

78189

Sets of separating and extracting devices



**Type**  
With 2-screw tightening, special steel, drop-forged.

**Use**  
For extracting closely fitting ball bearings, inner races etc. The blades of the separating jaws are forced behind the parts to be extracted, releasing them from their fitting.

**Note:**  
For extracting, the separating device is combined with a suitable extracting device.

78189



Item no.	Separating device Size	Extracting device Size	Extension (1 pair) Length mm
78189101	0	0	100
78189102	1	1	100
78189103	2	2	100
78189104	3	3	100

Clamping range mm	Weight approx. kg	Type	78189	...
60	2,7	in metal box		101
75	4,7	in metal box		102
115	8,4	in metal box		103

78190 - 78192

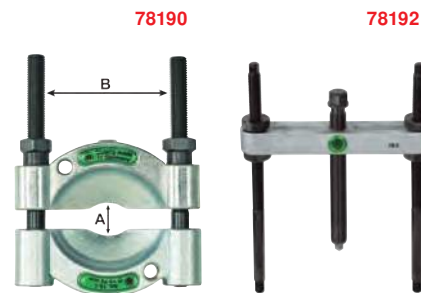
Separating and extracting devices



**Type**  
With 2-screw tightening, special steel, drop-forged.

**Use**  
For extracting closely fitting ball bearings, inner races etc. The blades of the separating jaws are forced behind the parts to be extracted, releasing them from their fitting.

**Note:**  
The tension bolts are screwed into the threaded holes of the separating jaws.



Size	A mm	B mm	Clamping width mm	Length of Drawbolt mm	Separating devices		Extracting devices	
					78190	...	78192	...
0	5 - 60	60	50 - 110	150			101	101
1	12 - 75	75	60 - 150	200			102	102
2	22 - 115	115	60 - 200	250			103	103
3	25 - 155	155	80 - 300	300	#	104		104

78400 - 78401

Numeral and letter punch sets extra quality

**Type**  
Medium-narrow type to DIN 1451 up to 5 mm, anything above is narrow. With visible engraving, cold-drawn material in silk-gloss matt finish, standard model negative die for legible -impression.

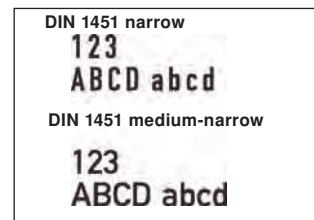
**Use**  
For standard requirements, for workpieces with a strength of up to approx. 800 N/mm<sup>2</sup>. For punching in iron, steel, leather, wood, plastic.

**Note:**  
Positive die – giving mirror-image impression, for moulds and dies, available on request.

78400 - 78401



Type height mm	Hardness engraving HRC	Type	0 - 9		A - Z	
			78400	...	78401	...
2	58 - 60	in plastic box	#	102		102
3	58 - 60	in plastic box		103		103
4	58 - 60	in plastic box		104		104
5	58 - 60	in plastic box		105		105
6	58 - 60	in plastic box		106		106
8	58 - 60	in plastic box		107		107
10	58 - 60	in plastic box		108		108
12	58 - 60	in plastic box		109		109
15	58 - 60	in plastic box		110		



Workshop Supplies

## 78403 - 78404

## Numeral and letter punch sets extra extra quality

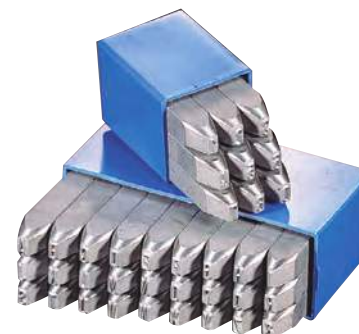
### Type

Medium-narrow type to DIN 1451 up to 5 mm, anything above = narrow. Standard model negative die for legible impression.

### Use

For rigorous requirements, for workpieces with a strength of up to approx. 1200 N/mm<sup>2</sup>.

78403 - 78404



Type height mm	Hardness engraving HRC	Type	0 - 9		A - Z	
			78403	...	78404	...
2	58 - 60	in plastic box		102	#	102
3	58 - 60	in plastic box		103		103
4	58 - 60	in plastic box		104		104
5	58 - 60	in plastic box		105		105
6	58 - 60	in plastic box		106		106
8	58 - 60	in plastic box		107		107
10	58 - 60	in plastic box		108		108

## 78406 - 78407

## Numeral and letter punch sets special class

### Type

Bright-polished in compliance with DIN 7353/1451 narrow, hardened and tempered impact head. Standard model negative die for legible impression.

