U-6534/0 |
| 0642 173 142 604 |           | 40 | 58 | 105 | U-6524/0 | U-6519/0 | U-6535/0 |

Typical order/Sposób zamawiania: 0642 173 142 003 lub 7314-40-40-100

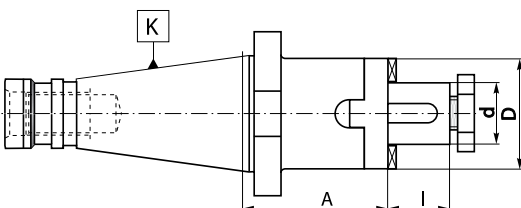
## Type 7332

### COMBINATION SHELL MILL ADAPTERS

for cutters with keyway or driving slot DIN 138

### TRZPIENIE FREZARSKIE UNIWERSALNE

do frezów z rowkiem wpustowym lub rowkiem zabierakowym DIN 138



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | d  | A  | I  | D  |          |          |          |
|------------------|-----------|----|----|----|----|----------|----------|----------|
| 0642 173 320 203 | 30        | 16 | 35 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 300 207 |           | 16 | 50 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 350 208 |           | 16 | 73 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 320 305 |           | 22 | 35 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 300 309 |           | 22 | 50 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 350 300 |           | 22 | 73 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 320 407 |           | 27 | 35 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 300 400 |           | 27 | 50 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 350 401 |           | 27 | 73 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 305 507 |           | 32 | 50 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 321 204 | 40        | 16 | 37 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 301 208 |           | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 351 209 |           | 16 | 75 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 321 306 |           | 22 | 37 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 301 300 |           | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 351 300 |           | 22 | 75 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 321 408 |           | 27 | 37 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 301 401 |           | 27 | 52 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 351 402 |           | 27 | 75 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 321 500 |           | 32 | 41 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 301 503 |           | 32 | 52 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 351 504 |           | 32 | 75 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 321 601 |           | 40 | 45 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 301 605 |           | 40 | 52 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 351 606 |           | 40 | 75 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 303 200 | 50        | 16 | 55 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 353 200 |           | 16 | 78 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 303 301 |           | 22 | 55 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 353 302 |           | 22 | 78 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 303 403 |           | 27 | 55 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 353 404 |           | 27 | 78 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 303 505 |           | 32 | 55 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 353 506 |           | 32 | 78 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 303 607 |           | 40 | 55 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 353 608 |           | 40 | 78 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 173 303 709 |           | 50 | 55 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |
| 0642 173 353 700 |           | 50 | 78 | 30 | 90 | U-0625/0 | U-1369/0 | U-1360/0 |

Typical order/Sposób zamawiania: 0642 173 303 709 lub 7332-50-50-55

## Type 7332

QUICK CHANGE

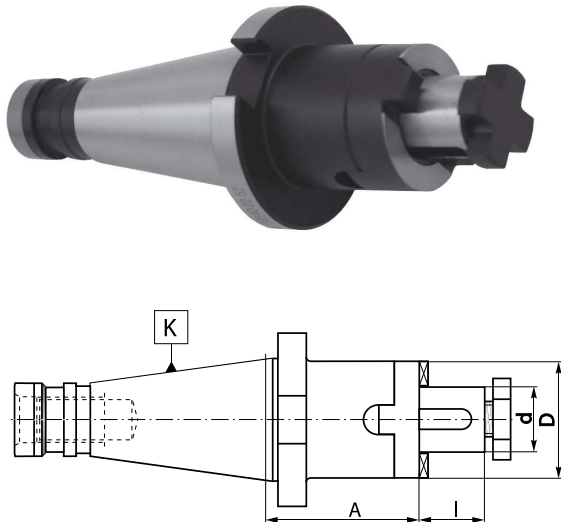
DIN 2080

### COMBINATION SHELL MILL ADAPTERS

for cutters with keyway or driving slot DIN 138

### TRZPIENIE FREZARSKIE UNIWERSALNE

do frezów z rowkiem wpustowym lub rowkiem zabierakowym DIN 138



| Code No / Kod Nr | K<br>7:24 | d  | A  | I  | D  |          |          |          |
|------------------|-----------|----|----|----|----|----------|----------|----------|
| 0642 173 309 220 | 30        | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 309 233 |           | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 309 246 |           | 27 | 54 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 309 259 |           | 32 | 58 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 309 322 | 40        | 16 | 52 | 17 | 32 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 173 309 335 |           | 22 | 52 | 19 | 40 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 173 309 348 |           | 27 | 54 | 21 | 48 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 173 309 350 |           | 32 | 58 | 24 | 58 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 173 309 363 |           | 40 | 60 | 27 | 70 | U-0624/0 | U-1368/0 | U-1359/0 |

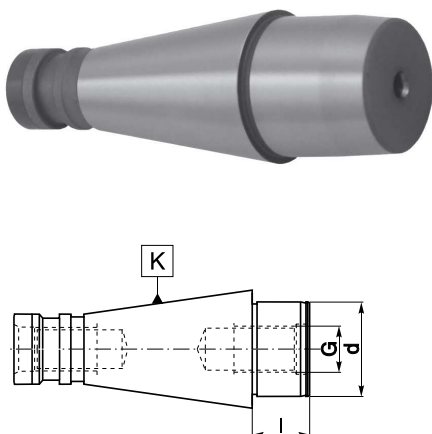
Typical order/Sposób zamawiania: 0642 173 309 350 lub 7332-40-32 QC

## Type 7350

DIN 2080

### CENTRING PLUG ARBORS

TRZPIEŃ FREZARSKI ŚRODKUJĄCY



| Code No / Kod Nr | K<br>7:24 | d  | I  | G   |
|------------------|-----------|----|----|-----|
| 0642 173 506 105 | 40        | 40 | 30 | M20 |
| 0642 173 501 508 |           | 40 | 40 | --- |
| 0642 173 506 207 |           | 50 | 29 | M24 |
| 0642 173 507 106 | 50        | 40 | 30 | M20 |
| 0642 173 507 208 |           | 50 | 30 | M24 |
| 0642 173 503 601 |           | 50 | 40 | --- |
| 0642 173 507 300 |           | 60 | 40 | M30 |
| 0642 173 503 703 |           | 60 | 48 | --- |
| 0642 173 508 300 | 60        | 60 | 40 | --- |
| 0642 173 505 705 |           | 60 | 48 | --- |

Typical order/Sposób zamawiania: 0642 173 505 705 lub 7350-60-60-48

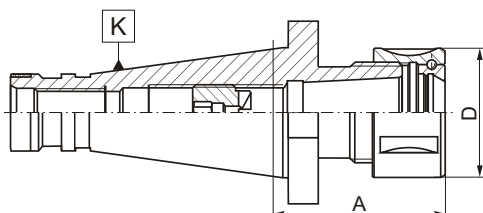
## Type 7605

COLLET CHUCKS (DIN 6388-B)

for cutters with cylindrical shank

OPRAWKI ZACISKOWE (do tulejek DIN 6388-B)

do narzędzi z chwytem walcowym



## DIN 2080

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A  | Capacity Zakres | D  |         |              |
|------------------|--------|----------------|----|-----------------|----|---------|--------------|
| 0642 176 050 042 | 30     | 16             | 60 | 5-16            | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 050 068 |        | 25             | 70 | 6-25            | 60 | 9835-25 | M18x1,5x19LH |
| 0642 176 050 205 | 40     | 16             | 50 | 5-16            | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 051 206 |        | 25             | 60 | 6-25            | 60 | 9835-25 | M28x1,5x10LH |
| 0642 176 051 104 |        | 25             | 64 | 6-25            | 60 | 9835-25 | M28x1,5x10LH |
| 0642 176 051 400 |        | 32             | 80 | 10-32           | 72 | 9835-32 | M28x1,5x10LH |
| 0642 176 053 004 | 50     | 16             | 60 | 5-16            | 43 | 9835-16 | M18x1,5x19LH |
| 0642 176 053 106 |        | 25             | 60 | 6-25            | 60 | 9835-25 | M28x1,5x30LH |
| 0642 176 053 707 |        | 32             | 80 | 10-32           | 72 | 9835-32 | M35x1,5x12LH |

Typical order/Sposób zamawiania: 0642 176 053 707 lub 7605-50-32-80

Standard accessories:

Nut - page 151  
screw

Optional accessories:

Collets - page 136  
wrench - page 151

Wyposażenie podstawowe:

Nakrętka - str. 151  
wkret

Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 136  
klucz - str. 151

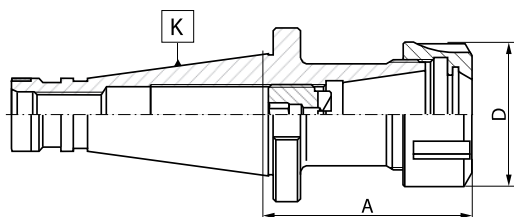
## Type 7616

COLLET CHUCKS ER

for tool with cylindrical shank

OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## DIN 2080

| Code No / Kod Nr | K 7:24 | Collet Tulejka | A   | Capacity Zakres | D  |         |              |
|------------------|--------|----------------|-----|-----------------|----|---------|--------------|
| 0642 176 160 417 | 30     | ER16           | 50  | 2-10            | 32 | 9833-16 | M10x11LH     |
| 0642 176 160 623 |        | ER32           | 50  | 2-20            | 50 | 9833-32 | M18x1,5x19LH |
| 0642 176 160 302 | 40     | ER25           | 60  | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 176 160 700 |        | ER32           | 60  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 163 600 |        | ER32           | 130 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 161 303 |        | ER40           | 60  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 161 802 | 50     | ER32           | 70  | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 162 905 |        | ER32           | 130 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 162 304 |        | ER40           | 70  | 2-26            | 63 | 9833-40 | M28x1,5x30LH |
| 0642 176 162 600 |        | ER40           | 130 | 2-26            | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 162 600 lub 7616-50-40-130

Standard accessories:

Nut - page 151  
screw

Optional accessories:

Collets - page 131  
wrench - page 151

Wyposażenie podstawowe:

Nakrętka - str. 151  
wkret

Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151



## Type 7616

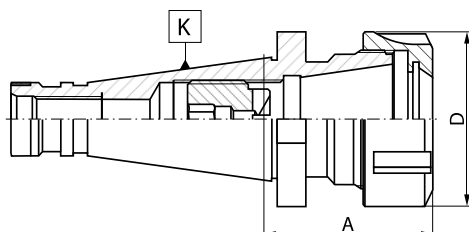
**QUICK CHANGE**
**DIN 2080**

### COLLET CHUCKS ER

for tool with cylindrical shank

**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A   | Capacity<br>Zakres | D  |         |              |
|------------------|-----------|-------------------|-----|--------------------|----|---------|--------------|
| 0642 176 168 618 | 30        | ER16              | 50  | 2-10               | 32 | 9833-16 | M10x11LH     |
| 0642 176 168 710 |           | ER32              | 50  | 2-20               | 50 | 9833-32 | M18x1,5x8LH  |
|                  |           |                   |     |                    |    |         |              |
| 0642 176 168 776 | 40        | ER16              | 100 | 2-10               | 32 | 9833-16 | M12x1,5x14LH |
| 0642 176 168 913 |           | ER32              | 60  | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 169 517 |           | ER32              | 130 | 2-20               | 50 | 9833-32 | M22x1,5x24LH |
| 0642 176 169 710 |           | ER40              | 60  | 2-26               | 63 | 9833-40 | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 176 169 710 lub 7616-40-40-60 QC

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7616-S

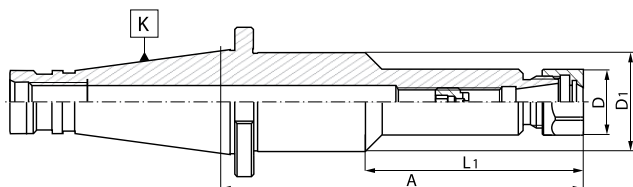
**DIN 2080**

### COLLET CHUCKS ER

for tool with cylindrical shank

**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A   | Capacity<br>Zakres | L1 | D  | D1 |          |              |
|------------------|-----------|-------------------|-----|--------------------|----|----|----|----------|--------------|
| 0642 176 164 128 | 40        | ER16              | 100 | 2-10               | -  | 28 | -  | 9833-16D | M12x1,5x14LH |
| 0642 176 164 220 |           | ER16              | 150 | 2-10               | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |
|                  |           |                   |     |                    |    |    |    |          |              |
| 0642 176 164 525 | 50        | ER16              | 100 | 2-10               | -  | 28 | -  | 9833-16D | M12x1,5x14LH |
| 0642 176 164 627 |           | ER16              | 150 | 2-10               | 85 | 28 | 40 | 9833-16D | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 176 164 627 lub 7616S-50-16-150 S

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreć

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7616

### COLLET CHUCKS ER - SET

for tool with cylindrical shank

### OPRAWKI ZACISKOWE ER - KOMPLET

do narzędzi z chwytem walcowym



## DIN 2080

| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A   | Capacity<br>Zakres | Full set<br>pieces<br>Ilość tulejek |
|------------------|-----------|-------------------|-----|--------------------|-------------------------------------|
| 0642 176 160 404 | 30        | ER16              | 50  | 2-10               | 8                                   |
| 0642 176 160 506 |           | ER32              | 50  | 2-20               | 18                                  |
| 0642 176 160 109 | 40        | ER25              | 60  | 2-16               | 14                                  |
| 0642 176 160 801 |           | ER32              | 60  | 2-20               | 18                                  |
| 0642 176 163 407 |           | ER32              | 130 | 2-20               | 18                                  |
| 0642 176 161 100 |           | ER40              | 60  | 2-26               | 24                                  |
| 0642 176 161 609 | 50        | ER32              | 70  | 2-20               | 18                                  |
| 0642 176 162 701 |           | ER32              | 130 | 2-20               | 18                                  |
| 0642 176 162 100 |           | ER40              | 70  | 2-26               | 24                                  |

## Type 7616-PL

| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka             | A  | Capacity<br>Zakres | Full set<br>pieces<br>Ilość tulejek |
|------------------|-----------|-------------------------------|----|--------------------|-------------------------------------|
| 0642 176 160 519 | 30        | ER32                          | 50 | 3-20               | 8                                   |
|                  |           | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                    |                                     |
| 0642 176 160 827 | 40        | ER32                          | 60 | 3-20               | 8                                   |
|                  |           | Tulejki Ø 4,5,6,8,10,12,16,20 |    |                    |                                     |
| 0642 176 161 611 | 50        | ER32                          | 70 | 3-20               | 8                                   |

## Type 7616-S

| Code No / Kod Nr | K<br>7:24 | Collet<br>Tulejka | A   | Capacity<br>Zakres | Full set<br>pieces<br>Ilość tulejek |
|------------------|-----------|-------------------|-----|--------------------|-------------------------------------|
| 0642 176 164 102 | 40        | ER16              | 100 | 2-10               | 8                                   |
| 0642 176 164 204 |           | ER16              | 150 | 2-10               | 8                                   |
| 0642 176 164 500 | 50        | ER16              | 100 | 2-10               | 8                                   |
| 0642 176 164 601 |           | ER16              | 150 | 2-10               | 8                                   |

Typical order/Sposób zamawiania: 0642 176 162 100 lub 7616-50-40-70

## Type 7620

## DIN 2080

### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B

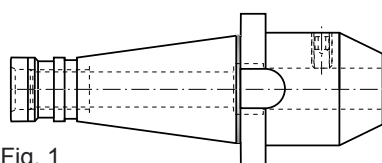


Fig. 1

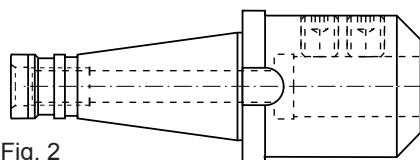


Fig. 2

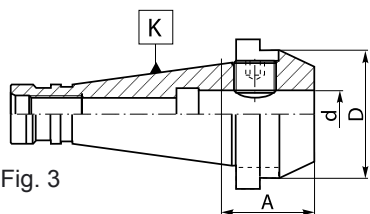


Fig. 3

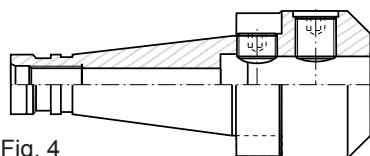


Fig. 4

| Code No / Kod Nr | K<br>7:24 | d  | A   | D  | Fig. |                   |
|------------------|-----------|----|-----|----|------|-------------------|
| 0642 176 210 105 | 30        | 6  | 40  | 25 | 1    | U-4131/0          |
| 0642 176 210 207 |           | 8  | 40  | 28 | 1    | U-4132/0          |
| 0642 176 210 309 |           | 10 | 40  | 35 | 1    | U-4133/0          |
| 0642 176 210 400 |           | 12 | 40  | 42 | 1    | U-4134/0          |
| 0642 176 210 502 |           | 16 | 50  | 48 | 1    | U-4135/0          |
| 0642 176 210 604 |           | 20 | 63  | 52 | 1    | U-4136/0          |
| 0642 176 210 706 |           | 25 | 68  | 63 | 2    | U-4137/0          |
| 0642 176 217 203 | 40        | 6  | 25  | 25 | 3    | U-4131/0          |
| 0642 176 211 106 |           | 6  | 50  | 25 | 1    | U-4131/0          |
| 0642 176 217 305 |           | 8  | 25  | 28 | 3    | U-4132/0          |
| 0642 176 211 208 |           | 8  | 50  | 28 | 1    | U-4132/0          |
| 0642 176 217 101 |           | 10 | 27  | 35 | 3    | U-4133/0          |
| 0642 176 211 300 |           | 10 | 50  | 35 | 1    | U-4133/0          |
| 0642 176 217 407 |           | 12 | 29  | 42 | 3    | U-4134/0          |
| 0642 176 211 401 |           | 12 | 50  | 42 | 1    | U-4134/0          |
| 0642 176 217 410 |           | 14 | 30  | 44 | 3    | U-4134/0          |
| 0642 176 217 422 |           | 14 | 50  | 44 | 1    | U-4134/0          |
| 0642 176 217 509 |           | 16 | 31  | 44 | 3    | U-5887/0          |
| 0642 176 211 503 |           | 16 | 63  | 48 | 1    | U-4135/0          |
| 0642 176 207 055 |           | 18 | 63  | 50 | 1    | U-4135/0          |
| 0642 176 207 103 |           | 20 | 35  | 52 | 3    | U-6756/0          |
| 0642 176 211 605 |           | 20 | 63  | 52 | 1    | U-4136/0          |
| 0642 176 207 307 |           | 25 | 60  | 65 | 4    | U-6756/0 U-4137/0 |
| 0642 176 211 707 |           | 25 | 80  | 63 | 2    | U-4137/0 U-4137/0 |
| 0642 176 207 500 |           | 32 | 70  | 72 | 2    | U-4138/0 U-4138/0 |
| 0642 176 211 809 |           | 32 | 80  | 72 | 2    | U-4138/0 U-4138/0 |
| 0642 176 207 602 |           | 32 | 100 | 72 | 2    | U-4138/0 U-4138/0 |
| 0642 176 213 108 | 50        | 6  | 63  | 25 | 1    | U-4131/0          |
| 0642 176 208 807 |           | 6  | 130 | 25 | 1    | U-4131/0          |
| 0642 176 213 200 |           | 8  | 63  | 28 | 1    | U-4132/0          |
| 0642 176 208 790 |           | 8  | 130 | 28 | 1    | U-4132/0          |
| 0642 176 213 301 |           | 10 | 63  | 35 | 1    | U-4133/0          |
| 0642 176 208 810 |           | 10 | 130 | 35 | 1    | U-4133/0          |
| 0642 176 213 403 |           | 12 | 63  | 42 | 1    | U-4134/0          |
| 0642 176 208 822 |           | 12 | 130 | 42 | 1    | U-4134/0          |
| 0642 176 208 002 |           | 14 | 63  | 44 | 1    | U-4135/0          |
| 0642 176 213 505 |           | 16 | 63  | 48 | 1    | U-4135/0          |
| 0642 176 208 835 |           | 16 | 130 | 48 | 1    | U-4135/0          |
| 0642 176 208 848 |           | 16 | 160 | 48 | 1    | U-4135/0          |
| 0642 176 208 850 |           | 16 | 200 | 48 | 1    | U-4135/0          |
| 0642 176 208 015 |           | 18 | 63  | 50 | 1    | U-4135/0          |
| 0642 176 208 104 |           | 20 | 36  | 52 | 3    | U-4136/0          |
| 0642 176 213 607 |           | 20 | 63  | 52 | 1    | U-4136/0          |
| 0642 176 208 863 |           | 20 | 130 | 52 | 1    | U-4136/0          |
| 0642 176 208 308 |           | 25 | 60  | 65 | 4    | U-4137/0 U-4137/0 |
| 0642 176 213 709 |           | 25 | 80  | 65 | 2    | U-4137/0 U-4137/0 |
| 0642 176 208 351 |           | 25 | 130 | 65 | 2    | U-4137/0 U-4137/0 |
| 0642 176 208 876 |           | 25 | 160 | 65 | 2    | U-4137/0 U-4137/0 |
| 0642 176 208 501 |           | 32 | 70  | 70 | 4    | U-4138/0 U-4138/0 |
| 0642 176 213 800 |           | 32 | 81  | 70 | 2    | U-4138/0 U-4138/0 |
| 0642 176 208 603 |           | 32 | 100 | 70 | 2    | U-4138/0 U-4138/0 |
| 0642 176 208 629 |           | 32 | 130 | 72 | 2    | U-4138/0 U-4138/0 |
| 0642 176 208 889 |           | 32 | 160 | 72 | 2    | U-4138/0 U-4138/0 |
| 0642 176 213 902 |           | 40 | 91  | 90 | 2    | U-4138/0 U-4138/0 |
| 0642 176 208 705 |           | 40 | 100 | 90 | 2    | U-4138/0 U-4138/0 |
| 0642 176 214 109 |           | 50 | 110 | 97 | 2    | U-4139/0 U-4139/0 |
| 0642 176 214 200 |           | 63 | 115 | 97 | 2    | U-4139/0 U-4139/0 |

Typical order/Sposób zamawiania: 0642 176 214 200 lub 7620-50-63-115

## Type 7620

QUICK CHANGE

DIN 2080

### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B



| Code No / Kod Nr | K<br>7:24 | d  | A  | D  | Fig. |                   |
|------------------|-----------|----|----|----|------|-------------------|
| 0642 176 218 204 | 30        | 6  | 50 | 25 | 1    | U-4131/0          |
| 0642 176 218 217 |           | 8  | 50 | 28 | 1    | U-4132/0          |
| 0642 176 218 220 |           | 10 | 50 | 35 | 1    | U-4133/0          |
| 0642 176 218 232 |           | 12 | 50 | 42 | 1    | U-4134/0          |
| 0642 176 218 245 |           | 16 | 63 | 48 | 1    | U-4135/0          |
| 0642 176 218 258 |           | 20 | 63 | 52 | 1    | U-4136/0          |
| 0642 176 218 319 | 40        | 6  | 50 | 25 | 1    | U-4131/0          |
| 0642 176 218 334 |           | 8  | 50 | 28 | 1    | U-4132/0          |
| 0642 176 218 350 |           | 10 | 50 | 35 | 1    | U-4133/0          |
| 0642 176 218 375 |           | 12 | 50 | 42 | 1    | U-4134/0          |
| 0642 176 218 390 |           | 14 | 63 | 42 | 1    | U-4134/0          |
| 0642 176 218 410 |           | 16 | 63 | 48 | 1    | U-4135/0          |
| 0642 176 218 436 |           | 20 | 63 | 52 | 1    | U-4136/0          |
| 0642 176 218 500 |           | 25 | 85 | 63 | 2    | U-4137/0 U-4137/0 |
| 0642 176 218 566 |           | 32 | 90 | 72 | 2    | U-4138/0 U-4138/0 |

Typical order/Sposób zamawiania: 0642 176 218 566 lub 7620-40-32-90 QC

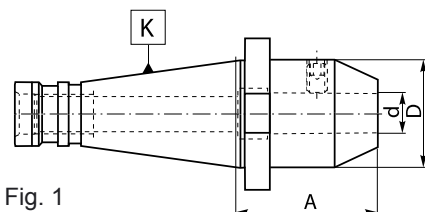


Fig. 1

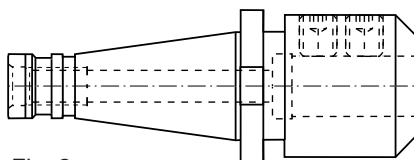


Fig. 2

## Type 7627

DIN 2080

### END MILL ADAPTERS TYPE WHISTLE-NOTCH

for tools with cylindrical shank and inclined flat DIN 1835-E

### OPRAWKI ZACISKOWE TYPU WHISTLE-NOTCH

do narzędzi z chwytem walcowym ze spłaszczeniem klinowym DIN 1835-E

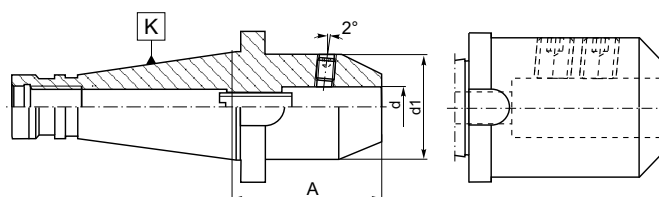


Fig. 1

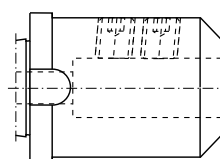


Fig. 2

| Code No / Kod Nr | K<br>7:24 | d  | d1 | A  | Fig. |          |                   |
|------------------|-----------|----|----|----|------|----------|-------------------|
| 0642 176 270 104 | 40        | 6  | 25 | 50 | 1    | U-4131/0 | U-1599/0          |
| 0642 176 270 206 |           | 8  | 28 | 50 | 1    | U-4132/0 | U-6317/0          |
| 0642 176 270 308 |           | 10 | 35 | 50 | 1    | U-4133/0 | U-0293/0          |
| 0642 176 270 400 |           | 12 | 42 | 50 | 1    | U-4134/0 | U-0757/0          |
| 0642 176 270 501 |           | 14 | 44 | 50 | 1    | U-4134/0 | U-6318/0          |
| 0642 176 270 603 |           | 16 | 48 | 63 | 1    | U-4135/0 | U-6318/0          |
| 0642 176 270 705 |           | 18 | 50 | 63 | 1    | U-4136/0 | U-6793/0          |
| 0642 176 270 807 |           | 20 | 52 | 63 | 1    | U-4136/0 | U-6793/0          |
| 0642 176 270 909 |           | 25 | 65 | 80 | 2    | U-4137/0 | U-4137/0 U-6794/0 |
| 0642 176 271 003 |           | 32 | 72 | 80 | 2    | U-4138/0 | U-4138/0 U-6794/0 |
| 0642 176 271 105 | 50        | 6  | 25 | 63 | 1    | U-4131/0 | U-1599/0          |
| 0642 176 271 207 |           | 8  | 28 | 63 | 1    | U-4132/0 | U-6317/0          |
| 0642 176 271 309 |           | 10 | 35 | 63 | 1    | U-4133/0 | U-0293/0          |
| 0642 176 271 400 |           | 12 | 42 | 63 | 1    | U-4134/0 | U-0757/0          |
| 0642 176 271 502 |           | 14 | 44 | 63 | 1    | U-4135/0 | U-6318/0          |
| 0642 176 271 604 |           | 16 | 48 | 63 | 1    | U-4135/0 | U-6318/0          |
| 0642 176 271 706 |           | 18 | 50 | 63 | 1    | U-4136/0 | U-6793/0          |
| 0642 176 271 808 |           | 20 | 52 | 63 | 1    | U-4136/0 | U-6793/0          |
| 0642 176 271 900 |           | 25 | 65 | 80 | 2    | U-4137/0 | U-4137/0 U-6794/0 |
| 0642 176 272 004 |           | 32 | 72 | 80 | 2    | U-4138/0 | U-4138/0 U-6794/0 |
| 0642 176 272 106 |           | 40 | 90 | 90 | 2    | U-5870/0 | U-5870/0 U-6794/0 |

Typical order/Sposób zamawiania: 0642 176 272 106 or 7627-50-40-90

## Type 7657

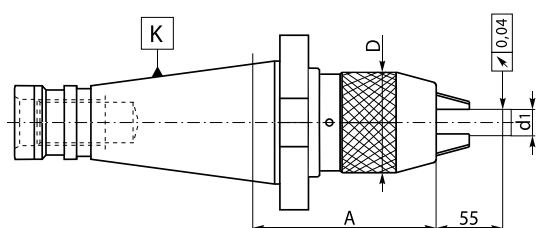
DIN 2080

### KEYLESS DRILL CHUCKS

with shank

### OPRAWKA

z uchwytem wiertarskim bezkluczykowym



| Code No / Kod Nr | K<br>7:24 | d1   | A  | D  |
|------------------|-----------|------|----|----|
| 0642 176 570 401 | 40        | 1-13 | 88 | 50 |
| 0642 176 570 442 |           | 3-16 | 99 | 57 |
|                  |           |      |    |    |
| 0642 176 570 503 | 50        | 1-13 | 85 | 50 |
| 0642 176 570 544 |           | 3-16 | 89 | 57 |

Typical order/Sposób zamawiania: 0642 176 570 544 or 7657-50-16-89

Standard accessories:  
wrench

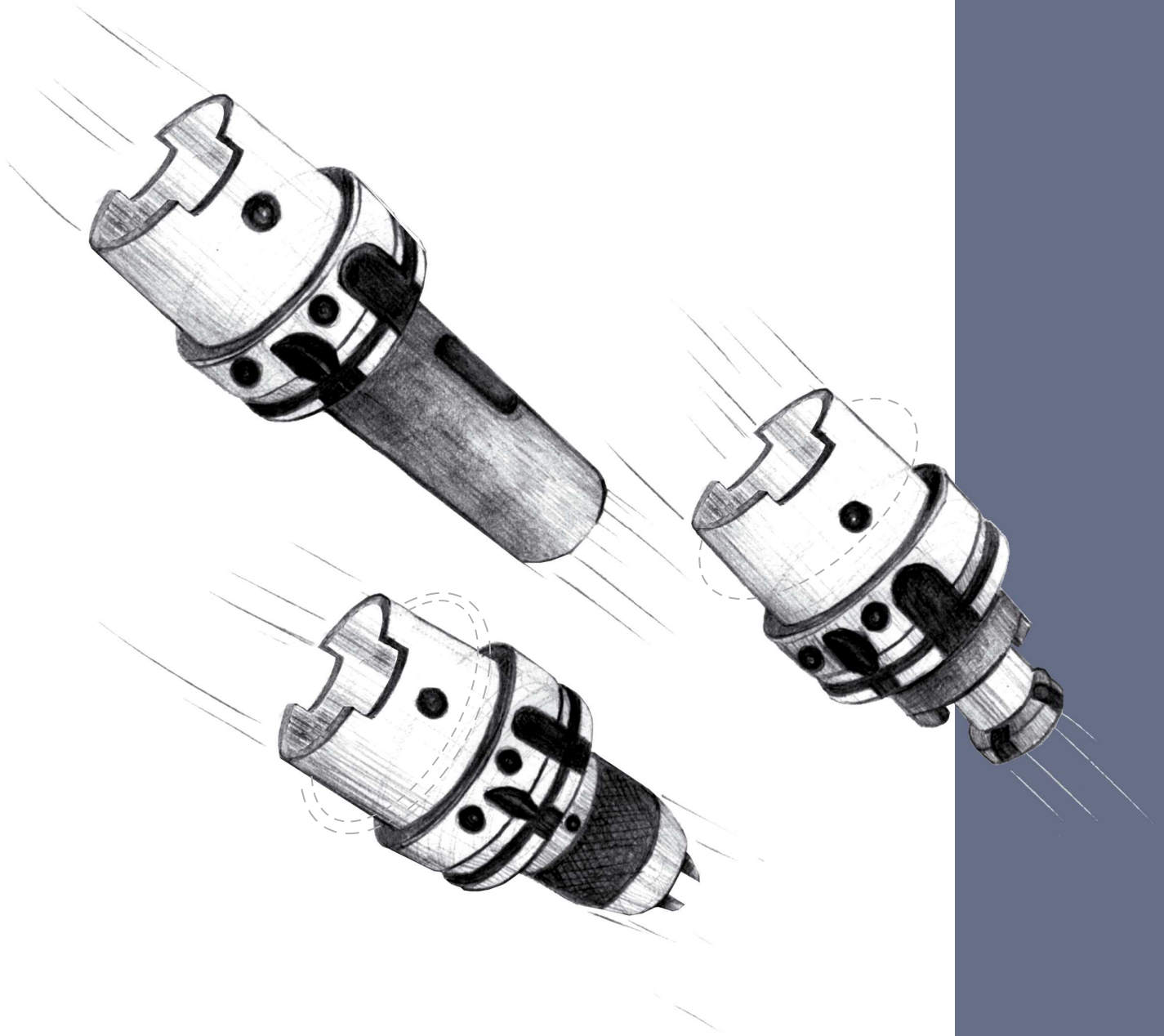
Wyposażenie podstawowe:  
klucz







DIN 69893-HSK



**BISON** BIAL

4

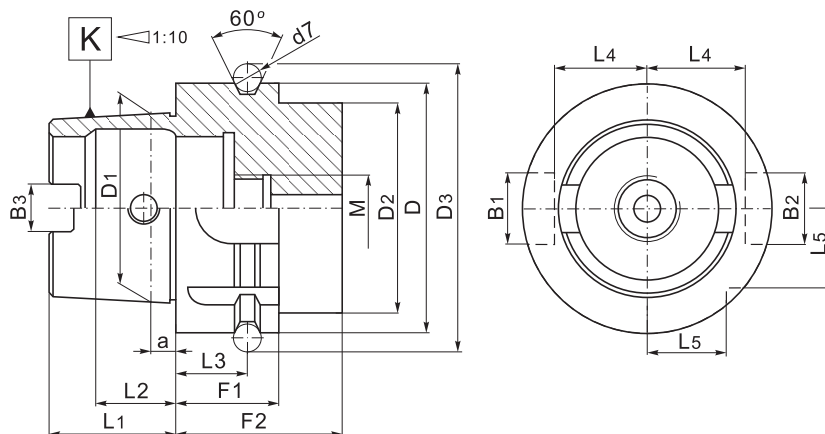
**DIN 69893-A**

**HSK-A SHANKS**

for automatic tool exchange

**CHWYT**

ze stożkiem HSK-A do wymiany automatycznej



| K<br>HSK-A | D  | D1 | D2max | D3   | B1 | B2 | B3    | a   | d7 |
|------------|----|----|-------|------|----|----|-------|-----|----|
| 63         | 63 | 48 | 53    | 72,3 | 18 | 16 | 12,54 | 6,3 | 7  |

| K<br>HSK-A | L1 | L2    | L3 | L4   | L5 | F1 | F2 | M     |
|------------|----|-------|----|------|----|----|----|-------|
| 63         | 32 | 18,13 | 18 | 26,5 | 20 | 26 | 42 | M18x1 |

**STANDARD FEATURES OF TOOLING**

- Manufactured with Chrome Manganese steel.
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT3.
- Balanced in grade G 6,3/15 000 rpm.  
(A fine balance is made on request.)

**CHARAKTERYSTYKA TECHNICZNA WYROBÓW**

- Materiał: stal stopowa chromowo-manganowa.
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka AT3.
- Wyważane w klasie G 6,3/15 000 obr/min  
(Inne parametry wyważenia na zamówienie).

