Punch holder

Design

- Creates a safe distance between the user's hand and the hammer head of the manual drive-in punch
- Protects against injuries caused by missed strikes and slips
- Spring-locked quick change device
- Suitable for all manual drive-in punches with a maximum shaft cross-section of 20 x 20 mm

Applications

Stable and durable metal construction for industrial



A - Z



Weight	78399	
kg 0.45		101
0.45		101

78400 - 78401 Number and letter punch sets extra quality

Design

Font DIN 1451 medium-narrow up to 5 mm, larger = narrow. With visible engraving, bright-drawn material in satin-gloss-matt finish, normal version left engraved – legible impression.

Applications

For normal requirements up to strengths of approx. 800 N/mm². For punching in iron, steel, leather, wood and plastic.

Note:

Right engraving – mirror-image impression for moulds and dies available on request.

0 - 9



DIN 1451 narrow
123
ABCD abcd
DIN 1451 medium-narrow

ABCD abcd

123

Font height Hardness engraving Version 78400 78401 mm **HRC** 58 - 60 In plastic box 102 102 2 58 - 60 In plastic box 103 103 58 - 60 In plastic box 104 104 58 - 60 In plastic box 105 105 58 - 60 In plastic box 106 58 - 60 In plastic box 107 10 58 - 60 In plastic box 108 12 58 - 60 In plastic box 109 58 - 60 In plastic box

78403 - 78404 Number and letter punch sets extra extra quality

Design

Plain polished, font DIN 1451 medium-narrow up to 5 mm, higher = narrow. Normal design left engraved, legible impression.

Applications

For rigorous requirements up to strengths of approx. 1200 N/mm².



			0 - 9		A - Z	
Font height mm	Hardness engraving HRC	Version	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 Number and letter punch sets special class

Design

Plain polished according to DIN 7353/1451 narrow, hardened and tempered impact head. Normal design left engraved, legible impression.

Applications

For the toughest requirements, workpieces up to 2000 N/mm².

				0 - 9		A - Z	
Font height mm	Hardness engraving HRC	Hardness at impact end HRC	Version	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

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78412 - 78413

Number and letter punch sets with depth limit

Design

With depth limit, plain polished, with visible engraving and tempered impact head, typeface in accordance with DIN 1451 medium. Normal design left engraved – legible impression.

Applications

For the most demanding applications, for punching in steel.

Note:

Right engraving – mirror-image impression for moulds and dies available on request.

				0 - 9		A - Z	
Font height mm	Hardness engraving HRC	Hardness at impact end HRC	Version	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



Design

Precision design made of CrMo special steel. The punched mark is directly legible.

Applications

Suitable for marking steel with strength up to 1300 N/mm². Several types of steel can be inserted next to each other in the steel holder (see table).

Set composition

Α	Α											E							
T	T	J	J	K	K	L	L	L	M	M	N	N	N	0	0	0	P	P	Q
R	R	R	S	S	S	T	T	U	U	U	٧	W	W	Χ	Χ	Υ	Z	&	1
/	_	-				÷	1	1	1	1	2	2	2	2	3	3	3	4	4
4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	0	0	0

Set contents

Hand holder,

100 Individual steel types A-Z and 0-9, / (forward slash), . (full stop), , (comma) and - (hyphen).

Font height mm	Max. mounting options per holder	Version	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

Design

Made of aluminium, block letters.

Applications

For signing, identification, marking etc. with paint or ink.

	0-9	A - Z	
ont height	78420	78420	
mm			
20	20)1	210
30	20)2	211
40	20)3	212
60	20)5	214
80	20)6	215
100	20)7	216



78420 201-207



78420 210-216

78422

Metal etcher

Design

With 2 refills. Green universal etching solution. **Applications**

For identification, marking and signing in precision engineering, tool manufacture and mechanical

engineering, storage and in the warehouse. For steel, copper, nickel, tin and lead, as well as their alloys.

	Pack = Units	78422	
Etcher	-		101
Spare refills	5		102



Info Overview of pictograms for chalk and markers Rough and oily Glass, porcelain Smooth and Rubber, tyres clean iron Hot iron Paper, cardboard Stainless steel Dry wood Stone, brick Damp wood Textiles Asphalt, macadam Plastic

67330

Oil pastel pencils



Oil pastel pencil

Design

- Hex
- Without paper sleeve

Applications

Colour

Yellow

Square.

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

67330 102 Holder with push button Design

- The metal teeth of the holder keep the chalk fixed during use and thus secure the marker
- The push mechanism makes it easy to extend and retract the chalk

			Oil pastel	pencil		Holder	
Le cr	.	Pack = pieces		67330		67330	
-		12			101		
11	1.4	-					102

78424 **Blackboard chalk**



Applications

For writing on blackboards.

Colour	Dimensions mm	Pack = pieces	78424	
White	90 x 13 x 13	12		101

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Soapstone chalk



Applications

For marking metal before welding.

