Insulated tools

Insulated wrenches

Insulated pliers

Insulated screwdrivers

Insulated ratchets

Insulated sockets

Other insulated tools

Ultimate protection

Unior insulated VDE tools ensure ultimate protection even when used around live circuits with up to a 1000-volt potential. The utility of all tools is thoroughly verified by means of the impact strength, electrical, flame-retardancy, insulation adhesion and stamp tests, with each tool being tested individually.

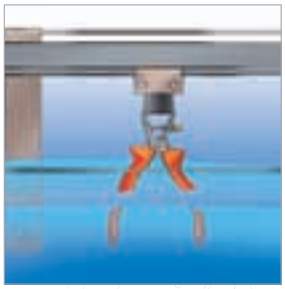
High-quality steel

Insulated wrenches, pliers, shears, screwdrivers and other tools for working with electrical and other power installations are made of high-quality tool steel with added protection, and designed for simple and safe use.

VDE regulations

VDE insulated and tested according to the VDE regulations, Unior tools for work in electrically live environments meet the requirements of the internationally acknowledged European EN 60900 standard.

Flame retardancy test
The flame is applied to the test piece for 10 seconds. The test piece is acceptable if the height of the flame on the burning handle does not exceed 120 mm in an observation period of 20 seconds after the burner has been removed.



Electrical test (10kV)
Before testing the tools are immersed in a bath of water at 23° C for 24 hours +- 5 hours. The test pieces are acceptable if there is no electrical discharge, spark over or flashover, and if the current leakage is less than 1mA for 20 mm insulation.

VDE BI line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- heavy duty double component handles
- jet stamp Unior

VDE DP line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- double layered insulation VDE tools, double safety
- establish wear of your VDE DP tools, just in time

VDE line

- material: special composition steel suitable for hardening and tempering
- forged, entirely hardened and tempered
- cutting edges induction hardened
- head polished
- surface finish: chrome plated
- heavy duty plastic handles

Wrenches

- material: chrom vanadium

Screwdrivers

- blade: chrome-vanadium-molybdenum steel
- burnished tip
- three component material
- hanging hole

- blade: chrome-vanadium-molybdenum steel
- burnished tip
- handle: polypropylene
- hanging hole

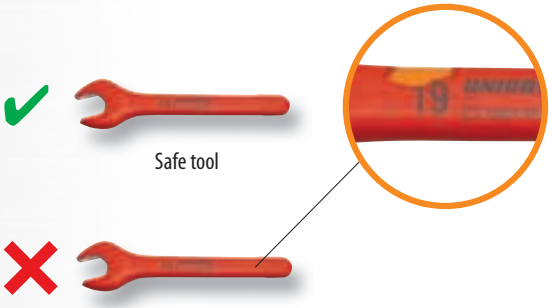
ORANGE AS A WARNING SIGN:

The double plastic protection of the VDE tools ensures double safety, because it enables the recognition of worn out tools in due time. When the tool gets worn out, an orange colour appears (the second protection layer), which is a sign that the tool should be replaced immediately.

Hand tools for live working up to 1000 V A.C.

Sign of the institution certifying the tools (VERBAND DEUTSCHER ELEKTROTECHNIKER).

A sign indicating that the tools are in accordance with the signed standard (DIN), which prescribes the basic demands for tools (dimension, hardness, mechanical testing etc.).



Insulation test
Before testing the test piece is heated to 70 C -/+ 2° C for 168 hours. The hanger is loaded with weights (500 N). The duration of test is 3 minutes. The test piece is acceptable if the handle remains firmly attached to the conducting part.

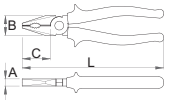
Stamp test
The indenter is loaded with a weight of 20 N and is applied to the centre of the handle. The test is successful if the test piece subsequently passes the electrical test.

Impact test
The test is carried out at an ambient temperature of +/- 23°C. The hammer is allowed to fall freely on the test piece 3 times. The test piece is acceptable if the handle is not cracked, broken or does not show signs of flaking.

406/1VDE

Combination pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *made according to standard ISO 5746 and EN 60900*



	L	B	C	A
605007	140	23	32	8
605008	160	24	35	9.5
605009	180	27	38	10
605010	200	29	41	10.5
605011	220	32	47	11

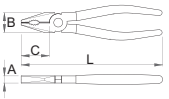
cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
605007	140	1,6	2,0
605008	160	1,6	2,0
605009	180	1,8	2,5
605010	200	2,0	2,5
605011	220	2,0	3,0

406/1VDEDP

Combination pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 5746 and EN 60900*



	L	B	C	A
619177	140	23	32	8
619178	160	24	35	9.5
619179	180	27	38	10
619180	200	29	41	10.5
619181	220	32	47	11

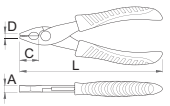
cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
619177	140	1,6	2,0
619178	160	1,6	2,0
619179	180	1,8	2,5
619180	200	2,0	2,5
619181	220	2,0	3,0

406/4E

Electronic combination pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *heavy duty double - component handles*



	L	B	C	A
620069	120	13.6	15.8	8.2

cutting capacity (10N=1kg)

	L	(max 750-850 N/mm²)
620069	120	1,5

406/1VDEBI

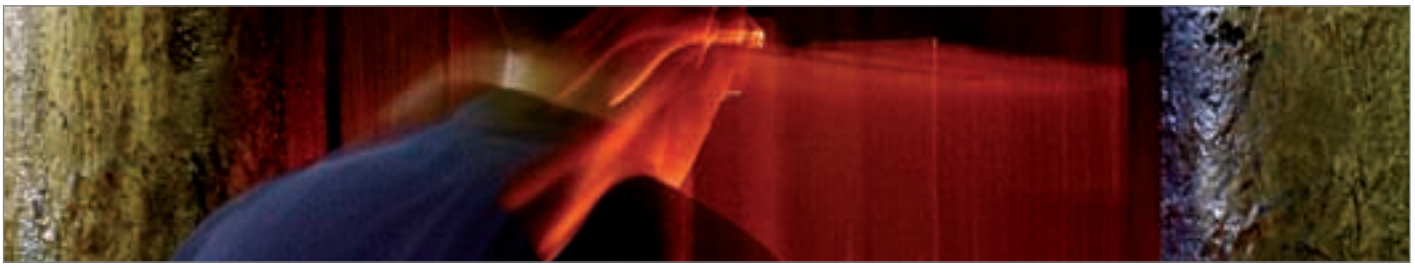
Combination pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5746 and EN 60900*

	L	B	C	A
610421	160	24	35	9.5
610422	180	27	38	10
610423	200	29	41	10.5
610424	220	32	47	11

cutting capacity (10N=1kg)

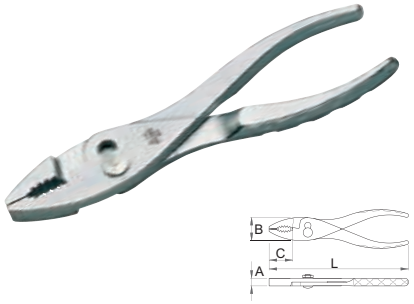
	L	(max 1600 N/mm²)	(max 650 N/mm²)
610421	160	1,6	2,0
610422	180	1,8	2,5
610423	200	2,0	2,5
610424	220	2,0	3,0



418/2

Combination slip - join pliers for gas tubes

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *with wire cutter*
- *two possibilities for jaw setting*
- *surface finish: chrome plated to standard EN12540*

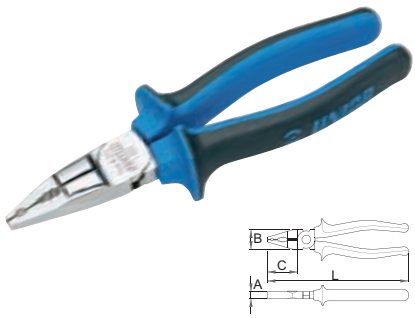


	L	B	A	C
601262	160	5	9	28
601263	180	5	10	30

420/1BI

Linemen`s pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*



	L	B	C	A
607873	180	24	45	11

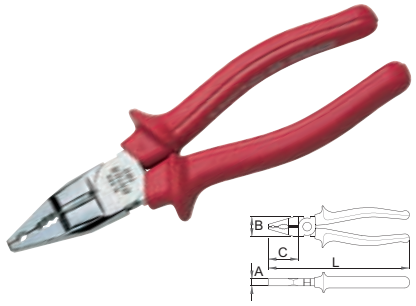
cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
607873	180	1,8	2,5

420/1VDE

Linemen`s pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *made according to standard EN 60900*



	L	B	C	A
607125	180	24	45	11

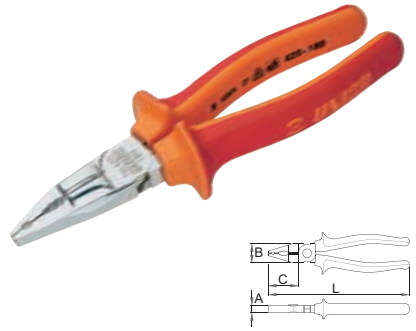
cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
607125	180	1,8	2,5

420/1VDEBI

Linemen`s pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard EN 60900*



	L	B	C	A
610425	180	24	45	11

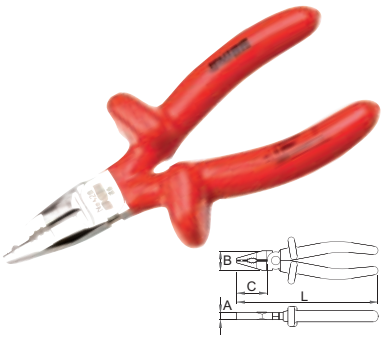
cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
610425	180	1,8	2,5

420/1VDEDP

Linemen`s pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard EN 60900*
- *made according to standard EN 60900*



	L	B	C	A
619176	180	24	45	11

cutting capacity (10N=1kg)