## Type 5390

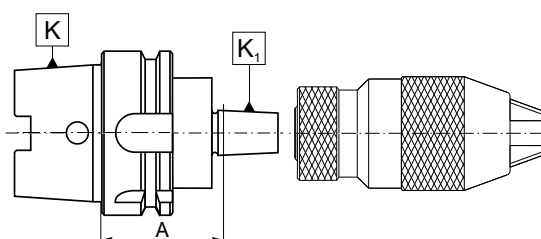
**DIN 69893-A**

### DRILL CHUCK ADAPTERS

for drill chucks taper DIN 238 or Jacobs taper

### TRZPIENIE

do uchwyty wiertarskich ze stożkiem DIN 238 lub Jacobsa



| Code No / Kod Nr | K<br>HSK-A | K1<br>DIN | A  |
|------------------|------------|-----------|----|
| 0642 153 908 207 | 63         | B12       | 45 |
| 0642 153 908 309 |            | B16       | 45 |
| 0642 153 908 400 |            | B18       | 45 |
|                  |            |           |    |
| 0642 153 907 206 |            | J1        | 45 |
| 0642 153 907 308 |            | J2        | 45 |
| 0642 153 907 400 |            | J3        | 45 |
| 0642 153 907 807 |            | J33       | 45 |
| 0642 153 907 501 |            | J4        | 45 |
| 0642 153 907 603 |            | J5        | 45 |

Typical order/Sposób zamawiania: 0642 153 907 705 lub 5390-63-J6-45

## Type 5391

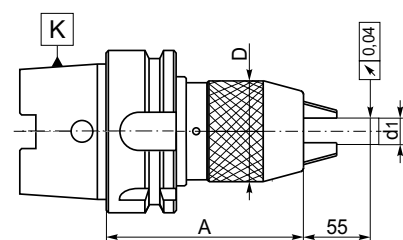
**DIN 69893-A**

### KEYLESS DRILL CHUCKS

with shank

### OPRAWKI

z uchwytem wiertarskim bezkluczykowym



| Code No / Kod Nr | K<br>HSK-A | d1   | A   | D  |
|------------------|------------|------|-----|----|
| 0642 153 917 204 | 63         | 1-13 | 150 | 50 |
| 0642 153 917 306 |            | 3-16 | 157 | 57 |

Typical order/Sposób zamawiania: 0642 153 917 204 lub 5391-63-13-150

Standard accessories:  
wrench

Wyposażenie podstawowe:  
klucz

## Type 7872

## DIN 69893-A

### MILLING ARBORS

for staggered tooth side milling cutters

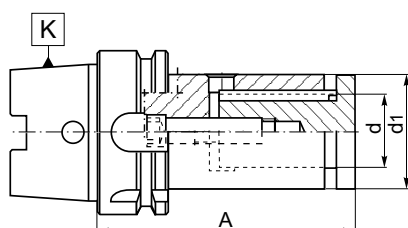
### TRZPIENIE FREZARSKIE

do frezów tarczowych



| Code No / Kod Nr | K<br>7:24 | d  | d1 | A   |          |          |          |
|------------------|-----------|----|----|-----|----------|----------|----------|
| 0642 178 722 158 | 63        | 16 | 29 | 125 | W-4988/0 | U-6511/0 | U-6527/0 |
| 0642 178 722 250 |           | 22 | 36 | 125 | W-4989/0 | U-6513/0 | U-6529/0 |
| 0642 178 722 453 |           | 27 | 42 | 125 | W-4989/0 | U-6515/0 | U-6531/0 |
| 0642 178 722 555 |           | 32 | 50 | 125 | W-4989/0 | U-6517/0 | U-6533/0 |

Typical order/Sposób zamawiania: 0642 178 722 555 lub 7872-63-32-125



## Type 7885

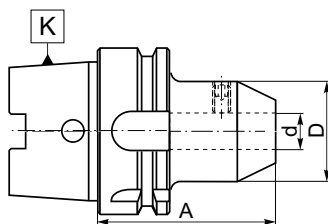
## DIN 69893-A

### END MILL ADAPTERS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B



| Code No / Kod Nr | K<br>HSK-A | d  | A   | D  |                   |
|------------------|------------|----|-----|----|-------------------|
| 0642 178 853 005 | 63         | 6  | 65  | 25 | U-4131/0          |
| 0642 178 853 059 |            | 6  | 120 | 25 | U-4131/0          |
| 0642 178 853 061 |            | 6  | 160 | 25 | U-4131/0          |
| 0642 178 853 107 |            | 8  | 65  | 28 | U-4132/0          |
| 0642 178 853 150 |            | 8  | 120 | 28 | U-4132/0          |
| 0642 178 853 163 |            | 8  | 160 | 28 | U-4132/0          |
| 0642 178 853 209 |            | 10 | 65  | 35 | U-4133/0          |
| 0642 178 853 252 |            | 10 | 120 | 35 | U-4133/0          |
| 0642 178 853 265 |            | 10 | 160 | 35 | U-4133/0          |
| 0642 178 853 300 |            | 12 | 80  | 42 | U-4134/0          |
| 0642 178 853 354 |            | 12 | 120 | 42 | U-4134/0          |
| 0642 178 853 402 |            | 14 | 80  | 44 | U-4134/0          |
| 0642 178 853 456 |            | 14 | 120 | 44 | U-4134/0          |
| 0642 178 853 504 |            | 16 | 80  | 48 | U-4135/0          |
| 0642 178 853 532 |            | 16 | 120 | 48 | U-4135/0          |
| 0642 178 853 606 |            | 18 | 80  | 50 | U-4135/0          |
| 0642 178 853 708 |            | 20 | 80  | 52 | U-4136/0          |
| 0642 178 853 800 |            | 25 | 110 | 63 | U-4137/0 U-4137/0 |
| 0642 178 853 901 |            |    |     |    |                   |

Typical order/Sposób zamawiania: 0642 178 851 602 or 7885-63-32-110

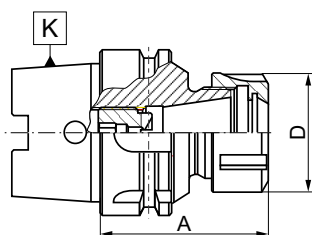
## Type 7887

### COLLET CHUCKS ER

for tool with cylindrical shank

**OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)**

do narzędzi z chwytem walcowym



## DIN 69893-A

| Code No / Kod Nr | K<br>7:24 | Collet | A   | Capacity<br>Zakres | D  |          |              |
|------------------|-----------|--------|-----|--------------------|----|----------|--------------|
| 0642 178 873 103 | 63        | ER11   | 63  | 2-7                | 19 | 9833-11D | M8x1x8LH     |
| 0642 178 873 116 |           | ER11   | 100 | 2-7                | 19 | 9833-11D | M8x1x8LH     |
| 0642 178 873 220 |           | ER16   | 90  | 2-10               | 32 | 9833-16  | M10x11LH     |
| 0642 178 878 110 |           | ER16   | 100 | 2-10               | 32 | 9833-16  | M10x11LH     |
| 0642 178 878 212 |           | ER16   | 120 | 2-10               | 32 | 9833-16  | M10x11LH     |
| 0642 178 873 261 |           | ER16   | 160 | 2-10               | 32 | 9833-16  | M10x11LH     |
| 0642 178 873 307 |           | ER25   | 80  | 2-16               | 42 | 9833-25  | M18x1,5x19LH |
| 0642 178 873 363 |           | ER25   | 160 | 2-16               | 42 | 9833-25  | M18x1,5x19LH |
| 0642 178 873 409 |           | ER32   | 100 | 2-20               | 50 | 9833-32  | M22x1,5x24LH |
| 0642 178 873 440 |           | ER32   | 160 | 2-20               | 50 | 9833-32  | M22x1,5x24LH |
| 0642 178 873 500 |           | ER40   | 120 | 2-26               | 63 | 9833-40  | M28x1,5x30LH |

Typical order/Sposób zamawiania: 0642 178 873 307 lub 7887-63-25-80

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkreś

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

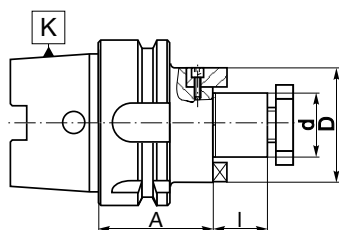
## Type 7888

### SHELL MILL ADAPTERS

for cutter with driving slot DIN 138

**TRZPIENIE FREZARSKIE ZABIERAKOWE**

do frezów z rowkiem zabierakowym DIN 138



## DIN 69893-A

| Code No / Kod Nr | K<br>HSK-A | d  | A   | I  | D  |          |          |
|------------------|------------|----|-----|----|----|----------|----------|
| 0642 178 883 101 | 63         | 16 | 45  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 178 883 155 |            | 16 | 80  | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 178 883 285 |            | 16 | 145 | 17 | 32 | U-0620/0 | S-2117/0 |
| 0642 178 883 305 |            | 22 | 50  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 178 883 333 |            | 22 | 80  | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 178 883 387 |            | 22 | 150 | 19 | 40 | U-0621/0 | S-2121/0 |
| 0642 178 883 407 |            | 27 | 60  | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 178 883 489 |            | 27 | 155 | 21 | 48 | U-0622/0 | S-2111/0 |
| 0642 178 883 509 |            | 32 | 60  | 24 | 58 | U-0623/0 | S-2114/0 |
| 0642 178 883 600 |            | 40 | 60  | 27 | 7  | U-0623/0 | S-2114/0 |

Typical order/Sposób zamawiania: 0642 178 883 101 lub 7888-63-16-45

## Type 7890

## DIN 69893-A

### REDUCING ADAPTERS

for tools with Morse taper and tang DIN 228-B shank

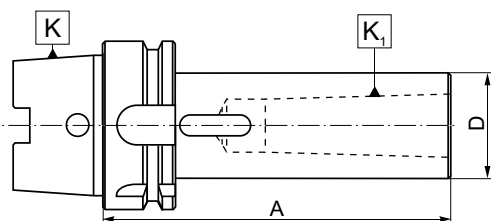
### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z pletwą wg DIN 228-B



| Code No / Kod Nr | K<br>HSK-A | K1<br>Morse | A   | D  |
|------------------|------------|-------------|-----|----|
| 0642 178 903 157 | 63         | 1           | 100 | 25 |
| 0642 178 903 287 |            | 2           | 120 | 32 |
| 0642 178 903 363 |            | 3           | 140 | 40 |
| 0642 178 903 478 |            | 4           | 160 | 48 |

Typical order/Sposób zamawiania: 0642 178 903 157 lub 7890-63-1-100



## Type 7891

## DIN 69893-A

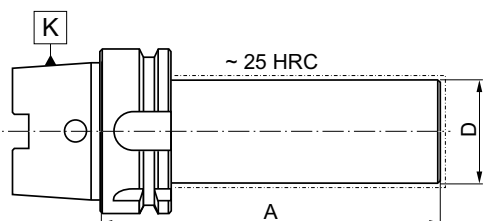
### BLANK ADAPTERS

TRZPIEŃ-PÓŁFABRYKAT



| Code No / Kod Nr | K<br>HSK-A | D  | A   |
|------------------|------------|----|-----|
| 0642 178 913 101 | 63         | 63 | 150 |
| 0642 178 913 511 |            | 80 | 250 |

Typical order/Sposób zamawiania: 0642 178 913 101 lub 7891-63-63-150



## Type 1313

## DIN 69893-A

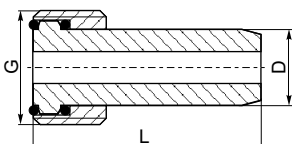
### COOLANT TUBE

ZŁĄCZE RUROWE



| Code No / Kod Nr | K<br>HSK-A | G     | L    | D  |
|------------------|------------|-------|------|----|
| 0642 813 130 104 | 63         | M16x1 | 36,5 | 12 |

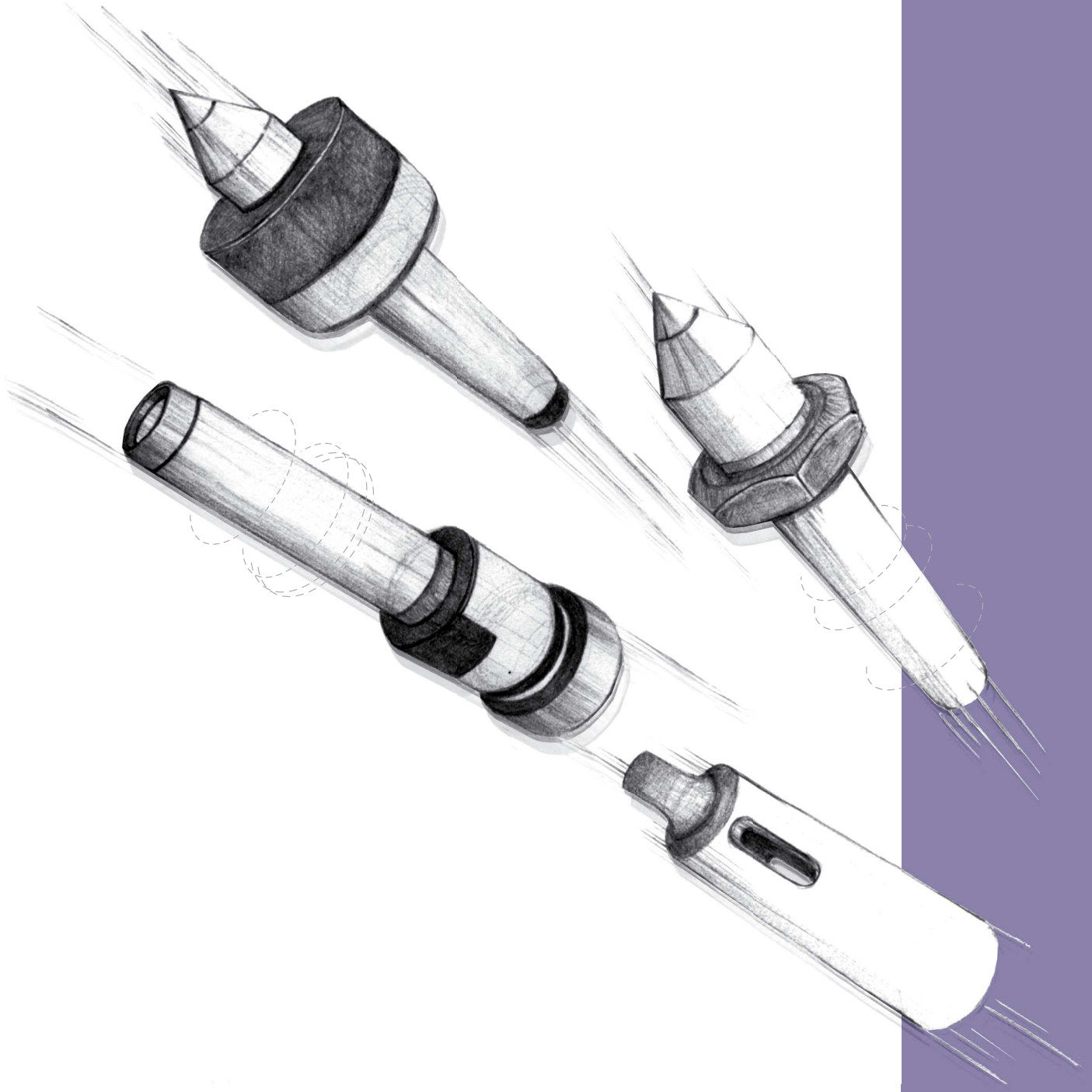
Typical order/Sposób zamawiania: 0642 813 130 104 lub 1313-63 5







DIN 228



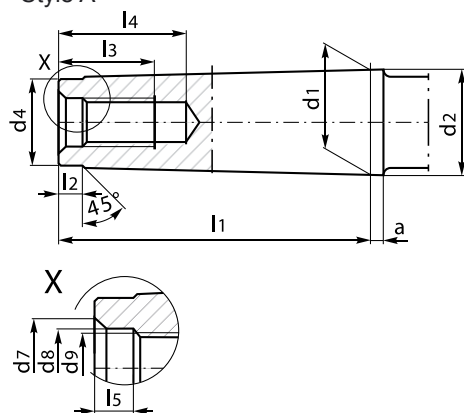
**BISON** BIAL

5

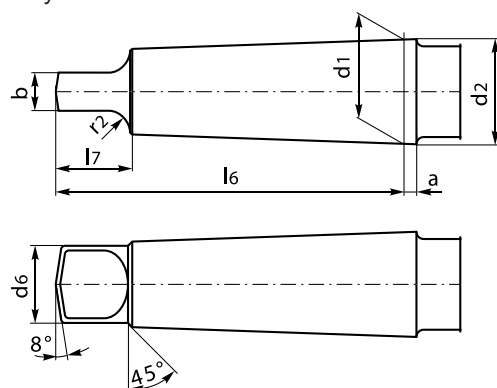
## DIN 228

MORSE TAPER  
CHWYT MORSE'A

Style A



Style B



| K Morse | a   | b    | d1     | d2   | d4   | d6   | d7   | d8   | d9  |
|---------|-----|------|--------|------|------|------|------|------|-----|
| 0       | 3   | 3.9  | 9.045  | 9.2  | 6    | 6    | —    | —    | —   |
| 1       | 3.5 | 5.2  | 12.065 | 12.2 | 9    | 8.7  | 8.5  | 6.4  | M6  |
| 2       | 5   | 6.3  | 17.780 | 18   | 14   | 13.5 | 13.2 | 10.5 | M10 |
| 3       | 5   | 7.9  | 23.825 | 24.1 | 19   | 18.5 | 16   | 13   | M12 |
| 4       | 6.5 | 11.9 | 31.267 | 31.6 | 25   | 24.5 | 21.5 | 17   | M16 |
| 5       | 6.5 | 15.9 | 44.399 | 44.7 | 35.7 | 35.7 | 26   | 21   | M20 |
| 6       | 8   | 19.0 | 63.348 | 63.8 | 51   | 51   | 32   | 25   | M24 |
| 7       | 9.5 | 28.5 | 83.058 | 83.5 | 66   | 66.8 | —    | —    | —   |

| K Metric | a  | b  | d1  | d2    | d4 | d6 | d7 | d8 | d9  |
|----------|----|----|-----|-------|----|----|----|----|-----|
| 80       | 8  | 26 | 80  | 80.4  | 67 | 67 | 38 | 32 | M30 |
| 100      | 10 | 32 | 100 | 100.5 | 85 | 85 | 45 | 38 | M36 |

| K Morse | l1    | l2 | l3 | l4   | l5   | l6    | l7   | r2 | a/2      |
|---------|-------|----|----|------|------|-------|------|----|----------|
| 0       | 50    | 4  | —  | —    | —    | 56.5  | 10.5 | 4  | 1°29'27" |
| 1       | 53.5  | 5  | 16 | 22   | 4    | 62    | 13.5 | 5  | 1°25'43" |
| 2       | 64    | 5  | 24 | 31.5 | 5    | 75    | 16   | 6  | 1°25'50" |
| 3       | 81    | 7  | 24 | 33.5 | 5.5  | 94    | 20   | 7  | 1°26'16" |
| 4       | 102.5 | 9  | 32 | 42.5 | 8.2  | 117.5 | 24   | 8  | 1°29'15" |
| 5       | 129.5 | 10 | 40 | 52.5 | 10   | 149.5 | 29   | 10 | 1°30'26" |
| 6       | 182   | 16 | 47 | 61.5 | 11.5 | 210   | 40   | 13 | 1°29'36" |
| 7       | 250.5 | 18 | —  | —    | —    | 286   | 54   | 19 | 1°29'22" |

| K Metric | l1  | l2 | l3 | l4 | l5 | l6  | l7 | r2 | a/2      |
|----------|-----|----|----|----|----|-----|----|----|----------|
| 80       | 196 | 24 | 59 | 76 | 14 | 220 | 48 | 24 | 1°25'56" |
| 100      | 232 | 30 | 70 | 89 | 16 | 260 | 58 | 30 | 1°25'56" |

## STANDARD FEATURES OF TOOLING

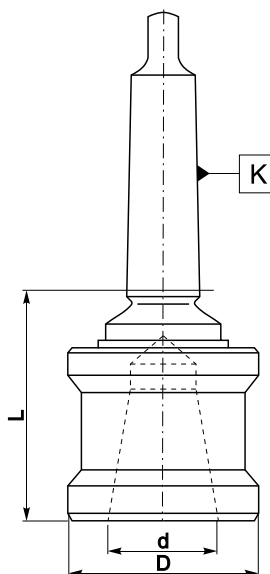
- Manufactured with Chrome Manganese steel.
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.
- Taper angle: tolerance AT4.

## CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa.
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.
- Tolerancja kąta stożka AT4.

## Type 1721

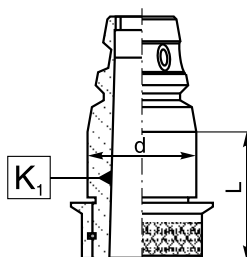
QUICK-CHANGE HOLDERS  
OPRAWKI SZYBKOMOCUJĄCE


**DIN 228**

| Code No / Kod Nr | Size Wielk. | K Morse | d    | D  | L     |
|------------------|-------------|---------|------|----|-------|
| 0642 117 212 304 | 2-40        | 2       | 40,0 | 65 | 82,5  |
| 0642 117 213 305 | 3-40        | 3       | 40,0 | 65 | 81,0  |
| 0642 117 214 306 | 4-40        | 4       | 40,0 | 65 | 80,0  |
| 0642 117 214 408 | 4-51        | 4       | 51,5 | 83 | 102,0 |
| 0642 117 215 409 | 5-51        | 5       | 51,5 | 83 | 98,5  |

## Type 5216

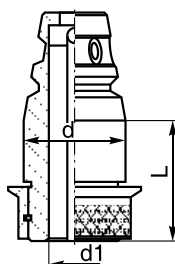
QUICK-CHANGE ADAPTERS WITH MORSE TAPER SEAT  
WKŁADY SZYBKOWYMIENNE Z GNIAZDEM STOŻKOWYM MORSE'A


**DIN 228**

| Code No / Kod Nr | Size Wielk. | d    | K1 Morse | L  |
|------------------|-------------|------|----------|----|
| 0642 152 162 104 | 40-1        | 40,0 | 1        | 29 |
| 0642 152 162 206 | 40-2        | 40,0 | 2        | 29 |
| 0642 152 162 308 | 40-3        | 40,0 | 3        | 47 |
| 0642 152 163 105 | 51-1        | 51,5 | 1        | 34 |
| 0642 152 163 207 | 51-2        | 51,5 | 2        | 34 |
| 0642 152 163 309 | 51-3        | 51,5 | 3        | 34 |
| 0642 152 163 400 | 51-4        | 51,5 | 4        | 57 |

## Type 5217

QUICK-CHANGE ADAPTERS FOR HOLDERS WITH AXIAL ADJUSTMENT  
WKŁADY SZYBKOWYMIENNE DO OPRAWEK Z REGULACJĄ OSIOWĄ

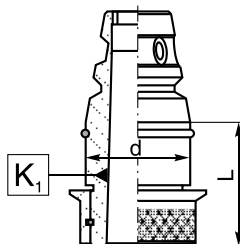

**DIN 228**

| Code No / Kod Nr | Size Wielk. | d    | d1 | L  |
|------------------|-------------|------|----|----|
| 0642 152 170 100 | 40-20       | 40,0 | 20 | 54 |
| 0642 152 170 508 | 51-28       | 51,5 | 28 | 55 |

## Type 5219

DIN 228

QUICK-CHANGE ADAPTERS FOR REAMERS  
WKŁADY SZYBKOWYMIENNE DO ROZWIERTAKÓW (WAHLIWE)

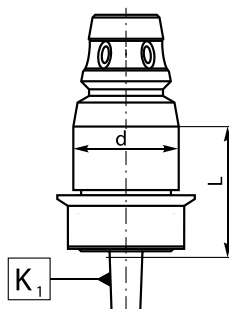


| Code No / Kod Nr | Size Wielk. | d    | K1 Morse | L  |
|------------------|-------------|------|----------|----|
| 0642 152 190 300 | 40-2        | 40,0 | 2        | 29 |
| 0642 152 190 402 | 40-3        | 40,0 | 3        | 47 |
| 0642 152 190 504 | 51-4        | 51,5 | 4        | 57 |

## Type 5366

DIN 228

QUICK-CHANGE ADAPTERS FOR DRILL CHUCKS  
WKŁADY SZYBKOWYMIENNE DO UCHWYTÓW WIERTARSKICH

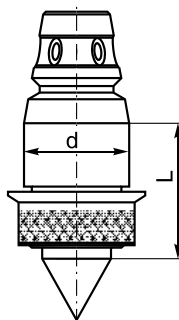


| Code No / Kod Nr | Size Wielk. | d    | K1 DIN | L    |
|------------------|-------------|------|--------|------|
| 0642 153 660 105 | 40-B12      | 40,0 | B12    | 32,5 |
| 0642 153 660 400 | 40-B16      | 40,0 | B16    | 34,0 |
| 0642 153 660 502 | 51-B16      | 51,5 | B16    | 39,0 |

## Type 5367

DIN 228

QUICK-CHANGE ADAPTERS WITH CENTRE  
WKŁADY SZYBKOWYMIENNE Z KŁEM



| Code No / Kod Nr | Size Wielk. | d    | L  |
|------------------|-------------|------|----|
| 0642 153 670 409 | 40-60       | 40,0 | 61 |
| 0642 153 670 500 | 51-60       | 51,5 | 66 |

**REDUCING SLEEVES**

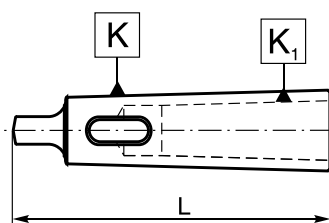
for tools with Morse taper shank

**TULEJE REDUKCYJNE**

do narzędzi z chwytem Morse'a

**Type 1751**

- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny


**Type 1752**

- Hardened tang, ground internally and externally
- Hartowana tylko pletwa, szlifowany stożek zewnętrzny i wewnętrzny

Type 1751      Type 1752

| Code No / Kod Nr | Code No / Kod Nr | K Morse | K1 Morse | L   |
|------------------|------------------|---------|----------|-----|
| 0642 117 501 103 | —                | 1       | 0        | 85  |
| 0642 117 510 100 | 0642 117 520 109 | 2       | 1        | 92  |
| 0642 117 510 202 | 0642 117 520 200 | 3       | 1        | 99  |
| 0642 117 510 304 | 0642 117 520 302 |         | 2        | 112 |
| 0642 117 510 406 | 0642 117 520 404 | 4       | 1        | 124 |
| 0642 117 510 508 | 0642 117 520 506 |         | 2        | 124 |
| 0642 117 510 600 | 0642 117 520 608 |         | 3        | 140 |
| 0642 117 510 701 | 0642 117 520 700 | 5       | 1        | 156 |
| 0642 117 510 803 | 0642 117 520 801 |         | 2        | 156 |
| 0642 117 510 905 | 0642 117 520 903 |         | 3        | 156 |
| 0642 117 511 000 | 0642 117 521 008 |         | 4        | 174 |
| 0642 117 511 203 | 0642 117 521 201 | 6       | 2        | 218 |
| 0642 117 511 305 | 0642 117 521 303 |         | 3        | 218 |
| 0642 117 511 407 | 0642 117 521 405 |         | 4        | 218 |
| 0642 117 511 509 | 0642 117 521 507 |         | 5        | 218 |

Typical order/Sposób zamawiania: 0642 117 511 509 or 1751-6-5

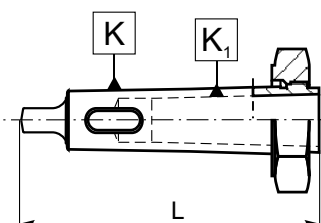
**Type 1754**
**REDUCING SLEEVES**

for tools with Morse taper shank with forcing nut

**TULEJE REDUKCYJNE**

do narzędzi z chwytem Morse'a i z nakrętką ściągającą

- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny



| Code No / Kod Nr | K Morse | K1 Morse | L     |          |
|------------------|---------|----------|-------|----------|
| 0642 117 540 105 | 2       | 1        | 92,0  | S-0776/0 |
| 0642 117 540 309 | 3       | 1        | 119,0 | S-0778/0 |
| 0642 117 540 400 |         | 2        | 119,0 | S-0778/0 |
| 0642 117 540 604 | 4       | 1        | 146,5 | S-0778/0 |
| 0642 117 540 706 |         | 2        | 146,5 | S-0778/0 |
| 0642 117 540 808 |         | 3        | 146,5 | S-0778/0 |
| 0642 117 541 106 | 5       | 2        | 178,0 | S-0782/0 |
| 0642 117 541 208 |         | 3        | 178,0 | S-0782/0 |
| 0642 117 541 300 |         | 4        | 178,0 | S-0782/0 |
| 0642 117 541 503 | 6       | 3        | 245,0 | S-0784/0 |
| 0642 117 541 605 |         | 4        | 245,0 | S-0784/0 |
| 0642 117 541 707 |         | 5        | 245,0 | S-0784/0 |

Typical order/Sposób zamawiania: 0642 117 541 707 lub 1754-6-5

# EXTENSION SLEEVES

for tools with Morse taper

## TULEJE REDUKCYJNE DŁUGIE

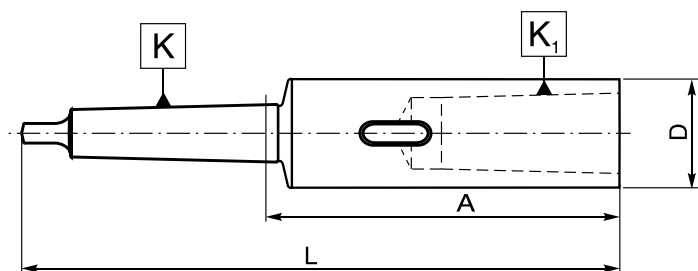
do narzędzi z chwytem Morse'a

### Type 1761

- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny

### Type 1762

- Hardened tang, ground internally and externally
- Hartowana tylko pletwa, szlifowany stożek zewnętrzny i wewnętrzny



Type 1761 Type 1762

| Code No / Kod Nr | Code No / Kod Nr | K Morse | K1 Morse | L   | A     | D  |
|------------------|------------------|---------|----------|-----|-------|----|
| 0642 117 610 108 | 0642 117 620 106 | 1       | 1        | 145 | 83,0  | 20 |
| 0642 117 610 200 | 0642 117 620 208 |         | 2        | 160 | 98,0  | 30 |
| 0642 117 610 301 | 0642 117 620 300 |         | 3        | 183 | 121,0 | 36 |
|                  |                  |         |          |     |       |    |
| 0642 117 610 108 | 0642 117 620 106 | 1       | 1        | 145 | 83,0  | 20 |
| 0642 117 610 200 | 0642 117 620 208 |         | 2        | 160 | 98,0  | 30 |
| 0642 117 610 301 | 0642 117 620 300 |         | 3        | 183 | 121,0 | 36 |
|                  |                  |         |          |     |       |    |
| 0642 117 610 403 | 0642 117 620 401 | 2       | 1        | 160 | 85,0  | 20 |
| 0642 117 610 505 | 0642 117 620 503 |         | 2        | 175 | 100,0 | 30 |
| 0642 117 610 607 | 0642 117 620 605 |         | 3        | 196 | 121,0 | 36 |
| 0642 117 610 709 | 0642 117 620 707 |         | 4        | 221 | 146,0 | 48 |
|                  |                  |         |          |     |       |    |
| 0642 117 610 800 | 0642 117 620 809 | 3       | 1        | 175 | 81,0  | 20 |
| 0642 117 610 902 | 0642 117 620 900 |         | 2        | 194 | 100,0 | 30 |
| 0642 117 611 007 | 0642 117 621 005 |         | 3        | 215 | 121,0 | 36 |
| 0642 117 611 109 | 0642 117 621 107 |         | 4        | 240 | 146,0 | 48 |
| 0642 117 611 200 | 0642 117 621 209 |         | 5        | 275 | 181,0 | 63 |
|                  |                  |         |          |     |       |    |
| 0642 117 611 302 | 0642 117 621 300 | 4       | 1        | 200 | 82,5  | 20 |
| 0642 117 611 404 | 0642 117 621 402 |         | 2        | 215 | 97,5  | 30 |
| 0642 117 611 506 | 0642 117 621 504 |         | 3        | 240 | 122,5 | 36 |
| 0642 117 611 608 | 0642 117 621 606 |         | 4        | 265 | 147,5 | 48 |
| 0642 117 611 700 | 0642 117 621 708 |         | 5        | 300 | 182,5 | 63 |
| 0642 117 611 801 | 0642 117 621 800 |         | 6        | 361 | 243,5 | 82 |
|                  |                  |         |          |     |       |    |
| 0642 117 611 903 | 0642 117 621 901 | 5       | 1        | 232 | 82,5  | 20 |
| 0642 117 612 008 | 0642 117 622 006 |         | 2        | 247 | 97,5  | 30 |
| 0642 117 612 100 | 0642 117 622 108 |         | 3        | 268 | 118,5 | 36 |
| 0642 117 612 201 | 0642 117 622 200 |         | 4        | 300 | 150,5 | 48 |
| 0642 117 612 303 | 0642 117 622 301 |         | 5        | 335 | 185,5 | 63 |
| 0642 117 612 405 | 0642 117 622 403 |         | 6        | 396 | 246,5 | 82 |
|                  |                  |         |          |     |       |    |
| 0642 117 612 507 | 0642 117 622 505 | 6       | 1        | 294 | 84,0  | 20 |
| 0642 117 612 609 | 0642 117 622 607 |         | 2        | 309 | 99,0  | 30 |
| 0642 117 612 700 | 0642 117 622 709 |         | 3        | 330 | 120,0 | 36 |
| 0642 117 612 802 | 0642 117 622 800 |         | 4        | 355 | 145,0 | 48 |
| 0642 117 612 904 | 0642 117 622 902 |         | 5        | 390 | 180,0 | 63 |
| 0642 117 613 009 | 0642 117 623 007 |         | 6        | 451 | 241,0 | 82 |

Typical order/Sposób zamawiania: 0642 117 613 009 lub 1761-6-6



**ELONGATING SLEEVES**

for tools with Morse taper shank

**TULEJE PRZEDŁUŻAJĄCE**

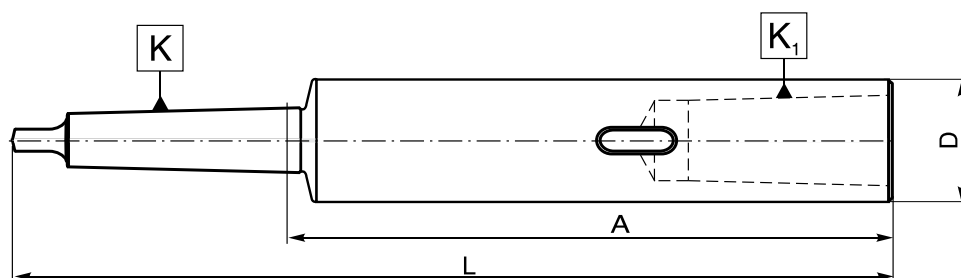
do narzędzi z chwytem Morse'a

**Type 1764**

- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny

**Type 1765**

- Hardened tang, ground internally and externally
- Hartowana tylko pletwa, szlifowany stożek zewnętrzny i wewnętrzny



Type 1764    Type 1765

| Code No / Kod Nr | Code No / Kod Nr | K<br>Morse | K1<br>Morse | L   | A     | D  |
|------------------|------------------|------------|-------------|-----|-------|----|
| 0642 117 645 107 | 0642 117 655 105 | 1          | 1           | 200 | 138,0 | 20 |
| 0642 117 645 209 | 0642 117 655 207 |            | 1           | 250 | 188,0 | 20 |
| 0642 117 645 300 | 0642 117 655 309 |            | 1           | 300 | 238,0 | 20 |
| 0642 117 645 402 | 0642 117 655 400 |            | 1           | 350 | 288,0 | 20 |
| 0642 117 645 504 | 0642 117 655 502 |            | 1           | 400 | 338,0 | 20 |
| 0642 117 645 606 | 0642 117 655 604 |            | 1           | 450 | 388,0 | 20 |
| 0642 117 645 708 | 0642 117 655 706 |            | 1           | 500 | 438,0 | 20 |
| 0642 117 646 108 | 0642 117 656 106 | 2          | 2           | 200 | 125,0 | 25 |
| 0642 117 646 200 | 0642 117 656 208 |            | 2           | 250 | 175,0 | 25 |
| 0642 117 646 301 | 0642 117 656 300 |            | 2           | 300 | 225,0 | 25 |
| 0642 117 646 403 | 0642 117 656 401 |            | 2           | 350 | 275,0 | 25 |
| 0642 117 646 505 | 0642 117 656 503 |            | 2           | 400 | 325,0 | 25 |
| 0642 117 646 607 | 0642 117 656 605 |            | 2           | 450 | 375,0 | 25 |
| 0642 117 646 709 | 0642 117 656 707 |            | 2           | 500 | 425,0 | 25 |
| 0642 117 646 800 | 0642 117 656 809 |            | 2           | 600 | 525,0 | 25 |
| 0642 117 647 109 | 0642 117 657 107 | 3          | 3           | 250 | 156,0 | 32 |
| 0642 117 647 200 | 0642 117 657 209 |            | 3           | 300 | 206,0 | 32 |
| 0642 117 647 302 | 0642 117 657 300 |            | 3           | 350 | 256,0 | 32 |
| 0642 117 647 404 | 0642 117 657 402 |            | 3           | 400 | 306,0 | 32 |
| 0642 117 647 506 | 0642 117 657 504 |            | 3           | 450 | 356,0 | 32 |
| 0642 117 647 608 | 0642 117 657 606 |            | 3           | 500 | 406,0 | 32 |
| 0642 117 647 700 | 0642 117 657 708 |            | 3           | 600 | 506,0 | 32 |
| 0642 117 648 100 | 0642 117 658 108 | 4          | 4           | 300 | 182,5 | 40 |
| 0642 117 648 201 | 0642 117 658 200 |            | 4           | 350 | 232,5 | 40 |
| 0642 117 648 303 | 0642 117 658 301 |            | 4           | 400 | 282,5 | 40 |
| 0642 117 648 405 | 0642 117 658 403 |            | 4           | 450 | 332,5 | 40 |
| 0642 117 648 507 | 0642 117 658 505 |            | 4           | 500 | 382,5 | 40 |
| 0642 117 648 609 | 0642 117 658 607 |            | 4           | 600 | 482,5 | 40 |

Typical order/Sposób zamawiania: 0642 117 648 609 lub 1764-4-600

## Type 1770

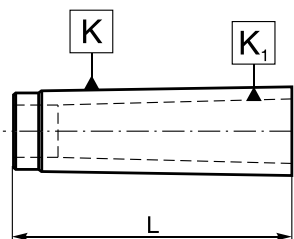
**DIN 228**

### SPINDLE SLEEVES

for tools with Morse taper shank

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a



- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny

| Code No / Kod Nr | K Morse | K1 Morse | L   |
|------------------|---------|----------|-----|
| 0642 117 700 209 | 2       | 1        | 50  |
| 0642 117 700 300 | 3       | 1        | 55  |
| 0642 117 700 402 |         | 2        | 65  |
| 0642 117 700 606 | 4       | 2        | 70  |
| 0642 117 700 708 |         | 3        | 75  |
| 0642 117 701 200 | 5       | 2        | 80  |
| 0642 117 701 301 |         | 3        | 90  |
| 0642 117 701 403 |         | 4        | 100 |
| 0642 117 701 800 | 6       | 3        | 110 |
| 0642 117 701 902 |         | 4        | 120 |
| 0642 117 702 007 |         | 5        | 130 |

| Code No / Kod Nr | K Metric | K1 Morse | L   |
|------------------|----------|----------|-----|
| 0642 117 702 506 | 80       | 5        | 135 |
| 0642 117 702 608 |          | 6        | 170 |
| 0642 117 703 100 | 100      | 5        | 180 |
| 0642 117 703 201 | 100      | 6        | 180 |

Typical order/Sposób zamawiania: 0642 117 702 007 lub 1770-6-5

## Type 1774

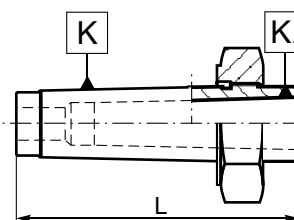
**DIN 228**

### SPINDLE SLEEVES

for tools with Morse taper shank and drawbar thread with forcing nut

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z gwintem z nakrętką ściągającą



- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny

| Code No / Kod Nr | K Morse | K1 Morse | L   |
|------------------|---------|----------|-----|
| 0642 117 741 100 | 3       | 2        | 80  |
| 0642 117 741 304 | 4       | 2        | 86  |
| 0642 117 741 406 |         | 3        | 91  |
| 0642 117 741 600 | 5       | 2        | 102 |
| 0642 117 741 701 |         | 3        | 112 |
| 0642 117 741 803 |         | 4        | 122 |
| 0642 117 742 101 | 6       | 3        | 137 |
| 0642 117 742 203 |         | 4        | 147 |
| 0642 117 742 305 |         | 5        | 157 |

Typical order/Sposób zamawiania: 0642 117 742 305 lub 1774-6-5

## Type 1775

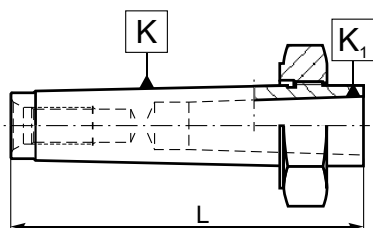
**DIN 228**

### SPINDLE SLEEVES

for tools with Morse taper and tang shank with forcing nut

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a z płetwą z nakrętką ściągającą



- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i zewnętrzny

| Code No / Kod Nr | K<br>Morse | K1<br>Morse | L     |          |
|------------------|------------|-------------|-------|----------|
| 0642 117 750 108 | 2          | 1           | 100,0 | S-0776/0 |
| 0642 117 750 301 | 3          | 1           | 112,0 | S-0778/0 |
| 0642 117 750 403 |            | 2           | 125,0 | S-0778/0 |
| 0642 117 750 607 | 4          | 1           | 135,5 | S-0778/0 |
| 0642 117 750 709 |            | 2           | 147,0 | S-0778/0 |
| 0642 117 750 800 |            | 3           | 165,0 | S-0778/0 |
| 0642 117 751 109 | 5          | 2           | 160,0 | S-0782/0 |
| 0642 117 751 200 |            | 3           | 167,0 | S-0782/0 |
| 0642 117 751 302 |            | 4           | 171,5 | S-0782/0 |
| 0642 117 751 608 | 6          | 3           | 217,0 | S-0784/0 |
| 0642 117 751 700 |            | 4           | 217,0 | S-0784/0 |
| 0642 117 751 801 |            | 5           | 217,0 | S-0784/0 |