Dimensions mm	Pack = pieces	78419	
100 x 10 x 10	50		101

78421

Solid paint markers Markal B Paintstik



- The real paint formula has superior marking performance on oily, icy, wet, dry or cold surfaces and is weather-resistant and UV-resistant
- The real paint provides permanent, clearly visible markings
- The solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity
- Easy-to-hold, recyclable paperboard holder protects Paintstik for maximum use

Applications

Can be used for marking rough, rusty, smooth and dirty surfaces.



78421 102



Colour	Standard size mm	Standard size inch	Temperature range °C	78421	
White	17	11/16	-46 to 66		101
Yellow	17	11/16	-46 to 66		102

78423

Quik Stik® Mini paint marker



- Compact solid paint marker in a convenient twistup, plastic holder that is ideal for finer line marking on smooth or rough surfaces
- Plastic holder with clip-cap stores easily in a pocket and keeps hands and clothing clean
- Easily advances by turning the knob, allowing for full extension and retraction of the marker
- The colour paint dries quickly (5-7 minutes) and leaves bold, permanent marks on virtually any surface, whether wet, smooth, rough or hot, weather-resistant and UV-resistant paint





78423 102

Workshop equipment



Colour	Size mm	Temperature range °C	78423	
White	6	-18 to 200		101
Yellow	6	-18 to 200		102



Permanent marker



Applications

Red

Indelible marking on all smooth surfaces, such as

Colour	Line thickness up to mm	Pack = pieces	78426	
Black	3	12	10	1
Blue	3	12	10	2

12

paper, cardboard, plastic and metal. Rounded tip. Long service life.





78427

Industrial paint marker



Colour

Black

Blue

Red

Yellow

White

- Universal, quick-drying paint marker
- Pigmented ink without the addition of toluene and Pack =

Units

12

12

12

12

12

() = Items with prices in brackets partly available from stock

- xylene, low odour
 - For lightfast, water-resistant and wipe-off-resistant marking of dark and transparent material

78427

- Valve-controlled ink flow for uniform lines

п	ino	thicknoss	2 1	mm

103

105



78429

CD marker



Indelible ink. Quick-drying, UV-/ water resistant. Nylon tip Ø 10 mm.

Applications

On clean, smooth surfaces: CDs, paper, metal, plastic.

Colour	Heat resistance up to approx. °C	78429
Black	100	101



78427



78425 101-103

Disposable tube markers

Design

- Disposable marker with hardened steel ball tip for quick and easy marking
- Perfect adhesion to all surfaces (rusty, rough, oily, damp etc.) and all materials (metal, wood, rubber, concrete, plastic etc.)
- Paint without halogens (chlorine), heavy metals (Pb, Zn, Cd) or hydrocarbons, so environmentally friendly
- Resistant to mineral oil and salt fog, weather resistant, indelible, quick-drying
- 1-year guarantee on writing guality!

78425 201

Stainless steel tube marker Design

- Metal-ball tube marker that meets the requirements of the European nuclear industry
- The low-sulphur and low-chloride contents allow safe marking on stainless steel
- May be safely used on stainless steel and other alloy metals where corrosion resistance is impor-
- The aluminium squeeze tube and thick paint make it suitable for vertical and overhead surfaces
- The low-sulphur and low-chloride paints are resistant to weather, water and UV

78425 301

High-temperature tube marker Design

- Metal-ball tube marker is ideal for hardening and heat treatments
- Markings applied at ambient temperature hold at temperatures up to 1000°C
- The aluminium squeeze tube and thick paint make it suitable for rough, vertical and overhead surfaces with excellent adhesion on oily and wet

Applications

High-temperature paint, ideal for welding seams, ingots, casting, forging and other hardening parts.





78425 103







Colour	Content	Writing thickness	Heat resistance	78425	
	ml	mm	°C		
White	60	3	200		101
Yellow	60	3	200		102
Red	60	3	200		103
White	60	3	200		201
White	60	3	1000		301

78431

Screw locking varnish

Markal

- Maximum-visibility locking varnish for quick and easy visual inspection: Security checks or changes to original settings on assemblies, facilitates identification of any accidental or deliberate adjustment movements
- Outstanding adhesion to a wide variety of surfaces
- Ideal for use on connectors, bolts, nuts, parts and assemblies after they have been set to the correct tension or position
- The sealing varnish suitable for alloys, free of heavy metals for safe use on metal
- Significantly more content compared with other products on the market (50 ml paint) for a longer service life and reduced work downtime

Applications

In industry and trades.