	L	(max 1600 N/mm²)	(max 650 N/mm²)
619176	180	1,8	2,5

423.1R
Ring terminals (20 pcs)

	A	mm²	L
609193	3	0.5 - 1.5	17
609194	4	0.5 - 1.5	17
609195	5	0.5 - 1.5	20

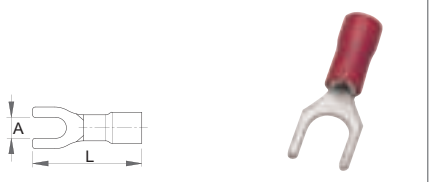
423.1B
Ring terminals (20 pcs)

	A	mm²	L
609196	4	1.5 - 2.5	22
609197	5	1.5 - 2.5	22
609198	6	1.5 - 2.5	27
609199	8	1.5 - 2.5	27

423.1J
Ring terminals (20 pcs)

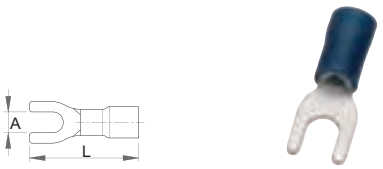
	A	mm²	L
609200	5	2.5 - 6	26
609201	6	2.5 - 6	31
609202	8	2.5 - 6	34
609203	10	2.5 - 6	34

423.2R
Spade terminals (20 pcs)



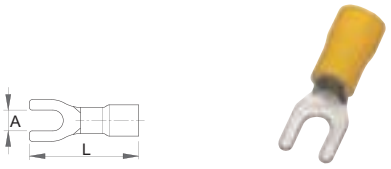
	A	mm²	L
609204	3	0.5 - 1.5	21
609205	4	0.5 - 1.5	21
609206	5	0.5 - 1.5	21

423.2B
Spade terminals (20 pcs)



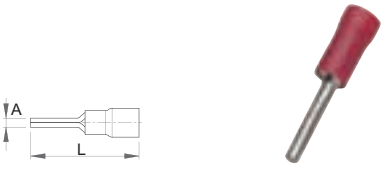
	A	mm²	L
609207	4	1.5 - 2.5	21
609208	5	1.5 - 2.5	21

423.2J
Spade terminals (20 pcs)



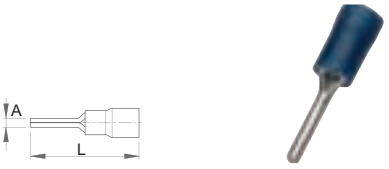
	A	mm²	L
609209	4	2.5 - 6	25
609210	5	2.5 - 6	25
609211	6	2.5 - 6	25

423.3R
Spade terminals (20 pcs)



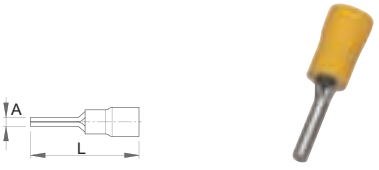
	A	mm²	L
609212	1.9	0.5 - 1.5	21

423.3B
Spade terminals (20 pcs)



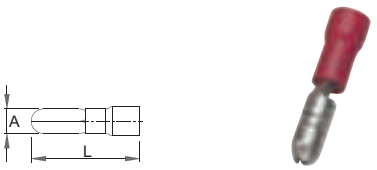
	A	mm²	L
609213	1.9	1.5 - 2.5	21

423.3J
Spade terminals (20 pcs)



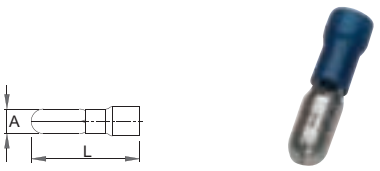
	A	mm²	L
609214	2.8	2.5 - 6	25

423.4R
Male connectors (20 pcs)



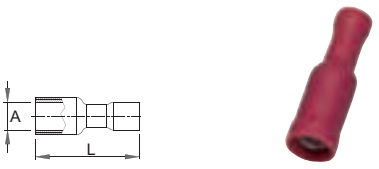
	A	mm²	L
609215	4	0.5 - 1.5	21

423.4B
Male connectors (20 pcs)



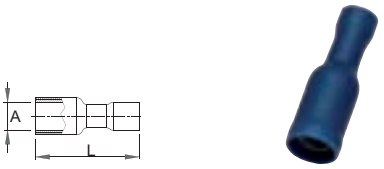
	A	mm²	L
609216	5	1.5 - 2.5	21

423.5R
Female connectors (20 pcs)



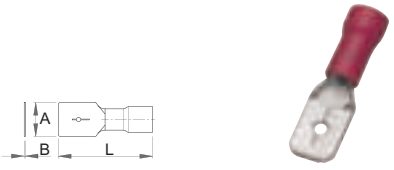
	A	mm²	L
609217	4	0.5 - 1.5	24

423.5B
Female connectors (20 pcs)



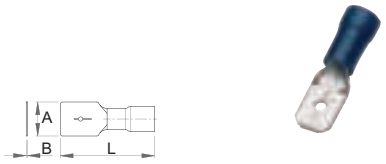
	A	mm²	L
609218	5	1.5 - 2.5	24

423.6R
Male spade terminals (20 pcs)



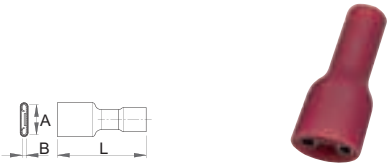
	A	B	mm²	L
609219	6.3	0.8	0.5 - 1.5	22

423.6B
Male spade terminals (20 pcs)



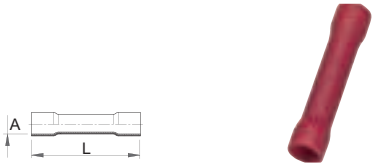
	A	B	mm²	L
609220	6.3	0.8	1.5 - 2.5	22

423.8R
Insulated female spade terminals (20 pcs)



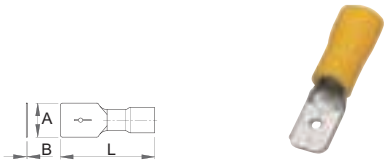
	A	B	mm²	L
609226	6.3	0.8	0.5 - 1.5	23

423.10R
Cable connectors (20 pcs)



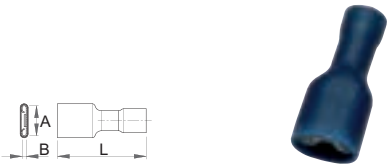
	A	mm²	L
609231	1.6	0.5 - 1.5	25

423.6J
Male spade terminals (20 pcs)



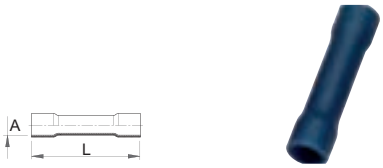
	A	B	mm²	L
609221	6.3	0.8	2.5 - 6	22

423.8B
Insulated female spade terminals (20 pcs)



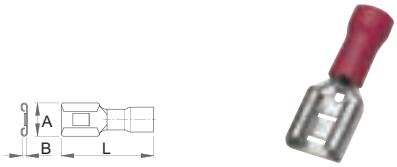
	A	B	mm²	L
609227	6.3	0.8	1.5 - 2.5	24

423.10B
Cable connectors (20 pcs)



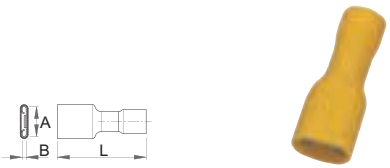
	A	mm²	L
609232	2.3	1.5 - 2.5	26

423.7R
Female spade terminals (20 pcs)



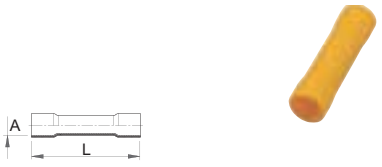
	A	B	mm²	L
609222	2.8	0.5	0.5 - 1.5	20
609223	6.3	0.8	0.5 - 1.5	22

423.8J
Insulated female spade terminals (20 pcs)



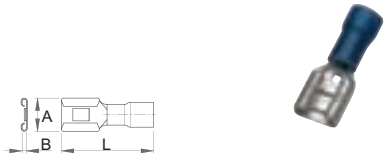
	A	B	mm²	L
609228	6.3	0.8	2.5 - 6	24

423.10J
Cable connectors (20 pcs)



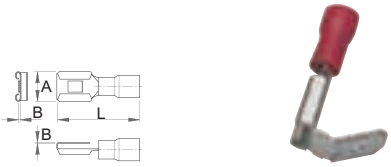
	A	mm²	L
609233	3.6	2.5 - 6	26

423.7B
Female spade terminals (20 pcs)



	A	B	mm²	L
609224	6.3	0.8	1.5 - 2.5	22

423.9R
Insulated female spade terminals (20 pcs)

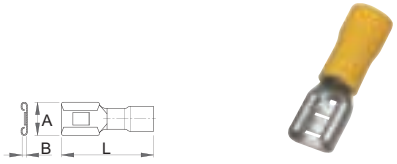


	A	B	mm²	L
609229	6.3	0.8	0.5 - 1.5	22

423.11R
Rapid connectors (20 pcs)

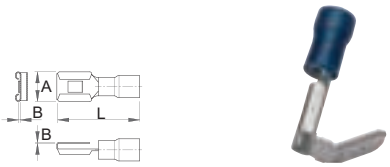
	mm²	L
609234	0.5 - 1.5	20

423.7J
Female spade terminals (20 pcs)



	A	B	mm²	L
609225	6.3	0.8	2.5 - 6	22

423.9B
Insulated female spade terminals (20 pcs)