Typical order/Sposób zamawiania: 0642 117 751 801 lub 1775-6-5

## Type 5310

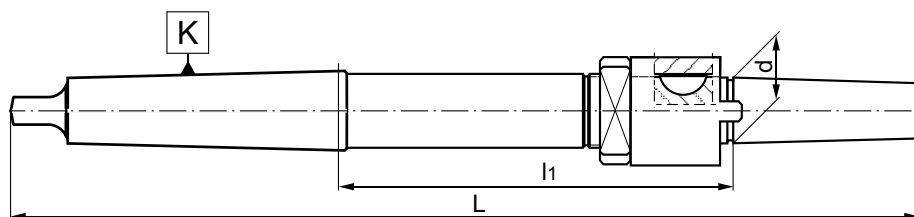
**DIN 228**

### DRIVER ARBORS

for reamers

### TRZPIENIE ZABIERAKOWE

do rozwiertaków nasadzanych



| Code No / Kod Nr | K<br>Morse | d  | L   | l1    |  |  |  |
|------------------|------------|----|-----|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0642 153 102 101 | 2          | 10 | 220 | 105,8 | S-0881/0                                                                            | S-0880/0                                                                            | U-0097/0                                                                            |
| 0642 153 103 204 | 3          | 13 | 250 | 111,9 | S-0884/0                                                                            | S-0883/0                                                                            | U-0097/0                                                                            |
| 0642 153 103 306 |            | 16 | 261 | 117,9 | S-0887/0                                                                            | S-0886/0                                                                            | U-0648/0                                                                            |
| 0642 153 103 408 |            | 19 | 270 | 121,1 | S-0891/0                                                                            | S-0890/0                                                                            | U-0098/0                                                                            |
| 0642 153 103 500 |            | 22 | 278 | 122,1 | S-0894/0                                                                            | S-0893/0                                                                            | U-0098/0                                                                            |
| 0642 153 104 307 | 4          | 19 | 298 | 125,6 | S-0891/0                                                                            | S-0890/0                                                                            | U-0098/0                                                                            |
| 0642 153 104 409 |            | 22 | 312 | 132,6 | S-0894/0                                                                            | S-0893/0                                                                            | U-0098/0                                                                            |
| 0642 153 104 500 |            | 27 | 325 | 137,6 | S-0897/0                                                                            | S-0896/0                                                                            | S-0898/0                                                                            |
| 0642 153 104 602 |            | 32 | 345 | 148,9 | S-0901/0                                                                            | S-0900/0                                                                            | U-0649/0                                                                            |
| 0642 153 105 308 | 5          | 27 | 359 | 139,6 | S-0897/0                                                                            | S-0896/0                                                                            | S-0898/0                                                                            |
| 0642 153 105 400 |            | 32 | 376 | 147,9 | S-0901/0                                                                            | S-0900/0                                                                            | U-0649/0                                                                            |
| 0642 153 105 501 |            | 40 | 396 | 157,9 | S-0905/0                                                                            | S-0904/0                                                                            | U-0650/0                                                                            |
| 0642 153 105 603 |            | 50 | 416 | 167,9 | S-0909/0                                                                            | S-0908/0                                                                            | U-0106/0                                                                            |

Typical order/Sposób zamawiania: 0642 153 105 603 lub 5310-5-50

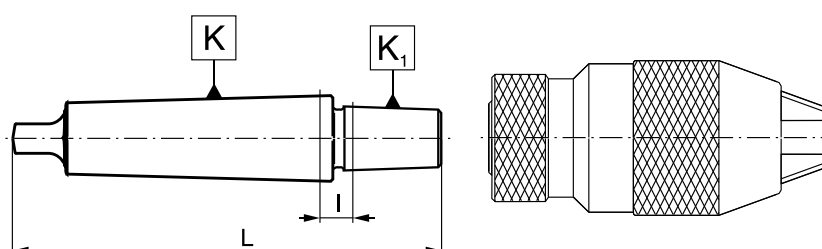
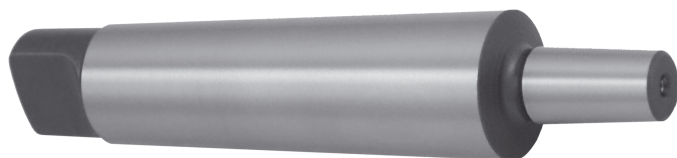
## Type 5361

### DRILL CHUCK MANDRELS

for drill chucks taper DIN 238

### TRZPIENIE

do uchwyków wiertarskich ze stożkiem DIN 238



| Code No / Kod Nr | K Morse | K1 DIN | L     | I    |
|------------------|---------|--------|-------|------|
| 0642 153 611 105 | 1       | B10    | 86,0  | 6,0  |
| 0642 153 611 207 |         | B12    | 89,0  | 5,0  |
| 0642 153 611 309 |         | B16    | 99,0  | 8,0  |
| 0642 153 611 400 |         | B18    | 107,0 | 8,0  |
| 0642 153 616 507 |         | B18V   | 97,0  | 8,0  |
| 0642 153 612 106 | 2       | B10    | 105,0 | 12,0 |
| 0642 153 612 208 |         | B12    | 106,0 | 9,0  |
| 0642 153 612 300 |         | B16    | 112,0 | 8,0  |
| 0642 153 612 401 |         | B18    | 119,0 | 7,0  |
| 0642 153 616 609 |         | B18V   | 108,5 | 6,5  |
| 0642 153 612 503 |         | B22    | 130,0 | 9,5  |
| 0642 153 613 107 | 3       | B10    | 121,0 | 9,0  |
| 0642 153 613 209 |         | B12    | 127,0 | 11,0 |
| 0642 153 613 300 |         | B16    | 134,0 | 11,0 |
| 0642 153 613 402 |         | B18    | 140,0 | 9,0  |
| 0642 153 617 406 |         | B18V   | 132,0 | 11,0 |
| 0642 153 613 504 |         | B22    | 147,0 | 17,5 |
| 0642 153 613 606 |         | B24    | 157,0 | 17,5 |
| 0642 153 614 200 | 4       | B12    | 152,5 | 13,0 |
| 0642 153 614 301 |         | B16    | 158,0 | 11,5 |
| 0642 153 614 403 |         | B18    | 166,5 | 12,0 |
| 0642 153 617 508 |         | B18V   | 159,0 | 14,5 |
| 0642 153 614 505 |         | B22    | 176,0 | 13,0 |
| 0642 153 614 607 |         | B24    | 186,0 | 13,0 |
| 0642 153 615 200 | 5       | B12    | 186,5 | 15,0 |
| 0642 153 615 302 |         | B16    | 193,0 | 14,5 |
| 0642 153 615 404 |         | B18    | 200,5 | 14,0 |
| 0642 153 617 510 |         | B18V   | 191,0 | 14,5 |
| 0642 153 615 506 |         | B22    | 208,5 | 13,5 |
| 0642 153 615 608 |         | B24    | 221,0 | 16,0 |

Typical order/Sposób zamawiania: 0642 153 615 608 lub 5361-5-B24

## Type 5362

### DRILL CHUCK MANDRELS

for Jacobs drill chucks

### TRZPIENIE

do uchwyków wiertarskich ze stożkiem Jacobs'a

| Code No / Kod Nr | K Morse | K1 Jacobs | L     | I    |
|------------------|---------|-----------|-------|------|
| 0642 153 616 008 | 1       | J0        | 80,5  | 7,4  |
| 0642 153 616 100 |         | J1        | 83,8  | 5,1  |
| 0642 153 616 201 |         | J2        | 90,5  | 6,3  |
| 0642 153 616 405 |         | J3        | 100,5 | 7,5  |
| 0642 153 616 303 |         | J33       | 95,0  | 7,6  |
| 0642 153 616 700 |         | J6        | 95,0  | 7,6  |
| 0642 153 616 904 | 2       | J0        | 95,5  | 9,5  |
| 0642 153 617 009 |         | J1        | 102,5 | 9,8  |
| 0642 153 617 100 |         | J2        | 106,0 | 8,8  |
| 0642 153 617 304 |         | J3        | 112,5 | 6,5  |
| 0642 153 617 202 |         | J33       | 107,0 | 6,6  |
| 0642 153 619 805 |         | J4        | 128,5 | 11,4 |
| 0642 153 617 600 |         | J6        | 107,0 | 6,6  |
| 0642 153 617 905 | 3       | J1        | 120,5 | 9,8  |
| 0642 153 618 000 |         | J2        | 127,0 | 10,8 |
| 0642 153 618 305 |         | J3        | 131,5 | 6,5  |
| 0642 153 618 203 |         | J33       | 126,0 | 6,6  |
| 0642 153 618 101 |         | J4        | 146,0 | 10,0 |
| 0642 153 618 407 |         | J5        | 153,0 | 11,4 |
| 0642 153 618 509 |         | J6        | 129,0 | 9,6  |
| 0642 153 619 703 | 4       | J2        | 151,5 | 11,8 |
| 0642 153 618 702 |         | J3        | 160,5 | 12,0 |
| 0642 153 618 600 |         | J33       | 155,0 | 12,0 |
| 0642 153 618 804 |         | J4        | 170,0 | 10,4 |
| 0642 153 619 000 |         | J5        | 175,5 | 10,4 |
| 0642 153 618 906 |         | J6        | 155,0 | 12,0 |
| 0642 153 619 306 | 5       | J3        | 193,5 | 12,5 |
| 0642 153 619 204 |         | J33       | 189,5 | 14,6 |
| 0642 153 619 408 |         | J4        | 203,5 | 11,4 |
| 0642 153 619 500 |         | J5        | 209,5 | 12,4 |
| 0642 153 619 601 |         | J6        | 187,0 | 12,1 |

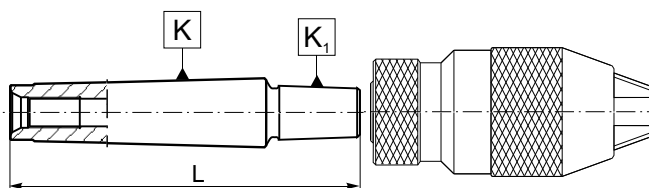
## Type 5363

### DRILL CHUCK MANDRELS

for drill chucks taper DIN 238

### TRZPIENIE

do uchwytów wiertarskich ze stożkiem DIN 238



## DIN 228

| Code No / Kod Nr | K Morse | K1 DIN | L   |
|------------------|---------|--------|-----|
| 0642 153 631 101 | 2       | B12    | 95  |
| 0642 153 631 305 |         | B16    | 101 |
| 0642 153 632 306 | 3       | B16    | 121 |
| 0642 153 633 307 | 4       | B16    | 143 |

Typical order/Sposób zamawiania: 0642 153 633 307 lub 5363-4-B16

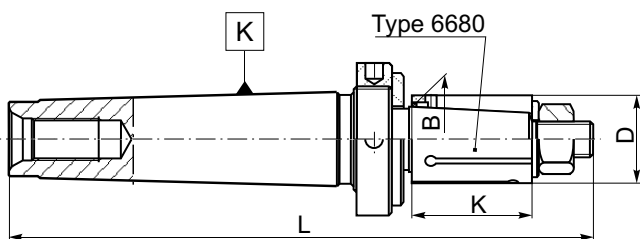
## Type 6610

### LATHE MANDRELS

with collets

### TRZPIENIE TOKARSKIE

z tulejkami rozprężnymi



## DIN 228

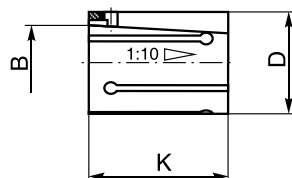
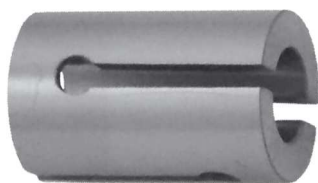
| Code No / Kod Nr | K Morse | D     | L   | B    | K  |                    |
|------------------|---------|-------|-----|------|----|--------------------|
| 0642 566 100 102 | 3       | 12-14 | 141 | 9,7  | 22 | 12; 13; 14         |
| 0642 566 100 204 |         | 15-18 | 150 | 11,7 | 27 | 15; 16; 17; 18     |
| 0642 566 100 306 |         | 19-22 | 160 | 14,7 | 32 | 19; 20; 21; 22     |
| 0642 566 100 601 | 4       | 23-27 | 190 | 17,7 | 37 | 23; 24; 25; 26; 27 |
| 0642 566 100 703 |         | 28-32 | 200 | 21,7 | 42 | 28; 30; 32         |
| 0642 566 100 805 |         | 33-38 | 210 | 25,6 | 48 | 33; 34; 35; 36; 38 |
| 0642 566 101 103 | 5       | 40-45 | 255 | 31,6 | 54 | 40; 42; 44; 45     |
| 0642 566 101 205 |         | 46-52 | 265 | 37,6 | 60 | 46; 48; 50; 52     |
| 0642 566 101 307 |         | 55-60 | 285 | 44,5 | 70 | 55; 58; 60         |
| 0642 566 101 409 |         | 63-70 | 310 | 51,5 | 80 | 63; 65; 68; 70     |

Typical order/Sposób zamawiania: 0642 566 101 409 lub 6610-5-63-70



**Type 6680**

**SPRING COLLETS**  
**TULEJKI ROZPRĘŻNE**


**DIN 228**

| Code No / Kod Nr | D  | B    | K  | Code No / Kod Nr | D  | B    | K  |
|------------------|----|------|----|------------------|----|------|----|
| 0642 566 800 205 | 12 | 9,7  | 22 | 0642 566 802 400 | 34 | 25,6 | 48 |
| 0642 566 800 307 | 13 | 9,7  | 22 | 0642 566 802 502 | 35 | 25,6 | 48 |
| 0642 566 800 409 | 14 | 9,7  | 22 | 0642 566 802 604 | 36 | 25,6 | 48 |
| 0642 566 800 500 | 15 | 11,7 | 27 | 0642 566 802 808 | 38 | 25,6 | 48 |
| 0642 566 800 602 | 16 | 11,7 | 27 | 0642 566 803 004 | 40 | 31,6 | 54 |
| 0642 566 800 704 | 17 | 11,7 | 27 | 0642 566 803 208 | 42 | 31,6 | 54 |
| 0642 566 800 806 | 18 | 11,7 | 27 | 0642 566 803 401 | 44 | 31,6 | 54 |
| 0642 566 800 908 | 19 | 14,7 | 32 | 0642 566 803 503 | 45 | 31,6 | 54 |
| 0642 566 801 002 | 20 | 14,7 | 32 | 0642 566 803 605 | 46 | 37,6 | 60 |
| 0642 566 801 104 | 21 | 14,7 | 32 | 0642 566 803 809 | 48 | 37,6 | 60 |
| 0642 566 801 206 | 22 | 14,7 | 32 | 0642 566 804 005 | 50 | 37,6 | 60 |
| 0642 566 801 308 | 23 | 17,7 | 37 | 0642 566 804 209 | 52 | 37,6 | 60 |
| 0642 566 801 400 | 24 | 17,7 | 37 | 0642 566 804 504 | 55 | 44,5 | 70 |
| 0642 566 801 501 | 25 | 17,7 | 37 | 0642 566 804 800 | 58 | 44,5 | 70 |
| 0642 566 801 603 | 26 | 17,7 | 37 | 0642 566 805 006 | 60 | 44,5 | 70 |
| 0642 566 801 705 | 27 | 17,7 | 37 | 0642 566 805 200 | 63 | 51,5 | 80 |
| 0642 566 801 807 | 28 | 21,7 | 42 | 0642 566 805 505 | 65 | 51,5 | 80 |
| 0642 566 802 003 | 30 | 21,7 | 42 | 0642 566 805 800 | 68 | 51,5 | 80 |
| 0642 566 802 207 | 32 | 21,7 | 42 | 0642 566 806 007 | 70 | 51,5 | 80 |
| 0642 566 802 309 | 33 | 25,6 | 48 |                  |    |      |    |

Typical order/Sposób zamawiania: 0642 566 800 205 lub 6680-12

## Type 7430

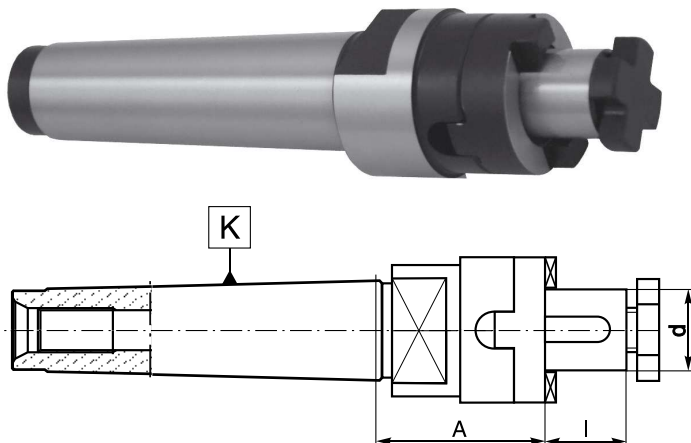
## DIN 228

### COMBINATION SHELL MILL ADAPTERS

for cutters with keyway or driving slot DIN 138

### TRZPIENIE FREZARSKIE UNIWERSALNE

do frezów z rowkiem wpustowym lub rowkiem zabierakowym DIN 138



| Code No / Kod Nr | K Morse | d  | A  | I  |          |          |          |
|------------------|---------|----|----|----|----------|----------|----------|
| 0642 174 322 201 | 2       | 16 | 46 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 302 205 |         | 16 | 61 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 322 303 |         | 22 | 46 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 302 307 |         | 22 | 61 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 323 202 | 3       | 16 | 48 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 303 206 |         | 16 | 63 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 323 304 |         | 22 | 48 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 303 308 |         | 22 | 63 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 323 406 |         | 27 | 48 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 174 303 400 |         | 27 | 63 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 174 303 501 |         | 32 | 63 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 174 324 203 | 4       | 16 | 55 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 304 207 |         | 16 | 70 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 324 305 |         | 22 | 55 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 304 309 |         | 22 | 70 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 324 407 |         | 27 | 55 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 174 304 400 |         | 27 | 70 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 174 324 509 |         | 32 | 55 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 174 304 502 |         | 32 | 70 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 174 304 604 |         | 40 | 70 | 27 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 174 305 208 | 5       | 16 | 75 | 17 | U-0620/0 | U-1364/0 | U-1355/0 |
| 0642 174 305 300 |         | 22 | 75 | 19 | U-0621/0 | U-1365/0 | U-1356/0 |
| 0642 174 305 401 |         | 27 | 75 | 21 | U-0622/0 | U-1366/0 | U-1357/0 |
| 0642 174 305 503 |         | 32 | 75 | 24 | U-0623/0 | U-1367/0 | U-1358/0 |
| 0642 174 305 605 |         | 40 | 75 | 27 | U-0624/0 | U-1368/0 | U-1359/0 |
| 0642 174 305 707 |         | 50 | 75 | 30 | U-0625/0 | U-1369/0 | U-1360/0 |

Typical order/Sposób zamawiania: 0642 174 305 707 lub 7430-5-50-75

## 5

## Type 7450

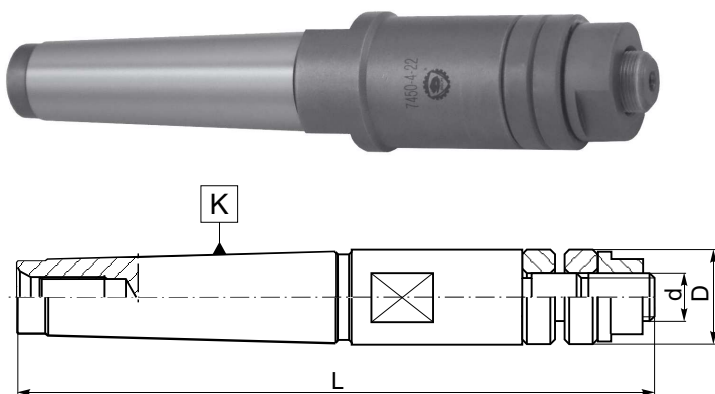
## DIN 228

### MILLING ARBORS

for disk milling cutters

### TRZPIENIE FREZARSKIE

do frezów piłkowych



| Code No / Kod Nr | K Morse | d  | D   | L     |
|------------------|---------|----|-----|-------|
| 0642 174 502 108 | 2       | 5  | 10  | 105.0 |
| 0642 174 502 200 |         | 8  | 15  | 125.0 |
| 0642 174 502 301 |         | 10 | 20  | 135.0 |
| 0642 174 503 404 | 3       | 13 | 25  | 165.0 |
| 0642 174 503 506 |         | 16 | 32  | 180.0 |
| 0642 174 504 609 | 4       | 22 | 40  | 215.5 |
| 0642 174 504 700 |         | 27 | 50  | 220.5 |
| 0642 174 504 802 |         | 32 | 63  | 225.5 |
| 0642 174 504 904 |         | 40 | 80  | 235.5 |
| 0642 174 505 905 | 5       | 50 | 100 | 282.0 |

Typical order/Sposób zamawiania: 0642 174 502 108 lub 7450-2-5

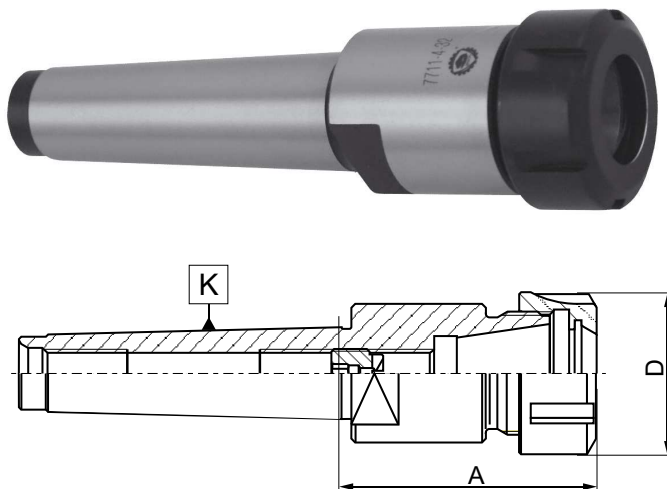
## Type 7711

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## DIN 228

| Code No / Kod Nr | K Morse | Collet Tulejka | A    | Capacity Zakres | D  |         |              |
|------------------|---------|----------------|------|-----------------|----|---------|--------------|
| 0642 177 112 017 | 2       | ER16           | 43,5 | 2-10            | 32 | 9833-16 | M10x11LH     |
| 0642 177 112 119 |         | ER20           | 47,5 | 2-13            | 35 | 9833-20 | M10x11LH     |
| 0642 177 112 124 |         | ER25           | 57,0 | 2-16            | 42 | 9833-25 | M10x11LH     |
| 0642 177 112 150 |         | ER32           | 65,5 | 2-20            | 50 | 9833-32 | M10x11LH     |
| 0642 177 112 190 | 3       | ER16           | 43,5 | 2-10            | 32 | 9833-16 | M12x1,5x14LH |
| 0642 177 112 210 |         | ER20           | 45,5 | 2-13            | 35 | 9833-20 | M12x1,5x14LH |
| 0642 177 112 292 |         | ER25           | 68,0 | 2-16            | 42 | 9833-25 | M12x1,5x14LH |
| 0642 177 112 325 |         | ER32           | 73,5 | 2-20            | 50 | 9833-32 | M12x1,5x14LH |
| 0642 177 112 414 | 4       | ER25           | 54,5 | 2-16            | 42 | 9833-25 | M18x1,5x19LH |
| 0642 177 112 516 |         | ER32           | 84,0 | 2-20            | 50 | 9833-32 | M18x1,5x19LH |
| 0642 177 112 618 | 5       | ER32           | 65,5 | 2-20            | 50 | 9833-32 | M22x1,5x24LH |
| 0642 177 112 707 |         | ER40           | 67,5 | 3-26            | 63 | 9833-40 | M22x1,5x24LH |

Typical order/Sposób zamawiania: 0642 177 112 516 lub 7711-4-32-84

#### Standard accessories:

Nut - page 151  
screw

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkret

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7711

### COLLET CHUCKS ER - SET

for tool with cylindrical shank

### OPRAWKI ZACISKOWE ER - KOMPLET

do narzędzi z chwytem walcowym



## DIN 228

| Code No / Kod Nr | K Morse | Collet Tulejka | A    | Capacity Zakres | Full set pieces Ilość tulejek |
|------------------|---------|----------------|------|-----------------|-------------------------------|
| 0642 177 112 004 | 2       | ER16           | 43,5 | 2-10            | 8                             |
| 0642 177 112 106 |         | ER20           | 47,5 | 2-13            | 11                            |
| 0642 177 112 147 |         | ER32           | 65,5 | 2-20            | 18                            |
| 0642 177 112 188 | 3       | ER16           | 43,5 | 2-10            | 8                             |
| 0642 177 112 208 |         | ER20           | 45,5 | 2-13            | 11                            |
| 0642 177 112 300 |         | ER25           | 68   | 2-16            | 14                            |
| 0642 177 112 312 |         | ER32           | 73,5 | 2-20            | 18                            |
| 0642 177 112 401 | 4       | ER25           | 54,5 | 2-16            | 14                            |
| 0642 177 112 503 |         | ER32           | 84   | 2-20            | 18                            |
| 0642 177 112 605 | 5       | ER32           | 65,5 | 2-20            | 18                            |
| 0642 177 112 707 |         | ER40           | 67,5 | 2-26            | 24                            |

## Type 7711-PL

| Code No / Kod Nr | K Morse | Collet Tulejka                | A    | Capacity Zakres | Full set pieces Ilość tulejek |
|------------------|---------|-------------------------------|------|-----------------|-------------------------------|
| 0642 177 113 209 | 3       | ER32                          | 73,5 | 3-20            | 8                             |
|                  |         | Tulejki Ø 4,5,6,8,10,12,16,20 |      |                 |                               |
| 0642 177 113 402 | 4       | ER32                          | 84   | 3-20            | 8                             |
|                  |         | Tulejki Ø 4,5,6,8,10,12,16,20 |      |                 |                               |
| 0642 177 113 606 | 5       | ER32                          | 65,5 | 3-20            | 8                             |
|                  |         | Tulejki Ø 4,5,6,8,10,12,16,20 |      |                 |                               |

## Type 7720

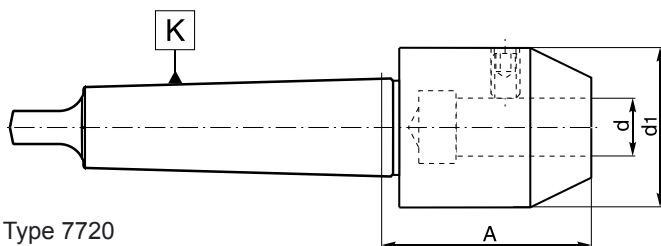
### END MILL ADAPTORS

for cutters with cylindrical shank and weldon flat DIN 1835-B

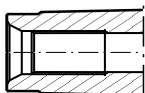
### OPRAWKI ZACISKOWE

do narzędzi z chwytem walcowym DIN 1835-B

## Type 7721



Type 7720



Type 7721

## DIN 228

### Type 7720 Type 7721

| Code No / Kod Nr | Code No / Kod Nr | K Morse | d  | d1 | A    |          |
|------------------|------------------|---------|----|----|------|----------|
| 0642 177 222 305 | 0642 177 232 303 | 2       | 6  | 25 | 50,0 | U-4131/0 |
| 0642 177 222 407 | 0642 177 232 405 |         | 8  | 28 | 50,0 | U-4132/0 |
| 0642 177 222 509 | 0642 177 232 507 |         | 10 | 35 | 55,0 | U-4133/0 |
| 0642 177 222 600 | 0642 177 232 609 |         | 12 | 42 | 68,0 | U-4134/0 |
| 0642 177 222 702 | 0642 177 232 700 |         | 16 | 48 | 70,0 | U-4135/0 |
|                  |                  |         |    |    |      |          |
| 0642 177 223 306 | 0642 177 233 304 | 3       | 6  | 25 | 50,0 | U-4131/0 |
| 0642 177 223 408 | 0642 177 233 406 |         | 8  | 28 | 50,0 | U-4132/0 |
| 0642 177 223 500 | 0642 177 233 508 |         | 10 | 35 | 55,0 | U-4133/0 |
| 0642 177 223 601 | 0642 177 233 600 |         | 12 | 42 | 68,0 | U-4134/0 |
| 0642 177 223 703 | 0642 177 233 701 |         | 16 | 48 | 76,0 | U-4135/0 |
| 0642 177 223 805 | 0642 177 233 803 |         | 20 | 52 | 76,0 | U-4136/0 |
|                  |                  |         |    |    |      |          |
| 0642 177 224 307 | 0642 177 234 305 | 4       | 6  | 25 | 51,5 | U-4131/0 |
| 0642 177 224 409 | 0642 177 234 407 |         | 8  | 28 | 51,5 | U-4132/0 |
| 0642 177 224 500 | 0642 177 234 509 |         | 10 | 35 | 56,5 | U-4133/0 |
| 0642 177 224 602 | 0642 177 234 600 |         | 12 | 42 | 62,5 | U-4134/0 |
| 0642 177 224 704 | 0642 177 234 702 |         | 16 | 48 | 62,5 | U-4135/0 |
| 0642 177 224 806 | 0642 177 234 804 |         | 20 | 52 | 77,5 | U-4136/0 |
|                  |                  |         |    |    |      |          |
| 0642 177 225 308 | 0642 177 235 306 | 5       | 6  | 25 | 51,5 | U-4131/0 |
| 0642 177 225 400 | 0642 177 235 408 |         | 8  | 28 | 51,5 | U-4132/0 |
| 0642 177 225 501 | 0642 177 235 500 |         | 10 | 35 | 62,5 | U-4133/0 |
| 0642 177 225 603 | 0642 177 235 601 |         | 12 | 42 | 69,5 | U-4134/0 |
| 0642 177 225 705 | 0642 177 235 703 |         | 16 | 48 | 69,5 | U-4135/0 |
| 0642 177 225 807 | 0642 177 235 805 |         | 20 | 52 | 69,5 | U-4136/0 |

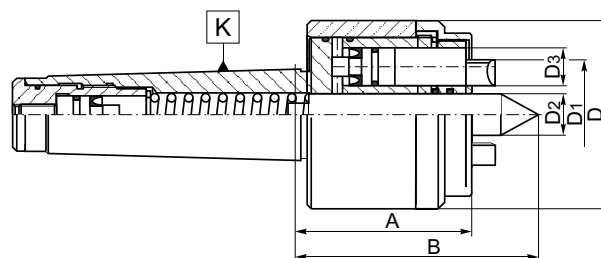
Typical order/Sposób zamawiania: 0642 177 222 305 lub 7720-2-6

## Type 8410

### HYDRAULIC FACE DRIVERS

ZABIERAKI CZOŁOWE HYDRAULICZNE

## DIN 228



| Code No / Kod Nr | D1 | K Morse | D   | D2 | D3 | A  | B   | Concentr. error max<br>Bicie max. | Workpiece weight kg<br>Max.masa przed.obr. | R- Right | L-Left   |
|------------------|----|---------|-----|----|----|----|-----|-----------------------------------|--------------------------------------------|----------|----------|
| 0642 584 101 305 | 27 | 4       | 68  | 12 | 12 | 64 | 80  | 0,02                              | 55                                         | S-2084/0 | S-2084/1 |
| 0642 584 101 407 |    | 5       | 68  | 12 | 12 | 64 | 80  | 0,02                              | 55                                         | S-2084/0 | S-2084/1 |
|                  |    |         |     |    |    |    |     |                                   |                                            |          |          |
| 0642 584 104 308 | 40 | 4       | 81  | 14 | 12 | 67 | 84  | 0,02                              | 65                                         | S-2031/0 | S-2031/1 |
| 0642 584 104 400 |    | 5       | 81  | 14 | 12 | 67 | 84  | 0,02                              | 65                                         | S-2031/0 | S-2031/1 |
|                  |    |         |     |    |    |    |     |                                   |                                            |          |          |
| 0642 584 105 309 | 50 | 5       | 90  | 20 | 18 | 86 | 113 | 0,03                              | 100                                        | S-2041/0 | S-2041/1 |
|                  |    |         |     |    |    |    |     |                                   |                                            |          |          |
| 0642 584 106 401 | 63 | 5       | 100 | 20 | 18 | 86 | 113 | 0,03                              | 100                                        | S-2242/0 | S-2243/0 |

Typical order/Sposób zamawiania: 0642 584 101 305 lub 8410-27-4-L

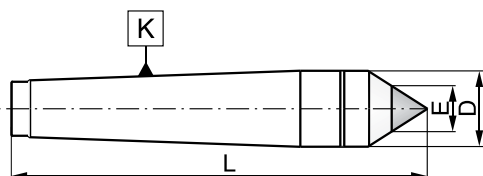
## Type 8711

### 60° DEAD CENTRES

external - carbide tipped

### KŁY STAŁE 60°

zewnętrzne z końcówką z węglików spiekanych


**DIN 228**

| Code No / Kod Nr | K Morse | L   | D    | E  |
|------------------|---------|-----|------|----|
| 0642 587 110 200 | 0       | 70  | 9,2  | 5  |
| 0642 587 110 200 | 1       | 80  | 12,2 | 7  |
| 0642 587 112 201 | 2       | 100 | 18,0 | 7  |
| 0642 587 113 202 | 3       | 125 | 24,1 | 11 |
| 0642 587 114 203 | 4       | 160 | 31,6 | 14 |
| 0642 587 115 204 | 5       | 200 | 44,7 | 18 |
| 0642 587 116 205 | 6       | 270 | 63,8 | 18 |

- Carbide tipped
- Końcówka z węglików spiek.

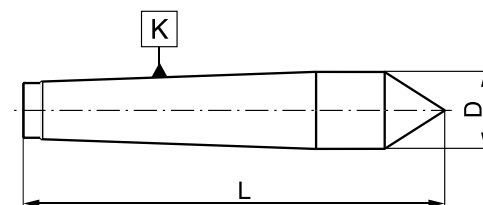
## Type 8712

### 60° DEAD CENTRES

external

### KŁY STAŁE 60°

zewnętrzne


**DIN 228**

| Code No / Kod Nr | K Morse | L   | D    |
|------------------|---------|-----|------|
| 0642 587 120 300 | 0       | 70  | 9,2  |
| 0642 587 121 300 | 1       | 80  | 12,2 |
| 0642 587 122 301 | 2       | 100 | 18,0 |
| 0642 587 123 302 | 3       | 125 | 24,1 |
| 0642 587 124 303 | 4       | 160 | 31,6 |
| 0642 587 125 304 | 5       | 200 | 44,7 |
| 0642 587 126 305 | 6       | 270 | 63,8 |
| 0642 587 127 306 | 7       | 360 | 83,5 |

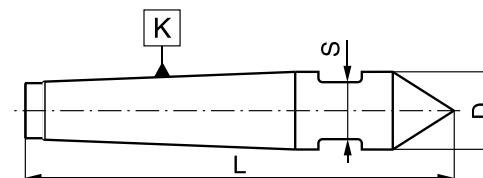
## Type 8720

### 60° DEAD CENTRES

external with spanner flats

### KŁY STAŁE 60°

zewnętrzne z płaską pod klucz


**DIN 228**

| Code No / Kod Nr | K Morse | L   | D    | S  |
|------------------|---------|-----|------|----|
| 0642 587 200 107 | 0       | 78  | 9,2  | 7  |
| 0642 587 201 108 | 1       | 90  | 12,2 | 10 |
| 0642 587 202 109 | 2       | 112 | 18,0 | 13 |
| 0642 587 203 100 | 3       | 138 | 24,1 | 19 |
| 0642 587 204 100 | 4       | 175 | 31,6 | 24 |
| 0642 587 205 101 | 5       | 217 | 44,7 | 36 |
| 0642 587 206 102 | 6       | 290 | 63,8 | 55 |

## Type 8721

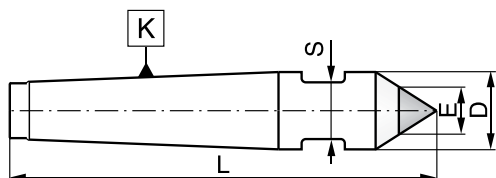
**DIN 228**

### 60° DEAD CENTRES

external with spanner flats - carbide tipped

### KŁY STAŁE 60°

zewnętrzne z płaską pod klucz i końcówką z węglików spiekanych



| Code No / Kod Nr | K Morse | L   | D    | E  | S  |
|------------------|---------|-----|------|----|----|
| 0642 587 210 207 | 0       | 78  | 9,2  | 5  | 7  |
| 0642 587 211 208 | 1       | 90  | 12,2 | 7  | 10 |
| 0642 587 212 209 | 2       | 112 | 18,0 | 7  | 13 |
| 0642 587 213 200 | 3       | 138 | 24,1 | 11 | 19 |
| 0642 587 214 200 | 4       | 175 | 31,6 | 14 | 24 |
| 0642 587 215 201 | 5       | 217 | 44,7 | 18 | 36 |
| 0642 587 216 202 | 6       | 290 | 63,8 | 18 | 55 |

- Carbide tipped
- Końcówka z węglików spiek.

## Type 8725

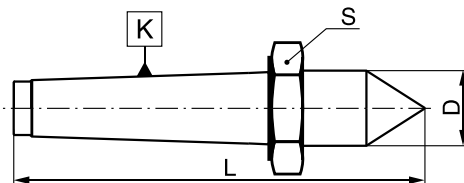
**DIN 228**

### 60° DEAD CENTRES

external with nut

### KŁY STAŁE 60°

zewnętrzne z nakrętką



| Code No / Kod Nr | K Morse | L   | D    | S   |          |
|------------------|---------|-----|------|-----|----------|
| 0642 587 250 108 | 0       | 78  | 9,2  | 19  | S-0772/0 |
| 0642 587 251 109 | 1       | 90  | 12,2 | 24  | S-0774/0 |
| 0642 587 252 100 | 2       | 112 | 18,0 | 32  | S-0776/0 |
| 0642 587 253 100 | 3       | 138 | 24,1 | 41  | S-0778/0 |
| 0642 587 254 101 | 4       | 175 | 31,6 | 55  | S-0780/0 |
| 0642 587 255 102 | 5       | 217 | 44,7 | 75  | S-0782/0 |
| 0642 587 256 103 | 6       | 290 | 63,8 | 100 | S-0784/0 |

## Type 8726

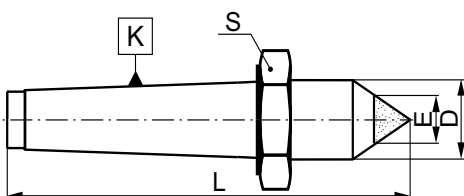
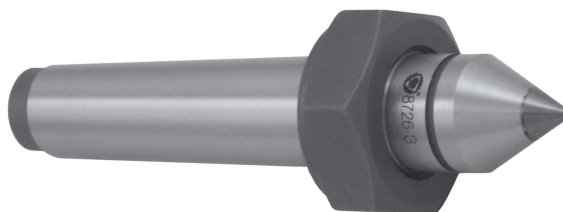
**DIN 228**

### 60° DEAD CENTRES

external with nut - carbide tipped

### KŁY STAŁE 60°

zewnętrzne z nakrętką i końcówką z węglików spiekanych



| Code No / Kod Nr | K Morse | L   | D    | E  | S   |          |
|------------------|---------|-----|------|----|-----|----------|
| 0642 587 260 208 | 0       | 78  | 9,2  | 5  | 19  | S-0772/0 |
| 0642 587 261 209 | 1       | 90  | 12,2 | 7  | 24  | S-0774/0 |
| 0642 587 262 200 | 2       | 112 | 18,0 | 7  | 32  | S-0776/0 |
| 0642 587 263 200 | 3       | 138 | 24,1 | 11 | 41  | S-0778/0 |
| 0642 587 264 201 | 4       | 175 | 31,6 | 14 | 55  | S-0780/0 |
| 0642 587 265 202 | 5       | 217 | 44,7 | 18 | 75  | S-0782/0 |
| 0642 587 266 203 | 6       | 290 | 63,8 | 18 | 100 | S-0784/0 |

- Carbide tipped
- Końcówka z węglików spiek.