### Use

For highest requirements, for workpieces with a strength of up to 2000N/mm<sup>2</sup>.

78406 - 78407



Type height mm	Hardness engraving HRC	Hardness on striking end HRC	Type	0 - 9		A - Z	
				78406	...	78407	...
2	58 - 60	38 - 46	in plastic box		102		102
3	58 - 60	38 - 46	in plastic box		103		103
4	58 - 60	38 - 46	in plastic box		104		104
5	58 - 60	38 - 46	in plastic box		105		105
6	58 - 60	38 - 46	in plastic box		106		106
8	58 - 60	38 - 46	in plastic box		107		107
10	58 - 60	38 - 46	in plastic box		108		108

## 78412 - 78413

## Numeral and letter punch sets with depth limit

### Type

With depth limit, bright-polished, with exposed embossing and hardened and tempered impact head, type in compliance with DIN 1451 medium, Standard model negative die for -legible impression.

### Use

Satisfies the highest requirements, for embossing steel.

### Note:

Positive die -giving mirror-image impression, for moulds and dies, available on request.

78412 - 78413



Type height mm	Hardness engraving HRC	Hardness on striking end HRC	Type	0 - 9		A - Z	
				78412	...	78413	...
2	58 - 60	38 - 46	in plastic box	#	103	#	103
3	58 - 60	38 - 46	in plastic box		104	#	104
4	58 - 60	38 - 46	in plastic box		105		105
5	58 - 60	38 - 46	in plastic box		106		106
6	58 - 60	38 - 46	in plastic box		107	#	107
8	58 - 60	38 - 46	in plastic box		108	#	108
10	58 - 60	38 - 46	in plastic box	#	109	#	109



**78415 Numeral and letter punches**

**Type**  
Precision type made of CrMo special steel. Uniform impression.

**Use**  
Suitable for marking in steel up to 1300 N/mm<sup>2</sup> strength. In the steel holder, multiple steel types can be inserted next to each other (see chart).

A	A	B	B	C	C	D	D	E	E	E	E	F	F	G	G	H	H	I
I	I	J	J	K	K	L	L	L	M	M	N	N	N	O	O	P	P	Q
R	R	R	S	S	T	T	T	U	U	V	V	W	W	X	Y	Z	/	
/	-	-	.	.	.	1	1	1	2	2	2	3	3	3	4	4	4	
4	4	5	5	5	6	6	7	7	8	8	8	9	9	9	0	0	0	

Set contents

Set contents	
1	hand holder
100	single steel types A-Z and 0-9, / (slash), . (full stop), , (comma) and - (hyphen).

Type height mm	max. mounting options per holder	Type	78415	...
1,5	12	in plastic box	#	202
2,5	12	in plastic box		203
3,0	9	in plastic box		204
5,0	8	in plastic box		205



78415

**78420 Marking stencil sets**

**Type**  
Aluminium, block letters

**Use**  
For signing, marking, etc. with paint or ink.

Type height mm	0 - 9		A - Z	
	78420	...	78420	...
20	#	201	#	210
30		202	#	211
40	#	203	#	212
60		205		214
80		206		215
100		207		216



78420 201-207

78420 210-216

**78422 Metal etchers**

**Type**  
With 2 refills. Green etching solution.

**Use**  
For marking purposes in precision mechanics,

toolmaking and machine construction, storeroom and in the warehouse. For steel, copper, nickel, tin and lead and corresponding alloys.

	Pack = pcs.	78422	...
Etcher	-		101
Spare refills	5		102



78422



Workshop Supplies



When your voice counts ... .. your suggestions are heard.

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**ATORN**<sup>®</sup>  
Performance requires quality

	Rough and oily iron		Glass, porcelain
	Smooth and clean iron		Rubber, tyres
	Hot iron		Paper, cardboard
	Stainless steel		Dry wood
	Stone, brick		Damp wood
	Asphalt, macadam		Textiles
	Plastic		

