











# PLIERS AND CUTTERS



# 6

## PLIERS AND CUTTERS



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# PLIERS AND CUTTERS

## USAG Ergonomic handles: comfort, performance and safety



**Dimensions and handle shape:** have been studied to optimise contact with the hand. A strong and safe hold enables a firm grip with the utmost comfort.



**The anti-slide material** Employed for the external surface of the handle, increases the pliers grip in any working situation. The internal core, made by a more rigid material, assures a perfect fit on to the metal part.

**The safe employ** of the pliers is assured by the indispensable "anti-slip moulding" studied and realised for the most professional requirements.

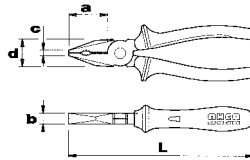


**The handle shape** is the result of a careful ergonomic study in relation to the various employs of the tool. The whole of its surface has been made analysing in detail the contact of the hand with the various parts of the pliers.



### 150 A = UNI 9894 DIN-ISO 5746 Combination pliers

- Model with cutting edge for piano wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head

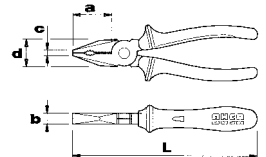


L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	34	9,5	4,8	21	195
180	1,8	36	10	5	23	225
200	2	42	12	6,5	26	300



### 156 A = UNI 9894 DIN-ISO 5746 Combination pliers

- Model with raised cutting edges for piano wire
- Side-cutting edges for soft wire, ø max 3 mm
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head

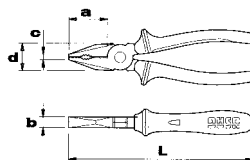


L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	35,5	10,5	5	23	225
180	1,8	39	11	5,5	26	320
200	2	43	12	6,5	28	420



### 150 B = UNI 9894 DIN-ISO 5746 Combination pliers

- Model with cutting edge for piano wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish

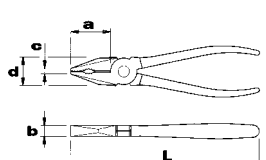


L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	34	9,5	4,8	21	195
180	1,8	36	10	5	23	225
200	2	42	12	6,5	26	300



### 150 C = UNI 9894 DIN-ISO 5746 Combination pliers

- Model with cutting edge for piano wire
- Knurled gripping surface
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish, polished head



L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	34	9,5	4,8	21	180
180	1,8	36	10	5	23	210
200	2	42	12	6,5	26	280

# PLIERS AND CUTTERS

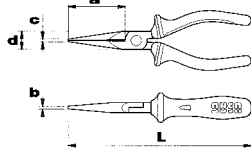


## 131 A =

UNI 7925

### Flat extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	5	2	17	130
200	2	75	5	3	18	200

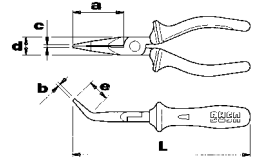


## 131 AP =

UNI 7925

### Flat extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	5	2	17	20	130
200	2	70	5	3	18	25	200

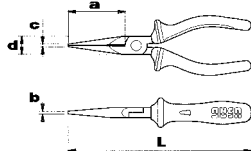


## 131 B =

UNI 7925

### Flat extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	5	2	17	130
200	2	75	5	3	18	200

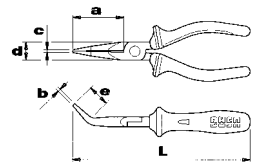


## 131 BP =

UNI 7925

### Flat extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	5	2	17	20	130
200	2	70	5	3	18	25	200

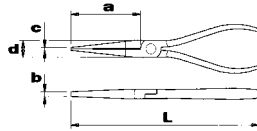


## 131 C =

UNI 7925

### Flat extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	5	2	17	115
200	2	75	5	3	18	180

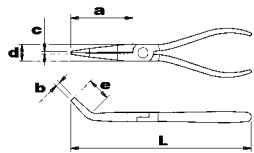


## 131 CP =

UNI 7925

### Flat extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish with polished head



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	5	2	17	20	115
200	2	70	5	3	18	25	180