	A	B	mm²	L
609230	6.3	0.8	1.5 - 2.5	22

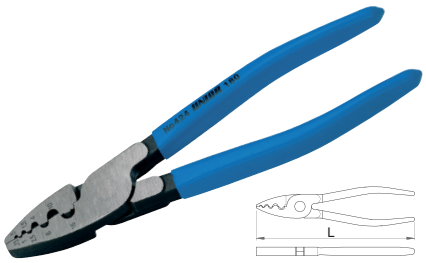
423.11B
Rapid connectors (20 pcs)

	mm²	L
609235	1.5 - 2.5	20

424/4P

Crimping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *for non insulated terminals (dim. 140 from 0,5-2,5mm², dim. 180 0,5-16mm²)*
- *handles plastic dipped*

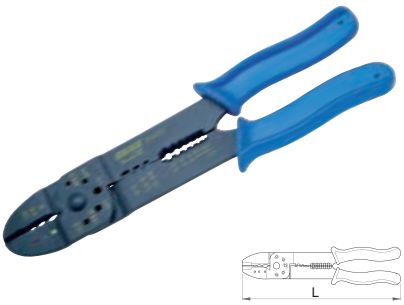


	mm²	L
607949	0.5 - 2.5	140
607950	0.25 - 16	180

425/4B

Crimping pliers

- *material: sheet metal*
- *entirely hardened and tempered*
- *for insulated and non insulated open terminals (1,5-6mm²), for cutting cables and stripping insulation*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*



	mm²	L
601137	1.5 - 6	240

426/3A

Crimp - grip pliers

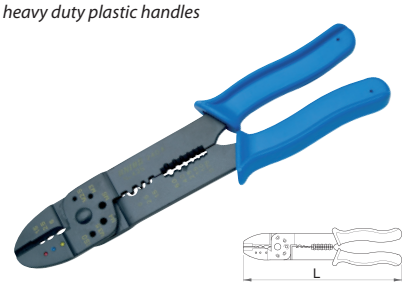
- *for insulated terminals (0,5-6mm²), for cutting cables and wires*
- *toggle joint ensures high compression pressure with little effort*
- *tool steel jaws, oil hardened, phosphated*
- *handles nickel plated*
- *material: sheet metal*

	mm²	L
601138	0.5 - 6	220

425/4A

Crimping pliers

- *material: sheet metal*
- *entirely hardened and tempered*
- *for insulated and closed non insulated terminals (1,5-6mm²), for cutting cables and stripping insulation*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*

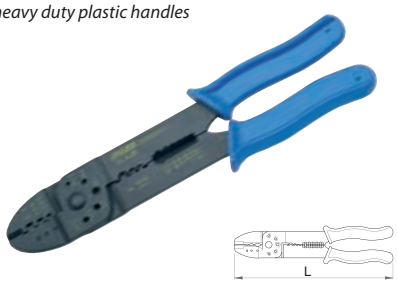


	mm²	L
601136	1.5 - 6	240

425/4AB

Crimping pliers

- *material: sheet metal*
- *entirely hardened and tempered*
- *for non insulated standard and closed terminals (1,5-6mm²), for cutting cables and stripping insulation*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*



	mm²	L
605806	1.5 - 6	240

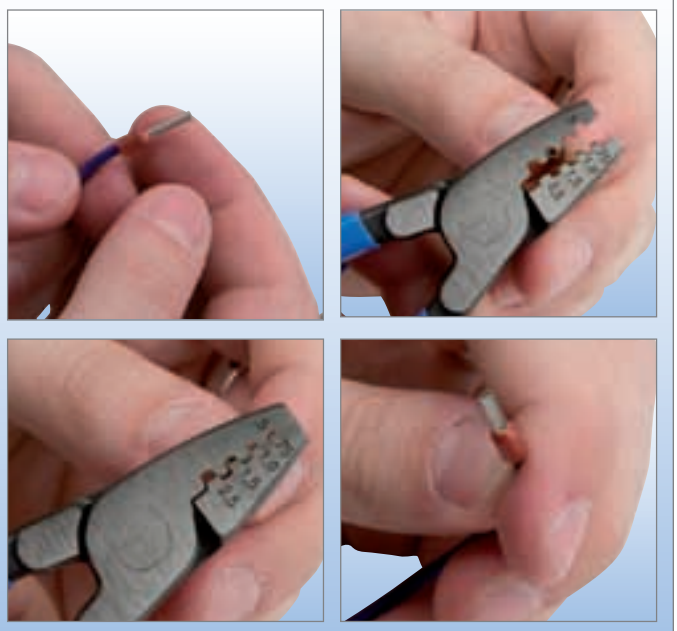
426/3B

Crimp - grip pliers

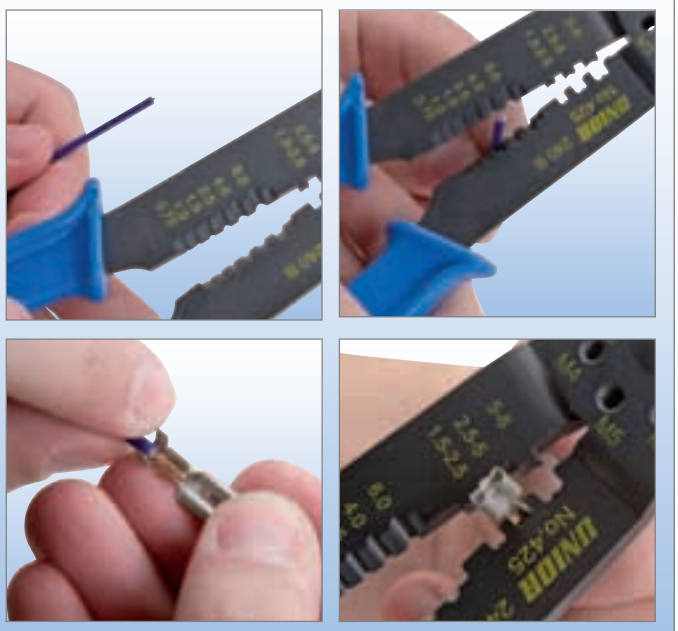
- *for non insulated terminals (0,5-6mm²), for cutting cables and wires*
- *toggle joint ensures high compression pressure with little effort*
- *tool steel jaws, oil hardened, phosphated*
- *handles nickel plated*
- *material: sheet metal*

	mm²	L
601139	0.5 - 10	220

424/4P USE



425/4 USE



427/4AG

Crimp grip pliers

- *for cord end sleeves 0.08-10mm² / AWG 28-7*
- *strong metal crimping profile with electrical plating*
- *square crimping performs a better contact than traditional crimping profile*
- *reinforced connecting spring for longer usage life*

621550

427/4BG

Modular crimping pliers

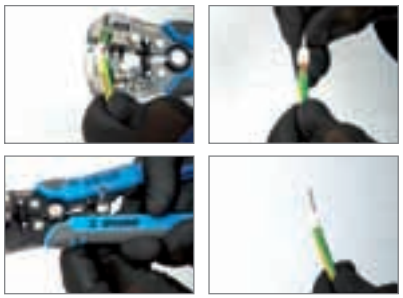
- *professional tool for cutting and stripping unshielded ribbon telephone cables*
- *for crimping 4-, 6- and 8-pole Western plugs type RJ 10 (7.65 mm width), type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)*
- *exact crimping process due to parallel crimping*
- *with additional stripping device for round cables*
- *with length cutter and dismantling knife for ribbon cables 6 and 12 mm width*

621551

427/4CG

Crimp grip pliers

- *special designed clamping jaws hold the wire securely during the stripping process*
- *swivel knob micro-adjusts for thinner wire to 30AWG (0.05mm²) or thicker wire to 8AWG (8mm²)*
- *crimp non-insulated terminals 10-22AWG (1.5 to 6.0mm²)*
- *crimp insulated terminals 10-22AWG (1.5 to 6.0mm²)*
- *crimp auto ignition terminals 7 to 8mm*



621552

427/4DG

Modular crimping pliers

- *tool for cutting and stripping unshielded ribbon telephone cables*
- *for crimping 6- and 8-pole Western plugs type RJ 11/12 (9.65 mm width) and type RJ 45 (11.68 mm width)*
- *exact crimping process due to parallel crimping*
- *with additional stripping device for round cables*
- *with length cutter and dismantling knife for ribbon cables 6 and 12 mm width*

621553

427/4FG

Crimp grip pliers

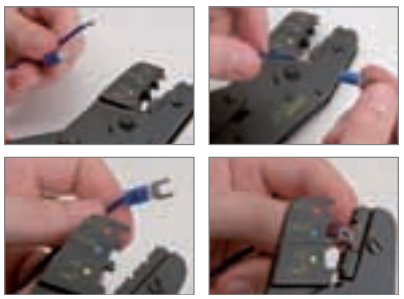
- *hexagon crimping*
- *lever transmission permits light force transfer*
- *very easy to handle*
- *the respective cross-section is set by rotating profile disks*

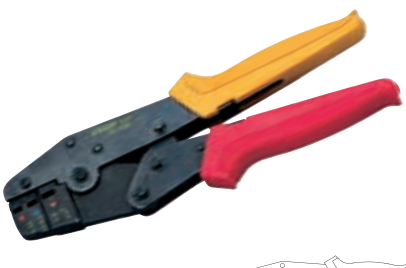
621555

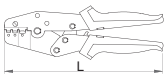
428/4

Crimp lever pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *toggle joint ensures high compression pressure with little effort*
- *heavy duty plastic handles*
- *re-changeable head-spare part*
- *surface finish: phosphated to standard DIN 12476*







602327	0.5 - 6	240

428/4AGPB

Set of grip crimp pliers with exchangeble jaws in plastic box

- *quick changing system for 4 different types of jaws*
- *ratchet crimp system provides reliable work*
- *for insulated terminals AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0mm²)*
- *for non-insulated terminals AWG14-6 (0.2-16mm²)*
- *for cord end terminals AWG22-6 (0.5-16mm²)*
- *for BNC/TNC coax conectors RG-58, RG-59/62. Hex connectors 0.255 (6.48mm²), 0.213 (5.41mm²), 0-068 (1.73mmV)*