67330

Oil pastel pencils



**Type**  
Hexagonal, without paper sleeve.

**Use**  
Versatile oil chalk. For signing/marketing cold or warm steel, metals, wood, paper, cardboard.



67330



Pack= pcs.	Colour	67330	...
12	yellow		101

78424

Blackboard chalk



**Type**  
Quadrangular

**Use**  
For writing on blackboards



78424



Pack= pcs.	Dimensions mm	Colour	78424	...
12	90 x 13 x 13	white		101

78419

Soapstone chalk



**Type**  
Natural soapstone chalk, quadrangular.

**Use**  
For marking metal before welding.



78419

Pack= pcs.	Dimensions mm	78419	...
50	100 x 10 x 10		101

78425 Tube markers



**Type**  
Single-use with ball point made of hardened steel for easy and quick marking. Perfect adhesion to all surfaces (rusty, rough, oily, humid etc.) and all materials (metal, wood, rubber, concrete, plastics etc.). Colour without halogen (chlorine), heavy metals (Pb, Zn, Cd) and hydrocarbons, therefore environmentally friendly. Heat-resistant up to 200°C, mineral oil and salt-fog-proof, weather resistant, indelible, fast drying. 1 year guarantee on type quality!



Colour	Contents ml	Type thickness mm	Heat-resistant °C	78425	...
white	60	3	200		101
yellow	60	3	200		102
red	60	3	200		103

35448 Marker for deep holes Pica Dry

**35448 101**  
**Marker for deep holes Pica Dry**

**Type**  
Marks and writes on all materials. Also on dusty, rough, oily, moist, or dark surfaces. Replaceable special graphite refill, diameter 2,8 mm. Replaceable cartridges and colour cartridges, see cat.-no. 35448 102. Refill advance through stainless steel tube. Advance in 2 mm increments. Holder with clip and integrated sharpener. Markings on smooth surfaces can be wiped off with a damp cloth.

**Note:**  
Protect red and yellow lead from high temperatures.



35448 102 Set contents	
4	graphite refills B2
2	red refills
2	yellow refills

	35448	...
Marker		101
Refill set		102



78426 Permanent markers

**Use**  
Permanent marking of all smooth surfaces such as paper, cardboard, plastics and metal.

Rounded tip.  
**Long service life.**

Colour	Line thickness to mm	Pack = pcs.	78426	...
black	3	12		101
blue	3	12		102
red	3	12		103



78427 Industrial paint markers

**Type**  
- Full-coverage, fast drying paint marker  
- Pigmented ink without the addition of toluene and xylene, minimal odour

- For water-resistant, and wipe-off resistant of dark and transparent material  
- Valve-controlled ink-flow for uniform lines  
- Line thickness between 2-4 mm

Colour	Pack = pcs.	78427	...
black	12		101
blue	12		102
red	12	#	103
yellow	12	#	104
white	12		105



78429 CD marker

**Type**  
Permanent marker with indelible ink. Fast-drying, water-resistant and UV-resistant. Nylon tip Ø 10 mm.

**Use**  
On all clean, smooth surfaces such as CDs, paper, metal and plastic

Colour	Heat-resistant to approx. °C	78429	...
black	100	5 pcs.	101



**2-axis marking instrument – Markierteufel****Type**

Needle marker for lettering, identifying and marking rating plates and solid materials. Pneumatic embossing head, 2-axis step motor - contouring control integrated in the housing. Serial interface for PC connection. Standard software with standard Windows operation with pull-down menus, hot-keys, and toolbar and status bar. Easy creation of the lettering layout: Text, graphic elements (circles, squares, and much more), counting function, free scaling of the objects, automatic data marking, and much more.

**Use**

Labels steel, non-ferrous metals, plastics, and much more.

78428



Dimensions approx. mm	Connection V	Compressed air bar	field mm	78428	...
250 x 260 x 160	240	6	80 x 50	#	101

**Note:**

Other marking devices and instruments available on request.

**78430 101****2 axis marking instrument EasyMarker****Type**

With LED work area illumination CNC-controlled needle marker. Marking instrument for directly marking iron and non-ferrous metals, plastics, hardened materials. Especially in light of ISO 9000, this instrument facilitates marking, identification and traceability of workpieces. Simply enter the data using the keyboard (included). The data input can be controlled on the LC-display. Input data, insert workpiece, push start - finished!

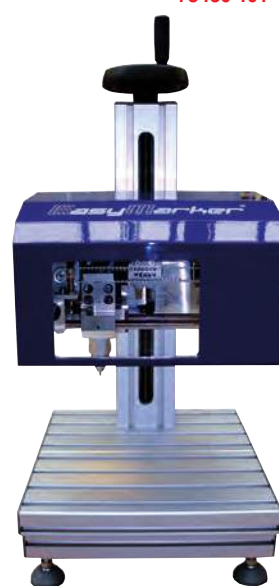
**Functions:**

Fixed text, continuous numbers, automatic date, linear-, angle- and circular marking, automatic zero-setting, teach in, variable type height (in steps of 0,1 mm), CE-Logo marking, mm/inch conversion. Software in three languages.