## Type 8727

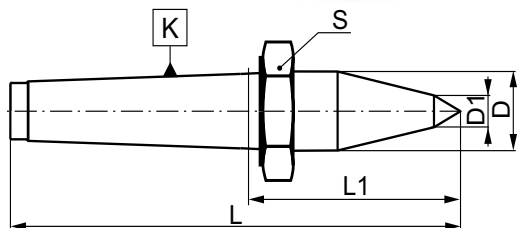
**60° DEAD CENTRES**

external extension with nut

**KŁY STAŁE 60°**

zewnętrzne wydłużone z nakrętką

**NOWOŚĆ**



| Code No / Kod Nr | K Morse | L   | L1  | D  | D1 | S  |          |
|------------------|---------|-----|-----|----|----|----|----------|
| 0642 587 272 004 | 2       | 118 | 54  | 18 | 10 | 32 | S-0776/0 |
| 0642 587 273 005 | 3       | 148 | 67  | 24 | 12 | 41 | S-0778/0 |
| 0642 587 274 006 | 4       | 186 | 84  | 32 | 14 | 55 | S-0780/0 |
| 0642 587 275 007 | 5       | 242 | 112 | 45 | 16 | 75 | S-0782/0 |

**DIN 228**

## Type 8728

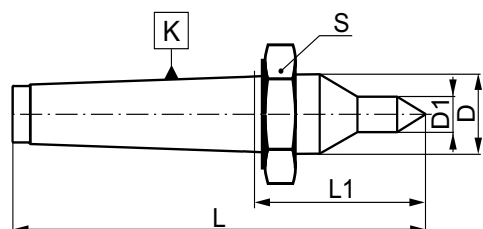
**60° DEAD CENTRES**

external extension with nut

**KŁY STAŁE 60°**

zewnętrzne wydłużone z nakrętką

**NOWOŚĆ**



| Code No / Kod Nr | K Morse | L   | L1  | D  | D1 | S  |          |
|------------------|---------|-----|-----|----|----|----|----------|
| 0642 587 282 002 | 2       | 118 | 54  | 18 | 8  | 32 | S-0776/0 |
| 0642 587 283 003 | 3       | 148 | 67  | 24 | 10 | 41 | S-0778/0 |
| 0642 587 284 004 | 4       | 186 | 84  | 32 | 12 | 55 | S-0780/0 |
| 0642 587 285 005 | 5       | 242 | 112 | 45 | 14 | 75 | S-0782/0 |

**DIN 228**

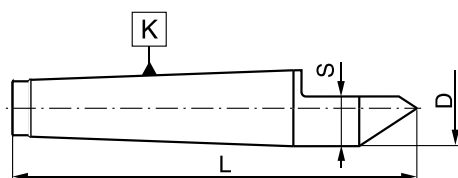
## Type 8730

**60° DEAD CENTRES**

external with chamfer

**KŁY STAŁE 60°**

zewnętrzne ze ścięciem



| Code No / Kod Nr | K Morse | L   | D    | S    |
|------------------|---------|-----|------|------|
| 0642 587 300 104 | 0       | 70  | 9,2  | 5,6  |
| 0642 587 301 105 | 1       | 80  | 12,2 | 7,6  |
| 0642 587 302 106 | 2       | 100 | 18,0 | 11,0 |
| 0642 587 303 107 | 3       | 125 | 24,1 | 15,0 |
| 0642 587 304 108 | 4       | 160 | 31,6 | 20,8 |
| 0642 587 305 109 | 5       | 200 | 44,7 | 29,3 |
| 0642 587 306 100 | 6       | 270 | 63,8 | 42,6 |

**DIN 228**



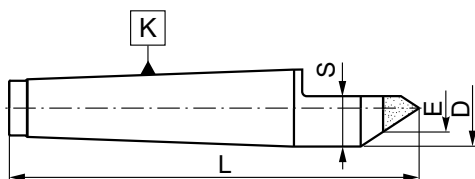
## Type 8731

### 60° DEAD CENTRES

external with chamfer - carbide tipped

### KŁY STAŁE 60°

zewnątrzne ze ścięciem i końcówką z węglików spiekanych



## DIN 228

| Code No / Kod Nr | K Morse | L   | D    | E  | S    |
|------------------|---------|-----|------|----|------|
| 0642 587 310 204 | 0       | 70  | 9,2  | 5  | 7,8  |
| 0642 587 311 205 | 1       | 80  | 12,2 | 7  | 10,3 |
| 0642 587 312 206 | 2       | 100 | 18,0 | 7  | 13,0 |
| 0642 587 313 207 | 3       | 125 | 24,1 | 11 | 18,3 |
| 0642 587 314 208 | 4       | 160 | 31,6 | 14 | 23,5 |
| 0642 587 315 209 | 5       | 200 | 44,7 | 18 | 32,0 |
| 0642 587 316 200 | 6       | 270 | 63,8 | 18 | 41,7 |

- Carbide tipped
- Końcówka z węglików spiek.

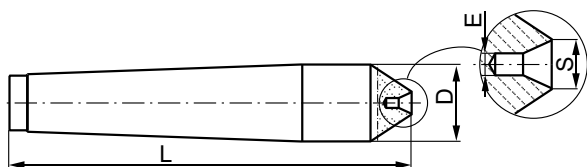
## Type 8735

### 60° DEAD CENTRES

internal

### KŁY STAŁE 60°

wewnętrzne



## DIN 228

| Code No / Kod Nr | K Morse | L   | D    | E   | S     |
|------------------|---------|-----|------|-----|-------|
| 0642 587 350 105 | 0       | 66  | 9,2  | 1,0 | 2,12  |
| 0642 587 351 106 | 1       | 74  | 12,2 | 1,6 | 3,35  |
| 0642 587 352 107 | 2       | 94  | 18,0 | 2,5 | 5,30  |
| 0642 587 353 108 | 3       | 115 | 24,1 | 4,0 | 8,50  |
| 0642 587 354 109 | 4       | 146 | 31,6 | 6,3 | 13,20 |

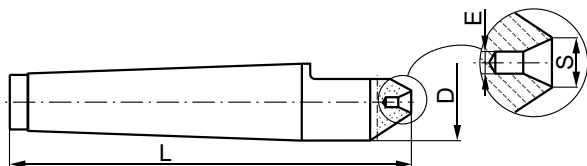
## Type 8740

### 60° DEAD CENTRES

internal with chamfer

### KŁY STAŁE 60°

wewnętrzne ze ścięciem



## DIN 228

| Code No / Kod Nr | K Morse | L   | D    | E   | S    |
|------------------|---------|-----|------|-----|------|
| 0642 587 400 101 | 0       | 66  | 9,2  | 1,0 | 2,20 |
| 0642 587 401 102 | 1       | 74  | 12,2 | 1,6 | 3,35 |
| 0642 587 402 103 | 2       | 94  | 18,0 | 2,5 | 5,30 |
| 0642 587 403 104 | 3       | 115 | 24,1 | 4,0 | 8,50 |

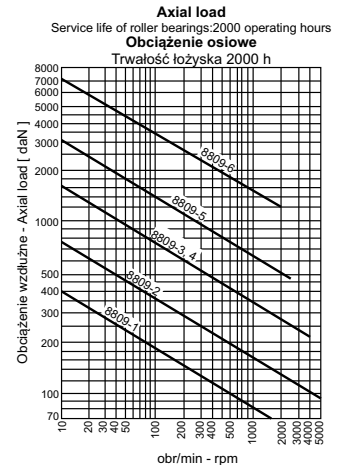
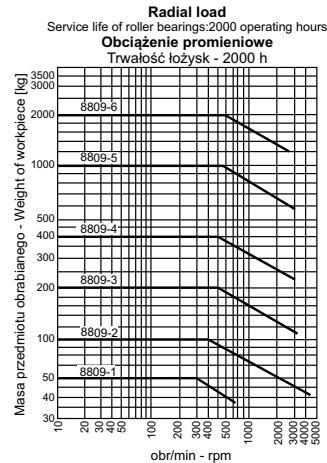
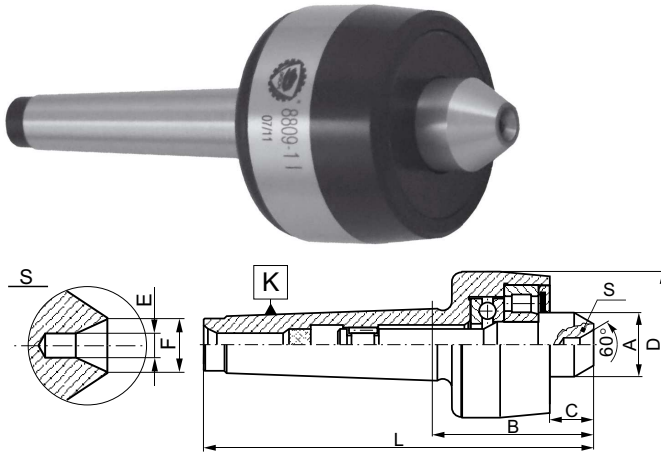
## Type 8809

### LIVE CENTRES

internal tipped

### KŁY TOKARSKIE OBROTOWE

z końcówką wewnętrzną



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm.<br>obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D   | L    | E    | F    |
|------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-----|------|------|------|
|            |                                                                |                                                  |                                       |                  |                                       |                  |      |       |      |     |      |      |      |
|            |                                                                |                                                  |                                       | precision        |                                       | standard         |      |       |      |     |      |      |      |
| 1          | 50                                                             | 5000                                             | 0,005                                 | 0642 588 091 103 | 0,008                                 | 0642 588 091 205 | 15   | 44,0  | 11,5 | 38  | 97,5 | 1,6  | 3,35 |
| 2          | 100                                                            | 5000                                             | 0,003                                 | 0642 588 092 104 | 0,008                                 | 0642 588 092 206 | 18   | 51,0  | 16,0 | 40  | 115  | 2,5  | 5,3  |
| 3          | 200                                                            | 4000                                             | 0,003                                 | 0642 588 093 105 | 0,008                                 | 0642 588 093 207 | 25   | 66,0  | 18,5 | 56  | 147  | 4,0  | 8,5  |
| 4          | 400                                                            | 3000                                             | 0,003                                 | 0642 588 094 106 | 0,008                                 | 0642 588 094 208 | 32   | 71,0  | 19,5 | 64  | 173  | 6,3  | 13,2 |
| 5          | 1000                                                           | 2500                                             | 0,005                                 | 0642 588 095 107 | 0,010                                 | 0642 588 095 209 | 40   | 94,5  | 31,0 | 85  | 224  | 6,3  | 13,2 |
| 6          | 2000                                                           | 2000                                             | 0,005                                 | 0642 588 096 108 | 0,010                                 | 0642 588 096 200 | 62,4 | 131,0 | 44,0 | 130 | 313  | 10,0 | 21,2 |

Typical order (precision)/Sposób zamawiania: 0642 588 091 103 lub 8809-1-P

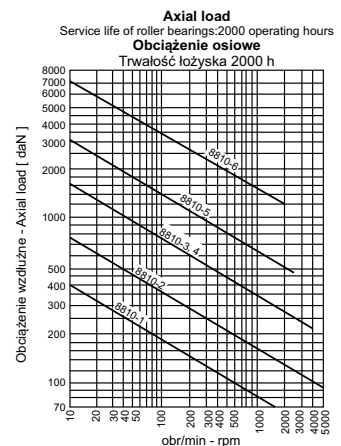
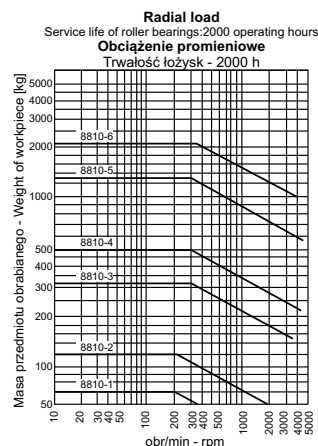
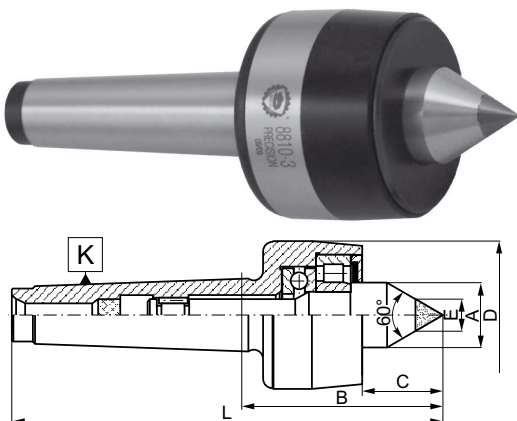
## Type 8810

### LIVE CENTRES

carbide tipped

### KŁY TOKARSKIE OBROTOWE

z końcówką z węglików spiekanych



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm.<br>obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D   | E  | L     |
|------------|----------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-----|----|-------|
|            |                                                                |                                                  |                                       |                  |                                       |                  |      |       |      |     |    |       |
|            |                                                                |                                                  |                                       | precision        |                                       | standard         |      |       |      |     |    |       |
| 1          | 60                                                             | 5000                                             | 0,005                                 | 0642 588 101 107 | 0,008                                 | 0642 588 101 209 | 15   | 49,5  | 17,0 | 38  | 7  | 103,0 |
| 2          | 120                                                            | 5000                                             | 0,003                                 | 0642 588 102 108 | 0,008                                 | 0642 588 102 200 | 18   | 56,5  | 21,5 | 40  | 7  | 120,5 |
| 3          | 320                                                            | 4000                                             | 0,003                                 | 0642 588 103 109 | 0,008                                 | 0642 588 103 200 | 25   | 75,0  | 27,5 | 56  | 11 | 156,0 |
| 4          | 500                                                            | 3000                                             | 0,003                                 | 0642 588 104 100 | 0,008                                 | 0642 588 104 201 | 32   | 85,0  | 33,5 | 64  | 14 | 187,0 |
| 5          | 1250                                                           | 2500                                             | 0,005                                 | 0642 588 105 100 | 0,010                                 | 0642 588 105 202 | 40   | 108,0 | 44,0 | 85  | 18 | 237,0 |
| 6          | 2200                                                           | 2000                                             | 0,005                                 | 0642 588 106 101 | 0,010                                 | 0642 588 106 203 | 62,4 | 151,5 | 64,0 | 130 | 18 | 333,5 |

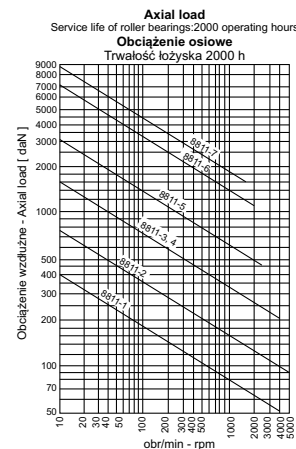
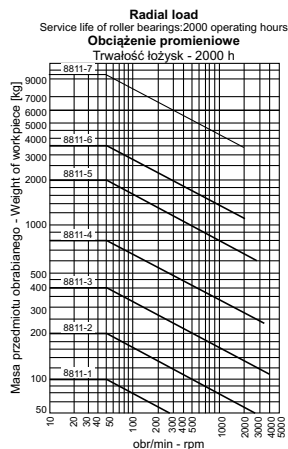
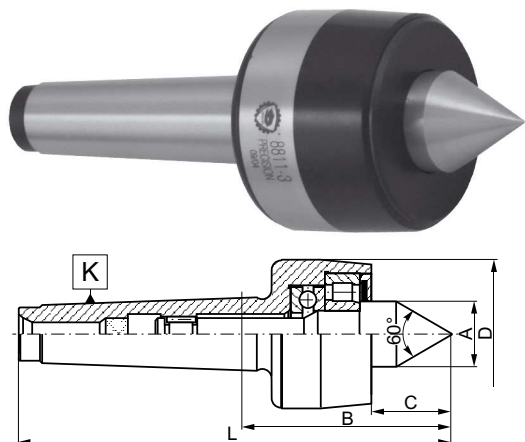
Typical order (standard)/Sposób zamawiania: 0642 588 101 209 lub 8810-1

## Type 8811

## DIN 228

### LIVE CENTRES

### KŁY TOKARSKIE OBROTOWE



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm.<br>obr. kg | Speed max.<br>min <sup>-1</sup><br>Max. prędk.<br>obr. min <sup>-1</sup> | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D   | L     |
|------------|----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-----|-------|
|            |                                                                |                                                                          |                                       | precision        |                                       | standard         |      |       |      |     |       |
| 1          | 100                                                            | 5000                                                                     | 0,005                                 | 0642 588 111 105 | 0,008                                 | 0642 588 111 207 | 15   | 49,5  | 17,0 | 38  | 103,0 |
| 2          | 210                                                            | 5000                                                                     | 0,003                                 | 0642 588 112 106 | 0,008                                 | 0642 588 112 208 | 18   | 56,5  | 21,5 | 40  | 120,5 |
| 3          | 420                                                            | 4000                                                                     | 0,003                                 | 0642 588 113 107 | 0,008                                 | 0642 588 113 209 | 25   | 75,0  | 27,5 | 56  | 156,0 |
| 4          | 840                                                            | 3000                                                                     | 0,003                                 | 0642 588 114 108 | 0,008                                 | 0642 588 114 200 | 32   | 85,0  | 33,5 | 64  | 187,0 |
| 5          | 2000                                                           | 2500                                                                     | 0,005                                 | 0642 588 115 109 | 0,010                                 | 0642 588 115 200 | 40   | 108,0 | 44,0 | 85  | 237,0 |
| 6          | 3500                                                           | 2000                                                                     | 0,005                                 | 0642 588 116 100 | 0,010                                 | 0642 588 116 201 | 62,4 | 151,5 | 64,0 | 130 | 333,5 |
| 7          | 9500                                                           | 1000                                                                     | 0,012                                 | 0642 588 117 100 | 0,020                                 | 0642 588 117 202 | 75   | 196,5 | 73,5 | 150 | 447,0 |

Typical order (precision)/Sposób zamawiania: 0642 588 111 105 lub 8811-1-P

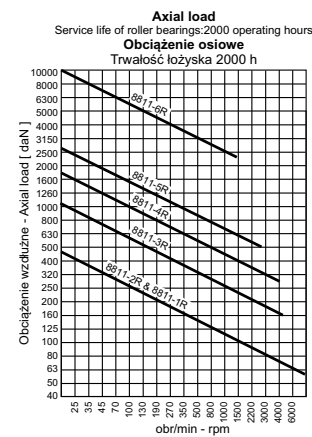
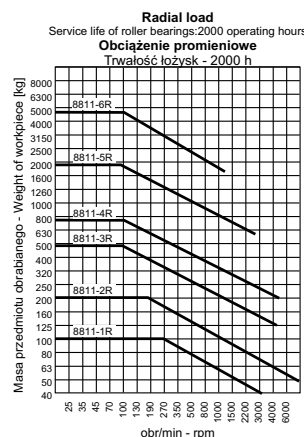
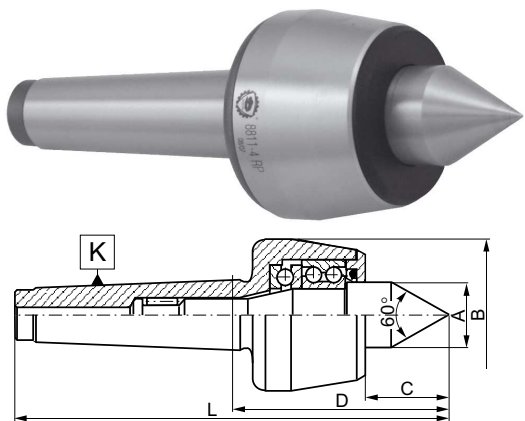
Typical order (standard)/Sposób zamawiania: 0642 588 111 207 lub 8811-1

## Type 8811R

## DIN 228

### LIVE CENTRES

### KŁY TOKARSKIE OBROTOWE



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm.<br>obr. kg | Speed max.<br>min <sup>-1</sup><br>Max. prędk.<br>obr. min <sup>-1</sup> | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D     | L     |
|------------|----------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-------|-------|
|            |                                                                |                                                                          |                                       | precision        |                                       | standard         |      |       |      |       |       |
| 1R         | 100                                                            | 7000                                                                     | ---                                   | ---              | 0,005                                 | 0642 688 111 201 | 15   | 36,0  | 17,0 | 60,5  | 114   |
| 2R         | 200                                                            | 7000                                                                     | 0,003                                 | 0642 688 112 100 | 0,005                                 | 0642 688 112 202 | 20   | 45,0  | 23,5 | 64,5  | 128,5 |
| 3RL        | 400                                                            | 6300                                                                     | 0,003                                 | 0642 688 113 053 | 0,005                                 | 0642 688 113 066 | 22   | 50,0  | 27,5 | 70,0  | 151   |
| 3R         | 500                                                            | 5000                                                                     | 0,003                                 | 0642 688 113 101 | 0,005                                 | 0642 688 113 203 | 25   | 60,0  | 30,5 | 79,0  | 160   |
| 4R         | 800                                                            | 3800                                                                     | 0,003                                 | 0642 688 114 102 | 0,005                                 | 0642 688 114 204 | 32   | 70,0  | 40,0 | 101,5 | 204   |
| 5R         | 2000                                                           | 3000                                                                     | 0,005                                 | 0642 688 115 103 | 0,005                                 | 0642 688 115 205 | 40   | 90,0  | 49,5 | 128   | 257,5 |
| 6R         | 3500                                                           | 2600                                                                     | ---                                   | ---              | 0,010                                 | 0642 688 116 206 | 50   | 105,0 | 57,5 | 152   | 334   |
| 6RC        | 5000                                                           | 1500                                                                     | ---                                   | ---              | 0,010                                 | 0642 688 116 250 | 62,4 | 140,0 | 67,0 | 194   | 376   |

Typical order (precision)/Sposób zamawiania: 0642 688 112 100 lub 8811-2RP

Typical order (standard)/Sposób zamawiania: 0642 688 112 202 lub 8811-2R

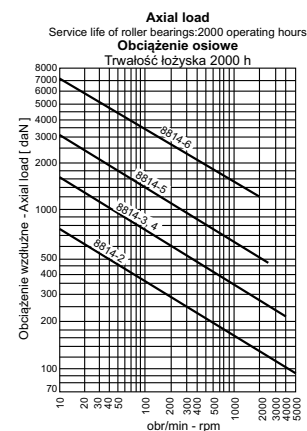
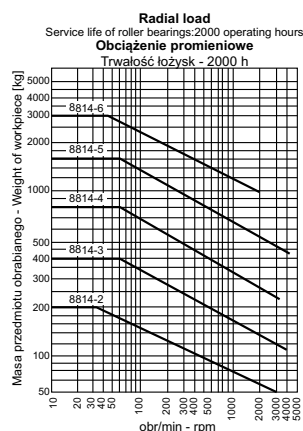
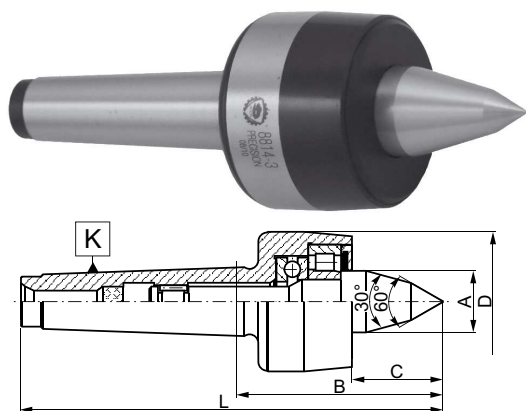
## Type 8814

### LIVE CENTRES

extension

### KŁY TOKARSKIE OBROTOWE

wydłużone



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D   | L     |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-----|-------|
|            |                                                             |                                                  | precision                             |                  | standard                              |                  |      |       |      |     |       |
| 2          | 200                                                         | 5000                                             | 0,008                                 | 0642 588 142 100 | 0,015                                 | 0642 588 142 202 | 18,0 | 64,5  | 29,5 | 40  | 128,5 |
| 3          | 400                                                         | 4000                                             | 0,008                                 | 0642 588 143 101 | 0,015                                 | 0642 588 143 203 | 25,0 | 88,0  | 40,5 | 56  | 169,0 |
| 4          | 800                                                         | 3000                                             | 0,008                                 | 0642 588 144 102 | 0,015                                 | 0642 588 144 204 | 32,0 | 103,0 | 51,5 | 64  | 205,0 |
| 5          | 1600                                                        | 2500                                             | 0,010                                 | 0642 588 145 103 | 0,020                                 | 0642 588 145 205 | 40,0 | 130,0 | 66,0 | 85  | 259,0 |
| 6          | 3000                                                        | 2000                                             | 0,010                                 | 0642 588 146 104 | 0,020                                 | 0642 588 146 206 | 62,4 | 178,0 | 92,0 | 130 | 360,5 |

Typical order (precision)/Sposób zamawiania: 0642 588 142 100 lub 8814-1-P

Typical order (standard)/Sposób zamawiania: 0642 588 142 202 lub 8814-1

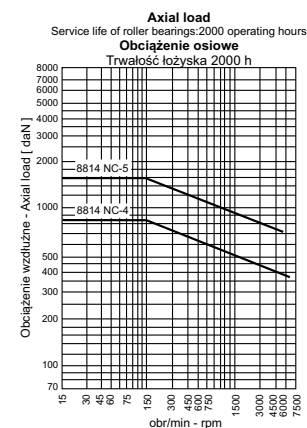
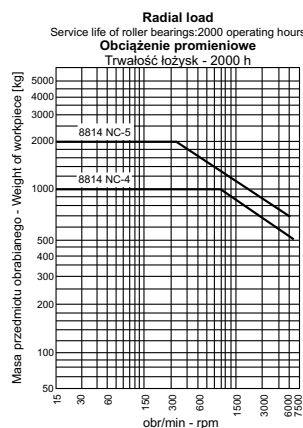
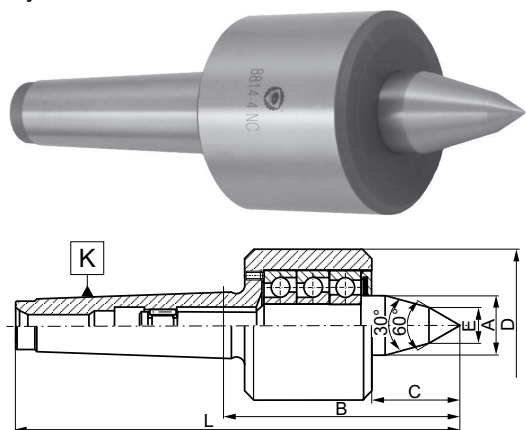
## Type 8814NC

### LIVE CENTRES

extension for NC lathes

### KŁY TOKARSKIE OBROTOWE

wydłużone do tokarek NC



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D  | E  | L     |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|----|----|-------|
|            |                                                             |                                                  | precision                             |                  | standard                              |                  |      |       |      |    |    |       |
| 4          | 1000                                                        | 7000                                             | 0,005                                 | 0642 588 147 309 | 0,010                                 | 0642 588 147 311 | 28,0 | 118,5 | 49   | 70 | 14 | 221,0 |
| 5          | 2000                                                        | 6000                                             | 0,005                                 | 0642 588 147 400 | 0,010                                 | 0642 588 147 413 | 40,0 | 150,5 | 67,5 | 95 | 16 | 280,0 |

Typical order (precision)/Sposób zamawiania: 0642 588 147 309 lub 8814-4NC-P

Typical order (standard)/Sposób zamawiania: 0642 588 147 311 lub 8814-1-4NC

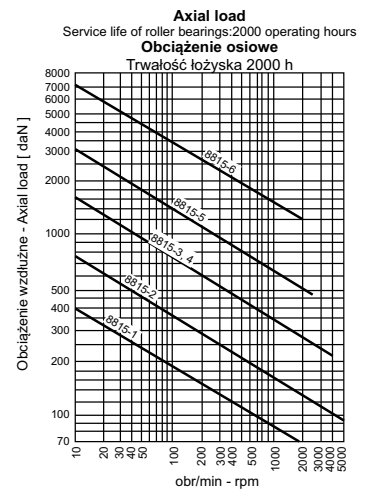
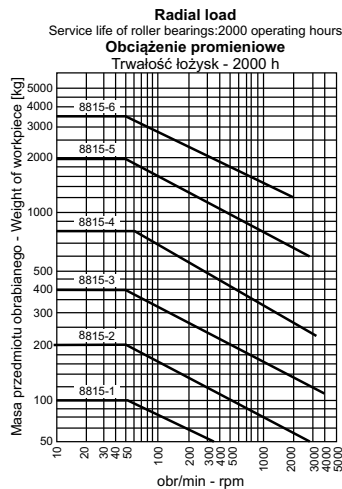
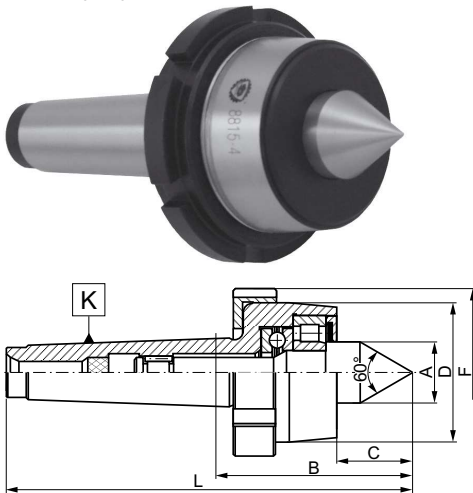
## Type 8815

### LIVE CENTRES

with nut

### KŁY TOKARSKIE OBROTOWE

z nakrętką



| K<br>Morse | Workpiece<br>weight max. kg  | Speed max.<br>min-1       | Concentr.<br>error max. | Code No / Kod Nr | Concentr.<br>error max. | Code No / Kod Nr | A    | B     | C    | D   | D1  | L     |
|------------|------------------------------|---------------------------|-------------------------|------------------|-------------------------|------------------|------|-------|------|-----|-----|-------|
|            | Max. masa<br>przedm. obr. kg | Max. prędk.<br>obr. min-1 | Bicie max.              |                  | Bicie max.              |                  |      |       |      |     |     |       |
|            | precision                    |                           |                         | standard         |                         |                  |      |       |      |     |     |       |
| 1          | 100                          | 5000                      | 0,005                   | 0642 588 151 108 | 0,008                   | 0642 588 151 200 | 15   | 49,5  | 17,0 | 38  | 50  | 103,0 |
| 2          | 210                          | 5000                      | 0,003                   | 0642 588 152 109 | 0,008                   | 0642 588 152 200 | 18   | 56,5  | 21,5 | 40  | 52  | 120,5 |
| 3          | 420                          | 4000                      | 0,003                   | 0642 588 153 100 | 0,008                   | 0642 588 153 201 | 25   | 75,0  | 27,5 | 56  | 68  | 156,0 |
| 4          | 840                          | 3000                      | 0,003                   | 0642 588 154 100 | 0,008                   | 0642 588 154 202 | 32   | 85,0  | 33,5 | 64  | 76  | 187,0 |
| 5          | 2000                         | 2500                      | 0,005                   | 0642 588 155 101 | 0,010                   | 0642 588 155 203 | 40   | 108,0 | 44,0 | 85  | 100 | 237,0 |
| 6          | 3500                         | 2000                      | 0,005                   | 0642 588 156 102 | 0,010                   | 0642 588 156 204 | 62.4 | 151.5 | 64,0 | 130 | 150 | 333.5 |

Typical order (precision)/Sposób zamawiania: 0642 588 151 108 lub 8815-1-P

Typical order (standard)/Sposób zamawiania: 0642 588 151 200 lub 8815-1

## Type 8815NC

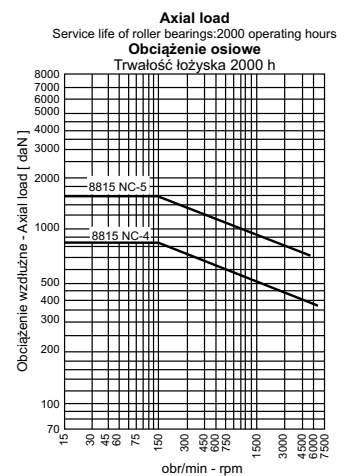
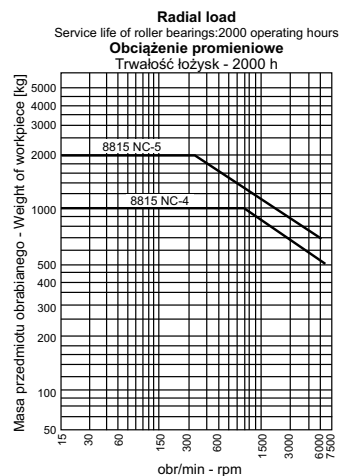
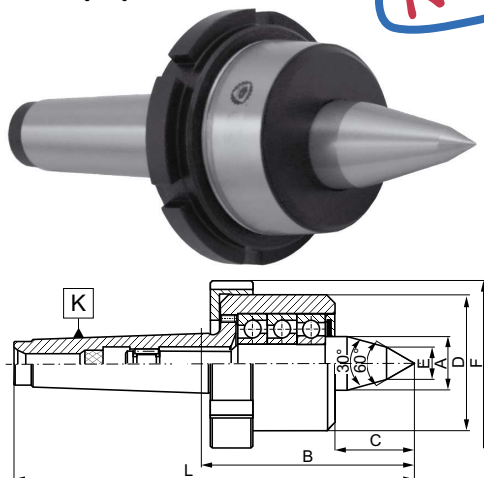
### LIVE CENTRES

with nut for NC lathes

### KŁY TOKARSKIE OBROTOWE

z nakrętką do tokarek NC

**NOWOŚĆ**



| K<br>Morse | Workpiece<br>weight max. kg  | Speed max.<br>min-1       | Concentr.<br>error max. | Code No / Kod Nr | Concentr.<br>error max. | Code No / Kod Nr | A  | B     | C    | D  | E  | F   | L     |
|------------|------------------------------|---------------------------|-------------------------|------------------|-------------------------|------------------|----|-------|------|----|----|-----|-------|
|            | Max. masa<br>przedm. obr. kg | Max. prędk.<br>obr. min-1 | Bicie max.              |                  | Bicie max.              |                  |    |       |      |    |    |     |       |
|            | precision                    |                           |                         |                  | standard                |                  |    |       |      |    |    |     |       |
| 4          | 1000                         | 7000                      | 0,005                   | 0642 588 158 104 | 0,010                   | 0642 588 158 206 | 28 | 118,5 | 49,0 | 70 | 14 | 82  | 221,0 |
| 5          | 2000                         | 6000                      | 0,005                   | 0642 588 158 308 | 0,010                   | 0642 588 158 400 | 40 | 150,5 | 67,5 | 95 | 16 | 110 | 280,0 |

Typical order (precision)/Sposób zamawiania: 0642 588 151 108 lub 8815-1-NC-P

Typical order (standard)/Sposób zamawiania: 0642 588 151 200 lub 8815-NC-P

## Type 8816

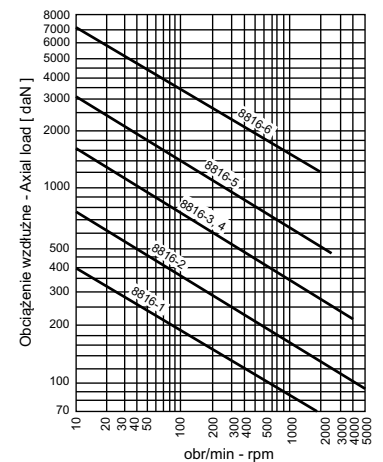
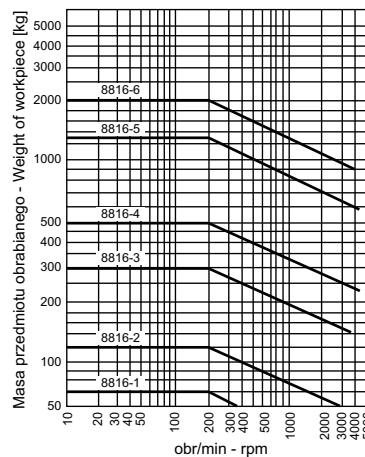
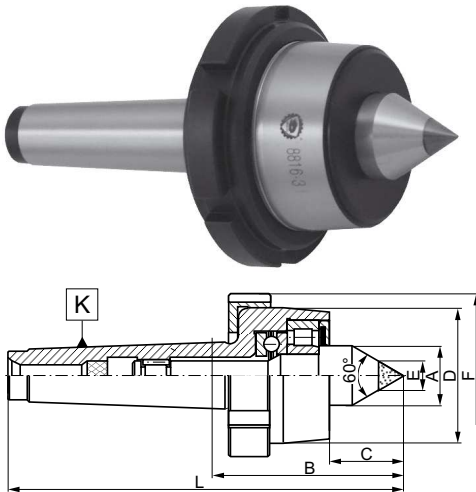
DIN 228

### LIVE CENTRES

with nut and carbide tipped

### KŁY TOKARSKIE OBROTOWE

z nakrętką i końcówką z węglików spiekanych



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D   | D1  | E  | L     |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|-----|-----|----|-------|
|            |                                                             |                                                  |                                       |                  |                                       |                  |      |       |      |     |     |    |       |
|            |                                                             |                                                  |                                       | precision        |                                       | standard         |      |       |      |     |     |    |       |
| 1          | 60                                                          | 5000                                             | 0,005                                 | 0642 588 161 106 | 0,008                                 | 0642 588 161 208 | 15   | 49,5  | 17,0 | 38  | 50  | 7  | 103,0 |
| 2          | 120                                                         | 5000                                             | 0,003                                 | 0642 588 162 107 | 0,008                                 | 0642 588 162 209 | 18   | 56,5  | 21,5 | 40  | 52  | 7  | 120,5 |
| 3          | 300                                                         | 4000                                             | 0,003                                 | 0642 588 163 108 | 0,008                                 | 0642 588 163 200 | 25   | 75,0  | 27,5 | 56  | 68  | 11 | 156,0 |
| 4          | 500                                                         | 3000                                             | 0,003                                 | 0642 588 164 109 | 0,008                                 | 0642 588 164 200 | 32   | 85,0  | 33,5 | 64  | 76  | 14 | 187,0 |
| 5          | 1250                                                        | 2500                                             | 0,005                                 | 0642 588 165 100 | 0,010                                 | 0642 588 165 201 | 40   | 108,0 | 44,0 | 85  | 100 | 18 | 237,0 |
| 6          | 2000                                                        | 2000                                             | 0,005                                 | 0642 588 166 100 | 0,010                                 | 0642 588 166 202 | 62,4 | 151,5 | 64,0 | 130 | 150 | 18 | 333,5 |

Typical order (precision)/Sposób zamawiania: 0642 588 161 106 lub 8816-1-P

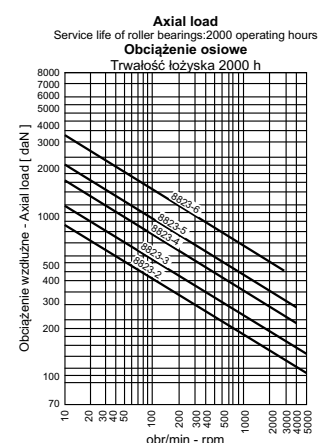
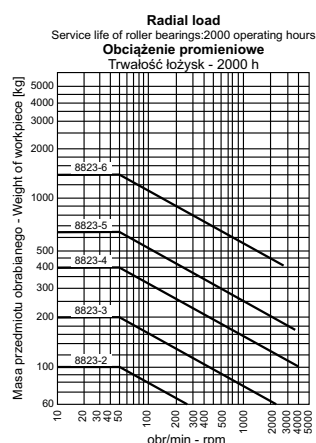
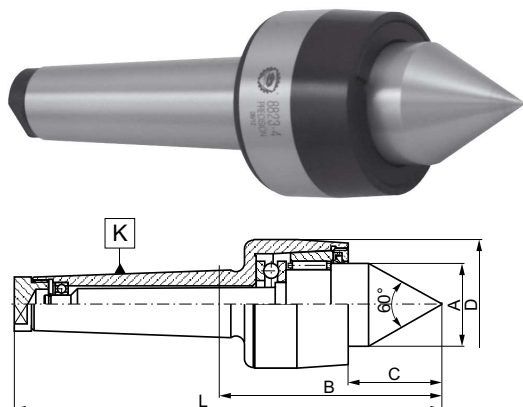
## Type 8823