621557

428.1/4

Spare parts for art. 428/4

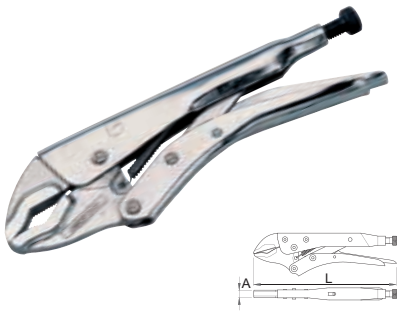
- *spare head*

602328

429/3

Universal lock - grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw phosphated*
- *symmetric jaws*

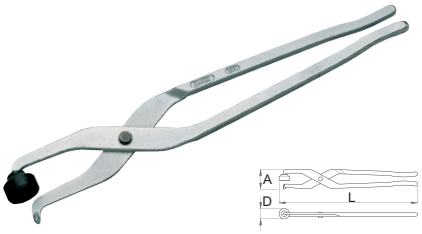


	L	A	
613101	175	10	30
605206	250	12	35
613102	300	14	40

431/2

Brake spring pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *loose oil hardened head, phosphated surface finish: chrome plated*

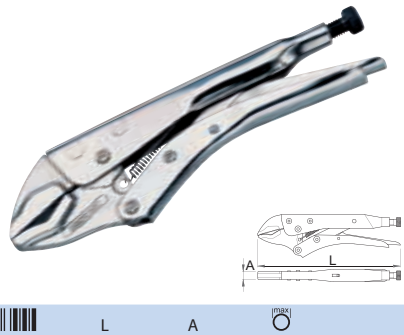


	L	A	Ø D
601554	325	53	25

430/3

Grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw phosphated*

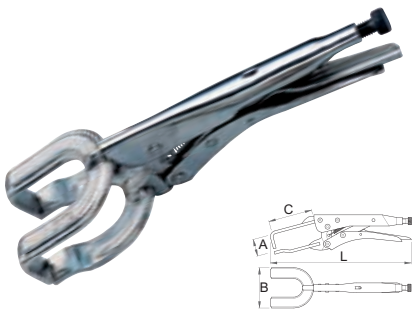


	L	A	
601551	175	10	30
601552	250	12	35
601553	300	14	40

432/3A

Welders` lock - grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw phosphated*
- *for angle tubes*

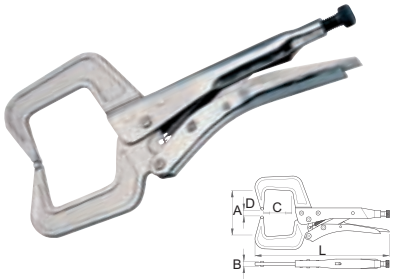


	L	A	B	C	D
601142	280	30	76	75	45

432/3C

Welders` lock - grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw phosphated*
- *for sheet metal and profiles*

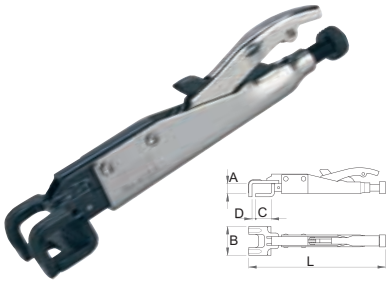


	L	A	B	C	D
601144	280	82	10	55	50

433/4B

Welders` grip pliers

- *material: jaws - chrome vanadium, handles from sheet metal*
- *parallel clamping is achieved by straight line motion of the flexible jaw*
- *one handed operation*
- *small sizes and parallel clamping action for easy access into difficult and confined areas*
- *wide curved jaws, for spot welding, and assembling angular shapes, curved under 90°*

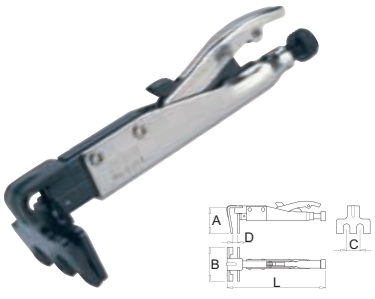


	L	D	C	A	B
612888	220	7	20	15	45

433/4A

Welders` grip pliers

- *material: jaws - chrome vanadium, handles from sheet metal*
- *parallel clamping is achieved by straight line motion of the flexible jaw*
- *one handed operation*
- *small sizes and parallel clamping action for easy access into difficult and confined areas*
- *wide flat jaws, for spot welding*

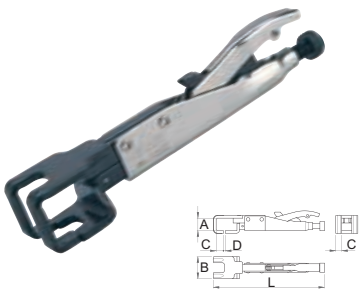


	L	D	C	A	B
612887	200	12	30	50	70

433/4C

Welders` grip pliers

- *material: jaws - chrome vanadium, handles from sheet metal*
- *parallel clamping is achieved by straight line motion of the flexible jaw*
- *one handed operation*
- *small sizes and parallel clamping action for easy access into difficult and confined areas*
- *wide curved jaws, for spot welding, and assembling angular shapes, curved under 90°*



	L	D	C	A	B
612889	230	10	12	25	45

433/4D

Welders` grip pliers

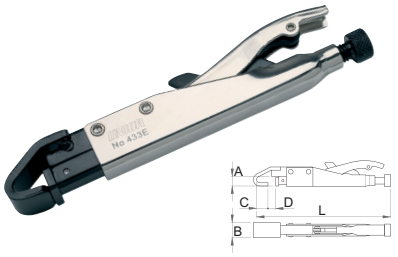
- *material: jaws - chrome vanadium, handles from sheet metal*
- *parallel clamping is achieved by straight line motion of the flexible jaw*
- *one handed operation*
- *small sizes and parallel clamping action for easy access into difficult and confined areas*
- *flat jaws, for spot welding and for assembling flat sheet material*

	L	D	B	A
612890	200	19	25	15

433/4E

Welders` grip pliers

- *material: jaws - chrome vanadium, handles from sheet metal*
- *parallel clamping is achieved by straight line motion of the flexible jaw*
- *one handed operation*
- *small sizes and parallel clamping action for easy access into difficult and confined areas*
- *wide curved jaws, for spot welding and assembling angular shapes, curved under 90°*

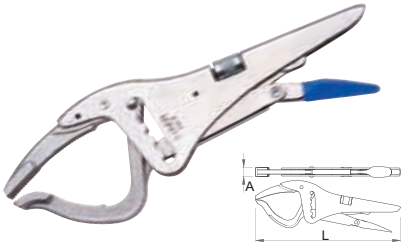


	L	D	B	C	A
612891	210	14	25	14	15

434/3A

Wheel and rack grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw chrome plated*

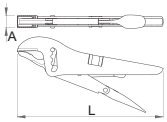


	L	A	
616721	270	16	120

434/3B

Wheel and rack grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw chrome plated*

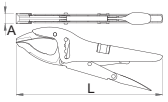


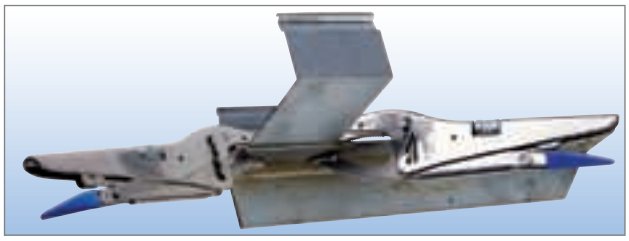
	L	A	
616722	220	16	50

434/3C

Wheel and rack grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw chrome plated*



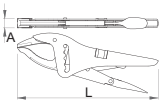


	L	A	
616723	250	16	80

434/3D

Wheel and rack grip pliers

- *jaws drop forged from special tool steel, entirely hardened and tempered*
- *handles made from sheet metal*
- *surface finish: nickel plated*
- *screw chrome plated*

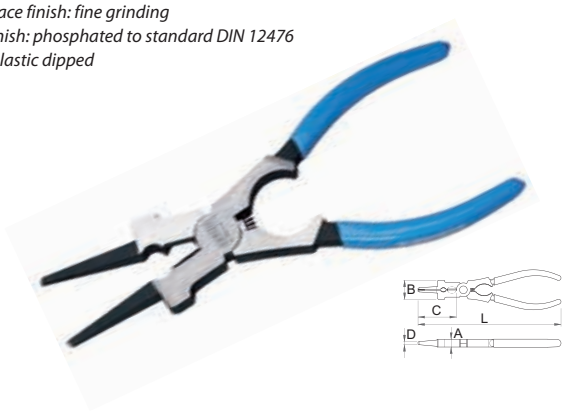


	L	A	
616724	250	16	100

436/4P

Universal welding pliers

- *The universal welding pliers are intended for the maintenance of welding guns for arc welding with protective gas (MAG / MIG welding).*
- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *spring for reopening*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*



dirty nozzle

spatter removal form in and outside the nozzle

spatter removal from the nozzle end

clean nozzle

nozzle removal and installation

tip removal and installation

wire cutting

wire cutting out

installation bushing removal and installation

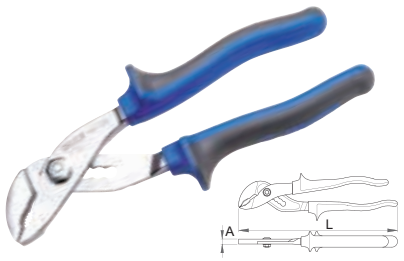
hammering

	L	B	D	A	C
616493	180	25	3	10	59
616494	210	34	3.5	11	80

441/1BI

Slip joint waterpump pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *slip joint*
- *jaw aperture adjustable in 5 positions*
- *made according to standard ISO 8976*