**78430 102****3-axis marking device EasyMarker with easy-ROT80****Type**

Like cat.-no. 78430 101, in addition for marking cylindrical or parts with multiple edges. Fully software supported for rail-controlled cylinder marking and for timed operation with freely selectable timing angle. Can also be used as a 2-axis device, for marking workpieces on table surfaces.

78430 101



78430 102



Technical data:		78430 101	78430 102
Type		EasyMarker	EasyMarker with easy ROT80
Speed at	mm/s	100	100
Height adjustment	mm	300	300
Embossing frequency to	Hz	400	400
Embossing force	N	100	100
Embossing stroke	mm	5	5
Marking speed	to	4 characters/s	4 characters/s
Connection	Volt	240	240
Compressed air	bar	6	6
Movement distances	x/y/z	100 x 100	100 x 100 x 200
Workpiece Ø max.	mm	-	200
Workpiece weight max.	kg	50	10
Table size	mm	300 x 300	500 x 300
Chuck Ø	mm	-	80
Centre height	mm	-	120
Dimensions	mm	300 x 650 x 350	500 x 650 x 350
Weight approx.	kg	18	25

Type	78430	...
EasyMarker	#	101
EasyMarker with easyROT80	#	102



78450 - 78455 Electronic Marking Devices DYMO



78450 - 78454

Type

Marking devices for quick production of self-adhesive marking labels.

1 + 1 year guarantee for cat.-no. 78450.

2 + 1 year guarantee for cat.-no. 78452-78454

Note:

Labelling tape cassettes see cat.-no. 78456 to 78459. Batteries see cat.-no. 39900.

78450



Rhino 5200 in the case

Type

Conforms with all ANSI, TIA/EIA-606-A labelling standards. Direct access keys automatically set up size, spacing and format of the labels for wires and cables, terminal blocks, patch panels, and applications with vertical and fixed length. Pre-programmed symbol library. Non-slip rubber sheathing protects the device from damage. Tape loop offers free hands. Backlit display. Nylon tape 19 mm, white, Quick Start Guide, Li-Ion rech. batteries or 6 AA batteries (not included).

Use

For fast professional printing of barcodes, labelling of wires, cables, buttons, modules and fixed lengths via fast-access keys; applications in industry, audio/video, safety, maintenance, construction, electrical engineering, data communication and radio/television.

78452

LabelManager 360 D

Type

In box with tape 19 mm/, black/white. Delivered with a rech. Li-Ion battery and charger.

78453

LabelManager 280

Type

- Professional, portable labelling device
- Computer-like QWERTZ keyboard
- with PC connection possibility

With labelling tapes 12 mm/9 mm, black/white

Delivered with a rech. Li-Ion battery, power supply adapter, transport case and USB cable.

Use

Autonomous, or connect to PC or MAC via USB, to print barcodes, logos, labels, etc. with the DYMO Label software.

78454

LabelManager 210 D

Type

In box with tape 12 mm/3 m, black/white. Without batteries.

78455

Power adapter

Use

For cat.-no. 78454.



78450



78452



78454



78453



78455



Cat.-no.	78450	78452	78453	78454
Features	Rhino 5200 in case	LabelManager 360 D	LabelManager 280	LabelManager 210 D
Printing process	Thermo-transfer	Thermo-transfer	Thermo-transfer	Thermo-transfer
Print resolution dpi	180	180	180	180
max. number of lines	5	2	2	2
max. print height mm	18	13,5	8,1	9,6
Print speed mm/s	-	10,0	10,0	6,8
Cassette type	IND	D1	D1	D1
Tape width mm	6, 9, 12, 19	6, 9, 12, 19	6, 9, 12	6, 9, 12
Keyboard type	ABC	QWERTZ	QWERTZ	QWERTZ
Number of keys	61	63	58	57
RACE (Stellenbosch-input)	x	x	x	x
Display number of characters	2 x 15	2 x 16	2 x 14	2 x 13
Display LC-display Size mm	-	66 x 36	56 x 28	60 x 17
Number of characters/symbols	> 100	221	221	132
Number of fonts	-	3	3	1
Number of font sizes	7	7	6	6
Number of font styles	5	7	18	7
Effects	x	x	x	x
Memory last label	x	x	x	x
Label memory	> 100	9	9	9
Dynamic memory	x	x	x	x
Preferred Formate	x	x	x	x
Tape section	Manuel	Manuel	Manuel	Manuel
Device dimensions W x D x H mm	235 x 295 x 105	215 x 245 x 85	107,5 x 206 x 46,5	155 x 165 x 65
Batteries	6 Mignon AA/Li-Ion rech.	Li-Ion rech.	Li-Ion rech.	5 Mignon AA
Mains adapter (optional)	x	x	x	x