DIN 228

### LIVE CENTRES

### KŁY TOKARSKIE OBROTOWE

z kompensacją promieniową



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D  | L     |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|------|-------|------|----|-------|
|            |                                                             |                                                  |                                       |                  |                                       |                  |      |       |      |    |       |
|            |                                                             |                                                  |                                       | precision        |                                       | standard         |      |       |      |    |       |
| 2          | 100                                                         | 8000                                             | 0,005                                 | 0642 588 232 405 | 0,008                                 | 0642 588 232 100 | 24   | 73,0  | 26,5 | 44 | 137,5 |
| 3          | 200                                                         | 6000                                             | 0,003                                 | 0642 588 233 406 | 0,008                                 | 0642 588 233 100 | 28   | 85,0  | 32,5 | 48 | 166,0 |
| 4          | 400                                                         | 4500                                             | 0,003                                 | 0642 588 234 407 | 0,008                                 | 0642 588 234 101 | 37   | 94,5  | 43,5 | 60 | 196,5 |
| 5          | 650                                                         | 4000                                             | 0,003                                 | 0642 588 235 408 | 0,008                                 | 0642 588 235 102 | 50   | 116,5 | 55,5 | 75 | 246,0 |
| 6          | 1400                                                        | 3000                                             | 0,003                                 | 0642 588 236 409 | 0,008                                 | 0642 588 236 103 | 60,5 | 135,0 | 62,5 | 90 | 317,0 |

Typical order (precision)/Sposób zamawiania: 0642 588 232 405 lub 8823-2-P

Typical order (precision)/Sposób zamawiania: 0642 588 232 100 lub 8823-2



## Type 8824

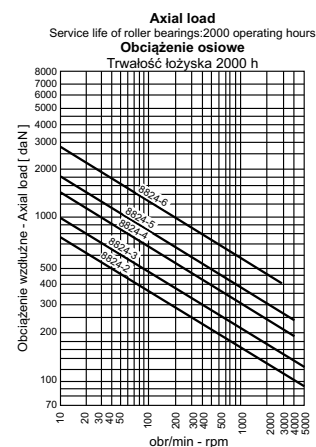
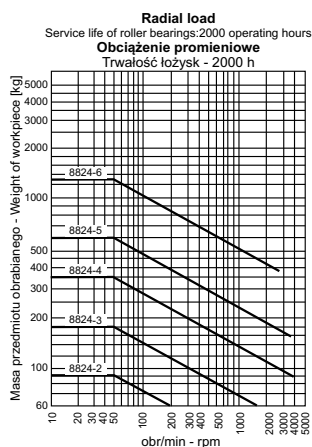
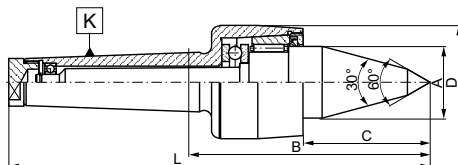
## DIN 228

### LIVE CENTRES

extension

### KŁY TOKARSKIE OBROTOWE

wydłużone z kompensacją promieniową



| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A    | B     | C    | D  | L     |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|------|-------|------|----|-------|
| 2          | 90                                                          | 8000                                             | 0,015                                 | 0642 588 242 301 | 24   | 85,0  | 38,5 | 44 | 149,5 |
| 3          | 180                                                         | 6000                                             | 0,015                                 | 0642 588 243 302 | 28   | 100,0 | 47,5 | 48 | 181,0 |
| 4          | 350                                                         | 4500                                             | 0,015                                 | 0642 588 244 303 | 37   | 117,5 | 66,5 | 60 | 219,5 |
| 5          | 600                                                         | 4000                                             | 0,015                                 | 0642 588 245 304 | 50   | 147,5 | 86,5 | 75 | 277,0 |
| 6          | 1300                                                        | 3000                                             | 0,015                                 | 0642 588 246 305 | 60,5 | 167,0 | 94,5 | 90 | 349,0 |

Typical order/Sposób zamawiania: 0642 588 242 301 lub 8824-2

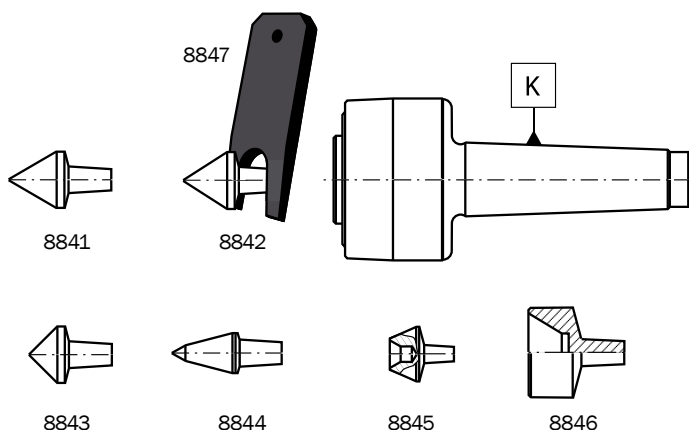
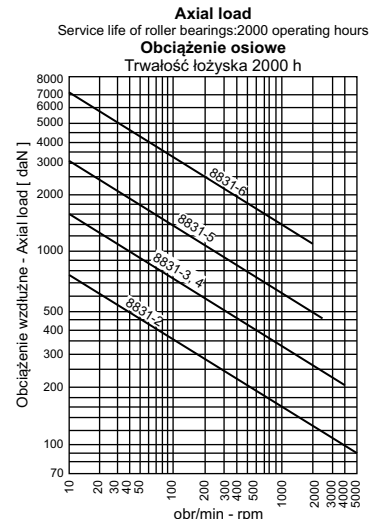
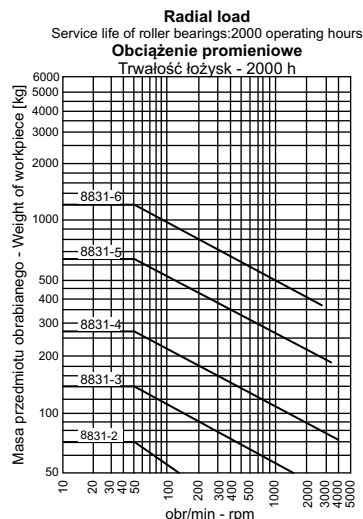


## Type 8831-KPL

**DIN 228**

**LIVE CENTRES - SET**  
with interchangeable inserts

**KŁY TOKARSKIE OBROTOWE - KOMPLET**  
z końcówkami wymiennymi



Live Center with all inserts and extractor (complete in a plastic case)  
Kieł obrotowy z końcówkami wymiennymi i ściągaczem (komplet w plastikowej kasce)

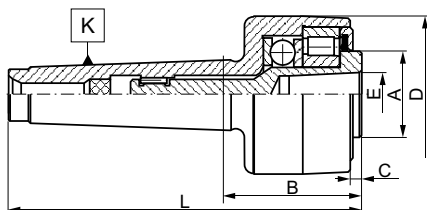
| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|
|            |                                                             |                                                  | precision                             |                  | standard                              |                  |
| 2          | 70                                                          | 5000                                             | 0,010                                 | 0642 588 312 009 | 0,020                                 | 0642 588 312 202 |
| 3          | 120                                                         | 4000                                             | 0,010                                 | 0642 588 313 000 | 0,020                                 | 0642 588 313 203 |
| 4          | 280                                                         | 3000                                             | 0,010                                 | 0642 588 314 000 | 0,020                                 | 0642 588 314 204 |
| 5          | 650                                                         | 2500                                             | 0,015                                 | 0642 588 315 001 | 0,030                                 | 0642 588 315 205 |
| 6          | 1200                                                        | 2000                                             | 0,015                                 | 0642 588 316 002 | 0,030                                 | 0642 588 316 206 |

Typical order (precision)/Sposób zamawiania: 0642 588 312 009 lub 8831-2-P

## Type 8831

LIVE CENTRES - BODY

KŁY TOKARSKIE OBROTOWE - KORPUS



## DIN 228

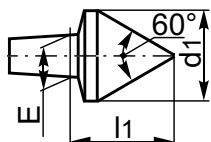
| K<br>Morse | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr |
|------------|---------------------------------------|------------------|---------------------------------------|------------------|
|            | precision                             |                  | standard                              |                  |
| 2          | 0,010                                 | 0642 588 312 011 | 0,020                                 | 0642 588 312 215 |
| 3          | 0,010                                 | 0642 588 313 012 | 0,020                                 | 0642 588 313 216 |
| 4          | 0,010                                 | 0642 588 314 013 | 0,020                                 | 0642 588 314 217 |
| 5          | 0,015                                 | 0642 588 315 014 | 0,030                                 | 0642 588 315 218 |
| 6          | 0,015                                 | 0642 588 316 015 | 0,030                                 | 0642 588 316 219 |

| K<br>Morse | A    | B  | C   | D   | L     | E  |
|------------|------|----|-----|-----|-------|----|
| 2          | 18   | 39 | 4,0 | 40  | 103,0 | 7  |
| 3          | 25   | 52 | 4,5 | 56  | 133,0 | 12 |
| 4          | 32   | 57 | 5,5 | 64  | 159,0 | 15 |
| 5          | 40   | 70 | 6,0 | 85  | 199,0 | 22 |
| 6          | 62,4 | 94 | 6,5 | 130 | 276,0 | 28 |

## Type 8841



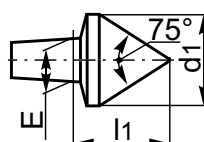
| Size<br>Wielk. | d1 | E  | l1   | Code No / Kod Nr |
|----------------|----|----|------|------------------|
| 2              | 18 | 7  | 21,0 | 0642 588 412 108 |
| 3              | 25 | 12 | 28,0 | 0642 588 413 109 |
| 4              | 28 | 15 | 30,5 | 0642 588 414 100 |
| 5              | 40 | 22 | 42,5 | 0642 588 415 100 |
| 6              | 60 | 28 | 61,5 | 0642 588 416 101 |



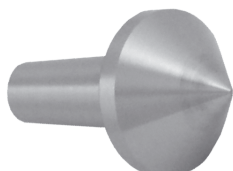
## Type 8842



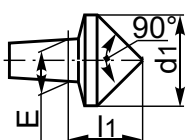
| Size<br>Wielk. | d1 | E  | l1   | Code No / Kod Nr |
|----------------|----|----|------|------------------|
| 2              | 18 | 7  | 17,5 | 0642 588 422 106 |
| 3              | 25 | 12 | 23,0 | 0642 588 423 107 |
| 4              | 28 | 15 | 25,0 | 0642 588 424 108 |
| 5              | 40 | 22 | 34,0 | 0642 588 425 109 |
| 6              | 60 | 28 | 50,5 | 0642 588 426 100 |



## Type 8843



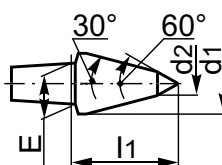
| Size<br>Wielk. | d1 | E  | l1   | Code No / Kod Nr |
|----------------|----|----|------|------------------|
| 2              | 18 | 7  | 15,0 | 0642 588 432 104 |
| 3              | 25 | 12 | 19,0 | 0642 588 433 105 |
| 4              | 28 | 15 | 21,0 | 0642 588 434 106 |
| 5              | 40 | 22 | 28,0 | 0642 588 435 107 |
| 6              | 60 | 28 | 40,0 | 0642 588 436 108 |



## Type 8844



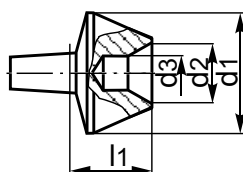
| Size<br>Wielk. | d1 | d2 | E  | l1   | Code No / Kod Nr |
|----------------|----|----|----|------|------------------|
| 2              | 15 | 6  | 7  | 27,0 | 0642 588 442 102 |
| 3              | 18 | 8  | 12 | 31,0 | 0642 588 443 103 |
| 4              | 25 | 12 | 15 | 40,5 | 0642 588 444 104 |
| 5              | 28 | 13 | 22 | 45,5 | 0642 588 445 105 |
| 6              | 40 | 18 | 28 | 63,5 | 0642 588 446 106 |



## Type 8845



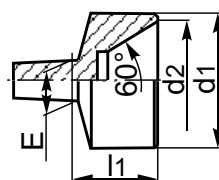
| Size Wielk. | d1  | d2 | d3 | l1   | Code No / Kod Nr |
|-------------|-----|----|----|------|------------------|
| 2           | 28  | 12 | 6  | 18,5 | 0642 588 452 100 |
| 3           | 40  | 19 | 10 | 24,0 | 0642 588 453 101 |
| 4           | 55  | 22 | 10 | 36,5 | 0642 588 454 102 |
| 5           | 70  | 32 | 10 | 42,0 | 0642 588 455 103 |
| 6           | 100 | 50 | 15 | 56,0 | 0642 588 456 104 |



## Type 8846



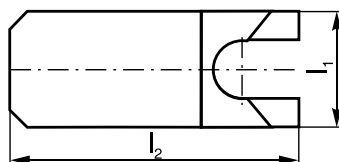
| Size Wielk. | d1  | d2 | E  | l1   | Code No / Kod Nr |
|-------------|-----|----|----|------|------------------|
| 2           | 28  | 24 | 7  | 21,5 | 0642 588 462 109 |
| 3           | 40  | 35 | 12 | 26,5 | 0642 588 463 100 |
| 4           | 55  | 48 | 15 | 39,0 | 0642 588 464 100 |
| 5           | 70  | 63 | 22 | 47,0 | 0642 588 465 101 |
| 6           | 100 | 90 | 28 | 62,0 | 0642 588 466 102 |



## Type 8847



| Size Wielk. | l1 | l2  | Code No / Kod Nr |
|-------------|----|-----|------------------|
| 2           | 20 | 50  | 0642 588 472 107 |
| 3           | 30 | 70  | 0642 588 473 108 |
| 4           | 45 | 100 | 0642 588 474 109 |
| 5           | 55 | 120 | 0642 588 475 100 |
| 6           | 65 | 160 | 0642 588 476 100 |



## Type 8832-KPL

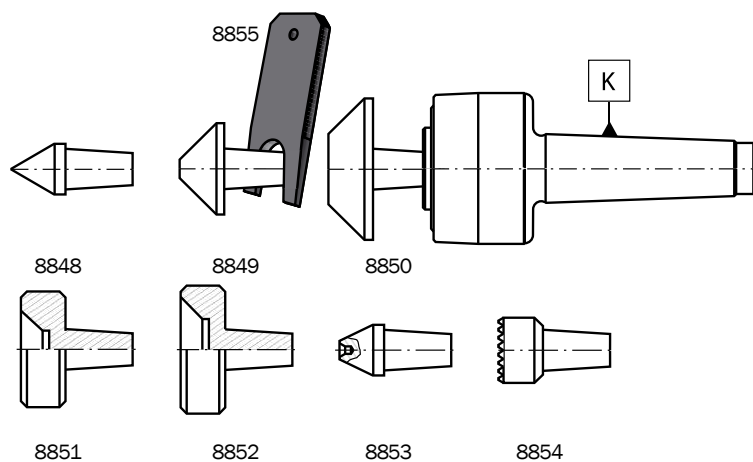
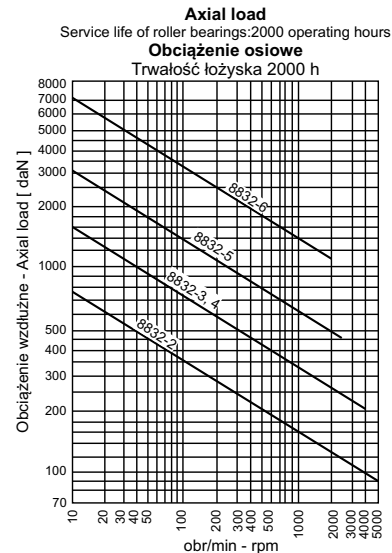
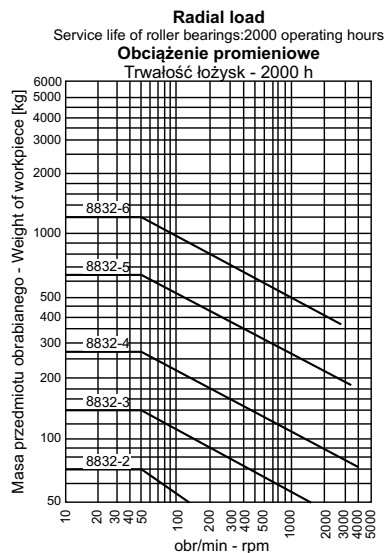
**DIN 228**

### LIVE CENTRES - SET

with interchangeable inserts

### KŁY TOKARSKIE OBROTOWE - KOMPLET

z końcówkami wymiennymi



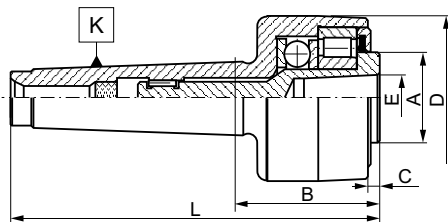
Live Center with all inserts and extractor (complete in a plastic case)

Kieł obrotowy z końcówkami wymiennymi i ściągaczem (komplet w plastikowej kasce)

| K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr |
|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|---------------------------------------|------------------|
|            |                                                             |                                                  | precision                             |                  | standard                              |                  |
| 2          | 70                                                          | 5000                                             | 0,010                                 | 0642 588 320 209 | 0,020                                 | 0642 588 321 200 |
| 3          | 120                                                         | 4000                                             | 0,010                                 | 0642 588 320 300 | 0,020                                 | 0642 588 321 301 |
| 4          | 280                                                         | 3000                                             | 0,010                                 | 0642 588 320 402 | 0,020                                 | 0642 588 321 403 |
| 5          | 650                                                         | 2500                                             | 0,015                                 | 0642 588 320 504 | 0,030                                 | 0642 588 321 505 |
| 6          | 1200                                                        | 2000                                             | 0,015                                 | 0642 588 320 606 | 0,030                                 | 0642 588 321 607 |

Typical order (precision)/Sposób zamawiania: 0642 588 320 209 lub 8832-2-P

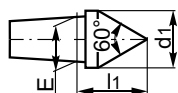
## Type 8832

**DIN 228**
**LIVE CENTRES - BODY**
**KŁY TOKARSKIE OBROTOWE - KORPUS**


| K<br>Morse | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr |
|------------|---------------------------------------|------------------|---------------------------------------|------------------|
|            | precision                             |                  | standard                              |                  |
| 2          | 0,010                                 | 0642 588 320 211 | 0,020                                 | 0642 588 321 212 |
| 3          | 0,010                                 | 0642 588 320 313 | 0,020                                 | 0642 588 321 314 |
| 4          | 0,010                                 | 0642 588 320 415 | 0,020                                 | 0642 588 321 416 |
| 5          | 0,015                                 | 0642 588 320 517 | 0,030                                 | 0642 588 321 518 |
| 6          | 0,015                                 | 0642 588 320 619 | 0,030                                 | 0642 588 321 610 |

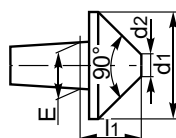
| K<br>Morse | A    | B  | C   | D   | L     | E  |
|------------|------|----|-----|-----|-------|----|
| 2          | 22   | 41 | 3,0 | 45  | 105,0 | 10 |
| 3          | 25   | 52 | 4,5 | 56  | 133,0 | 15 |
| 4          | 32   | 57 | 5,5 | 64  | 159,0 | 20 |
| 5          | 40   | 70 | 6,0 | 85  | 199,0 | 25 |
| 6          | 62,4 | 94 | 6,5 | 130 | 276,0 | 30 |

## Type 8848



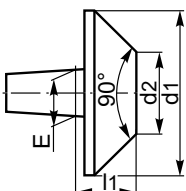
| Size<br>Wielk. | d1 | E  | l1 | Code No / Kod Nr |
|----------------|----|----|----|------------------|
| 2              | 15 | 10 | 19 | 0642 588 480 205 |
| 3              | 20 | 15 | 25 | 0642 588 480 307 |
| 4              | 25 | 20 | 30 | 0642 588 480 409 |
| 5              | 32 | 25 | 35 | 0642 588 480 500 |
| 6              | 36 | 30 | 44 | 0642 588 480 602 |

## Type 8849



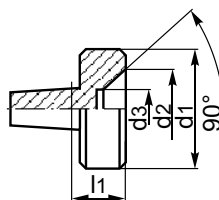
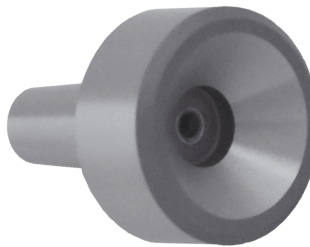
| Size<br>Wielk. | d1 | d2 | E  | l1 | Code No / Kod Nr |
|----------------|----|----|----|----|------------------|
| 2              | 22 | 3  | 10 | 15 | 0642 588 490 203 |
| 3              | 36 | 6  | 15 | 22 | 0642 588 490 305 |
| 4              | 45 | 10 | 20 | 25 | 0642 588 490 407 |
| 5              | 56 | 14 | 25 | 30 | 0642 588 490 509 |
| 6              | 70 | 18 | 30 | 36 | 0642 588 490 600 |

## Type 8850



| Size<br>Wielk. | d1  | d2 | E  | l1 | Code No / Kod Nr |
|----------------|-----|----|----|----|------------------|
| 2              | 37  | 18 | 10 | 15 | 0642 588 500 207 |
| 3              | 63  | 33 | 15 | 22 | 0642 588 500 309 |
| 4              | 70  | 35 | 20 | 25 | 0642 588 500 400 |
| 5              | 80  | 38 | 25 | 30 | 0642 588 500 502 |
| 6              | 100 | 50 | 30 | 36 | 0642 588 500 604 |

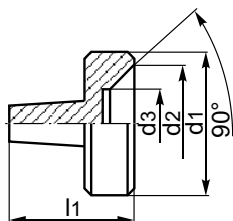
## Type 8851



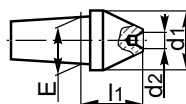
| Size<br>Wielk. | d1 | d2 | d3 | l1 | Code No / Kod Nr |
|----------------|----|----|----|----|------------------|
| 2              | 22 | 18 | 8  | 15 | 0642 588 510 205 |
| 3              | 36 | 28 | 12 | 22 | 0642 588 510 307 |
| 4              | 45 | 37 | 17 | 25 | 0642 588 510 409 |
| 5              | 56 | 44 | 20 | 30 | 0642 588 510 500 |
| 6              | 70 | 58 | 24 | 36 | 0642 588 510 602 |

**Type 8852**

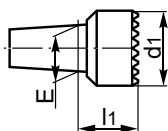

| Size Wielk. | d1  | d2 | d3 | l1 | Code No / Kod Nr |
|-------------|-----|----|----|----|------------------|
| 2           | 30  | 25 | 15 | 15 | 0642 588 520 203 |
| 3           | 45  | 38 | 22 | 22 | 0642 588 520 305 |
| 4           | 63  | 53 | 30 | 25 | 0642 588 520 407 |
| 5           | 70  | 60 | 36 | 30 | 0642 588 520 509 |
| 6           | 100 | 88 | 54 | 36 | 0642 588 520 600 |


**Type 8853**

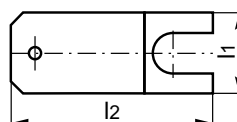

| Size Wielk. | d1 | d2   | E  | l1 | Code No / Kod Nr |
|-------------|----|------|----|----|------------------|
| 2           | 15 | 1,25 | 10 | 15 | 0642 588 530 201 |
| 3           | 20 | 1,25 | 15 | 22 | 0642 588 530 303 |
| 4           | 25 | 2,5  | 20 | 25 | 0642 588 530 405 |
| 5           | 32 | 2,5  | 25 | 30 | 0642 588 530 507 |
| 6           | 36 | 4,0  | 30 | 36 | 0642 588 530 609 |


**Type 8854**


| Size Wielk. | d1 | E  | l1 | Code No / Kod Nr |
|-------------|----|----|----|------------------|
| 2           | 18 | 10 | 15 | 0642 588 540 200 |
| 3           | 25 | 15 | 22 | 0642 588 540 301 |
| 4           | 32 | 20 | 25 | 0642 588 540 403 |
| 5           | 45 | 25 | 30 | 0642 588 540 505 |
| 6           | 56 | 30 | 36 | 0642 588 540 607 |


**Type 8855**


| Size Wielk. | l1 | l2  | Code No / Kod Nr |
|-------------|----|-----|------------------|
| 2           | 20 | 60  | 0642 588 550 208 |
| 3           | 30 | 80  | 0642 588 550 300 |
| 4           | 40 | 100 | 0642 588 550 401 |
| 5           | 50 | 120 | 0642 588 550 503 |
| 6           | 60 | 160 | 0642 588 550 605 |



## Type 8825

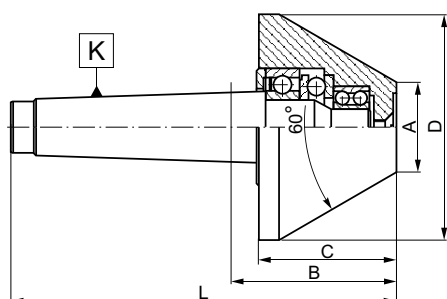
**DIN 228**

### REVOLVING CENTERING TAPER

truncated

### KŁY TOKARSKIE OBROTOWE

do rur



| Size<br>Wielk. | K<br>Morse | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr | A   | B     | C   | D   | L     |
|----------------|------------|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------|-----|-------|-----|-----|-------|
| 1              | 1          | 100                                                         | 5000                                             | 0,008                                 | 0642 588 251 105 | 20  | 40,5  | 35  | 50  | 94,0  |
| 2              | 2          | 180                                                         | 5000                                             | 0,008                                 | 0642 588 252 106 | 30  | 41,5  | 35  | 60  | 105,5 |
| 2-1            | 2          | 300                                                         | 4500                                             | 0,008                                 | 0642 588 252 208 | 30  | 59,0  | 53  | 80  | 123,0 |
| 3              | 3          | 350                                                         | 4500                                             | 0,008                                 | 0642 588 253 107 | 30  | 59,0  | 53  | 80  | 140,0 |
| 3-1            | 3          | 550                                                         | 3000                                             | 0,008                                 | 0642 588 253 209 | 40  | 67,0  | 61  | 100 | 148,0 |
| 3-2            | 3          | 600                                                         | 3000                                             | 0,008                                 | 0642 588 253 300 | 50  | 76,0  | 70  | 120 | 157,0 |
| 4              | 4          | 600                                                         | 3000                                             | 0,008                                 | 0642 588 254 108 | 40  | 68,5  | 61  | 100 | 171,0 |
| 4-1            | 4          | 700                                                         | 3000                                             | 0,008                                 | 0642 588 254 200 | 50  | 77,5  | 70  | 120 | 180,0 |
| 4-2            | 4          | 700                                                         | 3000                                             | 0,010                                 | 0642 588 254 301 | 70  | 77,5  | 70  | 140 | 180,0 |
| 5              | 5          | 750                                                         | 3000                                             | 0,010                                 | 0642 588 255 109 | 50  | 77,5  | 70  | 120 | 207,0 |
| 5-1            | 5          | 750                                                         | 2000                                             | 0,020                                 | 0642 588 255 200 | 100 | 77,5  | 70  | 170 | 207,0 |
| 6              | 6          | 2000                                                        | 1000                                             | 0,050                                 | 0642 588 256 100 | 180 | 116,0 | 107 | 292 | 298,0 |

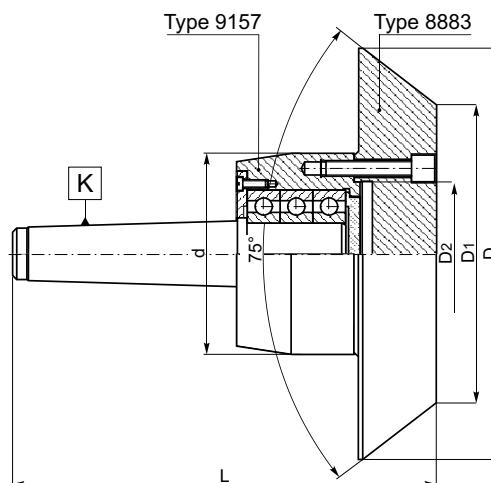
Typical order/Sposób zamawiania: 0642 588 252 208 lub 8825-2-1



## Type 8882

## DIN 228

**REVOLVING CENTERING TAPER**  
**KŁY TOKARSKIE OBROTOWE**  
 z wymiennymi tarczami stożkowymi



| K<br>Morse | d   | D   | D1  | D2  | L   | Workpiece<br>weight max. kg<br>Max. masa<br>przedm. obr. kg | Speed max.<br>min-1<br>Max. prędk.<br>obr. min-1 | Concentr.<br>error max.<br>Bicie max. | 8882<br>SET<br>KOMPLET | 8883<br>CENTERING TAPER<br>TARCZA STOŻKOWA | 9157<br>BODY ROTATING<br>OPRAWA OBROTOWA |
|------------|-----|-----|-----|-----|-----|-------------------------------------------------------------|--------------------------------------------------|---------------------------------------|------------------------|--------------------------------------------|------------------------------------------|
|            |     |     |     |     |     |                                                             |                                                  |                                       | Code No / Kod Nr       | Code No / Kod Nr                           | Code No / Kod Nr                         |
| 3          | 80  | 150 | 95  | 56  | 180 | 700                                                         | 4000                                             | 0,05                                  | 0642 588 821 104       | 0642 588 831 102                           | 0642 591 571 104                         |
|            | 80  | 200 | 145 | 56  | 180 | 700                                                         | 4000                                             | 0,05                                  | 0642 588 821 206       | 0642 588 831 204                           | 0642 591 571 104                         |
| 4          | 100 | 150 | 95  | 70  | 206 | 1000                                                        | 3500                                             | 0,05                                  | 0642 588 821 400       | 0642 588 831 408                           | 0642 591 571 308                         |
|            | 100 | 200 | 145 | 70  | 206 | 1000                                                        | 3500                                             | 0,05                                  | 0642 588 821 501       | 0642 588 831 500                           | 0642 591 571 308                         |
|            | 100 | 250 | 195 | 70  | 206 | 1000                                                        | 3500                                             | 0,05                                  | 0642 588 821 603       | 0642 588 831 601                           | 0642 591 571 308                         |
|            | 125 | 200 | 145 | 95  | 215 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 821 807       | 0642 588 832 103                           | 0642 591 571 501                         |
|            | 125 | 250 | 195 | 95  | 215 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 821 909       | 0642 588 832 205                           | 0642 591 571 501                         |
| 5          | 125 | 300 | 245 | 95  | 215 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 822 003       | 0642 588 832 307                           | 0642 591 571 501                         |
|            | 125 | 200 | 145 | 95  | 242 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 822 105       | 0642 588 832 103                           | 0642 591 571 603                         |
|            | 125 | 250 | 195 | 95  | 242 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 822 207       | 0642 588 832 205                           | 0642 591 571 603                         |
|            | 125 | 300 | 245 | 95  | 242 | 1500                                                        | 3200                                             | 0,05                                  | 0642 588 822 309       | 0642 588 832 307                           | 0642 591 571 603                         |
|            | 160 | 250 | 195 | 125 | 245 | 1800                                                        | 3000                                             | 0,05                                  | 0642 588 822 502       | 0642 588 832 500                           | 0642 591 571 909                         |
|            | 160 | 300 | 245 | 125 | 245 | 1800                                                        | 3000                                             | 0,05                                  | 0642 588 822 604       | 0642 588 832 602                           | 0642 591 571 909                         |

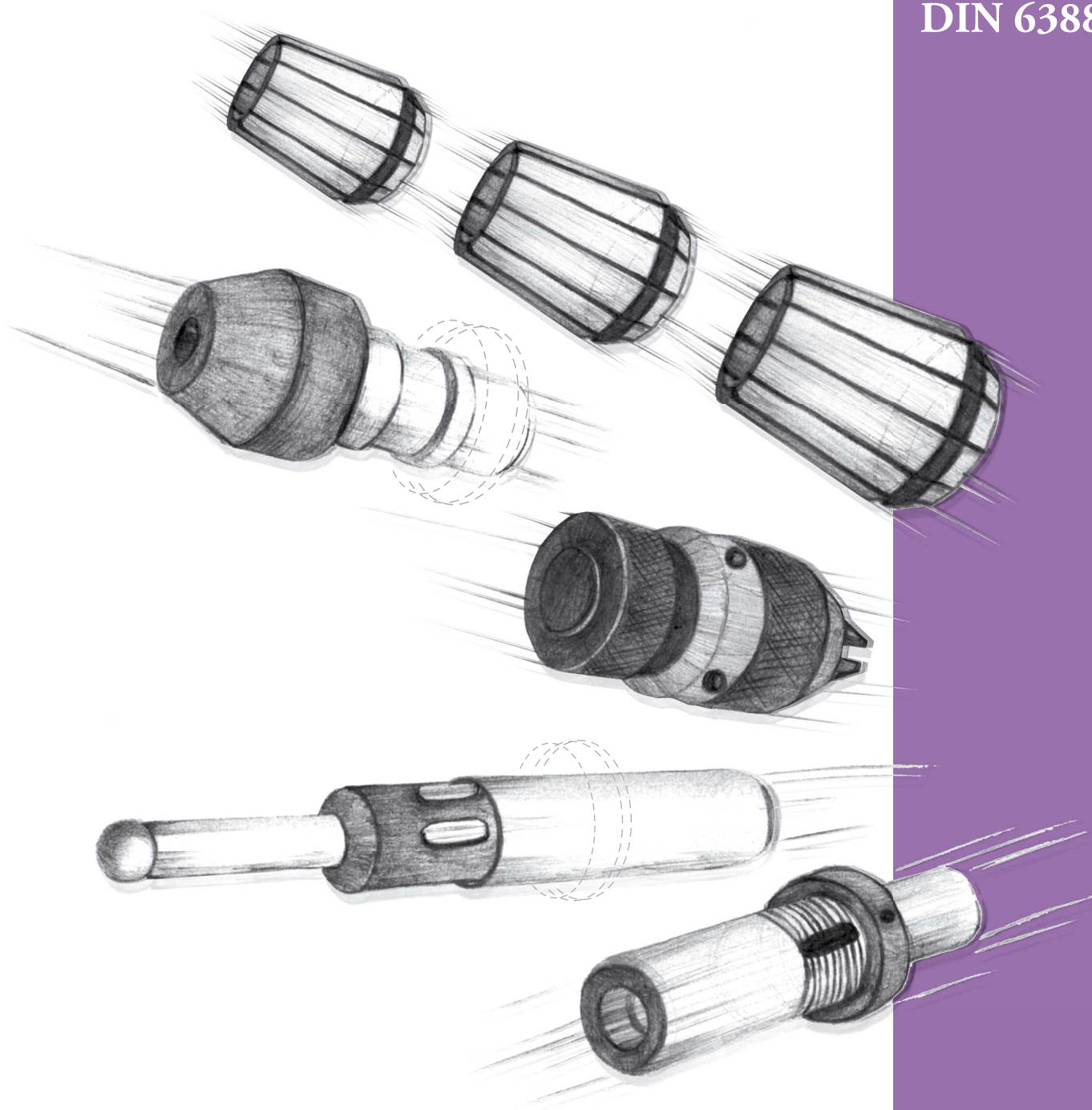
Typical order/Sposób zamawiania: SET 0642 588 821 104 lub (8882-K-d-D) 8882-3-80-150

Typical order/Sposób zamawiania: CENTERING TAPER 0642 588 831 102 lub (8883-d-D) 8883-80-150

Typical order/Sposób zamawiania: BODY ROTATING 0642 591 571 104 lub (9157-K-d) 9157-3-80



DIN 6327  
DIN 1835  
DIN 6499  
DIN 6388 ...

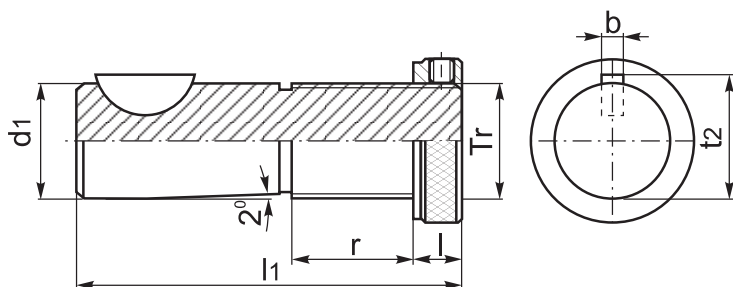


**BISON** BIAL

6

## DIN 6327

### AXIALLY ADJUSTABLE SHANK CHWYT Z REGULACJĄ OSIOWĄ

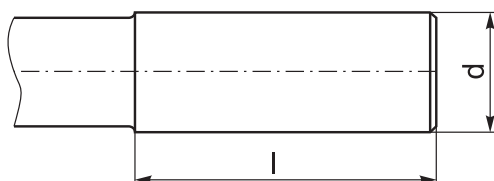


| Tr        | d1 | l1  | l  | r  | b  | t2   |
|-----------|----|-----|----|----|----|------|
| Tr 16x1,5 | 16 | 85  | 12 | 28 | 5  | 17,1 |
| Tr 20x2   | 20 | 88  | 12 | 28 | 5  | 21,1 |
| Tr 28x2   | 28 | 95  | 12 | 30 | 6  | 29,5 |
| Tr 36x2   | 36 | 118 | 14 | 36 | 8  | 37,5 |
| Tr 48x2   | 48 | 144 | 18 | 47 | 10 | 49,9 |

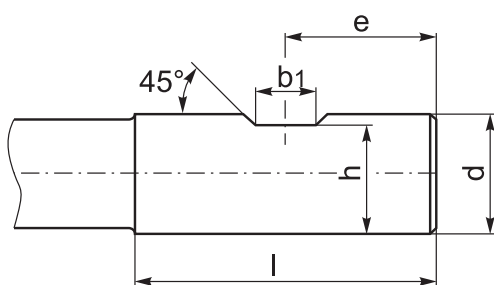
## DIN 1835

### STRAIGHT SHANK CHWYT WALCOWY

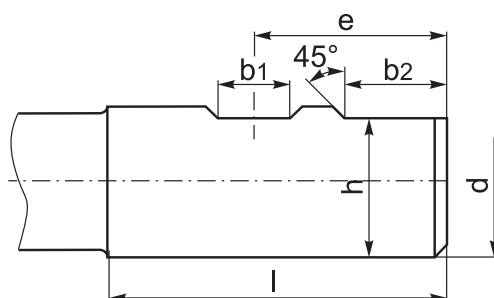
Form A  
Odmiana A



Form B - with one clamping flat ( Weldon )  
Odmiana B - z jednym spłaszczeniem ( Weldon )  
 $d = 6 \div 20 \text{ mm}$



Form B - with two clamping flat ( Weldon )  
Odmiana B - z dwoma spłaszczeniami ( Weldon )  
 $d = 25 \div 32 \text{ mm}$



| d h6 | l  | b1   | b2 | h h11 | e    |
|------|----|------|----|-------|------|
| 6    | 36 | 4,2  | -  | 5,1   | 18,0 |
| 8    | 36 | 5,5  | -  | 6,9   | 18,0 |
| 10   | 40 | 7,0  | -  | 8,5   | 20,0 |
| 12   | 45 | 8,0  | -  | 10,4  | 22,5 |
| 14   | 45 | 8,0  | -  | 12,7  | 22,5 |
| 16   | 48 | 10,0 | -  | 14,2  | 24,0 |
| 18   | 48 | 10,0 | -  | 16,2  | 24,0 |
| 20   | 50 | 11,0 | -  | 18,2  | 25,0 |
| 25   | 56 | 12,0 | 17 | 23,0  | 32,0 |
| 32   | 60 | 14,0 | 19 | 30,0  | 35,0 |

#### STANDARD FEATURES OF TOOLING

- Manufactured with Chrome Manganese steel.
- Carburized with depth of case 0,7 mm.
- Hardened and precision ground.
- Surface Hardness RC 58±2.