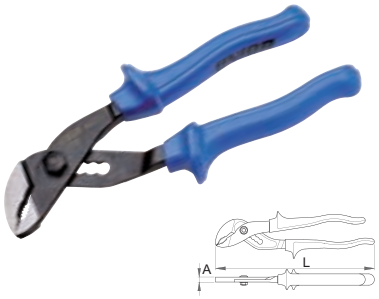


	L	A	max
616728	170	13.8	30

441/4G

Slip joint waterpump pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *slip joint*
- *jaw aperture adjustable in 5 positions*
- *made according to standard ISO 8976*

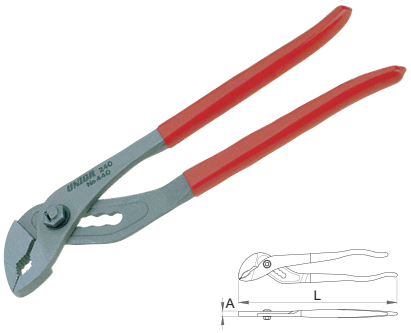


	L	A	max
616730	170	13.8	30

441/7PR

Slip joint waterpump pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *slip joint*
- *jaw aperture adjustable in 6 positions*
- *head surface finish: fine grinding*
- *handles ergonomically shaped*
- *handles plastic dipped*
- *made according to standard ISO 8976*

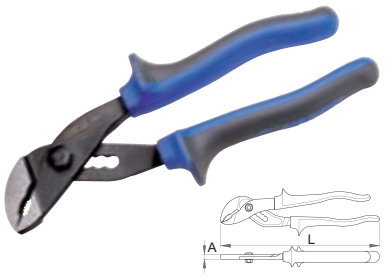


	L	A	max
601464	240	8	35

441/4BI

Slip joint waterpump pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty double - component handles*
- *slip joint*
- *jaw aperture adjustable in 5 positions*
- *made according to standard ISO 8976*

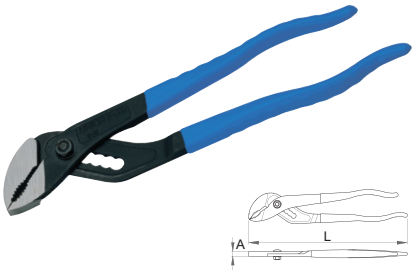


	L	A	max
616729	170	13.8	30

441/4P

slip joint waterpump pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *handles plastic dipped*
- *slip jointsurface finish: phosphated to standard DIN 12476*
- *jaw aperture adjustable in 5 positions*
- *made according to standard ISO 8976*



	L	A	max
616731	170	13.8	30
608686	240	7.5	35

442/1BIST

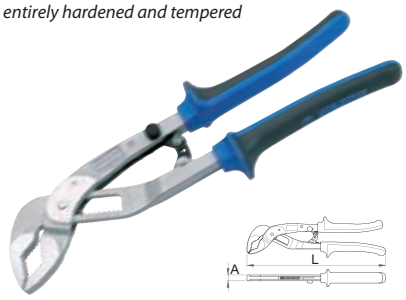
Set of variable joint HYPO pliers on carton display

	№	
615185	**442/1BIST**	6
	442/1HYPO (240)	

442/1HYPO

Variable joint "HYPO" pliers

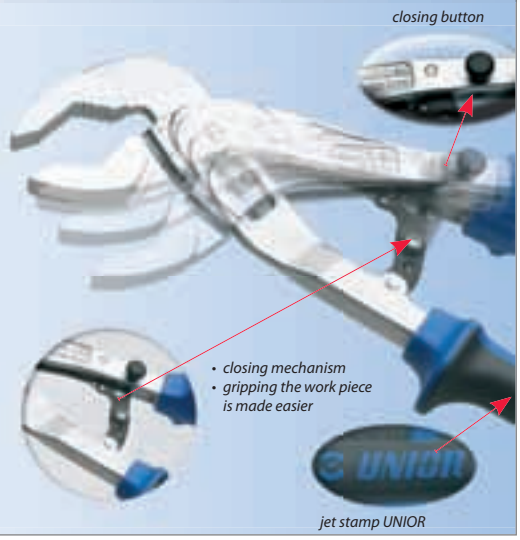
- *material: special tool steel*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *drop forged, entirely hardened and tempered*



	L	A	max
616727	180	9.5	33
611780	240	9	40

HYPO pliers

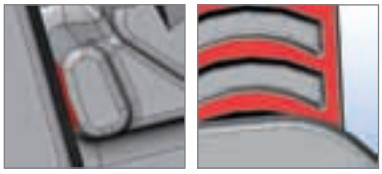
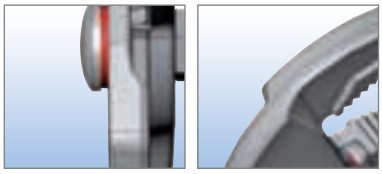
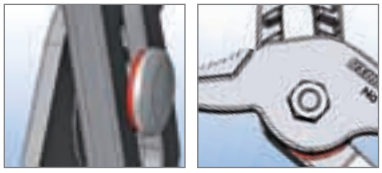
- *perfect adaptability to the work piece whatever the shape up to ø 40 mm*
- *quicker and simple grip*
- *work with only one hand*
- *ergonomic shape*
- *heavy duty double - component handles*
- *maximum adaptability to hand*

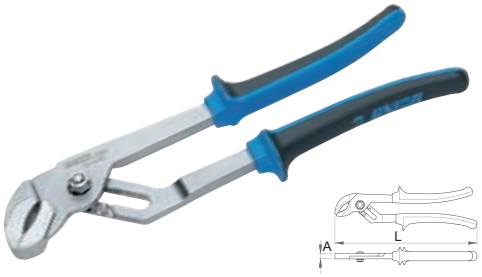


445/1BI

Double groove joint pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *grooved joint*
- *jaw aperture adjustable in 5 positions by dim. 180, by dim. 240 and 300 in 6 positions*
- *made according to standard ISO 8976*

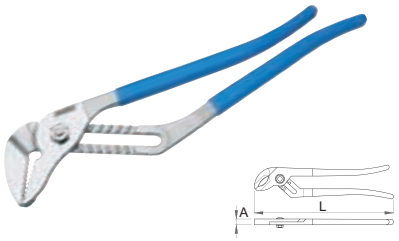


	L	A	
607885	180	9.9	25
620557	240	10.8	35
607887	300	12.2	40

445/1P

Double groove joint pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles plastic dipped*
- *grooved joint*
- *jaw aperture adjustable in 11 positions*
- *made according to standard ISO 8976*



	L	A	
608213	410	15	105

445/1BIST

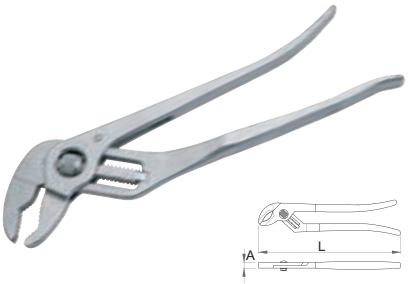
Set of double groove joint pliers on carton display

	№	
615183	**445/1BIST**	6
	445/1BI (240)	

446/2

Wheel and rack waterpump pliers

- *material: special tool steel*
- *entirely chrome plated*
- *infinitely adjustment of jaw aperture*
- *drop forged, entirely hardened and tempered*
- *variable adjustment of opening jaws*

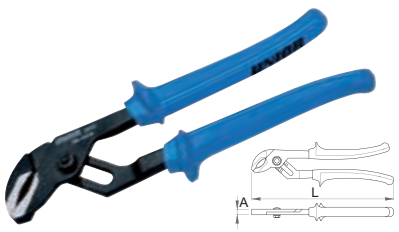


	L	A	
601461	260	7.5	35

445/4G

Double groove joint pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *grooved joint*
- *jaw aperture adjustable in 5 positions by dim. 180, by dim. 240 and 300 in 6 positions*
- *made according to standard ISO 8976*

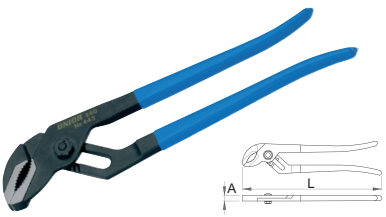


	L	A	
608690	180	9.9	25
620558	240	10.8	35
608692	300	12.2	40

445/4P

Double groove joint pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *grooved joint*
- *jaw aperture adjustable in 5 positions by dim. 180, by dim. 240 and 300 in 6 positions*
- *made according to standard ISO 8976*

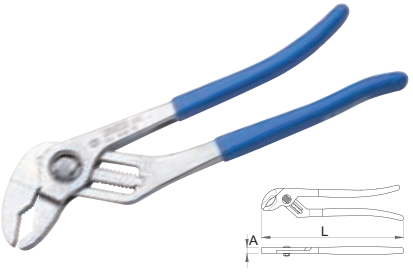


	L	A	
608687	180	9.9	25
620559	240	10.8	35
608689	300	12.2	40

446/2P

Wheel and rack waterpump pliers

- *material: special tool steel*
- *entirely chrome plated*
- *infinitely adjustment of jaw aperture*
- *drop forged, entirely hardened and tempered*
- *variable adjustment of opening jaws*
- *handles plastic dipped*

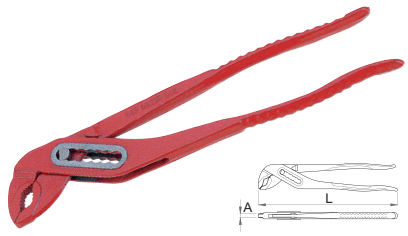


	L	A	
607732	260	7.5	35

447/6

Waterpump box joint pliers

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: red lacquered*
- *jaw aperture adjustable in 7 positions*
- *made according to standard ISO 8976*