# PLIERS AND CUTTERS

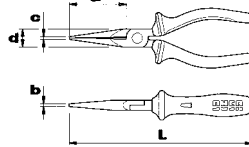


## 133 A

UNI 7926 DIN-ISO 5745

### Half-round extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	2,5	2,5	17	125
200	2	75	3	3	18	190

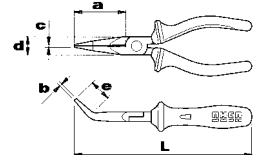


## 133 AP

UNI 7926

### Half-round extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	2,5	2,5	17	20	125
200	2	70	3	3	18	25	190

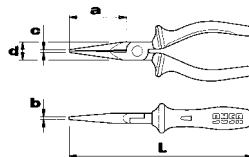


## 133 B

UNI 7926 DIN-ISO 5745

### Half-round extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	2,5	2,5	17	125
200	2	75	3	3	18	190

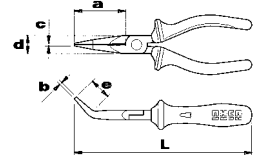


## 133 BP

UNI 7926

### Half-round extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	2,5	2,5	17	20	125
200	2	70	3	3	18	25	190

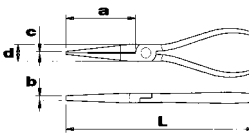


## 133 C

UNI 7926 DIN-ISO 5745

### Half-round extra-long nose pliers with straight jaws

- Model with cutting edge for hard wire
- Knurled gripping surface
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish with polished head



L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	gr
160	1,6	52	2,5	2,5	17	105
200	2	75	3	3	18	170

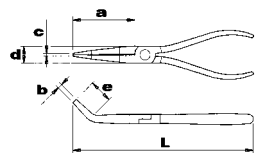


## 133 CP

UNI 7926

### Half-round extra-long nose pliers with jaws bent to 45°

- Model with cutting edge for hard wire
- Knurled gripping surface
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish with polished head



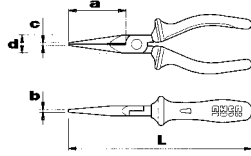
L mm	1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	d mm	e mm	gr
160	1,6	46	2,5	2,5	17	20	105
200	2	70	3	3	18	25	170



## 113 A = UNI 10296 DIN-ISO 5745

### Flat long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



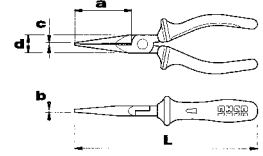
L mm	a mm	b mm	c mm	d mm	gr
160	52	5	2	17	130



## 115 A ⊖ UNI 10295 DIN-ISO 5745

### Half-round long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



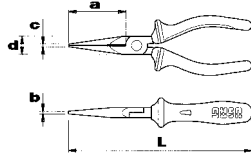
L mm	a mm	b mm	c mm	d mm	gr
160	52	2,5	2,5	17	130



## 113 B = UNI 10296 DIN-ISO 5745

### Flat long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



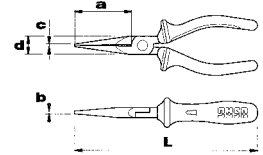
L mm	a mm	b mm	c mm	d mm	gr
160	52	5	2	17	130



## 115 B ⊖ UNI 10295 DIN-ISO 5745

### Half-round long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



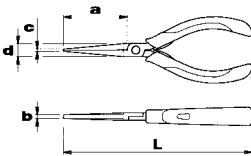
L mm	a mm	b mm	c mm	d mm	gr
160	52	2,5	2,5	17	130



## 113 M = ISO 9655

### Flat long nose plier with straight jaws

- Knurled gripping surface
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated and polished finish



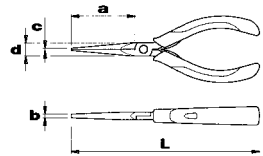
L mm	a mm	b mm	c mm	d mm	gr
140	41	2,8	1,5	14	88



## 115 M ⊖ ISO 9654

### Half-round long nose plier with straight jaws

- Knurled gripping surface
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated and polished finish