#### CHARAKTERYSTYKA TECHNICZNA WYROBÓW

- Materiał: stal stopowa chromowo-manganowa.
- Nawęglane na głębokość 0,7 mm.
- Hartowane i precyzyjnie szlifowane.
- Twardość powierzchni 58±2 HRC.

## Type 1830

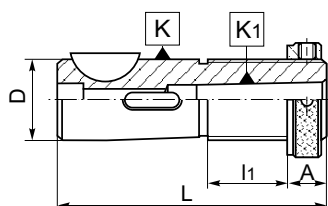
**DIN 6327**

### ADJUSTABLE ADAPTERS

for tools with Morse taper shank

### TULEJE Z REGULACJĄ OSIOWĄ

do narzędzi z chwytem Morse'a



| Code No / Kod Nr | K<br>D | K1<br>Morse | L   | l1 | A  |          |
|------------------|--------|-------------|-----|----|----|----------|
| 0642 118 300 117 | 16     | 1           | 85  | 28 | 12 | Z-1275/0 |
| 0642 118 300 219 | 20     | 1           | 88  | 28 | 12 | Z-1276/0 |
| 0642 118 300 514 | 28     | 1           | 95  | 30 | 12 | Z-1278/0 |
| 0642 118 300 616 |        | 2           | 95  | 30 | 12 | Z-1278/0 |
| 0642 118 300 718 | 36     | 1           | 118 | 36 | 14 | Z-1279/0 |
| 0642 118 300 810 |        | 2           | 118 | 36 | 14 | Z-1279/0 |
| 0642 118 300 911 |        | 3           | 118 | 36 | 14 | Z-1279/0 |
| 0642 118 301 016 | 48     | 1           | 144 | 47 | 18 | Z-1280/0 |
| 0642 118 301 118 |        | 2           | 144 | 47 | 18 | Z-1280/0 |
| 0642 118 301 210 |        | 3           | 144 | 47 | 18 | Z-1280/0 |
| 0642 118 301 311 |        | 4           | 144 | 47 | 18 | Z-1280/0 |

Typical order/Sposób zamawiania: 0642 118 301 311 lub 1830-48-4-K

## Type 1831

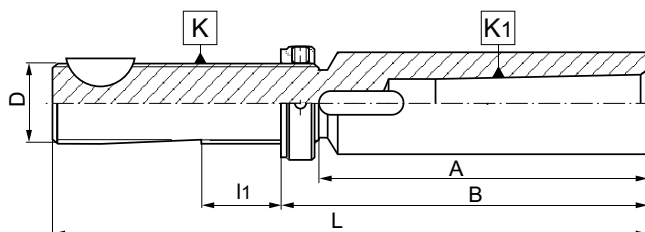
**DIN 6327**

### ADJUSTABLE ADAPTERS

for tools with Morse taper shank

### TULEJE Z REGULACJĄ OSIOWĄ

do narzędzi z chwytem Morse'a



| Code No / Kod Nr | K<br>D | K1<br>Morse | L   | A   | l1 | B   |          |
|------------------|--------|-------------|-----|-----|----|-----|----------|
| 0642 118 311 116 | 16     | 1           | 164 | 79  | 28 | 91  | Z-1275/0 |
| 0642 118 311 218 |        | 2           | 179 | 94  | 28 | 106 | Z-1275/0 |
| 0642 118 311 910 | 20     | 2           | 182 | 94  | 28 | 106 | Z-1276/0 |
| 0642 118 313 810 | 28     | 3           | 212 | 117 | 30 | 129 | Z-1278/0 |
| 0642 118 315 211 | 36     | 4           | 264 | 146 | 36 | 160 | Z-1279/0 |

Typical order/Sposób zamawiania: 0642 118 315 211 lub 1831-36-4-K

## Type 1833

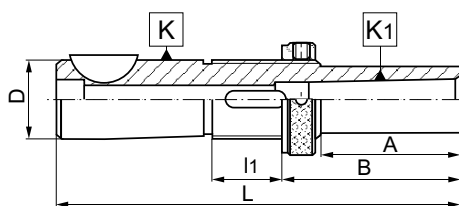
## DIN 6327

### ADJUSTABLE ADAPTERS

for tools with Morse taper shank

### TULEJE Z REGULACJĄ OSIOWĄ

do narzędzi z chwytem Morse'a



| Code No / Kod Nr | K<br>D | K1<br>Morse | A   | L   | l1 | B   |          |
|------------------|--------|-------------|-----|-----|----|-----|----------|
| 0642 118 330 200 | 16     | 1           | 25  | 110 | 28 | 37  | Z-1275/0 |
| 0642 118 330 302 |        | 1           | 50  | 135 | 28 | 62  | Z-1275/0 |
| 0642 118 330 404 |        | 1           | 75  | 135 | 28 | 87  | Z-1275/0 |
| 0642 118 330 506 |        | 1           | 100 | 185 | 28 | 112 | Z-1275/0 |
| 0642 118 331 201 | 20     | 1           | 25  | 135 | 28 | 37  | Z-1276/0 |
| 0642 118 331 303 |        | 1           | 50  | 138 | 28 | 62  | Z-1276/0 |
| 0642 118 331 405 |        | 1           | 75  | 163 | 28 | 87  | Z-1276/0 |
| 0642 118 331 507 |        | 1           | 100 | 188 | 28 | 112 | Z-1276/0 |
| 0642 118 332 202 | 28     | 1           | 25  | 120 | 30 | 37  | Z-1278/0 |
| 0642 118 332 304 |        | 1           | 50  | 145 | 30 | 62  | Z-1278/0 |
| 0642 118 332 406 |        | 1           | 75  | 170 | 30 | 87  | Z-1278/0 |
| 0642 118 333 203 | 28     | 2           | 25  | 120 | 30 | 37  | Z-1278/0 |
| 0642 118 333 305 |        | 2           | 50  | 145 | 30 | 62  | Z-1278/0 |
| 0642 118 333 407 |        | 2           | 75  | 170 | 30 | 87  | Z-1278/0 |
| 0642 118 333 509 |        | 2           | 100 | 195 | 30 | 112 | Z-1278/0 |
| 0642 118 334 204 | 36     | 2           | 30  | 148 | 36 | 44  | Z-1279/0 |
| 0642 118 334 306 |        | 2           | 60  | 178 | 36 | 74  | Z-1279/0 |
| 0642 118 334 408 |        | 2           | 90  | 208 | 36 | 104 | Z-1279/0 |
| 0642 118 334 500 |        | 2           | 120 | 238 | 36 | 134 | Z-1279/0 |
| 0642 118 335 205 |        | 3           | 30  | 148 | 36 | 44  | Z-1279/0 |
| 0642 118 335 307 |        | 3           | 60  | 178 | 36 | 74  | Z-1279/0 |
| 0642 118 335 409 |        | 3           | 90  | 208 | 36 | 104 | Z-1279/0 |
| 0642 118 335 500 |        | 3           | 120 | 238 | 36 | 134 | Z-1279/0 |
| 0642 118 336 206 | 48     | 3           | 40  | 184 | 47 | 58  | Z-1280/0 |
| 0642 118 336 308 |        | 3           | 80  | 224 | 47 | 98  | Z-1280/0 |
| 0642 118 336 400 |        | 3           | 120 | 264 | 47 | 138 | Z-1280/0 |
| 0642 118 336 501 |        | 3           | 160 | 304 | 47 | 178 | Z-1280/0 |
| 0642 118 337 207 |        | 4           | 40  | 184 | 47 | 58  | Z-1280/0 |
| 0642 118 337 309 |        | 4           | 80  | 224 | 47 | 98  | Z-1280/0 |
| 0642 118 337 400 |        | 4           | 120 | 264 | 47 | 138 | Z-1280/0 |
| 0642 118 337 502 |        | 4           | 160 | 304 | 47 | 178 | Z-1280/0 |

Typical order/Sposób zamawiania: 0642 118 337 502 lub 1833-48-4-160

## Type 5365

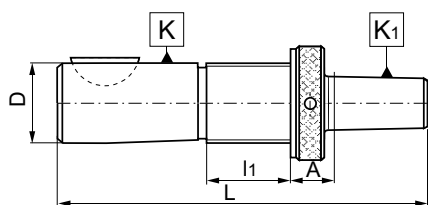
**DIN 6327**

### ADJUSTABLE ADAPTERS

for drill chucks with DIN 238 taper

### TRZPIENIE Z REGULACJĄ OSIOWĄ

do uchwytów wiertarskich ze stożkiem DIN 238



| Code No / Kod Nr | K<br>D | K1<br>DIN | L   | l1 | A   |          |
|------------------|--------|-----------|-----|----|-----|----------|
| 0642 153 653 214 | 20     | B12       | 110 | 28 | 4.5 | Z-1276/0 |
| 0642 153 653 316 |        | B16       | 117 | 28 | 5.0 | Z-1276/0 |
| 0642 153 655 216 | 28     | B12       | 118 | 30 | 4.5 | Z-1278/0 |
| 0642 153 655 318 |        | B16       | 124 | 30 | 5.0 | Z-1278/0 |
| 0642 153 655 410 |        | B18       | 132 | 30 | 5.0 | Z-1278/0 |
| 0642 153 656 319 | 36     | B16       | 147 | 36 | 5.0 | Z-1279/0 |
| 0642 153 656 410 |        | B18       | 155 | 36 | 5.0 | Z-1279/0 |
| 0642 153 656 512 |        | B22       | 163 | 36 | 4.5 | Z-1279/0 |
| 0642 153 657 310 | 48     | B16       | 173 | 47 | 5.0 | Z-1280/0 |
| 0642 153 657 411 |        | B18       | 181 | 47 | 5.0 | Z-1280/0 |
| 0642 153 657 513 |        | B22       | 189 | 47 | 4.5 | Z-1280/0 |

Typical order/Sposób zamawiania: 0642 153 657 513 lub 5365-48-B22-K

## Type 7510

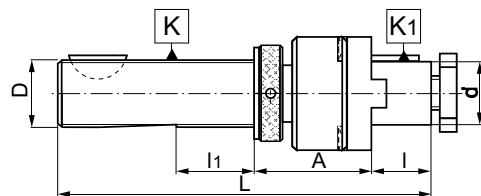
**DIN 6327**

### ADJUSTABLE ADAPTERS

for cutters with keyway or driving slot DIN 138

### TRZPIENIE Z REGULACJĄ OSIOWĄ

do frezów z rowkiem wpustowym lub rowkiem zabierakowym DIN 138



| Code No / Kod Nr | K<br>D | K1<br>d | L   | l1 | A  | I  |          |          |          |
|------------------|--------|---------|-----|----|----|----|----------|----------|----------|
| 0642 175 103 312 | 20     | 16      | 130 | 20 | 50 | 17 | U-0620/0 | U-1364/0 | Z-1276/0 |
| 0642 175 103 414 |        | 22      | 136 | 20 | 50 | 19 | U-0621/0 | U-1365/0 | Z-1276/0 |
| 0642 175 105 314 | 28     | 16      | 140 | 30 | 50 | 17 | U-0620/0 | U-1364/0 | Z-1278/0 |
| 0642 175 105 416 |        | 22      | 145 | 30 | 50 | 19 | U-0621/0 | U-1365/0 | Z-1278/0 |
| 0642 175 105 518 |        | 27      | 155 | 30 | 50 | 21 | U-0622/0 | U-1366/0 | Z-1278/0 |
| 0642 175 105 610 |        | 32      | 155 | 30 | 50 | 24 | U-0623/0 | U-1367/0 | Z-1278/0 |
| 0642 175 106 315 | 36     | 16      | 165 | 36 | 50 | 17 | U-0620/0 | U-1364/0 | Z-1279/0 |
| 0642 175 106 417 |        | 22      | 170 | 36 | 50 | 19 | U-0621/0 | U-1365/0 | Z-1279/0 |
| 0642 175 106 519 |        | 27      | 175 | 36 | 50 | 21 | U-0622/0 | U-1366/0 | Z-1279/0 |
| 0642 175 106 610 |        | 32      | 180 | 36 | 50 | 24 | U-0623/0 | U-1367/0 | Z-1279/0 |
| 0642 175 107 316 | 48     | 16      | 190 | 47 | 50 | 17 | U-0620/0 | U-1364/0 | Z-1280/0 |
| 0642 175 107 418 |        | 22      | 195 | 47 | 50 | 19 | U-0621/0 | U-1365/0 | Z-1280/0 |
| 0642 175 107 510 |        | 27      | 200 | 47 | 50 | 21 | U-0622/0 | U-1366/0 | Z-1280/0 |
| 0642 175 107 611 |        | 32      | 205 | 47 | 50 | 24 | U-0623/0 | U-1367/0 | Z-1280/0 |
| 0642 175 107 713 |        | 40      | 210 | 47 | 50 | 27 | U-0624/0 | U-1368/0 | Z-1280/0 |

Typical order/Sposób zamawiania: 0642 175 107 713 lub 7510-48-40-K

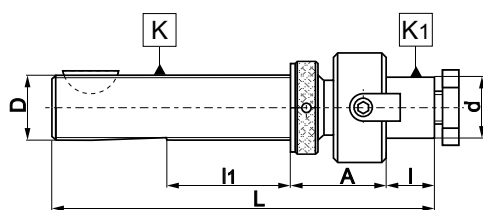
## Type 7520

### ADJUSTABLE ADAPTERS

for cutters with driving slot DIN 138

### TRZPIENIE Z REGULACJĄ OSIOWĄ

do frezów z rowkiem zabierakowym DIN 138



## DIN 6327

| Code No / Kod Nr | K <sub>D</sub> | K <sub>1</sub> <sub>d</sub> | L   | I1 | A  | I  |          |          |
|------------------|----------------|-----------------------------|-----|----|----|----|----------|----------|
| 0642 175 200 009 | 28             | 16                          | 140 | 30 | 36 | 17 | U-0620/0 | Z-1278/0 |
| 0642 175 200 100 |                | 22                          | 142 | 30 | 36 | 19 | U-0621/0 | Z-1278/0 |
| 0642 175 220 113 |                | 27                          | 144 | 30 | 36 | 21 | U-0622/0 | Z-1278/0 |
| 0642 175 200 202 |                | 32                          | 149 | 30 | 38 | 24 | U-0623/0 | Z-1278/0 |
| 0642 175 200 215 | 36             | 16                          | 163 | 36 | 38 | 17 | U-0620/0 | Z-1279/0 |
| 0642 175 200 304 |                | 22                          | 165 | 36 | 38 | 19 | U-0621/0 | Z-1279/0 |
| 0642 175 200 317 |                | 27                          | 167 | 36 | 38 | 21 | U-0622/0 | Z-1279/0 |
| 0642 175 200 406 |                | 32                          | 172 | 36 | 40 | 24 | U-0623/0 | Z-1279/0 |
| 0642 175 200 419 | 48             | 16                          | 189 | 47 | 42 | 17 | U-0620/0 | Z-1280/0 |
| 0642 175 200 508 |                | 22                          | 191 | 47 | 42 | 19 | U-0621/0 | Z-1280/0 |
| 0642 175 200 510 |                | 27                          | 193 | 47 | 42 | 21 | U-0622/0 | Z-1280/0 |
| 0642 175 200 600 |                | 32                          | 198 | 47 | 44 | 24 | U-0623/0 | Z-1280/0 |
| 0642 175 200 612 |                | 40                          | 202 | 47 | 45 | 27 | U-0624/0 | Z-1280/0 |

Typical order/Sposób zamawiania: 0642 175 200 612 lub 7520-48-40-K

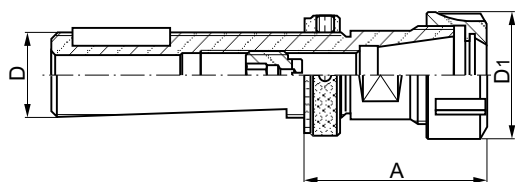
## Type 7813

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## DIN 6327

| Code No / Kod Nr | D  | Collet Tulejka | A  | Capacity Zakres | D1 |         |              |
|------------------|----|----------------|----|-----------------|----|---------|--------------|
| 0642 178 131 006 | 28 | ER25           | 60 | 2-16            | 42 | 9833-25 | M16x1,5x17LH |
| 0642 178 131 200 |    | ER32           | 70 | 2-20            | 50 | 9833-32 | M16x1,5x17LH |
| 0642 178 131 403 | 36 | ER32           | 65 | 2-20            | 50 | 9833-32 | M18x1,5x19LH |
| 0642 178 131 607 |    | ER40           | 78 | 3-26            | 63 | 9833-40 | M18x1,5x19LH |
| 0642 178 131 902 | 48 | ER40           | 82 | 3-26            | 63 | 9833-40 | M18x1,5x19LH |

Typical order/Sposób zamawiania: 0642 178 131 902 lub 7813-48-40-82

#### Standard accessories:

Nut - page 151  
screw

#### Wyposażenie podstawowe:

Nakrętka - str. 151  
wkret

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wyposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151



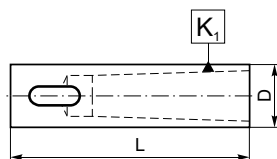
## Type 1875

### ADAPTERS

for tools with Morse taper

### TULEJE REDUKCYJNE

do narzędzi z chwytem Morse'a



- Completely hardened, ground internally and externally
- Cała tuleja hartowana, szlifowany stożek wewnętrzny i średnica zewnętrzna

## DIN 1835

| Code No / Kod Nr | D  | K1<br>Morse | L   |
|------------------|----|-------------|-----|
| 0642 118 753 005 | 20 | 1           | 75  |
| 0642 118 753 107 | 25 | 1           | 75  |
| 0642 118 754 607 |    | 1           | 89  |
| 0642 118 753 209 |    | 2           | 75  |
| 0642 118 754 709 |    | 2           | 100 |
| 0642 118 754 800 | 32 | 1           | 89  |
| 0642 118 753 252 |    | 1           | 100 |
| 0642 118 753 300 |    | 2           | 100 |
| 0642 118 753 402 |    | 3           | 100 |
| 0642 118 754 108 |    | 3           | 120 |
| 0642 118 754 902 | 40 | 1           | 89  |
| 0642 118 753 456 |    | 1           | 100 |
| 0642 118 753 504 |    | 2           | 100 |
| 0642 118 753 606 |    | 3           | 100 |
| 0642 118 754 200 |    | 3           | 120 |
| 0642 118 753 708 |    | 4           | 120 |
| 0642 118 754 301 |    | 4           | 152 |
| 0642 118 755 109 | 50 | 2           | 100 |
| 0642 118 754 403 |    | 3           | 120 |
| 0642 118 754 505 |    | 4           | 152 |

Typical order/Sposób zamawiania: 0642 118 753 504 lub 1875-40-2-100

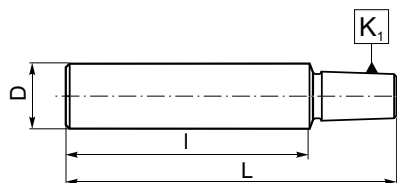
## Type 5348

### DRILL CHUCK MANDRELS

for drill chucks taper DIN 238

### TRZPIENIE

do uchwyty wiertarskich ze stożkiem DIN 238



- Completely hardened and ground
- Cały trzpień hartowany i szlifowany

## DIN 1835

| Code No / Kod Nr | D  | I  | K1<br>DIN | L     |
|------------------|----|----|-----------|-------|
| 0642 153 480 005 | 8  | 35 | B10       | 55.5  |
| 0642 153 480 300 | 10 | 48 | B12       | 72.5  |
| 0642 153 480 107 |    | 50 | B10       | 69.5  |
| 0642 153 480 209 |    | 50 | B12       | 74.5  |
| 0642 153 480 211 |    | 50 | B16       | 83.5  |
| 0642 153 480 504 | 12 | 50 | B16       | 83.5  |
| 0642 153 480 606 |    | 60 | B16       | 93.5  |
| 0642 153 480 708 | 16 | 50 | B16       | 81.0  |
| 0642 153 480 812 |    | 70 | B16       | 101.0 |
| 0642 153 480 800 |    | 70 | B18       | 110.0 |
| 0642 153 481 108 | 20 | 30 | B16       | 63.0  |
| 0642 153 481 505 |    | 60 | B12       | 87.0  |
| 0642 153 481 200 |    | 60 | B16       | 93.0  |
| 0642 153 481 607 |    | 60 | B18       | 100.0 |
| 0642 153 481 301 | 25 | 75 | B16       | 109.0 |
| 0642 153 481 416 | 30 | 70 | B16       | 106.0 |
| 0642 153 481 403 |    | 70 | B18       | 112.0 |

Typical order/Sposób zamawiania: 0642 153 480 504 lub 5348-12x50-B16

## Type 7622

### REDUCING BUSHINGS

for cutters with cylindrical shank and weldon flat DIN 1835-B

### REDUKTORY

do narzędzi z chwytem walcowym Weldon'a DIN 1835-B

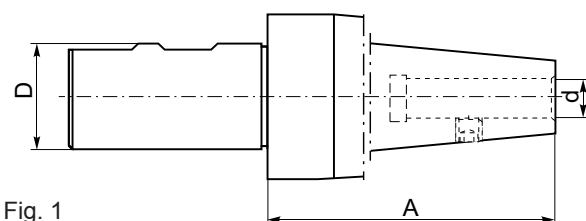


Fig. 1

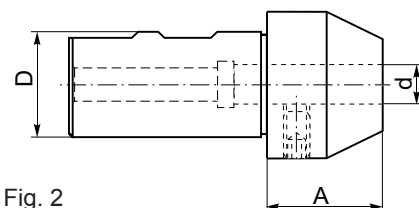


Fig. 2

## DIN 1835

| Code No / Kod Nr | D  | d  | A   | Fig. |          |
|------------------|----|----|-----|------|----------|
| 0642 176 220 103 | 20 | 6  | 30  | 2    | U-4131/0 |
| 0642 176 220 205 |    | 8  | 30  | 2    | U-4132/0 |
| 0642 176 220 307 |    | 10 | 30  | 2    | U-4133/0 |
| 0642 176 220 409 |    | 12 | 35  | 2    | U-4134/0 |
| 0642 176 221 104 | 32 | 6  | 25  | 2    | U-4131/0 |
| 0642 176 221 206 |    | 8  | 25  | 2    | U-4132/0 |
| 0642 176 221 308 |    | 10 | 30  | 2    | U-4133/0 |
| 0642 176 221 400 |    | 12 | 35  | 2    | U-4134/0 |
| 0642 176 221 501 |    | 14 | 40  | 2    | U-4134/0 |
| 0642 176 221 603 |    | 16 | 40  | 2    | U-4135/0 |
| 0642 176 221 705 |    | 18 | 40  | 2    | U-4136/0 |
| 0642 176 221 807 |    | 20 | 40  | 2    | U-4136/0 |
| 0642 176 222 105 | 40 | 8  | 175 | 1    | U-7381/0 |
| 0642 176 222 207 |    | 10 | 175 | 1    | U-7381/0 |
| 0642 176 222 309 |    | 12 | 175 | 1    | U-7381/0 |
| 0642 176 222 400 |    | 16 | 175 | 1    | S-2628/0 |
| 0642 176 222 502 |    | 20 | 175 | 1    | S-2628/0 |
| 0642 176 222 604 |    | 25 | 175 | 1    | S-2628/0 |
| 0642 176 222 706 |    | 32 | 180 | 1    | S-2628/0 |

Typical order/Sposób zamawiania: 0642 176 221 807 lub 7622-32-20

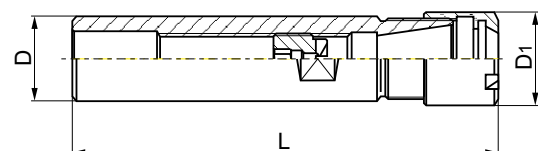
## Type 7812

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



## DIN 1835

| Code No / Kod Nr | D  | Collet<br>Tulejka | L   | Capacity<br>Zakres | D1 |          |              |
|------------------|----|-------------------|-----|--------------------|----|----------|--------------|
| 0642 178 122 421 | 16 | ER16              | 160 | 2-10               | 22 | 9833-16S | M10x11LH     |
| 0642 178 121 420 | 20 | ER16              | 100 | 2-10               | 22 | 9833-16S | M12x1,5x14LH |
| 0642 178 120 007 |    | ER16              | 160 | 2-10               | 22 | 9833-16S | M12x1,5x14LH |

Typical order/Sposób zamawiania: 0642 178 120 007 lub 7812-20-16-160

#### Standard accessories:

Nut - page 151  
screw

#### Wposażenie podstawowe:

Nakrętka - str. 151  
wkret

#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wposażenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## Type 7812

**DIN 1835**

### COLLET CHUCKS ER – SET

for tool with cylindrical shank

### OPRAWKI ZACISKOWE ER - KOMPLET

do narzędzi z chwytem walcowym



| Code No / Kod Nr | D  | Collet<br>Tulejka | L   | Capacity<br>Zakres | Full set pieces<br>Ilość tulejek |
|------------------|----|-------------------|-----|--------------------|----------------------------------|
| 0642 178 122 406 | 16 | ER16              | 160 | 2-10               | 8                                |
| 0642 178 121 405 | 20 | ER16              | 100 | 2-10               | 8                                |
| 0642 178 120 200 |    | ER16              | 160 | 2-10               | 8                                |

Typical order/Sposób zamawiania: 0642 178 120 200 lub 7812-20-16-160 SET

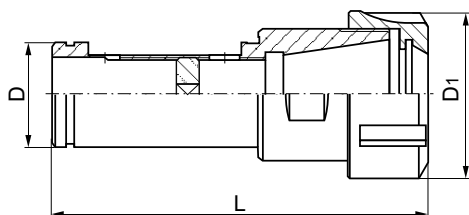
## Type 7815

### COLLET CHUCKS ER

for tool with cylindrical shank

### OPRAWKI ZACISKOWE (do tulejek ER DIN 6499)

do narzędzi z chwytem walcowym



| Code No / Kod Nr | D  | Collet<br>Tulejka | L   | Capacity<br>Zakres | D1 |         |              |
|------------------|----|-------------------|-----|--------------------|----|---------|--------------|
| 0642 178 151 206 | 32 | ER32              | 110 | 2-20               | 50 | 9833-32 | M22x1,5x10LH |
| 0642 178 152 207 | 40 | ER32              | 117 | 2-20               | 50 | 9833-32 | M22x1,5x10LH |

Typical order/Sposób zamawiania: 0642 178 152 207 lub 7815-40-32

#### Standard accessories:

Nut - page 151  
screw

#### Wypożyczenie podstawowe:

Nakrętka - str. 151  
wkret

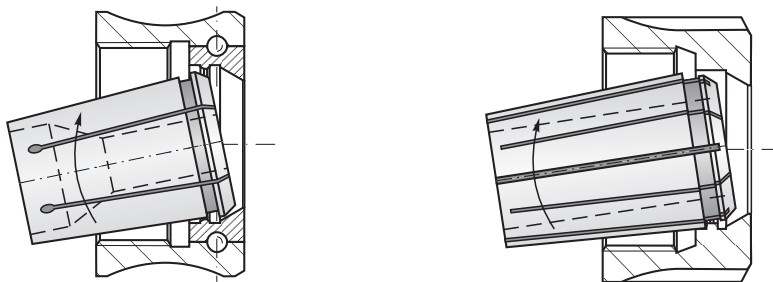
#### Optional accessories:

Collets - page 131  
wrench - page 151

#### Wypożyczenie dodatkowe:

Tulejki zaciskowe - str. 131  
klucz - str. 151

## CLAMPING OF TOOLS IN COLLET HOLDERS MOCOWANIE NARZĘDZI W TULEJKACH ZACISKOWYCH



- To use, first insert the collet into the chuck nut by squeezing the collet and pressing its face into the chuck nut's collar ring until the collet's collar is fully seated
  - Then load the collet into the chuck
  - Put the tool into the collet's hole and clamp the nut by the wrench
  - For collet removal simply squeeze the collet while pulling it from chuck nut at the angle.
- 
- Do nakrętki wkładamy tulejkę pod kątem
  - Zaczepić kanałkiem tulejki o mimiśrodowy występ nakrętki (dla 7618) lub o cylindryczny występ nakrętki (dla 7642)
  - Wcisnąć tulejkę w nakrętkę i włożyć do oprawki
  - W tulejkę włożyć narzędzie i dokręcić nakrętkę
  - Przy wyjmowaniu tulejki należy czynności wykonać w odwrotnej kolejności.

### Type 7618

**COLLETS ER (DIN 6499) - SET**  
for tool with cylindrical shank

**TULEJKI ZACISKOWE ER (DIN 6499) - KOMPLET**  
do narzędzi z chwytem cylindrycznym



| Code No / Kod Nr | Collet Tulejka | Range Zakres d | Full set pieces Ilość tulejek |
|------------------|----------------|----------------|-------------------------------|
| 0642 176 180 808 | ER16           | 2-10           | 8                             |
| 0642 176 182 107 | ER20           | 2-13           | 11                            |
| 0642 176 184 896 | ER25           | 2-16           | 14                            |
| 0642 176 186 816 | ER32           | 2-20           | 18                            |
| 0642 176 189 411 | ER40           | 2-26           | 24                            |

Typical order/Sposób zamawiania: 0642 176 180 808 lub 7618-ER16

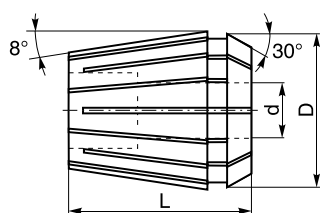
## Type 7618

### COLLETS ER (DIN 6499)

for tool with cylindrical shank

### TULEJKI ZACISKOWE ER (DIN 6499)

do narzędzi z chwytem cylindrycznym



| Code No / Kod Nr | Collet Tulejka | Range Zakres d | D  | L    |
|------------------|----------------|----------------|----|------|
| 0642 176 180 003 | ER16           | 3-2            | 17 | 27,5 |
| 0642 176 180 105 |                | 4-3            | 17 | 27,5 |
| 0642 176 180 207 |                | 5-4            | 17 | 27,5 |
| 0642 176 180 309 |                | 6-5            | 17 | 27,5 |
| 0642 176 180 400 |                | 7-6            | 17 | 27,5 |
| 0642 176 180 502 |                | 8-7            | 17 | 27,5 |
| 0642 176 180 604 |                | 9-8            | 17 | 27,5 |
| 0642 176 180 706 |                | 10-9           | 17 | 27,5 |
| 0642 176 181 004 | ER20           | 3-2            | 21 | 31,5 |
| 0642 176 181 106 |                | 4-3            | 21 | 31,5 |
| 0642 176 181 208 |                | 5-4            | 21 | 31,5 |
| 0642 176 181 300 |                | 6-5            | 21 | 31,5 |
| 0642 176 181 401 |                | 7-6            | 21 | 31,5 |
| 0642 176 181 503 |                | 8-7            | 21 | 31,5 |
| 0642 176 181 605 |                | 9-8            | 21 | 31,5 |
| 0642 176 181 707 |                | 10-9           | 21 | 31,5 |
| 0642 176 181 809 |                | 11-10          | 21 | 31,5 |
| 0642 176 181 900 |                | 12-11          | 21 | 31,5 |
| 0642 176 182 005 |                | 13-12          | 21 | 31,5 |
| 0642 176 183 505 | ER25           | 3-2            | 26 | 34,0 |
| 0642 176 183 607 |                | 4-3            | 26 | 34,0 |
| 0642 176 183 709 |                | 5-4            | 26 | 34,0 |
| 0642 176 183 800 |                | 6-5            | 26 | 34,0 |
| 0642 176 183 902 |                | 7-6            | 26 | 34,0 |
| 0642 176 184 007 |                | 8-7            | 26 | 34,0 |
| 0642 176 184 109 |                | 9-8            | 26 | 34,0 |
| 0642 176 184 200 |                | 10-9           | 26 | 34,0 |
| 0642 176 184 302 |                | 11-10          | 26 | 34,0 |
| 0642 176 184 404 |                | 12-11          | 26 | 34,0 |
| 0642 176 184 506 |                | 13-12          | 26 | 34,0 |
| 0642 176 184 608 |                | 14-13          | 26 | 34,0 |
| 0642 176 184 700 |                | 15-14          | 26 | 34,0 |
| 0642 176 184 801 |                | 16-15          | 26 | 34,0 |
| 0642 176 185 100 | ER32           | 3-2            | 33 | 40,0 |
| 0642 176 185 201 |                | 4-3            | 33 | 40,0 |
| 0642 176 185 303 |                | 5-4            | 33 | 40,0 |
| 0642 176 185 405 |                | 6-5            | 33 | 40,0 |
| 0642 176 185 507 |                | 7-6            | 33 | 40,0 |
| 0642 176 185 609 |                | 8-7            | 33 | 40,0 |
| 0642 176 185 700 |                | 9-8            | 33 | 40,0 |
| 0642 176 185 802 |                | 10-9           | 33 | 40,0 |
| 0642 176 185 904 |                | 11-10          | 33 | 40,0 |
| 0642 176 186 009 |                | 12-11          | 33 | 40,0 |
| 0642 176 186 100 |                | 13-12          | 33 | 40,0 |
| 0642 176 186 202 |                | 14-13          | 33 | 40,0 |
| 0642 176 186 304 |                | 15-14          | 33 | 40,0 |
| 0642 176 186 406 |                | 16-15          | 33 | 40,0 |
| 0642 176 186 508 |                | 17-16          | 33 | 40,0 |
| 0642 176 186 600 |                | 18-17          | 33 | 40,0 |
| 0642 176 186 701 |                | 19-18          | 33 | 40,0 |
| 0642 176 186 803 |                | 20-19          | 33 | 40,0 |
| 0642 176 187 101 | ER40           | 3-2            | 41 | 46,0 |
| 0642 176 187 203 |                | 4-3            | 41 | 46,0 |
| 0642 176 187 305 |                | 5-4            | 41 | 46,0 |
| 0642 176 187 407 |                | 6-5            | 41 | 46,0 |
| 0642 176 187 509 |                | 7-6            | 41 | 46,0 |
| 0642 176 187 600 |                | 8-7            | 41 | 46,0 |
| 0642 176 187 702 |                | 9-8            | 41 | 46,0 |
| 0642 176 187 804 |                | 10-9           | 41 | 46,0 |
| 0642 176 187 906 |                | 11-10          | 41 | 46,0 |
| 0642 176 188 000 |                | 12-11          | 41 | 46,0 |
| 0642 176 188 102 |                | 13-12          | 41 | 46,0 |
| 0642 176 188 204 |                | 14-13          | 41 | 46,0 |
| 0642 176 188 306 |                | 15-14          | 41 | 46,0 |
| 0642 176 188 408 |                | 16-15          | 41 | 46,0 |
| 0642 176 188 500 |                | 17-16          | 41 | 46,0 |
| 0642 176 188 601 |                | 18-17          | 41 | 46,0 |
| 0642 176 188 703 |                | 19-18          | 41 | 46,0 |
| 0642 176 188 805 |                | 20-19          | 41 | 46,0 |
| 0642 176 188 907 |                | 21-20          | 41 | 46,0 |
| 0642 176 189 001 |                | 22-21          | 41 | 46,0 |
| 0642 176 189 103 |                | 23-22          | 41 | 46,0 |
| 0642 176 189 205 |                | 24-23          | 41 | 46,0 |
| 0642 176 189 307 |                | 25-24          | 41 | 46,0 |
| 0642 176 189 409 |                | 26-25          | 41 | 46,0 |

Typical order/Sposób zamawiania: 0642 176 180 003 lub 7618-3-16

## Type 7600

### ER COLLETS - SET

(without chuck) for SA, BT, DIN

### TULEJKI ZACISKOWE ER - KPL

(bez oprawki) do SA, BT, DIN



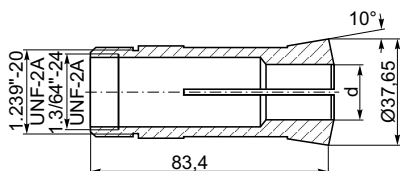
| Code No / Kod Nr | Size<br>Wielkość | 7:24   | Collet 7618<br>ER DIN 6499                                                  | Pcs. | Capacity | A<br>max |
|------------------|------------------|--------|-----------------------------------------------------------------------------|------|----------|----------|
| 0642 176 000 000 | 30-16-8-80       | 30     | 16-3,4,5,6,7,8,9,10                                                         | 8    | 2-10     | 80       |
| 0642 176 000 306 | 30/40-32-8-80    | 30, 40 | 32-6,8,10,12,14,16,18,20                                                    | 8    | 5-20     | 80       |
| 0642 176 000 805 | 30/40-32-8-80PL  | 30, 40 | 32-4,5,6,8,10,12,16,20                                                      | 8PL  | 3-20     | 80       |
| 0642 176 000 859 | 30/40-32-18-80   | 30, 40 | 32-3,4,5,6,7,8,9,10,11,12,<br>13,14,15,16,17,18,19,20                       | 18   | 2-20     | 80       |
| 0642 176 000 887 | 40-25-14-60      | 40     | 25-3,4,5,6,7,8,9,10,11,12,<br>13,14,15,16                                   | 14   | 2-16     | 60       |
| 0642 176 000 950 | 40-32-10-70      | 40     | 32-3,4,6,8,10,12,14,16,18,20                                                | 10   | 2-20     | 70       |
| 0642 176 000 907 | 40-32-18-80-130  | 40     | 32-3,4,5,6,7,8,9,10,11,12,13,<br>14,15,16,17,18,19,20                       | 18   | 2-20     | 80-130   |
| 0642 176 001 001 | 40-40-24-80      | 40     | 40-3,4,5,6,7,8,9,10,11,12,13,<br>14,15,16,17,18,19,20,21,<br>22,23,24,25,26 | 24   | 2-26     | 80       |
| 0642 176 001 409 | 50-32-8-70PL     | 50     | 32-4,5,6,8,10,12,16,20                                                      | 8PL  | 3-20     | 70       |
| 0642 176 001 452 | 50-32-18-130     | 50     | 32-3,4,5,6,7,8,9,10,11,12,13,<br>14,15,16,17,18,19,20                       | 18   | 2-20     | 130      |
| 0642 176 001 500 | 50-40-24-130     | 50     | 40-3,4,5,6,7,8,9,10,11,12,13,<br>14,15,16,17,18,19,20,21,<br>22,23,24,25,26 | 24   | 2-26     | 130      |
| 0642 176 001 874 | 40-16-8-150S     | 40     | 16-3,4,5,6,7,8,9,10                                                         | 8    | 2-10     | 150      |
| 0642 176 001 205 | 50-16-8-150S     | 50     | 16-3,4,5,6,7,8,9,10                                                         | 8    | 2-10     | 150      |