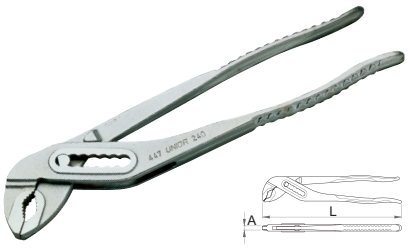


	L	A	max
607348	175	6.5	26.5
603160	240	7.5	35
605006	300	8.5	42

447/1

Waterpump box joint pliers

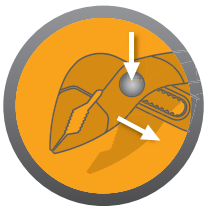
- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *jaw aperture adjustable in 7 positions*
- *made according to standard ISO 8976*



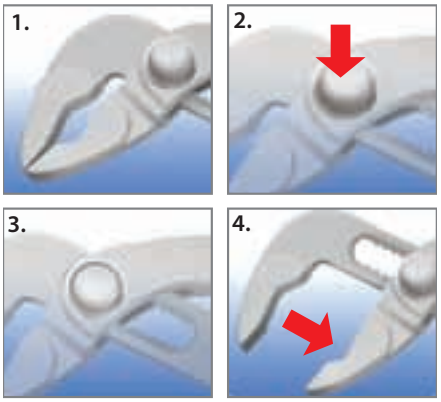
	L	A	max
605237	240	6.5	35

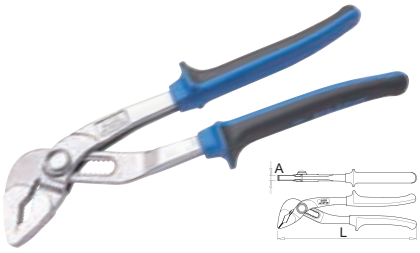
447/1HPP

Waterpump pliers



- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *toothed jaw is designed to ensure optimum grip of an object*
- *jaw aperture adjustable in 10 positions*
- *The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.*
- *Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, work safety, and greater effectiveness.*
- *Finish: pliers are drop forged from high quality tool steels and heat treated*
- *Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places*
- *Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws*
- *Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety*



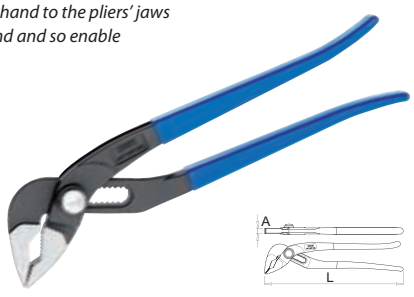


	L	A	max
620172	245	8.5	40

447/4PHPP

Waterpump pliers

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *surface finish: phosphated to standard DIN 12476*
- *head surface finish: fine grinding*
- *handles plastic dipped*
- *toothed jaw is designed to ensure optimum grip of an object*
- *jaw aperture adjustable in 10 positions*
- *The HPP pliers have a button for fast regulation of the jaw's gap which enables fast and precise adaptation of the jaw to the wanted grip of the work piece.*
- *Extreme grip strength: The design and shape of the pliers' jaws enable, despite the slim construction, better grip strength of the work piece, which results in stability, work safety, and greater effectiveness.*
- *Finish: pliers are drop forged from high quality tool steels and heat treated*
- *Work: due to the slim construction, the jaws enable one-handed work in difficult-to-reach places*
- *Made of double-component material which reduces slipping of the hand during work and so enable safe and effective transmission of power from the hand to the pliers' jaws*
- *Ergonomics: handles are designed to fully adjust to the users hand and so enable greater handling and work safety*

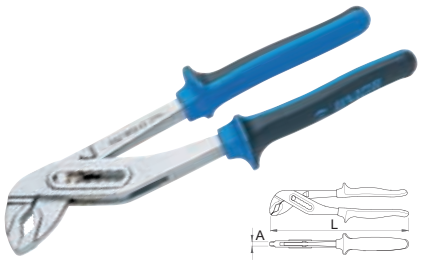


	L	A	max
620421	245	8.5	40

447/1BI

Waterpump box joint pliers

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *jaw aperture adjustable in 7 positions*
- *heavy duty double - component handles*
- *made according to standard ISO 8976*



	L	A	max
610984	240	6.5	35

447/1VDEBIST

Set of waterpump box joint pliers on carton display

	№	
615186	**447/1VDEBIST**	6

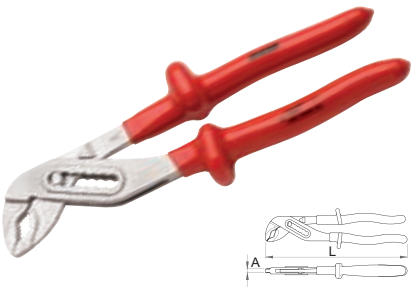
447/1VDEBI (240)

447/1VDEDP

Waterpump box joint pliers

1000V IEC 60900:2004

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *jaw aperture adjustable in 7 positions*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 8976 and EN 60900*



	L	A	max
619199	240	6.5	35

447/1VDEBI

Insulated waterpump box joint pliers

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *working surfaces induction hardened*
- *surface finish: chrome plated to standard EN12540*
- *jaw aperture adjustable in 7 positions*
- *heavy duty double - component handles*
- *made according to standard ISO 8976 and EN 60900*

1000V IEC 60900:2004

	L	A	max
611993	240	6.5	35

449/1PYTHON

Waterpump box joint pliers

- *material: chrome vanadium*
- *drop forged, entirely hardened and tempered*
- *surface finish: chrome plated to standard EN12540*
- *jaw aperture adjustable in 7 positions*
- *jaws are always parallel to protect the work piece from being damaged*
- *449.1 additional plastic jaws for work on chromed and polished work pieces*
- *heavy duty double - component handles*

	L	A	max
615032	240	11	42
616725	300	15	63

449.1

Plastic jaw for 449/1PYTHON

615033	240	2
616726	300	2

449/1BIST

Set of waterpump box joint pliers on carton display

615182	**449/1BIST**	6
	449/1PYTHON (240)	

455/1BI

End cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5748*

	L	B	A	C
609192	160	27	22	7

cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
609192	160	1,6	2,5

455/4E

Electronic pliers - front cutter

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *heavy duty double - component handles*

	L	B	C	A
620071	110	16.6	8.1	13.2

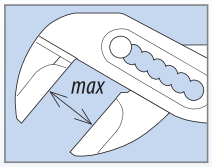
cutting capacity (10N=1kg)

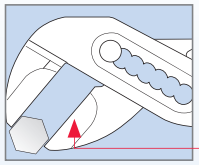
	L	max (max 750-850 N/mm²)
620071	110	1,5

USE 449

PYTHON pliers

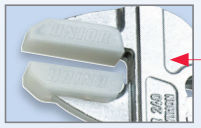
regulation of jaws; pliers are available in two dimensions.



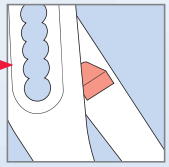


parallel jaws; protect the work piece from being damaged

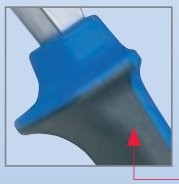
safety; special barier prevents accidental squeze of fingers between plier handles.



extra protection; with additional plastic jaws for work on chromed and polished work pieces.



producing; forged, additional hardened and tempered.



extreme power of grip; design and shape of plier handles, enable more support for your hands while working. Work is done with more stability and safer power transmission.

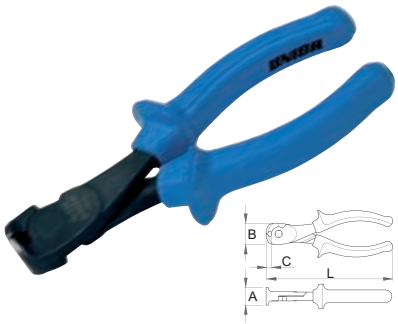
ergonomic; handles fit to hand perfectly, because of two component handles and from material which reduces slipping of hand during work.

European manufacturer Since 1919

455/4G

End cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *made according to standard ISO 5748*



	L	B	A	C
608694	160	27	22	7

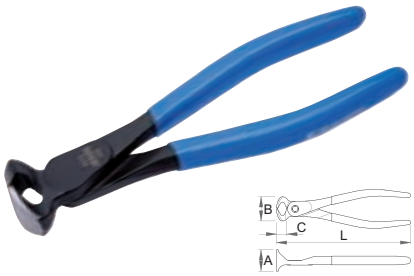
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
608694	160	1,6	2,5

457/4AP

End cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *made according to standard ISO 5748*



	L	B	A	C
618648	180	31.5	28	12.5

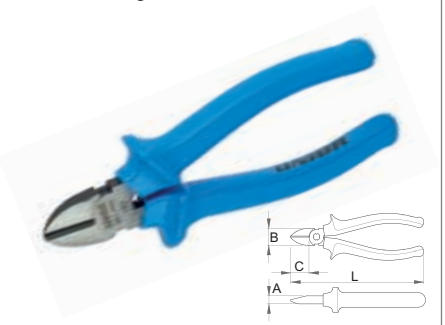
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
618648	180	1,6	2,5

461/4G

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *made according to standard ISO 5749*



	L	B	A	C
608697	140	19	9.5	18
608698	160	22.5	10	22

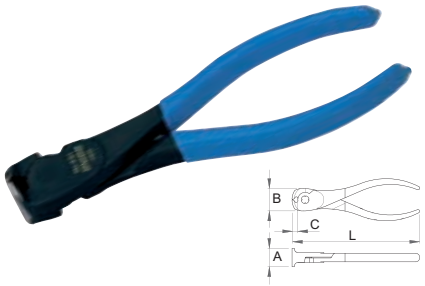
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
608697	140	1,6	2,0
608698	160	1,6	2,5

455/4P

End cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *made according to standard ISO 5748*