L mm	a mm	b mm	c mm	d mm	gr
140	41	2	2	14	92

# PLIERS AND CUTTERS

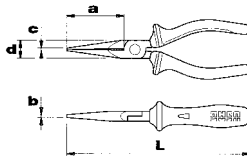


## 114 A :

UNI 10294 DIN-ISO 5745

### Round long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	a mm	b mm	c mm	d mm	gr
160	52	2	4	17	125

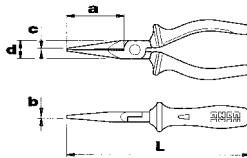


## 114 B :

UNI 10294 DIN-ISO 5745

### Round long nose plier with straight jaws

- Knurled gripping surface
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	a mm	b mm	c mm	d mm	gr
160	52	2	4	17	125

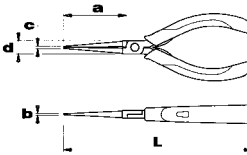


## 114 M :

ISO 9655

### Round long nose plier with straight jaws

- Knurled gripping surface
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated and polished finish



L mm	a mm	b mm	c mm	d mm	gr
140	41	1,5	3	14	83

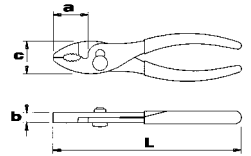


## 177

ISO 9343

### Slip-joint pliers, two-positions

- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	a mm	b mm	c mm	gr
165	30	9	28	165
200	35	11	32	280

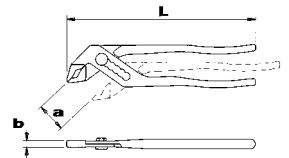


## 178

UNI-DIN-ISO 8976

### Lay-on slip-joint adjustable pliers

- 6-position model (4 positions in the 125 mm size)
- Chrome Vanadium steel body
- Chrome-plated finish



L mm	a max mm	b mm	gr
125	15	5	60
190	32	7,5	170
240	38	8,5	310

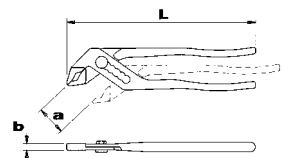


## 178 I

UNI-DIN-ISO 8976

### Lay-on slip-joint adjustable pliers

- 6-position model (4 positions in the 125 mm size)
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish



L mm	a max mm	b mm	gr
125	15	5	85
190	32	7,5	185
240	38	8,5	330

## 178 A

### Spare bolt

L mm
125
190
240



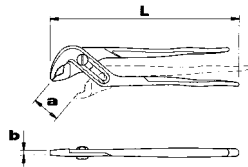


## 179 N

UNI-DIN-ISO 8976

### Lay-on slip-joint adjustable plier with channels

- 5-position model
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish



L mm	a max mm	b mm	gr
240	42	9,5	320

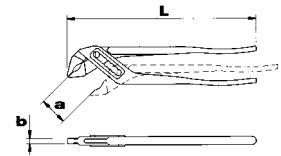


## 180 AN

UNI-DIN-ISO 8976

### Box-joint adjustable pliers

- 7- position model
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Enamelled finish



L mm	a max mm	b mm	gr
240	36	7	350
300	42	9	610

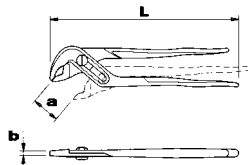


## 179 L

UNI-DIN-ISO 8976

### Lay-on slip-joint adjustable plier with channels

- 11-position model
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish



L mm	a max mm	b mm	gr
400	90	14	1075

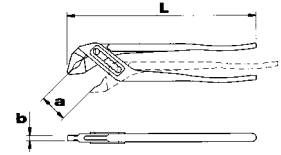


## 180 AV

UNI-DIN-ISO 8976

### Box-joint adjustable pliers

- 7- position model
- Chrome Vanadium steel body
- Enamelled finish



L mm	a max mm	b mm	gr
240	36	7	330
300	42	9	565

## 179 AN/240

## 179 A/400

Spare bolt

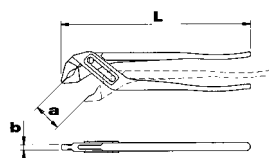


## 180 A

UNI-DIN-ISO 8976

### Box-joint adjustable pliers

- 7-position model
- Chrome Vanadium steel body
- Chrome-plated finish



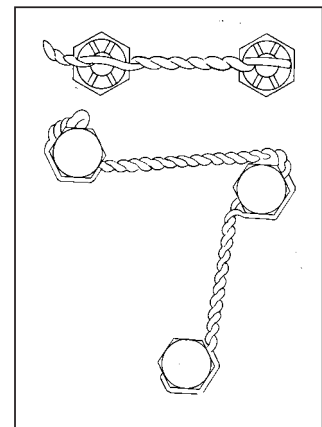
L mm	a max mm	b mm	gr
240	36	7	320
300	42	9	570