Typical order/Sposób zamawiania: 0642 176 000 000 lub 7600-30-16-8-80

## Type 3000

### COLLETS 5C

### TULEJKI ZACISKOWE 5C



| Code No / Kod Nr | Size<br>Wielkość | D  |
|------------------|------------------|----|
| 0642 830 000 002 | 5C-3             | 3  |
| 0642 830 000 104 | 5C-4             | 4  |
| 0642 830 000 186 | 5C-5             | 5  |
| 0642 830 000 262 | 5C-6             | 6  |
| 0642 830 000 400 | 5C-7             | 7  |
| 0642 830 000 440 | 5C-8             | 8  |
| 0642 830 000 481 | 5C-9             | 9  |
| 0642 830 000 542 | 5C-10            | 10 |
| 0642 830 000 603 | 5C-11            | 11 |
| 0642 830 000 644 | 5C-12            | 12 |
| 0642 830 000 685 | 5C-13            | 13 |
| 0642 830 000 720 | 5C-14            | 14 |
| 0642 830 000 761 | 5C-15            | 15 |
| 0642 830 000 807 | 5C-16            | 16 |
| 0642 830 000 848 | 5C-17            | 17 |
| 0642 830 000 889 | 5C-18            | 18 |
| 0642 830 000 924 | 5C-19            | 19 |
| 0642 830 000 965 | 5C-20            | 20 |
| 0642 830 001 003 | 5C-21            | 21 |
| 0642 830 001 044 | 5C-22            | 22 |
| 0642 830 001 085 | 5C-23            | 23 |
| 0642 830 001 120 | 5C-24            | 23 |
| 0642 830 001 161 | 5C-25            | 25 |
| 0642 830 001 207 | 5C-26            | 26 |

Typical order/Sposób zamawiania: 0642 830 000 002 lub 3000-5C-3

## Type 3000

### COLLETS 5C - SET

### TULEJKI ZACISKOWE 5C - KOMPLET



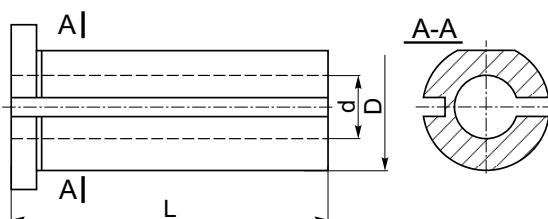
| Code No / Kod Nr | Collet<br>Tulejka | Range<br>Zakres<br>d | Full set pieces<br>Ilość tulejek |
|------------------|-------------------|----------------------|----------------------------------|
| 0642 830 004 403 | 5C                | 3-26                 | 24                               |
| 0642 830 004 505 | 5C                | 3-25                 | 45                               |

Typical order/Sposób zamawiania: 0642 830 004 403 lub 3000-5C-3-26



## Type 1226

### REDUCING SLEEVE TULEJA REDUKCYJNA

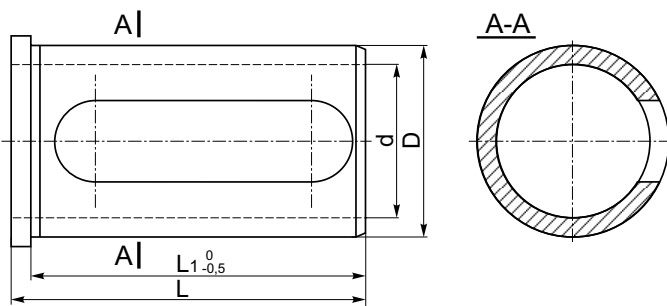


| Code No / Kod Nr | D  | d  | L  |
|------------------|----|----|----|
| 0642 412 260 000 | 20 | 8  | 50 |
| 0642 412 260 012 | 20 | 10 | 50 |
| 0642 412 260 025 | 20 | 12 | 50 |
| 0642 412 260 038 | 20 | 8  | 60 |
| 0642 412 260 040 | 20 | 10 | 60 |
| 0642 412 260 053 | 20 | 12 | 60 |
| 0642 412 260 101 | 25 | 8  | 50 |
| 0642 412 260 114 | 25 | 10 | 50 |
| 0642 412 260 127 | 25 | 12 | 50 |
| 0642 412 260 130 | 25 | 16 | 50 |
| 0642 412 260 142 | 25 | 8  | 60 |
| 0642 412 260 155 | 25 | 10 | 60 |
| 0642 412 260 168 | 25 | 12 | 60 |
| 0642 412 260 170 | 25 | 16 | 60 |
| 0642 412 260 183 | 25 | 12 | 75 |
| 0642 412 260 196 | 25 | 16 | 75 |
| 0642 412 260 203 | 32 | 8  | 60 |
| 0642 412 260 216 | 32 | 10 | 60 |
| 0642 412 260 229 | 32 | 12 | 60 |
| 0642 412 260 231 | 32 | 16 | 60 |
| 0642 412 260 244 | 32 | 20 | 60 |
| 0642 412 260 257 | 32 | 25 | 60 |
| 0642 412 260 260 | 32 | 12 | 75 |
| 0642 412 260 272 | 32 | 16 | 75 |
| 0642 412 260 285 | 32 | 20 | 75 |
| 0642 412 260 298 | 32 | 25 | 75 |
| 0642 412 260 305 | 40 | 12 | 75 |
| 0642 412 260 359 | 40 | 8  | 75 |
| 0642 412 260 361 | 40 | 10 | 75 |
| 0642 412 260 318 | 40 | 16 | 75 |
| 0642 412 260 320 | 40 | 20 | 75 |
| 0642 412 260 333 | 40 | 25 | 75 |
| 0642 412 260 346 | 40 | 32 | 75 |
| 0642 412 260 407 | 50 | 12 | 75 |
| 0642 412 260 410 | 50 | 16 | 75 |
| 0642 412 260 422 | 50 | 20 | 75 |
| 0642 412 260 435 | 50 | 25 | 75 |
| 0642 412 260 448 | 50 | 32 | 75 |
| 0642 412 260 450 | 50 | 40 | 75 |

Typical order/Sposób zamawiania: 0642 412 260 450 lub 1226-50-40-75

## Type 1247

### REDUCING SLEEVE TULEJA REDUKCYJNA

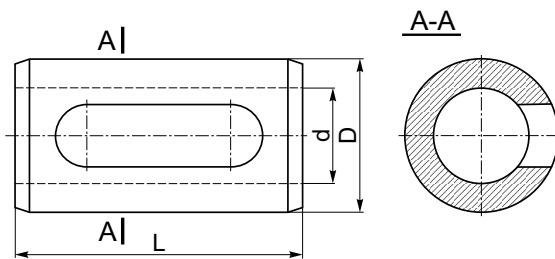


| Code No / Kod Nr | D  | d  | L  | L1 |
|------------------|----|----|----|----|
| 0642.412.471.105 | 32 | 10 | 64 | 60 |
| 0642.412.471.207 | 32 | 12 | 64 | 60 |
| 0642.412.471.309 | 32 | 16 | 64 | 60 |
| 0642.412.471.400 | 32 | 20 | 64 | 60 |
| 0642.412.471.502 | 32 | 25 | 64 | 60 |
| 0642.412.472.106 | 40 | 10 | 74 | 70 |
| 0642.412.472.208 | 40 | 12 | 74 | 70 |
| 0642.412.472.300 | 40 | 16 | 74 | 70 |
| 0642.412.472.401 | 40 | 20 | 74 | 70 |
| 0642.412.472.503 | 40 | 25 | 74 | 70 |
| 0642.412.472.605 | 40 | 32 | 74 | 70 |

Typical order/Sposób zamawiania: 0642 412 260 450 lub 1226-50-40-75

## Type 1248

### REDUCING SLEEVE TULEJA REDUKCYJNA

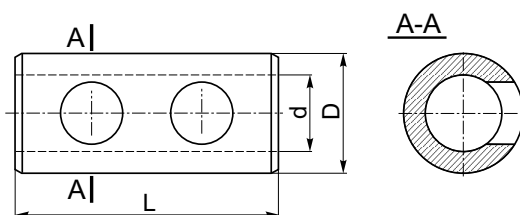


| Code No / Kod Nr | D  | d  | L  |
|------------------|----|----|----|
| 0642.412.480.204 | 32 | 12 | 60 |
| 0642.412.480.217 | 32 | 16 | 60 |
| 0642.412.480.220 | 32 | 20 | 60 |
| 0642.412.480.232 | 32 | 25 | 60 |

Typical order/Sposób zamawiania: 0642 412 260 450 lub 1226-50-40-75

## Type 1249

### REDUCING SLEEVE TULEJA REDUKCYJNA



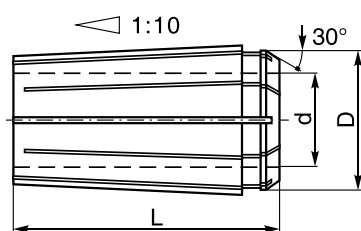
| Code No / Kod Nr | D  | d  | L  |
|------------------|----|----|----|
| 0642.412.490.100 | 20 | 8  | 48 |
| 0642.412.490.113 | 20 | 10 | 48 |
| 0642.412.490.126 | 20 | 12 | 48 |
| 0642.412.490.139 | 20 | 16 | 48 |
| 0642.412.490.141 | 25 | 5  | 55 |
| 0642.412.490.167 | 25 | 8  | 55 |
| 0642.412.490.170 | 25 | 10 | 55 |
| 0642.412.490.182 | 25 | 12 | 55 |
| 0642.412.490.195 | 25 | 16 | 55 |
| 0642.412.490.154 | 25 | 18 | 55 |
| 0642.412.490.202 | 25 | 20 | 55 |

Typical order/Sposób zamawiania: 0642 412 260 450 lub 1226-50-40-75

## Type 7642-B

COLLETS DIN6388 Type B

TULEJKI ZACISKOWE DIN6388 Odmiana B



| Code No / Kod Nr | Collet<br>Tulejka | d         | D     | L  |
|------------------|-------------------|-----------|-------|----|
| 0642 176 425 102 | 16                | 3,0-2,5   | 25,50 | 40 |
| 0642 176 425 128 |                   | 3,5-3,0   | 25,50 | 40 |
| 0642 176 425 130 |                   | 4,0-3,5   | 25,50 | 40 |
| 0642 176 425 143 |                   | 4,5-4,0   | 25,50 | 40 |
| 0642 176 425 156 |                   | 5,0-4,5   | 25,50 | 40 |
| 0642 176 425 169 |                   | 5,5-5,0   | 25,50 | 40 |
| 0642 176 425 171 |                   | 6,0-5,5   | 25,50 | 40 |
| 0642 176 425 184 |                   | 6,5-6,0   | 25,50 | 40 |
| 0642 176 425 197 |                   | 7,0-6,5   | 25,50 | 40 |
| 0642 176 425 204 |                   | 7,5-7,0   | 25,50 | 40 |
| 0642 176 425 217 |                   | 8,0-7,5   | 25,50 | 40 |
| 0642 176 425 220 |                   | 8,5-8,0   | 25,50 | 40 |
| 0642 176 425 232 |                   | 9,0-8,5   | 25,50 | 40 |
| 0642 176 425 245 |                   | 9,5-9,0   | 25,50 | 40 |
| 0642 176 425 258 |                   | 10,0-9,5  | 25,50 | 40 |
| 0642 176 425 260 |                   | 10,5-10,0 | 25,50 | 40 |
| 0642 176 425 273 |                   | 11,0-10,5 | 25,50 | 40 |
| 0642 176 425 286 |                   | 11,5-11,0 | 25,50 | 40 |
| 0642 176 425 299 |                   | 12,0-11,5 | 25,50 | 40 |
| 0642 176 425 306 |                   | 12,5-12,0 | 25,50 | 40 |
| 0642 176 425 319 |                   | 13,0-12,5 | 25,50 | 40 |
| 0642 176 425 321 |                   | 13,5-13,0 | 25,50 | 40 |
| 0642 176 425 334 |                   | 14,0-13,5 | 25,50 | 40 |
| 0642 176 425 347 |                   | 14,5-14,0 | 25,50 | 40 |
| 0642 176 425 350 |                   | 15,0-14,5 | 25,50 | 40 |
| 0642 176 425 362 |                   | 15,5-15,0 | 25,50 | 40 |
| 0642 176 425 375 |                   | 16,0-15,5 | 25,50 | 40 |
| 0642 176 426 103 | 20                | 6,0-5,5   | 29,80 | 45 |
| 0642 176 426 116 |                   | 6,5-6,0   | 29,80 | 45 |
| 0642 176 426 129 |                   | 7,0-6,5   | 29,80 | 45 |
| 0642 176 426 131 |                   | 7,5-7,0   | 29,80 | 45 |
| 0642 176 426 144 |                   | 8,0-7,5   | 29,80 | 45 |
| 0642 176 426 157 |                   | 8,5-8,0   | 29,80 | 45 |
| 0642 176 426 160 |                   | 9,0-8,5   | 29,80 | 45 |
| 0642 176 426 172 |                   | 9,5-9,0   | 29,80 | 45 |
| 0642 176 426 185 |                   | 10,0-9,5  | 29,80 | 45 |
| 0642 176 426 198 |                   | 10,5-10,0 | 29,80 | 45 |
| 0642 176 426 205 |                   | 11,0-10,5 | 29,80 | 45 |
| 0642 176 426 218 |                   | 11,5-11,0 | 29,80 | 45 |
| 0642 176 426 220 |                   | 12,0-11,5 | 29,80 | 45 |
| 0642 176 426 233 |                   | 12,5-12,0 | 29,80 | 45 |
| 0642 176 426 246 |                   | 13,0-12,5 | 29,80 | 45 |
| 0642 176 426 259 |                   | 13,5-13,0 | 29,80 | 45 |
| 0642 176 426 261 |                   | 14,0-13,5 | 29,80 | 45 |
| 0642 176 426 274 |                   | 14,5-14,0 | 29,80 | 45 |
| 0642 176 426 287 |                   | 15,0-14,5 | 29,80 | 45 |
| 0642 176 426 290 |                   | 15,5-15,0 | 29,80 | 45 |
| 0642 176 426 307 |                   | 16,0-15,5 | 29,80 | 45 |
| 0642 176 426 310 |                   | 16,5-16,0 | 29,80 | 45 |
| 0642 176 426 322 |                   | 17,0-16,5 | 29,80 | 45 |
| 0642 176 426 335 |                   | 17,5-17,0 | 29,80 | 45 |
| 0642 176 426 348 |                   | 18,0-17,5 | 29,80 | 45 |
| 0642 176 426 350 |                   | 18,5-18,0 | 29,80 | 45 |
| 0642 176 426 363 |                   | 19,0-18,5 | 29,80 | 45 |
| 0642 176 426 376 |                   | 19,5-19,0 | 29,80 | 45 |
| 0642 176 426 389 |                   | 20,0-19,5 | 29,80 | 45 |

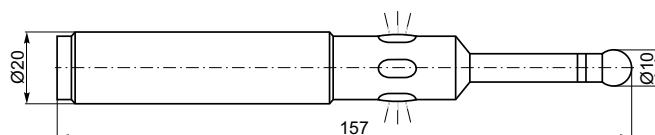
| Code No / Kod Nr | Collet Tulejka | d         | D     | L  |
|------------------|----------------|-----------|-------|----|
| 0642 176 427 104 | 25             | 3,0-2,5   | 35,05 | 52 |
| 0642 176 427 117 |                | 3,5-3,0   | 35,05 | 52 |
| 0642 176 427 120 |                | 4,0-3,5   | 35,05 | 52 |
| 0642 176 427 132 |                | 4,5-4,0   | 35,05 | 52 |
| 0642 176 427 145 |                | 5,0-4,5   | 35,05 | 52 |
| 0642 176 427 158 |                | 5,5-5,0   | 35,05 | 52 |
| 0642 176 427 160 |                | 6,0-5,5   | 35,05 | 52 |
| 0642 176 427 173 |                | 6,5-6,0   | 35,05 | 52 |
| 0642 176 427 186 |                | 7,0-6,5   | 35,05 | 52 |
| 0642 176 427 199 |                | 7,5-7,0   | 35,05 | 52 |
| 0642 176 427 206 |                | 8,0-7,5   | 35,05 | 52 |
| 0642 176 427 219 |                | 8,5-8,0   | 35,05 | 52 |
| 0642 176 427 221 |                | 9,0-8,5   | 35,05 | 52 |
| 0642 176 427 234 |                | 9,5-9,0   | 35,05 | 52 |
| 0642 176 427 247 |                | 10,0-9,5  | 35,05 | 52 |
| 0642 176 427 250 |                | 10,5-10,0 | 35,05 | 52 |
| 0642 176 427 262 |                | 11,0-10,5 | 35,05 | 52 |
| 0642 176 427 275 |                | 11,5-11,0 | 35,05 | 52 |
| 0642 176 427 288 |                | 12,0-11,5 | 35,05 | 52 |
| 0642 176 427 290 |                | 12,5-12,0 | 35,05 | 52 |
| 0642 176 427 308 |                | 13,0-12,5 | 35,05 | 52 |
| 0642 176 427 310 |                | 13,5-13,0 | 35,05 | 52 |
| 0642 176 427 323 |                | 14,0-13,5 | 35,05 | 52 |
| 0642 176 427 336 |                | 14,5-14,0 | 35,05 | 52 |
| 0642 176 427 349 |                | 15,0-14,5 | 35,05 | 52 |
| 0642 176 427 351 |                | 15,5-15,0 | 35,05 | 52 |
| 0642 176 427 364 |                | 16,0-15,5 | 35,05 | 52 |
| 0642 176 427 377 |                | 16,5-16,0 | 35,05 | 52 |
| 0642 176 427 380 |                | 17,0-16,5 | 35,05 | 52 |
| 0642 176 427 392 |                | 17,5-17,0 | 35,05 | 52 |
| 0642 176 427 400 |                | 18,0-17,5 | 35,05 | 52 |
| 0642 176 427 412 |                | 18,5-18,0 | 35,05 | 52 |
| 0642 176 427 425 |                | 19,0-18,5 | 35,05 | 52 |
| 0642 176 427 438 |                | 19,5-19,0 | 35,05 | 52 |
| 0642 176 427 440 |                | 20,0-19,5 | 35,05 | 52 |
| 0642 176 427 453 |                | 20,5-20,0 | 35,05 | 52 |
| 0642 176 427 466 |                | 21,0-20,5 | 35,05 | 52 |
| 0642 176 427 479 |                | 21,5-21,0 | 35,05 | 52 |
| 0642 176 427 481 |                | 22,0-21,5 | 35,05 | 52 |
| 0642 176 427 494 |                | 22,5-22,0 | 35,05 | 52 |
| 0642 176 427 501 |                | 23,0-22,5 | 35,05 | 52 |
| 0642 176 427 514 |                | 23,5-23,0 | 35,05 | 52 |
| 0642 176 427 527 |                | 24,0-23,5 | 35,05 | 52 |
| 0642 176 427 530 |                | 24,5-24,0 | 35,05 | 52 |
| 0642 176 427 542 |                | 25,0-24,5 | 35,05 | 52 |

| Code No / Kod Nr | Collet Tulejka | d         | D     | L  |
|------------------|----------------|-----------|-------|----|
| 0642 176 427 733 | 32             | 6,0-5,5   | 43,70 | 60 |
| 0642 176 427 746 |                | 6,5-6,0   | 43,70 | 60 |
| 0642 176 427 759 |                | 7,0-6,5   | 43,70 | 60 |
| 0642 176 427 761 |                | 7,5-7,0   | 43,70 | 60 |
| 0642 176 427 774 |                | 8,0-7,5   | 43,70 | 60 |
| 0642 176 427 787 |                | 8,5-8,0   | 43,70 | 60 |
| 0642 176 427 790 |                | 9,0-8,5   | 43,70 | 60 |
| 0642 176 427 807 |                | 9,5-9,0   | 43,70 | 60 |
| 0642 176 427 810 |                | 10,0-9,5  | 43,70 | 60 |
| 0642 176 427 822 |                | 10,5-10,0 | 43,70 | 60 |
| 0642 176 427 835 |                | 11,0-10,5 | 43,70 | 60 |
| 0642 176 427 848 |                | 11,5-11,0 | 43,70 | 60 |
| 0642 176 427 850 |                | 12,0-11,5 | 43,70 | 60 |
| 0642 176 427 863 |                | 12,5-12,0 | 43,70 | 60 |
| 0642 176 427 876 |                | 13,0-12,5 | 43,70 | 60 |
| 0642 176 427 889 |                | 13,5-13,0 | 43,70 | 60 |
| 0642 176 427 891 |                | 14,0-13,5 | 43,70 | 60 |
| 0642 176 427 909 |                | 14,5-14,0 | 43,70 | 60 |
| 0642 176 427 911 |                | 15,0-14,5 | 43,70 | 60 |
| 0642 176 427 924 |                | 15,5-15,0 | 43,70 | 60 |
| 0642 176 427 937 |                | 16,0-15,5 | 43,70 | 60 |
| 0642 176 427 940 |                | 16,5-16,0 | 43,70 | 60 |
| 0642 176 427 952 |                | 17,0-16,5 | 43,70 | 60 |
| 0642 176 427 965 |                | 17,5-17,0 | 43,70 | 60 |
| 0642 176 427 965 |                | 18,0-17,5 | 43,70 | 60 |
| 0642 176 427 980 |                | 18,5-18,0 | 43,70 | 60 |
| 0642 176 427 993 |                | 19,0-18,5 | 43,70 | 60 |
| 0642 176 428 003 |                | 19,5-19,0 | 43,70 | 60 |
| 0642 176 428 016 |                | 20,0-19,5 | 43,70 | 60 |
| 0642 176 428 029 |                | 20,5-20,0 | 43,70 | 60 |
| 0642 176 428 031 |                | 21,0-20,5 | 43,70 | 60 |
| 0642 176 428 044 |                | 21,5-21,0 | 43,70 | 60 |
| 0642 176 428 057 |                | 22,0-21,5 | 43,70 | 60 |
| 0642 176 428 060 |                | 22,5-22,0 | 43,70 | 60 |
| 0642 176 428 072 |                | 23,0-22,5 | 43,70 | 60 |
| 0642 176 428 085 |                | 23,5-23,0 | 43,70 | 60 |
| 0642 176 428 098 |                | 24,0-23,5 | 43,70 | 60 |
| 0642 176 428 105 |                | 24,5-24,0 | 43,70 | 60 |
| 0642 176 428 118 |                | 25,0-24,5 | 43,70 | 60 |
| 0642 176 428 120 |                | 25,5-25,0 | 43,70 | 60 |
| 0642 176 428 133 |                | 26,0-25,5 | 43,70 | 60 |
| 0642 176 428 146 |                | 26,5-26,0 | 43,70 | 60 |
| 0642 176 428 159 |                | 27,0-26,5 | 43,70 | 60 |
| 0642 176 428 161 |                | 27,5-27,0 | 43,70 | 60 |
| 0642 176 428 174 |                | 28,0-27,5 | 43,70 | 60 |
| 0642 176 428 187 |                | 28,5-28,0 | 43,70 | 60 |
| 0642 176 428 190 |                | 29,0-28,5 | 43,70 | 60 |
| 0642 176 428 207 |                | 29,5-29,0 | 43,70 | 60 |
| 0642 176 428 210 |                | 30,0-29,5 | 43,70 | 60 |
| 0642 176 428 222 |                | 30,5-30,0 | 43,70 | 60 |
| 0642 176 428 235 |                | 31,0-30,5 | 43,70 | 60 |
| 0642 176 428 248 |                | 31,5-31,0 | 43,70 | 60 |
| 0642 176 428 250 |                | 32,0-31,5 | 43,70 | 60 |

Typical order/Sposób zamawiania: 0642 176 425 156 lub 7642-16-5-4,5 B

## Type 1911

### OPTICAL EDGE FINDER CZUJNIK DOTYKOWY



| Code No / Kod Nr | Type    | D  | d  | L   |
|------------------|---------|----|----|-----|
| 0642 919 110 202 | 1911-LS | 20 | 10 | 157 |

Typical order/Sposób zamawiania: 0642 919 110 202 lub 1911-20x157

- Quick locating edges of workpieces
- saving time of tools positioning for milling machines, jog borers and other machine tools
- accuracy 0.005 mm
- when the finder is used in connection with the control system of machine tool or CNC system it gives possibility of:
  - measuring of inside or outside dimension of workpiece
  - centring and measuring of bores diameters
  - measuring of highness and deepness
- szybkie ustalenie położenia krawędzi przedmiotów obrabianych
- zyskanie na czasie przy pozycjonowaniu narzędzi na frezarkach, wiertarkach i innych obrabiarkach
- dokładność 0,005 mm
- gdy czujnik używany jest w połączeniu z systemem pomiarowym obrabiarki lub systemem CNC możliwe jest:
  - mierzenie wymiarów wewnętrznych i zewnętrznych przedmiotu obrabianego
  - centrowanie i pomiar średnic otworów
  - mierzenie wysokości i głębokości

## Type 5133

### KEYLESS DRILL CHUCKS

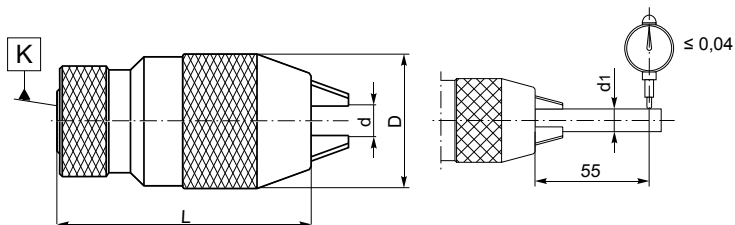
### UCHWYT WIERTARSKI

bezkluczykowy



| precision / precyzyjny |                                       | standard / standardowy |                                       | dmax | K   | Capacity<br>Zakres | D  | L   | d1    |
|------------------------|---------------------------------------|------------------------|---------------------------------------|------|-----|--------------------|----|-----|-------|
| Code No / Kod Nr       | Concentr.<br>error max.<br>Bicie max. | Code No / Kod Nr       | Concentr.<br>error max.<br>Bicie max. |      |     |                    |    |     |       |
| 0642 151 331 209       | 0,04                                  | 0642 151 331 211       | 0,15                                  | 10   | B12 | 0-10               | 43 | 84  | 6; 10 |
| 0642 151 332 200       |                                       | 0642 151 332 212       |                                       |      | J2  |                    |    |     |       |
| 0642 151 332 460       |                                       | 0642 151 332 472       |                                       |      | J33 |                    |    |     |       |
| 0642 151 331 300       | 0,04                                  | 0642 151 331 313       | 0,15                                  | 13   | B12 | 1-13               | 50 | 95  | 6; 13 |
| 0642 151 331 402       |                                       | 0642 151 331 415       |                                       |      | B16 |                    |    |     |       |
| 0642 151 332 301       |                                       | 0642 151 332 314       |                                       |      | J2  |                    |    |     |       |
| 0642 151 332 403       |                                       | 0642 151 332 416       |                                       |      | J6  |                    |    |     |       |
| 0642 151 332 505       |                                       | 0642 151 332 518       |                                       |      | J33 |                    |    |     |       |
| 0642 151 335 304       | 0,04                                  | 0642 151 335 317       | 0,15                                  | 16   | B16 | 3-16               | 58 | 103 | 6; 16 |
| 0642 151 335 406       |                                       | 0642 151 335 419       |                                       |      | B18 |                    |    | 109 |       |
| 0642 151 336 407       |                                       | 0642 151 336 410       |                                       |      | J6  |                    |    | 103 |       |
| 0642 151 336 509       |                                       | 0642 151 335 511       |                                       |      | J3  |                    |    | 109 |       |

Typical order (class I)/Sposób zamawiania (klasa I): 0642 151 331 209 lub 5133-10-B12-I  
Typical order (class II)/Sposób zamawiania (klasa II): 0642 151 331 211 lub 5133-10-B12-II



## Type 5134-EKO

### KEYLESS DRILL CHUCKS

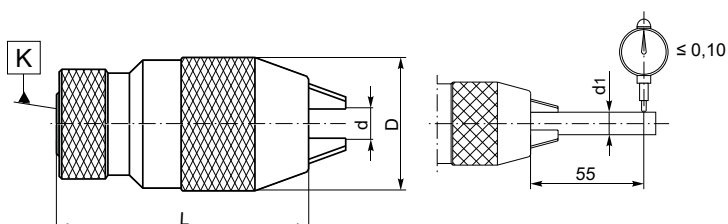
### UCHWYT WIERTARSKI

bezkluczykowy



| Code No / Kod Nr | dmax | K       | Capacity<br>Zakres | D  | L     | d1    |
|------------------|------|---------|--------------------|----|-------|-------|
| 0642 151 341 207 | 10   | B12     | 0-10               | 40 | 85,5  | 6; 10 |
| 0642 151 341 309 |      | B16     | 0-10               | 40 | 85,5  | 6; 10 |
| 0642 151 342 208 |      | 1/2"-20 | 0-10               | 40 | 94,5  | 6; 10 |
| 0642 151 341 400 | 13   | B12     | 1-13               | 43 | 84,5  | 6; 13 |
| 0642 151 341 502 |      | B16     | 1-13               | 43 | 84,5  | 6; 13 |
| 0642 151 342 40  |      | 3/8"-24 | 1-13               | 43 | 93,5  | 6; 13 |
| 0642 151 342 503 |      | 1/2"-20 | 1-13               | 43 | 93,5  | 6; 13 |
| 0642 151 341 706 | 16   | B16     | 3-16               | 50 | 94,5  | 6; 16 |
| 0642 151 341 808 |      | B18     | 3-16               | 50 | 100,5 | 6; 16 |
| 0642 151 342 707 |      | 1/2"-20 | 3-16               | 50 | 103,5 | 6; 16 |
| 0642 151 342 809 |      | 5/8"-16 | 3-16               | 50 | 103,5 | 6; 16 |

Typical order/Sposób zamawiania: 0642 151 342 706 lub 5134-EKO-16-B16



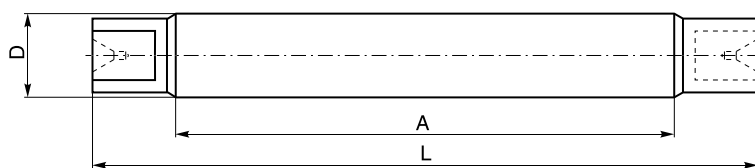
## Type 8500

### LATHE MANDRELS

plain solid with flat driver

### TRZPIENIE TOKARSKIE

stałe z zabierakami płaskimi



| Code No / Kod Nr | D   | A   | L   |
|------------------|-----|-----|-----|
| 0642 585 000 008 | 3   | 36  | 55  |
| 0642 585 000 100 | 3,2 | 45  | 65  |
| 0642 585 000 201 | 3,5 | 45  | 65  |
| 0642 585 000 303 | 4   | 45  | 65  |
| 0642 585 000 405 | 4,5 | 50  | 70  |
| 0642 585 000 507 | 5   | 50  | 70  |
| 0642 585 000 609 | 6   | 50  | 70  |
| 0642 585 000 700 | 7   | 65  | 85  |
| 0642 585 000 802 | 8   | 65  | 85  |
| 0642 585 000 904 | 9   | 71  | 95  |
| 0642 585 001 009 | 10  | 71  | 95  |
| 0642 585 001 100 | 11  | 87  | 115 |
| 0642 585 001 202 | 12  | 87  | 115 |
| 0642 585 001 304 | 13  | 87  | 115 |
| 0642 585 001 406 | 14  | 87  | 115 |
| 0642 585 001 508 | 15  | 96  | 130 |
| 0642 585 001 600 | 16  | 96  | 130 |
| 0642 585 001 701 | 17  | 96  | 130 |
| 0642 585 001 803 | 18  | 96  | 130 |
| 0642 585 001 905 | 19  | 124 | 160 |
| 0642 585 002 000 | 20  | 124 | 160 |
| 0642 585 002 101 | 21  | 124 | 160 |
| 0642 585 002 203 | 22  | 124 | 160 |

| Code No / Kod Nr | D  | A   | L   |
|------------------|----|-----|-----|
| 0642 585 002 305 | 23 | 130 | 170 |
| 0642 585 002 407 | 24 | 130 | 170 |
| 0642 585 002 509 | 25 | 130 | 170 |
| 0642 585 002 600 | 26 | 130 | 170 |
| 0642 585 002 702 | 27 | 137 | 185 |
| 0642 585 002 804 | 28 | 137 | 185 |
| 0642 585 003 000 | 30 | 137 | 185 |
| 0642 585 003 204 | 32 | 170 | 220 |
| 0642 585 003 408 | 34 | 170 | 220 |
| 0642 585 003 500 | 35 | 178 | 230 |
| 0642 585 003 601 | 36 | 178 | 230 |
| 0642 585 003 703 | 37 | 178 | 230 |
| 0642 585 003 805 | 38 | 178 | 230 |
| 0642 585 004 001 | 40 | 187 | 245 |
| 0642 585 004 205 | 42 | 187 | 245 |
| 0642 585 004 409 | 44 | 187 | 245 |
| 0642 585 004 500 | 45 | 199 | 265 |
| 0642 585 004 602 | 46 | 199 | 265 |
| 0642 585 004 806 | 48 | 199 | 265 |
| 0642 585 005 002 | 50 | 199 | 265 |
| 0642 585 005 206 | 52 | 231 | 305 |
| 0642 585 005 400 | 54 | 231 | 305 |
| 0642 585 005 501 | 55 | 231 | 305 |

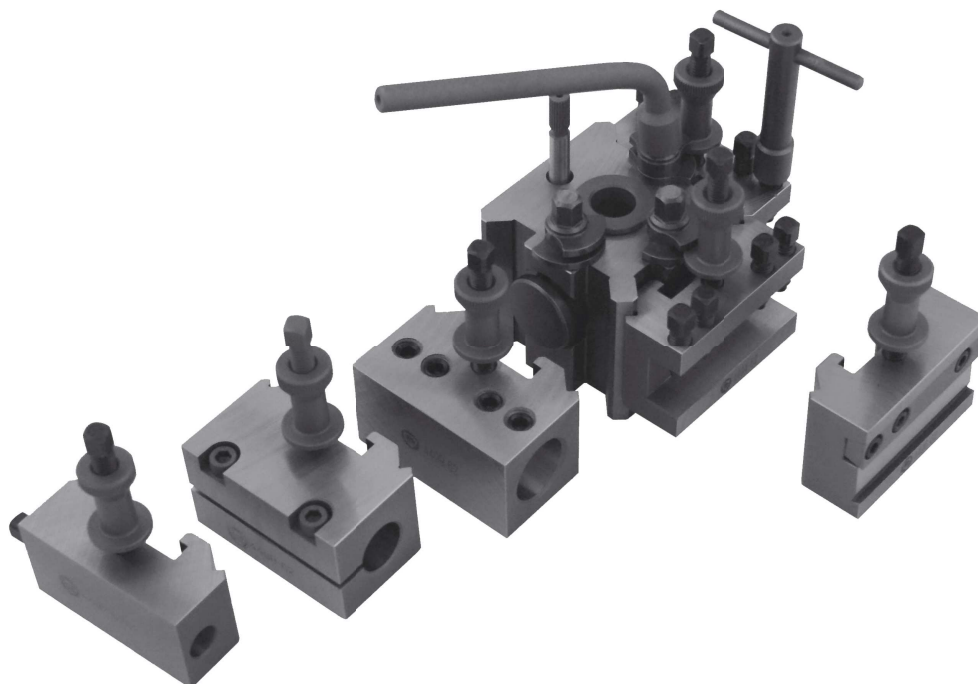
| Code No / Kod Nr | D   | A   | L   |
|------------------|-----|-----|-----|
| 0642 585 005 603 | 56  | 231 | 305 |
| 0642 585 005 807 | 58  | 231 | 305 |
| 0642 585 006 003 | 60  | 231 | 305 |
| 0642 585 006 207 | 62  | 248 | 330 |
| 0642 585 006 309 | 63  | 248 | 330 |
| 0642 585 006 502 | 65  | 248 | 330 |
| 0642 585 006 808 | 68  | 248 | 330 |
| 0642 585 007 004 | 70  | 248 | 330 |
| 0642 585 007 106 | 71  | 266 | 360 |
| 0642 585 007 208 | 72  | 266 | 360 |
| 0642 585 007 503 | 75  | 266 | 360 |
| 0642 585 007 809 | 78  | 266 | 360 |
| 0642 585 008 005 | 80  | 266 | 360 |
| 0642 585 008 209 | 82  | 298 | 400 |
| 0642 585 008 504 | 85  | 298 | 400 |
| 0642 585 008 800 | 88  | 298 | 400 |
| 0642 585 009 006 | 90  | 298 | 400 |
| 0642 585 009 200 | 92  | 316 | 430 |
| 0642 585 009 505 | 95  | 316 | 430 |
| 0642 585 009 800 | 98  | 316 | 430 |
| 0642 585 009 902 | 100 | 316 | 430 |

Typical order/Sposób zamawiania: 0642 585 000 008 lub 8500-3

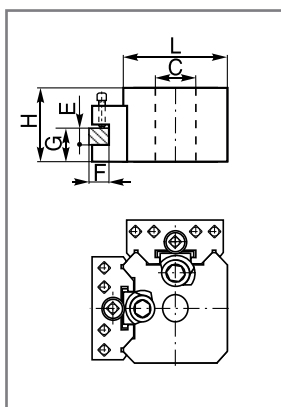


## Type 4414

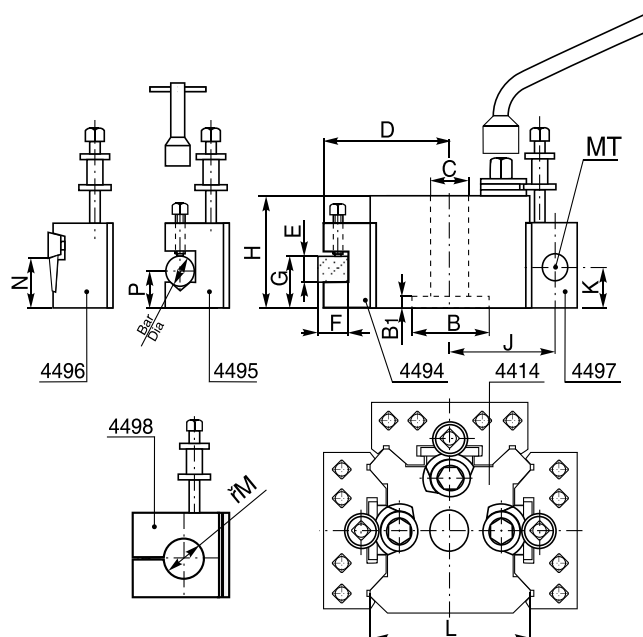
QUICK CHANGE TOOLPOST  
SZYBKOWYMIENNY IMAK TOKARSKI



Size T.00.M  
T.00.B  
T.0

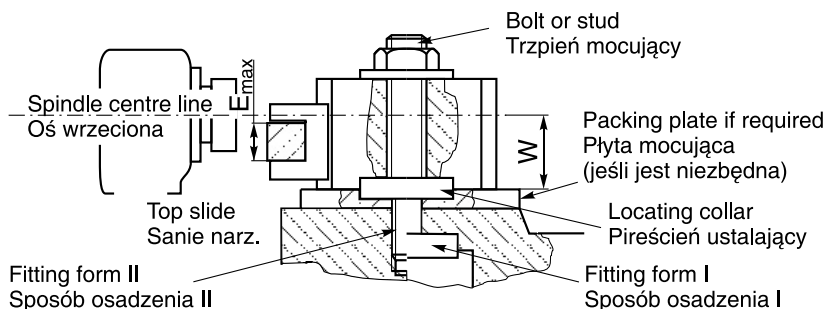


Size T.1  
T.1.X  
T.2  
T.2.T  
T.3  
T.3.HX



| Size   | H     | B     | B1   | C    | D     | E  | F    | Gmax | Gmin | Bar Dia | Pmax | Pmin | Taper | J    | Kmax | Kmin | L     | N    | M    |
|--------|-------|-------|------|------|-------|----|------|------|------|---------|------|------|-------|------|------|------|-------|------|------|
| T.00.M | 37,0  | —     | —    | 11,2 | 50,0  | 12 | 11,0 | 27,0 | 17,0 | 11,0    | 22,5 | 12,5 | —     | —    | —    | —    | 58,0  | 16,0 | —    |
| T.00.B | 42,0  | —     | —    | 16,0 | 50,0  | 12 | 11,0 | 32,0 | 17,0 | 11,0    | 27,5 | 12,5 | —     | —    | —    | —    | 58,0  | 16,0 | —    |
| T.0    | 51,0  | 22,22 | 5,0  | 19,0 | 62,0  | 16 | 13,0 | 36,5 | 20,5 | 16,0    | 32,0 | 16,0 | 1     | 52,5 | 28,5 | 16,0 | 73,0  | 27,0 | 19,0 |
| T.1    | 63,5  | 31,75 | 6,5  | 19,0 | 62,0  | 20 | 13,0 | 46,0 | 30,0 | 16,0    | 44,5 | 25,5 | 1     | 52,5 | 41,0 | 22,0 | 73,0  | 27,0 | 19,0 |
| T.1.X  | 73,0  | 31,75 | 6,5  | 19,0 | 62,0  | 20 | 13,0 | 57,0 | 35,0 | 16,0    | 54,0 | 32,0 | 1&2   | 52,5 | 51,0 | 28,5 | 73,0  | 27,0 | 19,0 |
| T.2    | 71,5  | 44,45 | 8,0  | 25,5 | 74,5  | 20 | 19,0 | 52,5 | 36,5 | 19,0    | 46,0 | 24,0 | 2     | 65,0 | 47,5 | 27,0 | 97,0  | 33,5 | 25,4 |
| T.2.T  | 76,0  | 44,45 | 8,0  | 25,5 | 84,0  | 25 | 25,5 | 58,5 | 39,5 | 19,0    | 50,0 | 24,0 | 2     | 70,0 | 51,0 | 27,0 | 106,0 | 33,5 | 25,4 |
| T.3    | 95,5  | 50,80 | 9,5  | 25,5 | 101,5 | 32 | 25,5 | 74,5 | 51,0 | 25,5    | 51,0 | 28,5 | 3     | 85,5 | 58,2 | 36,5 | 125,5 | 39,5 | 38,0 |
| T.3.HX | 108,0 | 50,80 | 12,5 | 25,5 | 101,5 | 32 | 25,5 | 84,0 | 62,0 | 25,5    | 65,0 | 41,0 | 3     | 85,5 | 58,2 | 36,5 | 125,5 | 39,5 | 38,0 |

## Type 4414



| Size  | W         | max. tools size<br>max. wym. narz.<br>E <sub>max</sub> | bolt size<br>średnica trzp. |
|-------|-----------|--------------------------------------------------------|-----------------------------|
| T.00  | 33,5-19,0 | 12                                                     | 11,5                        |
| T.0   | 36,5-21,0 | 16                                                     | 16,0                        |
| T.1   | 46,0-30,0 | 20                                                     | 16,0                        |
| T.2   | 54,0-36,5 | 20                                                     | 16,0                        |
| T.2.T | 55,5-40,0 | 25                                                     | 16,0                        |
| T.3   | 73,0-51,0 | 32                                                     | 24,0                        |

Dimensions in mm \* Wymiary w mm

### Fitting Instructions

The Toolpost body is fixed to the centre lathe topline with a centre bolt or stud (see sketch). Where a tee slot is provided, a tee bolt of the appropriate size is employed.