	L	B	A	C
608693	160	27	22	7

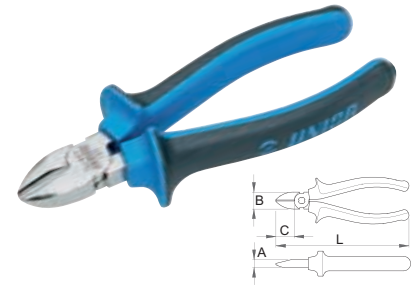
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
608693	160	1,6	2,5

461/1BI

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5749*



	L	B	A	C
607883	140	19	9.5	18
607884	160	22.5	10	22

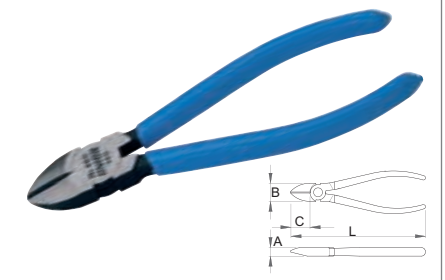
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
607883	140	1,6	2,0
607884	160	1,6	2,5

461/4P

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *made according to standard ISO 5749*



	L	B	A	C
612327	125	19	9.5	18
608695	140	19	9.5	18
608696	160	22.5	10	22

cutting capacity (10N=1kg)

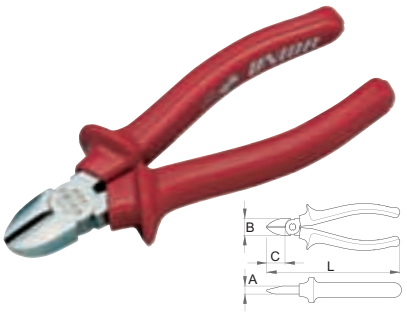
	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
612327	125	1,6	2,0
608695	140	1,6	2,0
608696	160	1,6	2,5

461/1VDE

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
605012	140	19	9.5	18
605013	160	22.5	10	22

cutting capacity (10N=1kg)

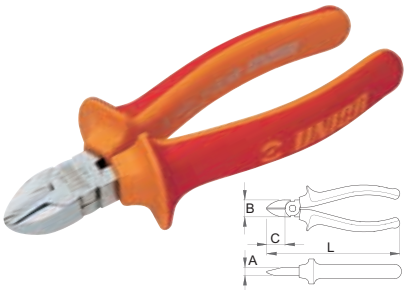
	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
605012	140	1,6	2,0
605013	160	1,6	2,5

461/1VDEBI

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
610426	140	19	9.5	18
610427	160	22.5	10	22

cutting capacity (10N=1kg)

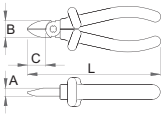
	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
610426	140	1,6	2,0
610427	160	1,6	2,5

461/1VDEDP

Diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
619193	140	19	9.5	18
619194	160	22.5	10	22

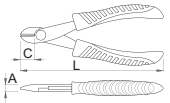
cutting capacity (10N=1kg)

	L	max (max 1600 N/mm²)	max (max 650 N/mm²)
619193	140	1,6	2,0
619194	160	1,6	2,5

461/4E

Electronic side cutter

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *heavy duty double - component handles*



	L	B	A	C
620072	115	13	8.2	13.5

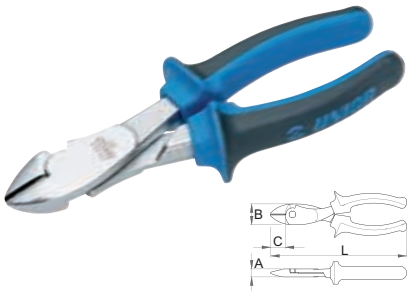
cutting capacity (10N=1kg)

	L	max (max 750-850 N/mm²)
620072	115	1,5

466/1BI

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5749*



	L	B	A	C
617686	160	23.5	10	20.5
608850	180	28	11	20
608837	200	27	11	21

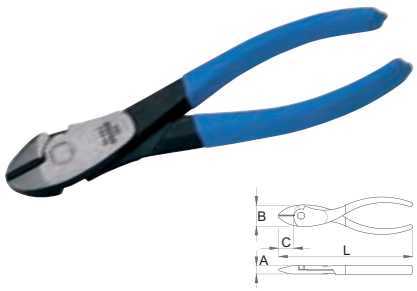
cutting capacity (10N=1kg)

	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
617686	160	1,6	2,5
608850	180	1,8	3,0
608837	200	2,0	3,5

466/4P

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *made according to standard ISO 5749*



	L	B	A	C
617688	160	23.5	10	20.5
608699	180	28	11	20
609191	200	27	11	21

cutting capacity (10N=1kg)

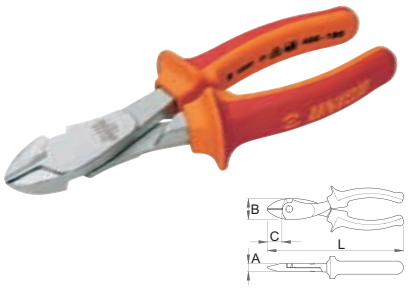
	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
617688	160	1,6	2,5
608699	180	1,8	3,0
609191	200	2,0	3,5

466/1VDEBI

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
610428	180	28	11	20
611756	200	27	11	21

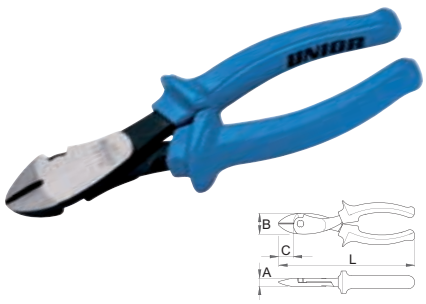
cutting capacity (10N=1kg)

	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
610428	180	1,8	3,0
611756	200	2,0	3,5

466/4G

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *made according to standard ISO 5749*



	L	B	A	C
617687	160	23.5	10	20.5
608700	180	28	11	20
609190	200	27	11	21

cutting capacity (10N=1kg)

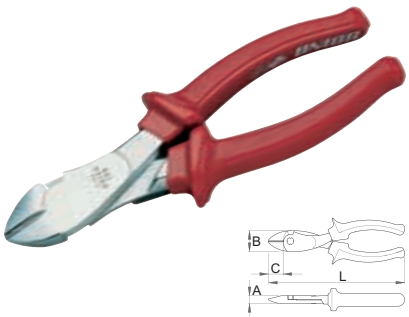
	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
617687	160	1,6	2,5
608700	180	1,8	3,0
609190	200	2,0	3,5

466/1VDE

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
605212	180	28	11	20

cutting capacity (10N=1kg)

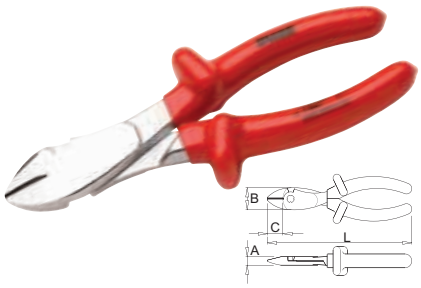
	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
605212	180	1,8	3,0

466/1VDEDP

Heavy duty diagonal cutting nippers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 5749 and EN 60900*

1000V IEC 60900:2004



	L	B	A	C
619195	180	28	11	20
619196	200	27	11	21

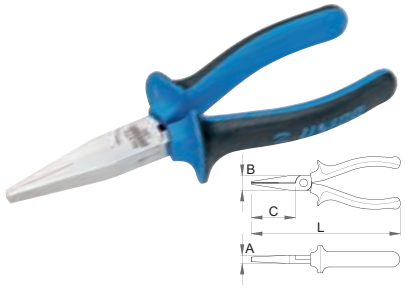
cutting capacity (10N=1kg)

	L	max (max 2150 N/mm²)	max (max 650 N/mm²)
619195	180	1,8	3,0
619196	200	2,0	3,5

472/1BI

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *gripping surface serrated*
- *made according to standard ISO 5745*

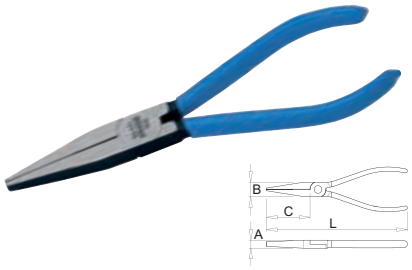


	L	B	C	A
607878	140	15	39	8
607879	160	16	49	9

472/4P

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *gripping surface serrated*
- *made according to standard ISO 5745*

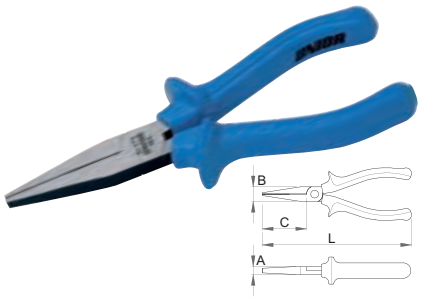


	L	B	C	A
608702	140	15	39	8
608703	160	16	49	9

472/4G

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *gripping surface serrated*
- *heavy duty plastic handles*
- *made according to standard ISO 5745*



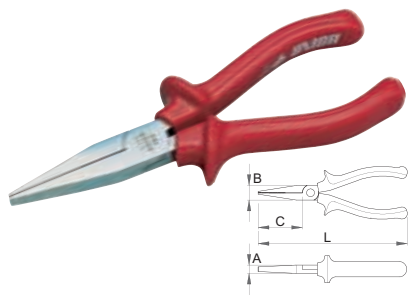
	L	B	C	A
608704	140	15	39	8
608705	160	16	49	9

472/1VDE

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *gripping surface serrated*
- *made according to standard ISO 5745 and EN 60900*