## 158 A

### Safety-twist plier

- Automatic spring return pattern
- Diagonal cutter with cushion thread to hold cut wire
- Tapering jaws with knurled gripping surface
- Chrome Vanadium steel body
- Burnished finish



wire ø max mm	L mm	gr
1,6	260	367



# PLIERS AND CUTTERS



## 127 DIN 472

### Pliers with straight nose for internal rings

- Handles sheathed in PVC
- Chrome Vanadium steel
- Chrome-plated finish

UNI 7914 DIN 5256

capacity ø mm	L mm	gr
8÷13	130	70
12÷25	140	90
19÷60	185	165
40÷100	220	225
85÷250	280	315



## 128 DIN 471

### Pliers with straight nose for external rings

- Handles sheathed in PVC
- Chrome Vanadium steel
- Chrome-plated finish
- Screw for regulating max. opening of jaws in the 3÷9 mm capacity version

UNI 7915 DIN 5254

capacity ø mm	L mm	gr
3÷9	140	110
10÷25	140	106
19÷60	180	190
40÷100	220	295
85÷250	310	400



## 127 M DIN 472

### Pliers with nose bent to 45° for internal rings

- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish

capacity ø mm	L mm	gr
8÷13	122	75
12÷25	134	90
19÷60	175	165
40÷100	205	230
85÷250	265	310



## 128 M DIN 417

### Pliers with nose bent to 45° for external rings

- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish
- Screw for regulating max. opening of jaws in the 3÷9 mm capacity version

capacity ø mm	L mm	gr
3÷9	145	110
10÷25	145	106
19÷60	192	190
40÷100	229	295
85÷250	379	400



## 127 P DIN 472

### Pliers with nose bent to 90° for internal rings

- Handles sheathed in PVC
- Chrome Vanadium steel
- Chrome plated-finish

UNI 7914 DIN 5256

capacity ø mm	L mm	gr
8÷13	122	75
12÷25	130	90
19÷60	175	165
40÷100	205	230
85÷250	265	310



## 128 P DIN 471

**Pliers with nose bent to 90° for external rings**

- Handles sheathed in PVC
- Chrome Vanadium steel
- Chrome plated-finish
- Screw for regulating max. opening of jaws in the 3÷9 mm capacity version

UNI 7915 DIN 5254

capacity ø mm	L mm	gr
3÷9	140	110
10÷25	140	106
19÷60	180	190
40÷100	220	295
85÷250	310	400



## 128 SP DIN 5417

**Plier with flat knurled jaws for external SP rings**

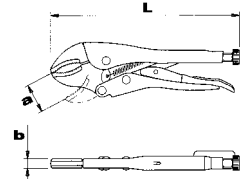
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Chrome-plated finish

capacity ø mm	L mm	gr
30÷100	224	300



## 134 Lock-grip pliers with concave jaws

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish

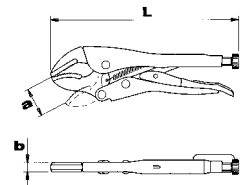


L mm	a max mm	b mm	gr
180	28	11,5	320
250	42	13	530
300	65	14	1030



## 135 Lock-grip pliers, one straight and one convex jaw

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish

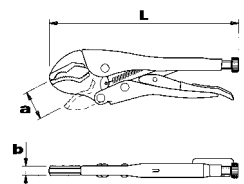


L mm	a max mm	b mm	gr
180	20	10	305
250	28	12,5	510



## 135 B Lock-grip pliers with shaped jaws

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



L mm	a max mm	b mm	gr
180	30	10	360
250	50	12,5	570

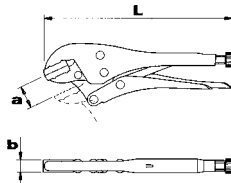
# PLIERS AND CUTTERS



## 136

### Lock-grip plier with straight parallel jaws

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



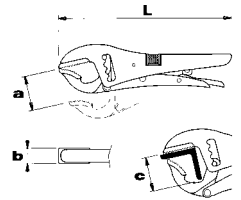
L mm	a max mm	b mm	gr
250	50	14	670



## 135 F1

### Lock-grip plier with two adjustment devices

- Short jaws
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Chrome-plated finish