The body is set square on the topline, flat face towards the operator; a hole should then be drilled and reamed into the topline to register with the locating pin. The depth of this hole need not exceed 8 mm.

The precision ground recess in the base of the main body is for locating purposes and a collar should be fitted as illustrated.

### Operating Instructions

1. Tool height is adjusted by the knurled sleeve and locked by the screw with the key provided.
2. Clamping and release of the toolholders is with a single action of the operating key.
3. Tools should be re-ground without removing them from the toolholders.
4. Sets of toolholders can be stored for specific component production and called up in the same way as other tooling fixtures.
5. The number of operations and tool changes is limited only by the number of toolholders used.

Toolholders are available separately for all sizes of Quick Change Toolposts

### Instrukcja montażu

Korpus imaka osadzony jest na saniach narzędziowych tokarki przy pomocy trzpienia jak na rysunku. W otworze przeznaczonym do mocowania zwykłego imaka (np. czterożowego), osadzony jest odpowiedniej wielkości trzpień mocujący imaka szybkowymiennego.

Korpus jest umieszczony kwadratową podstawą na górnej powierzchni sań: płaską powierzchnią bez prowadnic zwrócony ku operatorowi. Otwór na trzpień ustalający powinien być wiercony i rozwierczany bazując na położeniu trzpienia w korpusie imaka a jego głębokość nie musi być większa niż 8 mm.

Precyzyjnie wykonany stopień otworu w korpusie służy do ustalenia imaka z wykorzystaniem pierścienia jak na rysunku.

### Instrukcja Obsługi

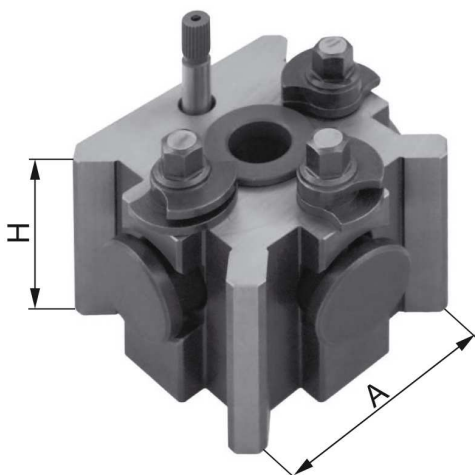
1. Wysokość narzędzia jest regulowana radełkową tulejką i ustalana śrubą przy pomocy klucza.
2. Mocowanie i zwalnianie oprawki odbywa się jednym ruchem załączonego klucza.
3. Wymiana narzędzia odbywa się łącznie z oprawką narzędziową.
4. Zestawy oprawek narzędziowych mogą być dowolnie kompletowane wg potrzeb produkcji i zamawiane podobnie jak inne wyroby narzędziowe.
5. Ilość wykonywanych operacji z danego imaka i możliwych zmian narzędzi ograniczona jest jedynie ilością posiadanych oprawek narzędziowych.

Oprawki są dostępne oddzielnie dla wszystkich wymiarów imaków wg katalogu, oraz w dowolnej ilości poszczególnych rodzajów.

## Type 4414

### QUICK CHANGE TOOLPOST

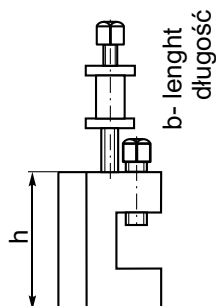
### SZYBKOWYMIENNY IMAK TOKARSKI



| Code No / Kod Nr | TYPE   | A x H   | LATHE CAPACITY   |
|------------------|--------|---------|------------------|
| 0642 444 141 200 | T.00.M | 48x37   | Up to 89 mm      |
| 0642 444 141 301 | T.00.B | 48x42   | Up to 89 mm      |
| 0642 444 142 109 | T.0    | 62x51   | Up to 114 mm     |
| 0642 444 142 200 | T.1    | 62x63   | 114 mm to 127 mm |
| 0642 444 142 302 | T.1.X  | 62x73   | 114 mm to 127 mm |
| 0642 444 141 607 | T.2    | 82x71   | 127 mm to 203 mm |
| 0642 444 141 505 | T.2.T  | 82x76   | 127 mm to 203 mm |
| 0642 444 142 404 | T.3    | 100x92  | 203 mm to 292 mm |
| 0642 444 142 506 | T.3.HX | 100x108 | 203 mm to 292 mm |

## Type 4494

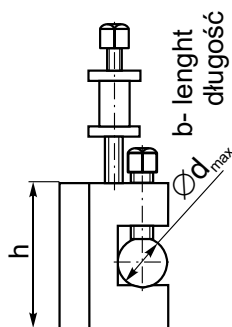
### STANDARD TOOLHOLDERS OPRAWKA STANDARDOWA



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | b x h   |
|------------------|-------------|---------------------|---------|
| 0642 444 941 106 | 48          | T.00M, T.00B        | 58x27   |
| 0642 444 942 107 | 62N         | T.0                 | 73x35   |
| 0642 444 942 209 | 62          | T.1, T.1X           | 73x44   |
| 0642 444 941 401 | 82N         | T.2                 | 98,5x50 |
| 0642 444 941 300 | 82          | T.2T                | 98,5x57 |
| 0642 444 942 300 | 100         | T.3, T.3HX          | 124x70  |

## Type 4495

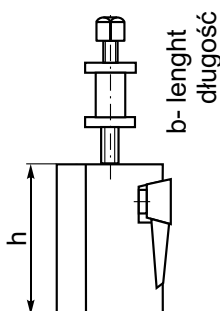
### VEE TOOLHOLDERS OPRAWKA V



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | Ødmax | b x h   |
|------------------|-------------|---------------------|-------|---------|
| 0642 444 951 104 | 48          | T.00M, T.00B        | 11,0  | 58x27   |
| 0642 444 952 105 | 62N         | T.0                 | 16,0  | 73x35   |
| 0642 444 952 207 | 62          | T.1, T.1X           | 16,0  | 73x44   |
| 0642 444 951 400 | 82N         | T.2                 | 19,0  | 98,5x50 |
| 0642 444 951 308 | 82          | T.2T                | 19,0  | 98,5x57 |
| 0642 444 952 309 | 100         | T.3, 3HX            | 25,5  | 124x70  |

## Type 4496

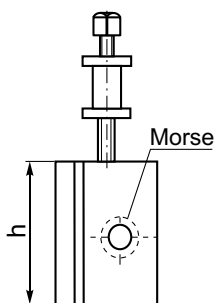
### P/O TOOLHOLDERS OPRAWKA SPECJALNA



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | b x h   |
|------------------|-------------|---------------------|---------|
| 0642 444 961 102 | 48          | T.00M, T.00B        | 58x32   |
| 0642 444 962 205 | 62          | T.0, T.1, T.1X      | 73x47,5 |
| 0642 444 961 306 | 82          | T.2, T.2T           | 98,5x57 |
| 0642 444 962 307 | 100         | T.3, T.3HX          | 124x70  |

## Type 4497

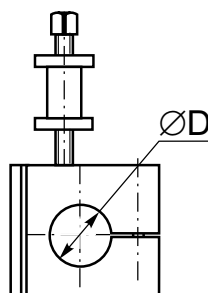
**MORSE TAPER TOOLHOLDERS**  
**OPRAWKA Z GNIAZDEM MORSE'A**



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | Morse |
|------------------|-------------|---------------------|-------|
| 0642 444 972 101 | 62/1N       | T.0                 | 1     |
| 0642 444 972 203 | 62/1        | T.1, T.1X           | 1     |
| 0642 444 972 229 | 62/2        | T.1, T.1X           | 2     |
| 0642 444 971 304 | 82/2        | T.2, T.2T           | 2     |
| 0642 444 972 305 | 100/3       | T.3, T3HX           | 3     |

## Type 4498

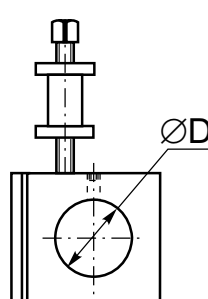
**TOOLHOLDERS for boring bars**  
**OPRAWKA z gniazdem walcowym**



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | ØD   |
|------------------|-------------|---------------------|------|
| 0642 444 980 200 | 62          | T.0, T.1, T.1X      | 19   |
| 0642 444 980 301 | 82          | T.2, T.2T           | 25,4 |
| 0642 444 980 505 | 100         | T.3, T3HX           | 38   |

## Type 4499

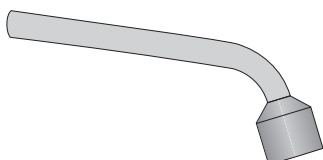
**TOOLHOLDERS for boring bars**  
**OPRAWKA z gniazdem walcowym**



| Code No / Kod Nr | Size Wielk. | USED ON Stosować do | ØD |
|------------------|-------------|---------------------|----|
| 0642 444 990 208 | 62          | T.0, T.1, T.1X      | 25 |
| 0642 444 990 300 | 82          | T.2, T.2T           | 32 |
| 0642 444 990 401 | 100         | T.3, T3HX           | 40 |

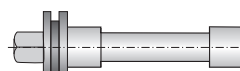
## SPARE PARTS FOR TOOLPOST CZĘŚCI ZAMIENNE DO IMAKA TOKARSKIEGO

### HEX WRENCH KLUCZ Z GNIAZDEM 6-KT.



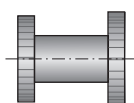
| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 981 446 008 | T.00M, T.00B             |
| 0642 981 446 100 | T.0, T.1, T.1X           |
| 0642 981 446 201 | T.2, T.2T                |
| 0642 981 446 303 | T.3, T.3HX               |

### CLAMP BOLT MIMOŚRÓD



| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 981 441 003 | T.00M                    |
| 0642 981 441 105 | T.00B                    |
| 0642 981 441 207 | T.0, T.1, T.1X           |
| 0642 981 441 309 | T.2                      |
| 0642 981 441 400 | T.2T                     |
| 0642 981 441 502 | T.3, T.3HX               |

### STOP TULEJKA



| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 981 449 013 | T.00M                    |
| 0642 981 449 000 | T.00B                    |
| 0642 981 449 102 | T.0, T.1, T.1X           |
| 0642 981 449 204 | T.2, T.2T                |
| 0642 981 449 306 | T.3, T.3HX               |

### STUD WKREŃ



| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 982 702 000 | T.00M                    |
| 0642 982 702 101 | T.00B                    |
| 0642 982 702 203 | T.0, T.1, T.1X           |
| 0642 982 702 305 | T.2, T.2T                |
| 0642 982 702 407 | T.3, T.3HX               |

### SQUARE HEAD SCREW ŚRUBA



| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 982 701 701 | T.00M                    |
| 0642 982 701 600 | T.00B                    |
| 0642 982 701 009 | T.0, T.1, T.1X           |
| 0642 982 701 202 | T.2, T.2T                |
| 0642 982 701 406 | T.3, T.3HX               |

### STOP SCREW ŚRUBA



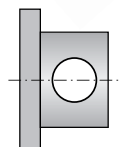
| Code No / Kod Nr | USED ON /<br>Stosować do |
|------------------|--------------------------|
| 0642 982 701 905 | T.00M                    |
| 0642 982 701 803 | T.00B                    |
| 0642 982 701 100 | T.0, T.1, T.1X           |
| 0642 982 701 304 | T.2, T.2T                |
| 0642 982 701 508 | T.3, T.3HX               |

**LOCATION PIN  
KOŁEK USTALAJĄCY**

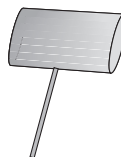

| Code No / Kod Nr | USED ON / Stosować do |
|------------------|-----------------------|
| 0642 981 442 208 | T.0                   |
| 0642 981 442 300 | T.1, T.1X             |
| 0642 981 442 401 | T.2, T.2T             |
| 0642 981 442 503 | T.3                   |
| 0642 981 442 605 | T.3HX                 |

**SPRING  
SPRĘŻYNA**


| Code No / Kod Nr | USED ON / Stosować do |
|------------------|-----------------------|
| 0642 981 443 005 | T.00M, T.00B          |
| 0642 981 443 107 | T.0, T.1, T.1X        |
| 0642 981 443 209 | T.2, T.2T             |
| 0642 981 443 300 | T.3, T.3HX            |

**CLAMP PAD  
DOCISK**


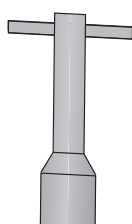
| Code No / Kod Nr | USED ON / Stosować do |
|------------------|-----------------------|
| 0642 981 440 002 | T.00M                 |
| 0642 981 440 104 | T.00B                 |
| 0642 981 440 206 | T.0, T.1, T.1X        |
| 0642 981 440 308 | T.2                   |
| 0642 981 440 400 | T.2T                  |
| 0642 981 440 501 | T.3, T.3HX            |

**T WRENCH  
KLUCZ 6-KT.**


| Code No / Kod Nr | USED ON / Stosować do |
|------------------|-----------------------|
| 0642 981 448 000 | T00M, T00B            |

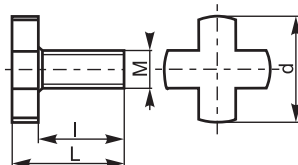
**T WRENCH  
KLUCZ Z GNIAZDEM 4-KT.**


| Code No / Kod Nr | USED ON / Stosować do |
|------------------|-----------------------|
| 0642 982 700 201 | T0, T1, T1X           |
| 0642 982 700 507 | T2, T2T               |
| 0642 982 700 802 | T3, T3HX              |



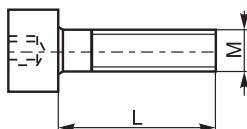
## ACCESSORIES • CZĘŚCI ZAMIENNE

### CUTTER RETAINING SCREW ŚRUBA MOCUJĄCA



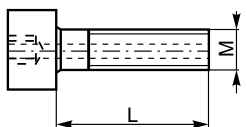
|          | Code No / Kod Nr | M   | l  | d  | L  |
|----------|------------------|-----|----|----|----|
| U-0620/0 | 0642 981 742 108 | M8  | 16 | 20 | 22 |
| U-0621/0 | 0642 981 742 200 | M10 | 18 | 28 | 25 |
| U-0622/0 | 0642 981 742 301 | M12 | 22 | 35 | 30 |
| U-0623/0 | 0642 981 742 403 | M16 | 26 | 42 | 35 |
| U-0624/0 | 0642 981 742 505 | M20 | 30 | 52 | 40 |
| U-0625/0 | 0642 981 742 607 | M24 | 36 | 63 | 48 |

### SCREW ŚRUBA



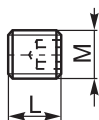
|          | Code No / Kod Nr | M   | L  |
|----------|------------------|-----|----|
| U-1414/0 | 0642 981 892 162 | M12 | 40 |
| U-2042/0 | 0642 985 335 830 | M16 | 50 |
| U-5353/0 | 0642 981 892 121 | M8  | 40 |
| U-6520/0 | 0642 981 892 119 | M8  | 70 |
| U-6523/0 | 0642 981 734 305 | M10 | 80 |
| U-6524/0 | 0642 981 892 147 | M10 | 80 |
| U-7682/0 | 0642 981 892 106 | M6  | 35 |
| U-7683/0 | 0642 981 892 134 | M10 | 40 |

### SCREW ŚRUBA



|          | Code No / Kod Nr | M   | L  |
|----------|------------------|-----|----|
| U-7790/0 | 0642 981 167 207 | M12 | 35 |
| W-1091/0 | 0642 981 168 430 | M6  | 25 |
| W-1092/0 | 0642 981 168 442 | M10 | 25 |
| W-1093/0 | 0642 981 168 455 | M12 | 30 |
| W-1094/0 | 0642 981 168 468 | M16 | 40 |
| W-1095/0 | 0642 981 168 483 | M10 | 30 |
| W-1096/0 | 0642 981 168 496 | M12 | 40 |
| W-1097/0 | 0642 981 168 503 | M16 | 40 |
| W-1098/0 | 0642 981 168 516 | M20 | 50 |

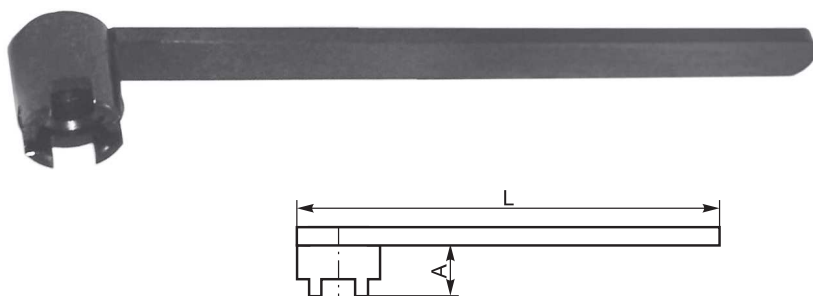
### SCREW WKREŃ



|          | Code No / Kod Nr | M     | L   |
|----------|------------------|-------|-----|
| S-2628/0 | 0642 176 222 400 | M14x1 | 7   |
| U-1997/0 | 0642 981 763 337 | M6    | 6   |
| U-4131/0 | 0642 981 761 103 | M6    | 10  |
| U-4132/0 | 0642 981 761 205 | M8    | 10  |
| U-4133/0 | 0642 981 761 307 | M10   | 12  |
| U-4134/0 | 0642 981 761 409 | M12   | 16  |
| U-4135/0 | 0642 981 761 500 | M14   | 16  |
| U-4136/0 | 0642 981 761 602 | M16   | 16  |
| U-4137/0 | 0642 981 762 002 | M18x2 | 20  |
| U-4138/0 | 0642 981 762 104 | M20x2 | 20  |
| U-4139/0 | 0642 981 762 206 | M24x2 | 25  |
| U-5870/0 | 0642 981 762 308 | M20x2 | 25  |
| U-5887/0 | 0642 981 764 004 | M14   | 15  |
| U-5888/0 | 0642 981 763 003 | M16   | 13  |
| U-6755/0 | 0642 981 762 400 | M16x1 | 6,5 |
| U-6756/0 | 0642 981 763 105 | M16   | 10  |
| U-6757/0 | 0642 981 763 207 | M18x2 | 9,5 |
| U-7381/0 | 0642 981 160 302 | M8    | 6   |
| U-7382/0 | 0642 981 160 506 | M10   | 10  |



## CLAMPING KEY KLUCZ



| Code No / Kod Nr | Size<br>Wielk. | L   | A  |
|------------------|----------------|-----|----|
| 0642 198 760 106 | 13             | 160 | 16 |
| 0642 198 760 208 | 16             | 180 | 20 |
| 0642 198 760 300 | 22             | 200 | 23 |
| 0642 198 760 401 | 27             | 225 | 32 |
| 0642 198 760 503 | 32             | 250 | 36 |
| 0642 198 760 605 | 40             | 280 | 40 |
| 0642 198 760 707 | 50             | 315 | 45 |
| 0642 198 760 809 | 60             | 355 | 50 |

## NUT NAKRETKA



|          | Code No / Kod Nr | M      | H    |
|----------|------------------|--------|------|
| S-0772/0 | 0642 985 870 001 | 12x1,5 | 10,5 |
| S-0774/0 | 0642 985 870 103 | 16x1,5 | 12   |
| S-0776/0 | 0642 985 870 205 | 22x1,5 | 15,5 |
| S-0778/0 | 0642 985 870 307 | 27x1,5 | 17,5 |
| S-0780/0 | 0642 985 870 409 | 36x1,5 | 21   |
| S-0782/0 | 0642 985 870 500 | 48x1,5 | 23   |
| S-0784/0 | 0642 985 870 602 | 68x1,5 | 25,5 |

## NUT NAKRETKA



|          | Code No / Kod Nr | M       | H  |
|----------|------------------|---------|----|
| S-0881/0 | 0642 981 541 000 | M12x1   | 6  |
| S-0884/0 | 0642 981 541 102 | M16x1,5 | 7  |
| S-0887/0 | 0642 981 541 204 | M20x1   | 8  |
| S-0891/0 | 0642 981 541 306 | M22x1   | 9  |
| S-0894/0 | 0642 981 541 408 | M27x2   | 12 |
| S-0897/0 | 0642 981 541 500 | M30x2   | 12 |
| S-0901/0 | 0642 981 541 601 | M36x3   | 14 |
| S-0905/0 | 0642 981 541 703 | M45x3   | 16 |
| S-0909/0 | 0642 981 541 805 | M52x3   | 16 |

## DRIVING RING ZABIERAK



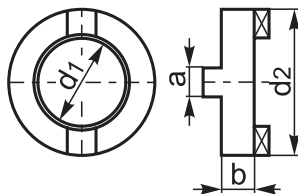
|          | Code No / Kod Nr | a  | d  | D  |
|----------|------------------|----|----|----|
| S-0880/0 | 0642 981 540 000 | 4  | 10 | 18 |
| S-0883/0 | 0642 981 540 101 | 4  | 13 | 21 |
| S-0886/0 | 0642 981 540 203 | 5  | 16 | 27 |
| S-0890/0 | 0642 981 540 305 | 6  | 19 | 32 |
| S-0893/0 | 0642 981 540 407 | 7  | 22 | 39 |
| S-0896/0 | 0642 981 540 509 | 8  | 27 | 46 |
| S-0900/0 | 0642 981 540 600 | 10 | 32 | 56 |
| S-0904/0 | 0642 981 540 702 | 12 | 40 | 65 |
| S-0908/0 | 0642 981 540 804 | 14 | 50 | 80 |

## SCREW WKREŃ



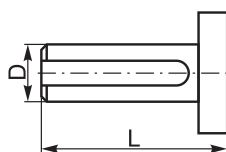
|          | Code No / Kod Nr | M   | L  |
|----------|------------------|-----|----|
| U-0293/0 | 0642 981 759 000 | M8  | 16 |
| U-0757/0 | 0642 981 759 013 | M10 | 20 |
| U-1599/0 | 0642 981 759 026 | M5  | 12 |
| U-6317/0 | 0642 981 759 039 | M6  | 14 |
| U-6318/0 | 0642 981 759 041 | M12 | 22 |
| U-6793/0 | 0642 981 759 054 | M16 | 30 |
| U-6794/0 | 0642 981 759 067 | M20 | 40 |

## DRIVING RING ZABIERAK



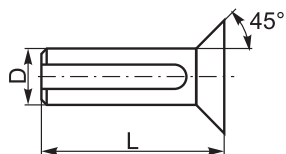
|          | Code No / Kod Nr | d1 | d2 | a  | b  |
|----------|------------------|----|----|----|----|
| U-1364/0 | 0642 981 741 107 | 16 | 32 | 8  | 10 |
| U-1365/0 | 0642 981 741 209 | 22 | 40 | 10 | 12 |
| U-1366/0 | 0642 981 741 300 | 27 | 48 | 12 | 12 |
| U-1367/0 | 0642 981 741 402 | 32 | 58 | 14 | 14 |
| U-1368/0 | 0642 981 741 504 | 40 | 70 | 16 | 14 |
| U-1369/0 | 0642 981 741 606 | 50 | 90 | 18 | 16 |

## CAP DOCISK



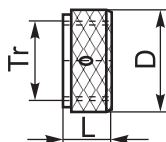
|          | Code No / Kod Nr | L  | D  |
|----------|------------------|----|----|
| U-6510/0 | 0642 981 732 008 | 52 | 16 |
| U-6511/0 | 0642 981 732 100 | 82 | 16 |
| U-6512/0 | 0642 981 732 201 | 52 | 22 |
| U-6513/0 | 0642 981 732 303 | 82 | 22 |
| U-6514/0 | 0642 981 732 405 | 52 | 27 |
| U-6515/0 | 0642 981 732 507 | 82 | 27 |
| U-6516/0 | 0642 981 732 609 | 52 | 32 |
| U-6517/0 | 0642 981 732 700 | 82 | 32 |
| U-6518/0 | 0642 981 732 802 | 52 | 40 |
| U-6519/0 | 0642 981 732 904 | 82 | 40 |

## CAP DOCISK KĄTOWY



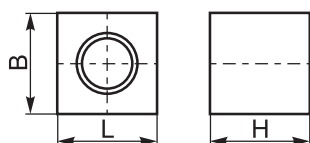
|          | Code No / Kod Nr | L  | D  |
|----------|------------------|----|----|
| U-6510/1 | 0642 981 732 010 | 52 | 16 |
| U-6511/1 | 0642 981 732 112 | 82 | 16 |
| U-6512/1 | 0642 981 732 214 | 52 | 22 |
| U-6513/1 | 0642 981 732 316 | 82 | 22 |
| U-6514/1 | 0642 981 732 418 | 52 | 27 |
| U-6515/1 | 0642 981 732 510 | 82 | 27 |
| U-6516/1 | 0642 981 732 611 | 52 | 32 |
| U-6517/1 | 0642 981 732 713 | 82 | 32 |
| U-6518/1 | 0642 981 732 815 | 52 | 40 |
| U-6519/1 | 0642 981 732 917 | 82 | 40 |

## NUT NAKRĘTKA

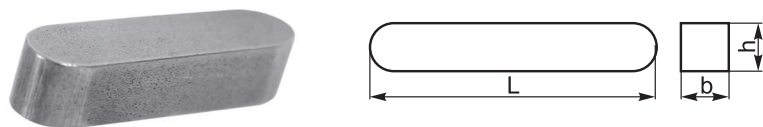


|          | Code No / Kod Nr | Tr       | DC   | L  |
|----------|------------------|----------|------|----|
| Z-1275/0 | 0642 981 300 002 | Tr16x1,5 | 24,6 | 12 |
| Z-1276/0 | 0642 981 300 104 | Tr20x2   | 31,6 | 12 |
| Z-1278/0 | 0642 981 300 308 | Tr28x2   | 39,6 | 12 |
| Z-1279/0 | 0642 981 300 400 | Tr36x2   | 49,6 | 14 |
| Z-1280/0 | 0642 981 300 501 | Tr48x2   | 66,6 | 18 |

## SQUARE DRIVE KAMIEN



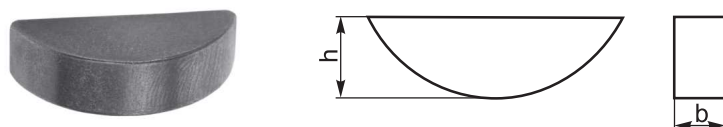
|          | Code No / Kod Nr | B    | L    | H  |
|----------|------------------|------|------|----|
| U-6227/0 | 0642 981 173 100 | 15,9 | 16,5 | 16 |

**KEY  
WPUST**


|          | Code No / Kod Nr | L  | b  | h |
|----------|------------------|----|----|---|
| U-1355/0 | 0642 981 748 001 | 20 | 4  | 4 |
| U-1356/0 | 0642 981 748 103 | 25 | 6  | 6 |
| U-1357/0 | 0642 981 748 205 | 25 | 7  | 7 |
| U-1358/0 | 0642 981 748 307 | 32 | 8  | 7 |
| U-1359/0 | 0642 981 748 409 | 32 | 10 | 8 |
| U-1360/0 | 0642 981 748 500 | 36 | 12 | 8 |

**KEY  
WPUST**


|          | Code No / Kod Nr | L  | b  | h |
|----------|------------------|----|----|---|
| U-6526/0 | 0642 981 733 009 | 45 | 4  | 4 |
| U-6527/0 | 0642 981 733 100 | 75 | 4  | 4 |
| U-6528/0 | 0642 981 733 202 | 45 | 6  | 6 |
| U-6529/0 | 0642 981 733 304 | 75 | 6  | 6 |
| U-6530/0 | 0642 981 733 406 | 45 | 7  | 7 |
| U-6531/0 | 0642 981 733 508 | 75 | 7  | 7 |
| U-6532/0 | 0642 981 733 600 | 45 | 8  | 7 |
| U-6533/0 | 0642 981 733 701 | 75 | 8  | 7 |
| U-6534/0 | 0642 981 733 803 | 45 | 10 | 8 |
| U-6535/0 | 0642 981 733 905 | 75 | 10 | 8 |

**KEY  
WPUST**


|          | Code No / Kod Nr | b  | h   |
|----------|------------------|----|-----|
| S-0898/0 | 0642 981 542 157 | 6  | 9   |
| U-0097/0 | 0642 981 542 001 | 3  | 3,7 |
| U-0098/0 | 0642 981 542 116 | 5  | 6,5 |
| U-0106/0 | 0642 981 542 409 | 12 | 19  |
| U-0648/0 | 0642 981 542 103 | 4  | 5   |
| U-0649/0 | 0642 981 542 205 | 8  | 11  |
| U-0650/0 | 0642 981 542 307 | 10 | 16  |

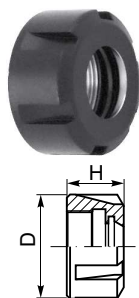
**DRIVE TANG  
KAMIEN**


|          | Code No / Kod Nr | B    | H  | L    |
|----------|------------------|------|----|------|
| S-2111/0 | 0642 981 731 200 | 12   | 9  | 24   |
| S-2114/0 | 0642 981 731 302 | 14   | 12 | 28   |
| S-2117/0 | 0642 981 731 007 | 8    | 7  | 17   |
| S-2121/0 | 0642 981 731 109 | 10   | 8  | 20,6 |
| S-2124/0 | 0642 981 731 002 | 16   | 12 | 32   |
| U-5974/0 | 0642 981 731 903 | 18   | 16 | 33   |
| U-6064/0 | 0642 981 280 102 | 15,9 | 16 | 20   |
| U-6065/0 | 0642 981 280 204 | 25,4 | 25 | 34,5 |
| U-6066/0 | 0642 981 280 306 | 25,4 | 25 | 29,5 |

|          | Code No / Kod Nr | B  | H  | L    |
|----------|------------------|----|----|------|
| W-1945/0 | 0642 981 720 008 | 8  | 8  | 16,8 |
| W-1946/0 | 0642 981 720 010 | 10 | 10 | 20,4 |
| W-1947/0 | 0642 981 720 023 | 12 | 12 | 24,1 |
| W-1948/0 | 0642 981 720 036 | 14 | 14 | 27,8 |
| W-1949/0 | 0642 981 720 049 | 16 | 16 | 31,8 |
| W-3649/0 | -                | 14 | 12 | 22,8 |
| W-3651/0 | -                | 16 | 12 | 23,8 |

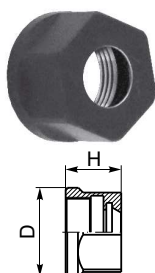
## NUTS NAKRĘTKI

### Type 9833



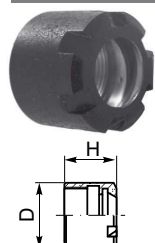
| Code No / Kod Nr | For Do | DIN 6499 | D  | H    |
|------------------|--------|----------|----|------|
| 0642 198 330 102 | ER16   | D16      | 32 | 17,5 |
| 0642 198 330 204 | ER20   | D20      | 35 | 19,0 |
| 0642 198 330 306 | ER25   | D25      | 42 | 20,0 |
| 0642 198 330 408 | ER32   | D32      | 50 | 22,5 |
| 0642 198 330 500 | ER40   | D40      | 63 | 25,5 |

### Type 9833-D



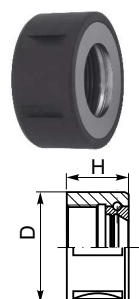
| Code No / Kod Nr | For Do | D  | H    |
|------------------|--------|----|------|
| 0642 198 331 001 | ER 11  | 19 | 11,0 |
| 0642 198 331 103 | ER16   | 28 | 17,5 |
| 0642 198 331 205 | ER20   | 34 | 20,0 |

### Type 9833-S



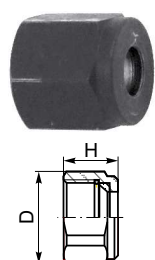
| Code No / Kod Nr | For Do | D  | H  |
|------------------|--------|----|----|
| 0642 198 229 900 | ER11   | 16 | 12 |
| 0642 198 330 000 | ER16   | 22 | 18 |
| 0642 198 330 026 | ER20   | 28 | 19 |
| 0642 198 330 041 | ER25   | 35 | 20 |

### Type 9835



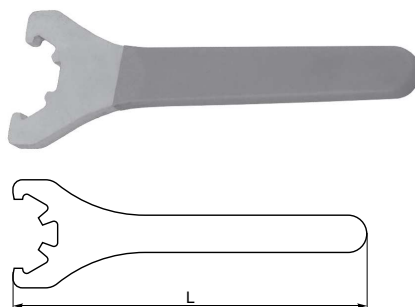
| Code No / Kod Nr | For Do  | DIN 6388 | D  | H    |
|------------------|---------|----------|----|------|
| 0642 198 350 109 | 7642-16 | D16      | 43 | 24,0 |
| 0642 198 350 200 | 7642-20 | D20      | 50 | 28,0 |
| 0642 198 350 302 | 7642-25 | D25      | 60 | 30,0 |
| 0642 198 350 404 | 7642-32 | D32      | 72 | 33,5 |
| 0642 198 350 506 | 7642-40 | D40      | 85 | 37,0 |

### Type 9836

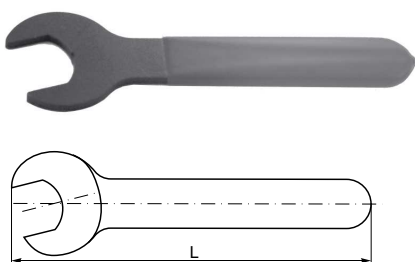


| Code No / Kod Nr | For Do | D  | H  |
|------------------|--------|----|----|
| 0642 198 360 018 | DA100  | 27 | 40 |
| 0642 198 360 107 | DA180  | 39 | 23 |
| 0642 198 360 300 | DA200  | 27 | 24 |

## KEYS KLUCZE



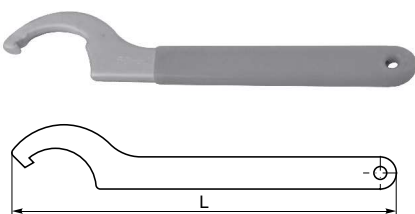
| Code No / Kod Nr | For Do | L   |
|------------------|--------|-----|
| 0642 981 771 804 | ER16   | 150 |
| 0642 981 771 817 | ER20   | 170 |
| 0642 981 771 820 | ER25   | 190 |
| 0642 981 771 832 | ER32   | 240 |
| 0642 981 771 845 | ER40   | 270 |
| 0642 981 771 858 | ER50   | 340 |



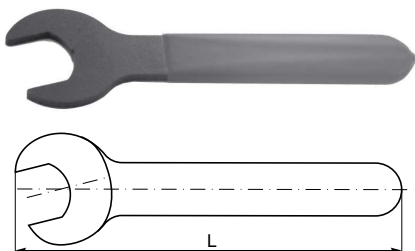
| Code No / Kod Nr | For Do | L   |
|------------------|--------|-----|
| 0642 981 771 921 | ER11   | 125 |
| 0642 981 771 950 | ER16   | 170 |
| 0642 981 771 975 | ER20   | 140 |



| Code No / Kod Nr | For Do | L   |
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| 0642 198 770 056 | ER11   | 95  |
| 0642 198 770 104 | ER16   | 119 |
| 0642 198 770 206 | ER20   | 131 |
| 0642 198 770 308 | ER25   | 143 |



| Code No / Kod Nr | For Do | L   |
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| 0642 981 772 013 | 16     | 180 |
| 0642 981 772 026 | 20     | 204 |
| 0642 981 772 039 | 25     | 227 |
| 0642 981 772 041 | 32     | 252 |
| 0642 981 772 067 | 40     | 320 |



| Code No / Kod Nr | For Do | L   |
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| 8854       | INTERCHANGEABLE INSERTS * KOŃCÓWKI WYMIENNE        | 118           |
| 8855       | EXTRACTOR * ŚCIĄGACZ                               | 118           |
| 8882       | REVOLVING CENTERING TAPER * KŁY TOKARSKIE OBROTOWE | 120           |
| 8883       | CENTERING TAPER * TARCZA STOŻKOWA                  | 120           |
| 9157       | BODY ROTATING * OPRAWA OBROTOWA                    | 120           |
| 9833-D     | NUTS * NAKRĘTKI                                    | 151           |
| 9833-S     | NUTS * NAKRĘTKI                                    | 151           |
| 9833       | NUTS * NAKRĘTKI                                    | 151           |
| 9835       | NUTS * NAKRĘTKI                                    | 151           |
| 9836       | NUTS * NAKRĘTKI                                    | 151           |
| 9882-A     | PULL STUDS * KOŃCÓWKI                              | 30            |
| 9882-B     | PULL STUDS * KOŃCÓWKI                              | 30            |
| 9883-A     | PULL STUDS * KOŃCÓWKI                              | 48            |
| 9883-B     | PULL STUDS * KOŃCÓWKI                              | 48            |