1000V IEC 60900:2004



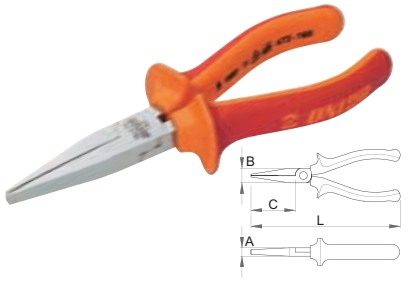
	L	B	C	A
605015	160	16	49	9

472/1VDEBI

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *gripping surface serrated*
- *made according to standard ISO 5745 and EN 60900*

1000V IEC 60900:2004



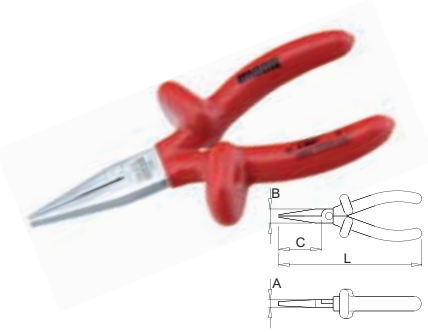
	L	B	C	A
610430	160	16	49	9

472/1VDEDP

Long flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *gripping surface serrated*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 5745 and EN 60900*

1000V IEC 60900:2004



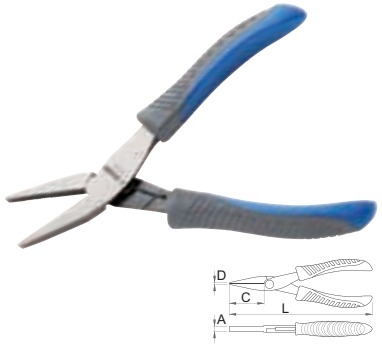
	L	B	C	A
619182	140	15	39	8
619183	160	16	49	9

European manufacturer Since 1919

472/4E

Electronic flat nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *gripping surface serrated*
- *heavy duty double - component handles*



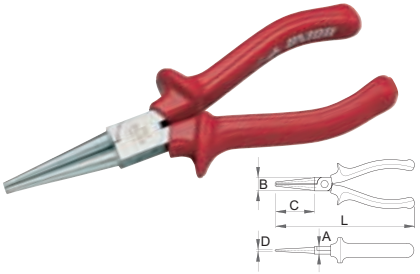
	L	C	A
620070	135	32.5	8.2

476/1VDE

Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *made according to standard ISO 5745 and EN 60900*

1000V IEC 60900:2004

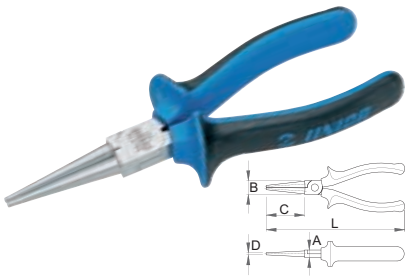


	L	B	A	C	D
605016	140	15	9	39	2
605017	160	16	10	49	2.5

476/1BI

Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5745*

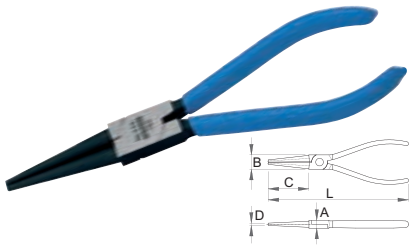


	L	B	A	C	D
607880	140	15	9	39	2
607881	160	16	10	49	2.5

476/4P

Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *handles plastic dipped*
- *made according to standard ISO 5745*



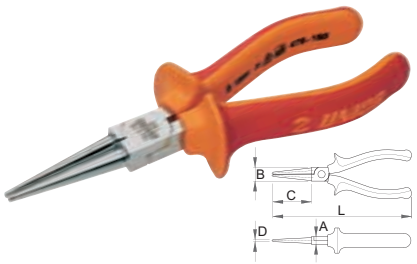
	L	B	A	C	D
608706	140	15	9	39	2
608707	160	16	10	49	2.5

476/1VDEBI

Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *made according to standard ISO 5745 and EN 60900*

1000V IEC 60900:2004

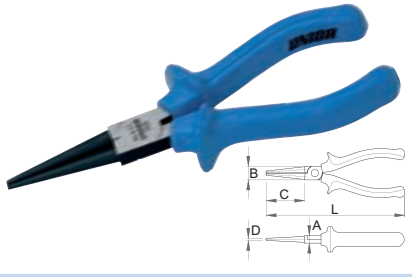


	L	B	A	C	D
610431	140	15	9	39	2
610432	160	16	10	49	2.5

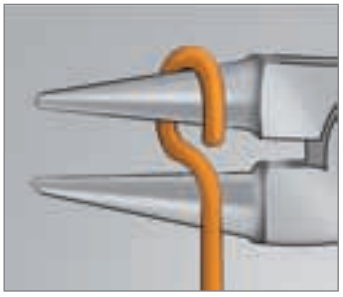
476/4G

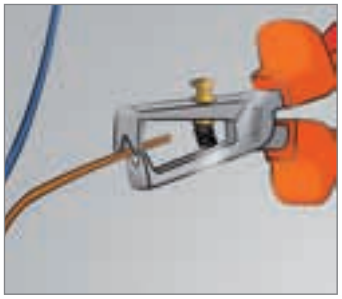
Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *made according to standard ISO 5745*



	L	B	A	C	D
608708	140	15	9	39	2
608709	160	16	10	49	2.5

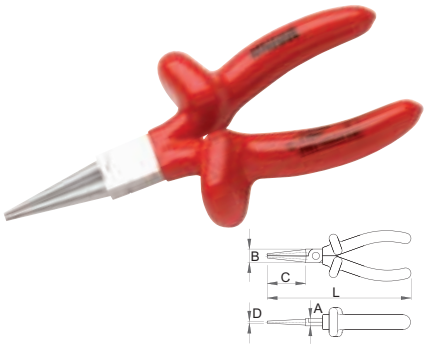




476/1VDEDP

Long round nose pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard ISO 5745 and EN 60900*

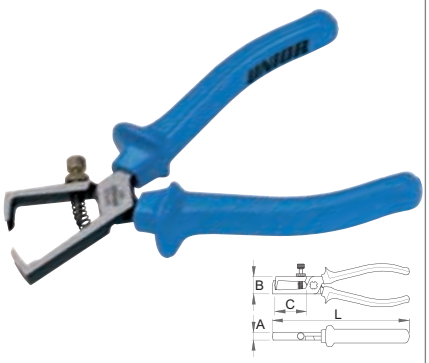


	L	B	A	C	D
619184	140	15	9	39	2
619185	160	16	10	49	2.5

478/4G

Wire stripping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head surface finish: fine grinding*
- *surface finish: phosphated to standard DIN 12476*
- *heavy duty plastic handles*
- *stripping capacity: up to max 0.6 - 10mm²*
- *spring for reopening*

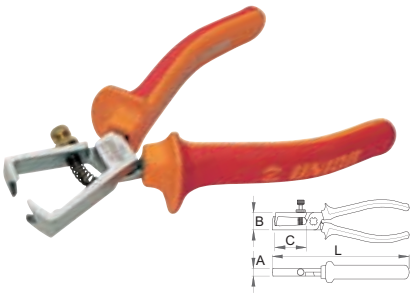


	L	mm²	B	A	C
608701	160	0.6 - 10	18	9	40

478/1VDEBI

Wire stripping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *stripping capacity: up to max 0.6 - 10mm²*
- *spring for reopening*
- *made according to standard EN 60900*

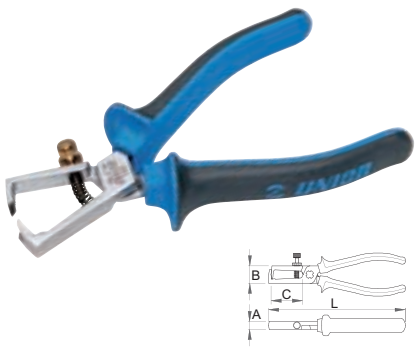


	L	mm²	B	A	C
610433	160	0.6 - 10	18	9	40

478/1BI

Wire stripping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty double - component handles*
- *stripping capacity: up to max 0.6 - 10mm²*
- *spring for reopening*

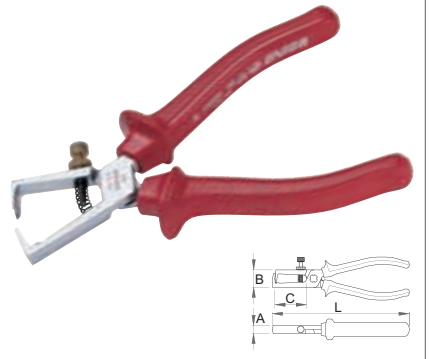


	L	mm²	B	A	C
607882	160	0.6 - 10	18	9	40

478/1VDE

VDE wire stripping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *surface finish: chrome plated to standard EN12540*
- *heavy duty plastic handles*
- *stripping capacity: up to max 0.6 - 10mm²*
- *spring for reopening*
- *made according to standard EN 60900*

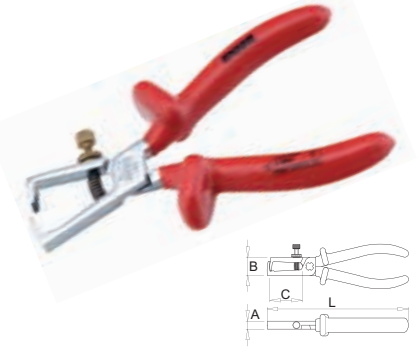


	L	mm²	B	A	C
605018	160	0.6 - 10	18	9	40

478/1VDEDP

Wire stripping pliers

- *material: special tool steel*
- *drop forged, entirely hardened and tempered*
- *cutting edges induction hardened*
- *head polished*
- *stripping capacity: up to max 0.6 - 10mm²*
- *spring for reopening*
- *handles are insulated with double layered - double coloured insulation, which enables additional safety*
- *if second layer is visible, replace your VDE tool with the new one.*
- *made according to standard EN 60900*



	L	mm²	B	A	C
619186	160	0.6 - 10	18	9	40