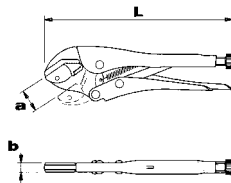
L mm	a max mm	b mm	c mm	gr
230	50	18	40	650



## 136 SN

### Lock-grip plier with articulated lower jaw

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



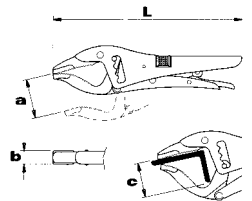
L mm	a max mm	b mm	gr
235	45	13	560



## 135 F2

### Lock-grip plier with two adjustment devices

- Long jaws
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Chrome-plated finish



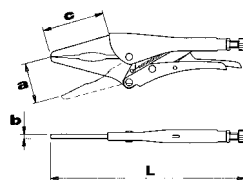
L mm	a max mm	b mm	c mm	gr
255	80	18	50	780



## 135 L

### Lock-grip plier with long thin jaws

- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



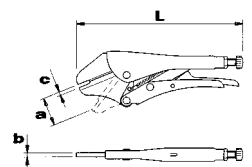
L mm	a max mm	b mm	c mm	gr
235	70	6	80	400



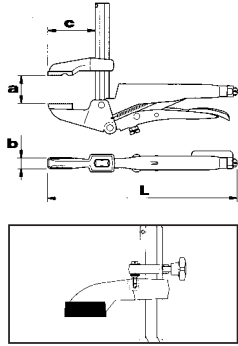
## 135 CU

### Lock-grip plier for squeezing pipes

- For squeezing copper pipes during repair work on refrigeration systems and air-conditioning in general
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



L mm	a max mm	b mm	c mm	gr
190	16	6	4	385



## 136 M

### Lock-grip pliers with articulated upper jaw

- Screw for regulating parallelism between the jaws
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish
- Accessories available on request: 136 MA jaws and 136 MB clamp

a max mm	b mm	c mm	L mm	gr
100	15	65	260	900
200	15	65	260	1100



## 136 MA

### Pair of jaw-covers

- In plastic material for use on delicate parts



## 136 MB

### Clamp

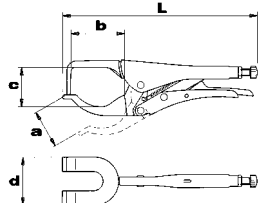
- For locking the upper jaw in the required position, if necessary



## 137

### Lock-grip plier with fork jaws

- For welding pipes, sheet steel and sections
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



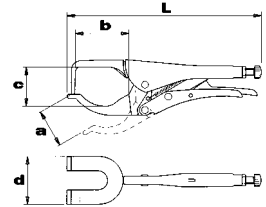
L mm	a max mm	b mm	c mm	d mm	gr
280	50	80	45	70	935



## 137 AL

### Lock-grip plier with fork jaws in aluminium

- For arc-welding pipes, sheet steel and sections
- Pressed sheet steel body
- Nickel-plated finish



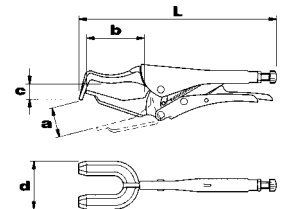
L mm	a max mm	b mm	c mm	d mm	gr
275	75	80	55	70	735



## 137 T

### Lock-grip plier with fork jaws

- For welding pipes
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



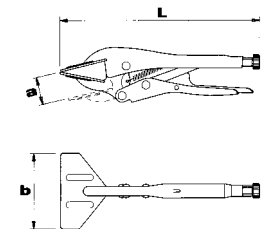
L mm	a max mm	b mm	c mm	d mm	gr
285	75	80	10	70	930



## 138

### Lock-grip plier with flat smooth jaws

- For gripping thin sheet steel
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