DYMO Rhino 5200 in case	DYMO LM 360 D	DYMO LM 280	DYMO LM 210 D	Mains adapter
78450	78452	78453	78454	78455
201	301	301	101	101



78440

PC table labelling device and labels



78440 301  
LabelWriter 450 Turbo

- Type**
- Prints labels at high speed.
  - Delivers extremely high quality and flexibility with a high capacity and speed, to save even more time and money.
  - Prints 71 labels a minute (4-line address label).
  - 40% faster than the LabelWriter 450.
  - incl. of DYMO Label v.8 software.

78440 203-210

**Paper labels**  
**Type**  
White or transparent.  
**Use**

- White permanent paper labels for most labelling purposes.
- Removable white permanent paper labels for time-limited labelling - without residues after removal.
- Transparent permanent plastic labels
- Non-adhesive cards as date or name tags, can be used in identity card covers and card clips.

78440 301



78440 203-210

Description	Size W x L mm	Rolls/ Box	Labels per roll	Suitable for Type	78440	...
LabelWriter 450 Turbo	-	-	-	-		301
Standard address labels	28 x 89	2	130	LW 400/Duo/310/320		203
Large address labels	36 x 89	2	260	LW 400/Duo/310/320		204
Shipping labels	54 x 101	1	220	LW Duo/320		205
Diskette/name labels	54 x 70	1	320	LW Duo/320		206
Suspended file labels	12 x 50	1	220	LW 400/Duo/310/320		208
Binder labels, narrow	38 x 190	1	110	LW 400/Duo/310/320	#	209
Binder labels, wide	59 x 190	1	110	LW Duo/320	#	210

78456

Label tape cassettes IND for DYMO Rhino 5200



**Use**  
Label tape cassettes IND for Rhino 5200

78456

Colour	Width mm	Labelling tape Material	Tape length m	78456	...
yellow	12	Nylon	3,5	#	201
yellow	19	Nylon	3,5	#	202
white	12	Nylon	3,5		203
white	19	Nylon	3,5		204
white	12	Polyester	5,5	#	301
white	19	Polyester	5,5	#	302
white	12	Vinyl	5,5		401
white	19	Vinyl	5,5		402
yellow	12	Vinyl	5,5	#	403
yellow	19	Vinyl	5,5	#	404



78457 - 78459

Printing tapes for DYMO

**Type**  
In tape cassette D1.

**Note:**  
Also suitable for DYMO marking instruments type Pocket, 1000, 2000, 3500, 4500, 5000, 5500.

78457 - 78459

Tape width Labelling tape cassette Colour	Tape length m	9 mm	12 mm	19 mm	...
		78457	...	78458	
Black/transparent	7		101	201	101
black/white	7		104	204	104
blue/white	7			205	
red/white	7			206	
black/red	7			208	
Black/yellow	7		109	209	109





**78460 - 78464 Electric engraver**

**Type**  
 - Cable  
 - Plug  
 - Earthing plate

78462 101

78462 102

78461

**78460**  
**Type**  
 - Including stylus with 3 scribers.

**Use**  
 For engraving metal.

**78461**  
**Type**  
 - Including writing stylus 3 scribers,  
 - 1 burning stylus with 3 wire loops.

**Use**  
 For engraving metal, leather, plastics and woods.



Alternating current V	Transformer VA	Scriber mm	Type	78460	...	78461	...
230	40	1,2 x 25	in wooden box			201	301

	Use for	Dimensions mm	Pack= pcs.	78462	...	78463	...	78464	...
Spare stylus	Metal labelling	-	-			101			
Spare stylus	Wood labelling	-	-		#	102			
Spare stylus	-	1,2 x 25	10					201	
Spare stylus	-	1,5 x 25	10					202	
Earth clip	-	-	-						101

**78466 Compressed air marking pens**



**78466 101**  
**Marker pen MST 31 M**

**Type**  
 - Exhaust air to the front  
 - Air consumption 25-30 l/min  
 - Clear supply air hose Ø 4 mm  
 - Frequency 500-600 strokes/s  
 - Hose length 2000 mm  
 - Operating pressure 6-7 bar,  
 - Supply air hose included

- The compressed air marking pen is patented based on a new principle with approx. 3x the frequency relative to previous compressed air operated marking pens.