L mm	a max mm	b mm	gr
200	25	80	470

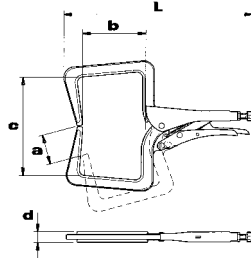
# PLIERS AND CUTTERS



## 139 A

### Lock-grip plier with C-clamp jaws

- For gripping sections and angles
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



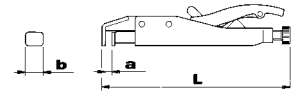
L mm	a max mm	b mm	c mm	d mm	gr
280	76	75	85	11	700



## 140/1

### Adjustable lock-grip plier with axial locking

- Straight jaws for assembling flat sheet steel
- Jaws in carbon steel
- Pressed sheet steel body
- Polished nickel-plated and enamelled finish



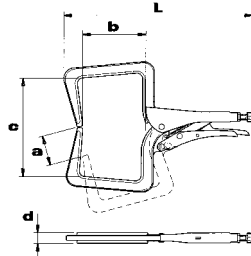
L mm	a max mm	b mm	gr
195	20	18	425



## 139 AL

### Lock-grip pliers with C-clamp jaws in aluminium

- For arc-welding sections and angles
- Pressed sheet steel body
- Nickel-plated finish



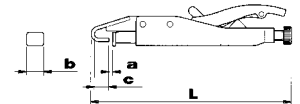
n°	a max mm	b mm	c mm	d mm	L mm	gr
1	80	70	100	13	290	650
2	125	120	180	20	350	920



## 140/2

### Adjustable lock-grip plier with axial locking

- One bent and one straight jaw for assembling sheet steel with 90° edges
- Jaws in carbon steel
- Pressed sheet steel body
- Polished nickel-plated and enamelled finish



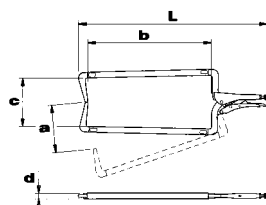
L mm	a max mm	b mm	c mm	gr
205	20	18	14	425



## 139 L

### Lock-grip plier with long C-clamp jaws

- For working in deep, inaccessible places
- Chrome Vanadium steel jaws
- Pressed sheet steel body
- Nickel-plated finish



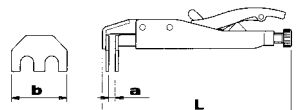
L mm	a max mm	b mm	c mm	d mm	gr
520	152	310	90	13	1180



## 140/3

### Adjustable lock-grip plier with axial locking

- Wide flat jaws for spot-welding
- Jaws in carbon steel
- Pressed sheet steel body
- Polished nickel-plated and enamelled finish



L mm	a max mm	b mm	gr
195	15	57	480

# PLIERS AND CUTTERS

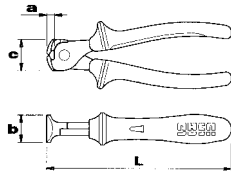


## 182 A

### End cutting nippers

- Model for piano wire
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head

UNI-DIN-ISO 5748



L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
160	1,6	6,5	23	26,5	240
200	2	7	29	30	400

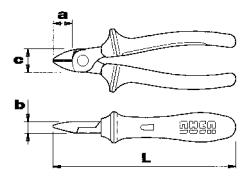


## 185 A

### Diagonal cutting nippers

- Model for hard wire
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish and polished head

UNI-DIN-ISO 5749



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,8	15,5	9,5	18,5	160
160	2	16,5	10	20,5	190

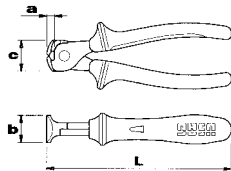


## 182 B

### End cutting nippers

- Model for piano wire
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish

UNI-DIN-ISO 5748



L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
160	1,6	6,5	23	26,5	240
200	2	7	29	30	400

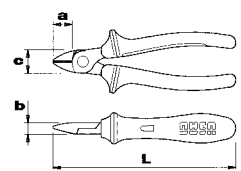


## 185 B

### Diagonal cutting nippers

- Model for hard wire
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish

UNI-DIN-ISO 5749



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,8	15,5	9,5	18,5	160
160	2	16,5	10	20,5	190

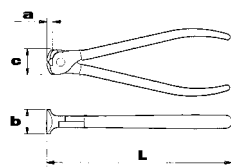


## 182 C

### End cutting nippers

- Model for piano wire
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish with polished head

UNI-DIN-ISO 5748



L mm	$\hookrightarrow$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
160	1,6	6,5	23	26,5	180
200	2	7	29	30	210

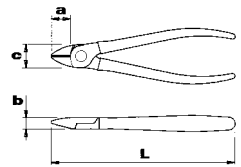


## 185 C

### Diagonal cutting nippers

- Model for hard wire
- Handles sheathed in PVC
- Chrome Vanadium steel body
- Burnished finish with polished head

UNI-DIN-ISO 5749



L mm	$\hookrightarrow$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,8	15,5	9,5	18,5	140
160	2	16,5	10	20,5	170

# PLIERS AND CUTTERS

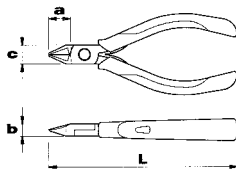


## 185 M

ISO 9654

### Diagonal cutting nipper

- Sharp tapering jaws
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated and polished finish



L mm	$\sigma$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
130	1,4	19	9,5	16,5	96

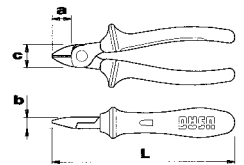


## 188 B

UNI-DIN-ISO 5749

### Heavy duty diagonal cutting nippers

- For piano wire with handles and cutting edges on the same axis to minimise effort
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Protective enamelled finish



L mm	$\sigma$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,4	15,5	9,5	21,5	140
160	1,6	18	10	23,5	200
180	1,8	20	11	26,3	240
200	2	22	12	28,5	340

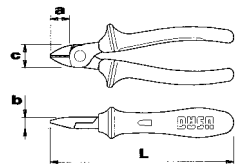


## 188 A

UNI-DIN-ISO 5749

### Heavy duty diagonal cutting nippers

- For piano wire with handles and cutting edges on the same axis to minimise effort
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	$\sigma$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,4	15,5	9,5	21,5	140
160	1,6	18	10	23,5	200
180	1,8	20	11	26,5	240
200	2	22	12	28,5	310

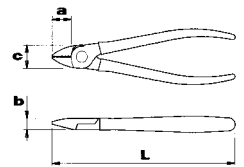


## 188 C

UNI-DIN-ISO 5749

### Heavy duty diagonal cutting nippers

- For piano wire with handles and cutting edges on the same axis to minimise effort
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Burnished finish with polished head



L mm	$\sigma$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
140	1,4	15,5	9,5	21,5	130
160	1,6	18	10	23,5	185
180	1,8	20	11	26,3	220
200	2	22	12	28,5	290

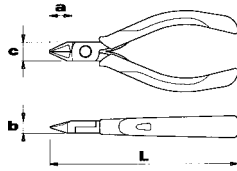


## 188 M

### Diagonal cutting nippers

- Rounded nose
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated and polished finish

ISO 9654



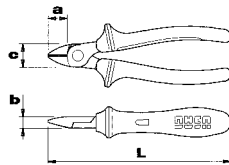
L mm	$\sigma_{\text{c}}$ 1600 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
130	1,4	19	9,5	16,5	96



## 186 A

### Flush diagonal cutting nippers for plastic material

- Round with narrowed jaws
- Interchangeable spring return action
- Ergonomic grip in plastic bicomponent material
- Chrome Vanadium steel body
- Chrome-plated finish with polished head



L mm	a mm	b mm	c mm	gr
140	18,5	10	18	115
160	21,5	11	20	150

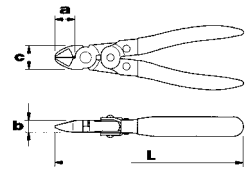


## 190 I

### Toggle joint diagonal cutting nipper

- For piano wire with lever to minimise cutting effort
- Pressed sheet steel handles, sheathed in PVC
- Carbon steel body
- Polished nickel-plated and burnished finish

UNI-ISO 5747



L mm	$\sigma_{\text{c}}$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
160	2	16	10,5	21	435