- With carbide engraving needle  
 - When working with the device no damaging vibrations are transferred into the hand.

**Use**  
 For applying markings and identification on metal, glass, plastic and even on hardened tool steel.

78466 101



78466 201-203



Type	Tape width mm	Valve type	Needle thickness	78466	...
MST 31 M	Medium	Rotary valve	-		101
Spare carbide engraving needle	-	-	Fine		201
Spare carbide engraving needle	-	-	Mitten		202
Spare carbide engraving needle	-	-	Coarse		203

**78469 Mini engraving devices**

**78469 101**  
**Mini engraving device**

**Type**  
 With two batteries type AAA

**Use**  
 For easy marking of all surfaces (metal, glass, ceramic, etc.).

**Note:**  
 Batteries see cat.-no. 39900.

78469 101



Type	Length mm	Ø mm	Spindle speed 1/min	Tool shank mm	Diamond tip mm	Pack= pc.	78469	...
Mini-engraver	150	14	12000	2,35	1,0	-		101
Spare engraving tip	-	-	-	-	-	2		102

**78474**

**Metal marking device**

**78474 201**

**PICO 10-30-3/Timer**

**Type**

Time controlled, with acoustic signal, overload and short circuit protection, temperature limiter. Output 30 VA, input 220 V~ - 50/60 Hz, outlet 12 V~ / AC.

**Use**

For long-lasting dark marking of products on bright metals. Suitable for tools, e.g. round dies, milling cutters, drills, tool bits, saw blades, surgical instruments, for use in the chemical industry, gastronomy, plumbing and heating.

**Set contents**

- 1 stamping type
- 1 electronic stencil set,
- 1 contact plate
- 1 container for electrolyte
- 1 marking device
- 1 cable for stamping type
- 1 bottle with electrolyte
- 1 bottle with Neutralin
- 1 cable for contact plate with
- 1 Alligator clip.

**78474**



	Use	Contents	Type	78474	...
<b>PICO 10-30-3/Timer</b>	-	-	in plastic case	<b>201</b>	
<b>Electrolyte</b>	General purposes	500 ml	-	<b>102</b>	
<b>Electrolyte</b>	Non-rusting materials	500 ml	-	<b>103</b>	
<b>Neutralyt</b>	Neutralising	500 ml	-	<b>108</b>	
<b>Wax template</b>	for self-labelling	100 pcs.	-	<b>109</b>	

**78475**

**Tool tag sets**

**Type**

Stamped aluminium, with hole and consecutive numbering. Round, with knurled ring.

**78475**



Set numbered from - to	Thickness mm	Ø mm	Set= pcs.	78475	...
<b>1 - 10</b>	1	27	10	<b>101</b>	
<b>11 - 20</b>	1	27	10	<b>102</b>	
<b>21 - 30</b>	1	27	10	<b>103</b>	
<b>31 - 40</b>	1	27	10	<b>104</b>	

Set numbered from - to	Thickness mm	Ø mm	Set= pcs.	78475	...
<b>41 - 50</b>	1	27	10	<b># 105</b>	
<b>51 - 60</b>	1	27	10	<b># 106</b>	
<b>61 - 70</b>	1	27	10	<b># 107</b>	
<b>without no.</b>	1	27	10	<b>111</b>	

**78480 - 78490**

**Lead-stamping punch pliers**

**78480**

**Lead-stamping punch pliers**

**Type**

Nickel-plated, with toggle lever action and plastic-coated handles, not engraved.

**Use**

For lead seals.

**78485**

**Lead seals (cylindrical seals). Pack = 1000 pcs.**

**78490**

**Sealing wire**

Galvanized, gauge 0.5 x 0.3 mm, in lengths of 20 cm, **bundle approx. 1/2 kg.**

**78480**



Seal		Lead stamping punch		Lead seals		Seal wire	
Ø mm	Length mm	78480	...	78485	...	78490	...
<b>8</b>	125	<b>101</b>		<b>201</b>			
<b>10</b>	175	<b>102</b>		<b>202</b>			
-	-						<b>101</b>

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