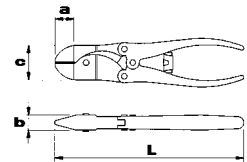


## 192

### Toggle joint diagonal cutting nipper

- For piano wire with lever to minimise cutting effort
- Carbon steel body
- Enamelled finish

UNI-DIN-ISO 5749



L mm	$\sigma_{\text{c}}$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
200	2,5	20	16	40	515



# PLIERS AND CUTTERS

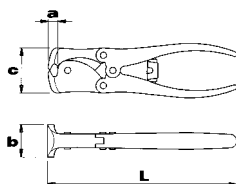


## 194

### Toggle joint end cutting nippers

- For piano wire with lever to minimise cutting effort
- Carbon steel body
- Enamelled finish

UNI-DIN-ISO 5748



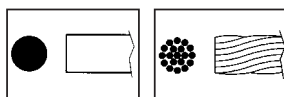
L mm	$\sigma_c$ 2000 N/mm <sup>2</sup> ø max mm	a mm	b mm	c mm	gr
180	2	9	31	45	495
210	2,5	10	34	50	675



## 191

### Cable cutter for steel cables

- Model for round cables and plaited-steel cables
- Handles sheathed in PVC
- Sheet steel body
- Burnished finish



L mm	$\sigma_c$ 2000 N/mm <sup>2</sup> ø max mm	$\sigma_c$ 1600 N/mm <sup>2</sup> ø max mm	gr
165	1,5	5	165

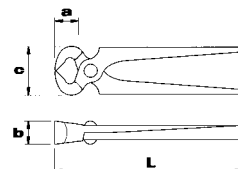


## 197

### Pincers for carpenters

- Carbon steel
- Phospatized finish

DIN-ISO 9243



L mm	a mm	b mm	c mm	gr
180	22	23	48	305
200	25	25	52	405
250	30	25	62	540

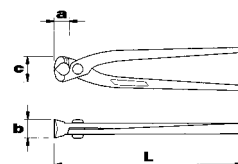


## 199

### Pincers for cement layers

- Carbon steel
- Phospatized finish

DIN-ISO 9242



L mm	a mm	b mm	c mm	gr
190	15	22	26	235
225	17	23	30	320
250	19	25	36	380
280	19	25	36	480



## 160

### Revolving punch plier

- Revolving model with six interchangeable punches
- Handles sheathed in PVC
- Pressed sheet steel body
- Polished nickel-plated finish

punches ø mm	L mm	gr
2-2,5-3-3,5-4-4,5	220	280

## 160 A

### Spare punches

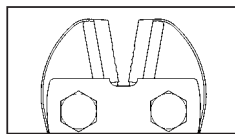
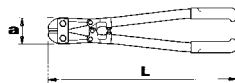
ø mm
2
2,5
3
3,5
4
4,5



## 196 R

### Bolt cutter flush cutting edge

- Patented cutting edge with a partially serrated profile to hold the rod during cutting
- Adjustable stopping device for correct alignment of the blades
- Blades in Chrome Vanadium steel
- Handles in tubular steel
- Handgrips sheathed in PVC
- Enamelled and phosphatised finish



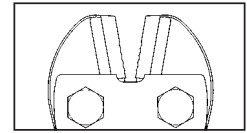
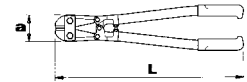
L mm	60 Kg/mm <sup>2</sup> ø max mm	140 Kg/mm <sup>2</sup> ø max mm	a mm	kg
350	6	5	60	1,2



## 196

### Bolt cutters central cutting edge

- Patented cutting edge with a partially serrated profile to hold the rod during cutting
- Adjustable stopping device for correct alignment of the blades
- Blades in Chrome Vanadium steel
- Handles in tubular steel
- Handgrips sheathed in PVC
- Enamelled and phosphatised finish



L mm	60 Kg/mm <sup>2</sup> ø max mm	140 Kg/mm <sup>2</sup> ø max mm	a mm	kg
450	7	6	70	1,8
600	10	7	86	3
750	13	9	98	4,8
900	16	10	110	6,2
1050	18	11	128	8,2

## 196 A

### Spare blades

L mm
R 350
450
600
750
900
1050