78431 101



78431 102



78431 103



78431 104



Colour	Content ml	Ambient temperature °C	Temperature resistance °C	78431
White	50	-20 to 70	200	101
Yellow	50	-20 to 70	200	102
Red	50	-20 to 70	200	103
Orange	50	-20 to 70	200	104









78425 201



78425 301

Pica Dry deep hole marker



35448 101

Pica Dry deep hole marker

Design

- Marks and writes on almost all material surfaces (on dry, damp, smooth, rough, dusty, oily, bright or dark surfaces)
- Replaceable special lead made of graphite
- Automatic lead feed Stainless steel tube
- Integrated sharpener on the front in the protector
- Practical quiver protector with special clip
- Marking on smooth surfaces can be wiped off with a damp cloth

35448 102-105 Pica Dry replacement lead set Design

- For all surfaces
- Can be wiped off with a damp cloth
- Best output
- Best contrast
- Already sharpened
- Lead diameter 2.8 mm
- In a practical and robust plastic box

35448 102 Comprising:

- 4 graphite leads
- 2 red leads
- 2 yellow leads

35448 103 Comprising:

- 10 graphite leads

35448 104 Comprising:

- 10 red leads

35448 105 Comprising:

- 10 yellow leads

Note:

Red and yellow colour protect against

high temperatures.





35448 102

35448 103





	Colour	Pack = pieces	35448
Marker	-	-	101
Refill set	Graphite, red, yellow	8	102
Lead set	graphite	10	103
Lead set	red	10	104
Lead set	yellow	10	105

35449

Pica Ink deep hole marker



Design

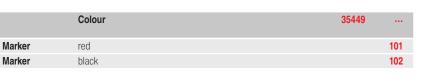
- Ideal for hard-to-reach areas
- Writes on all dry material surfaces
- Permanent ink, removable with alcohol and spiri
- Marking width 1-2 mm
- Can be left open for 1 day

- Self-adjusting patented stainless steel telescopic
- Practical quiver protector with special clip for onehanded operation



35449 102

35449 101





2-axis labeller Markierteufel (MarkingMaster) Design

Dot peen marking machine for labelling, identifying and marking nameplates and solid materials. Pneumatic dot peen marking head, 2-axis stepper motor - path control integrated in the housing. Serial interface for PC connection. Standard software with operation in standard Windows if desired, with pull-down menus, hotkeys and toolbar and status bar. Easily create the labelling layout: Texts, graphic elements (circles, squares and much more), counting function, free scaling of the objects, automatic date marking and much more.

Applications

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



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

78430

Labelling devices

Note:

Further labelling systems and flexible identification systems available on request.

78430 101

2-axis labeller EasyMarker Design

With LED work area lighting. CNC-controlled needle marker. Labelling system 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 input can be controlled on the LC display. Input data - insert workpiece - press start - finished!

Functions:

Workshop equipment

Fixed text, continuous numbers, automatic date, linear- angle- and circular marking, automatic zerosetting, teach in, variable type height (in increments of 0.1 mm), CE logo marking, mm/inch conversion. Software in three languages.

78430 102

3-axis labeller EasyMarker with easyROT80 Design

Similar to art. no. 78430 101, additionally for labelling cylindrical or multi-edge parts. Full software support for path-controlled cylinder marking as well as for timed operation with freely selectable timing angle. Can also be used as a 2-axis instrument for marking workpieces on table surfaces.



Technical data:		78430 101	78430 102
Туре		EasyMarker	EasyMarker with easyROT80
Speed in	mm/sec	100	100
Height adjustment	mm	300	300
Impact frequency up to	Hz	400	400
Imprinting force	N	100	100
Stroke	mm	5	5
Labelling speed	up to	4 characters/sec	4 characters/sec
Connection	Volt	240	240
Compressed air	bar	6	6
Travel paths	x/y/z	100 x 100	100 x 100 x 200
Max. workpiece Ø	mm	-	200
Max. workpiece weight	kg	50	10
Table size	mm	300 x 300	500 x 300
Chuck Ø	mm	-	80
Tip height	mm	-	120
Dimensions	mm	300 x 650 x 350	500 x 650 x 350
Weight approx.	kg	18	25

Туре	78430	
EasyMarker		101
EasyMarker with easy ROT80		102





78450

78450 - 78455

Electronic labellers DYMO

DYMO.

78450 - 78454

Design

Labellers for high-speed production of self-adhesive labels.

- 1 + 1 year warranty for art. no. 78450.
- 2 + 1 year warranty for art. no. 78452-78454.

Note:

For label tape cassettes see art. no. 78456 to 78459. For batteries see art. no. 39900.

78450

Rhino 5200 in case

Design

Meets all ANSI, TIA/EIA-606-A- labelling standards. Direct access keys automatically adjust size spacing and format of labels for wires and cables, terminal blocks, patch panels and applications with vertical and fixed length. Pre-programmed symbol library. Non-slip rubber coating protects device from damage. Belt loop keeps your hands free. Backlit display. Nylon tape 19 mm white, quick start guide, Li-ion batteries or 6 AA batteries (not included).

Applications

For fast, professional printing of barcodes, labelling of wires, cables, buttons, modules and fixed lengths using quick access keys in industry, audio/video, security, maintenance, construction, electrical engineering and data communication and radio/television.

78452

LabelManager 360 D

Design

In a box with tape 19 mm, black/white. Supplied with a Li-ion battery and charger.

78453

LabelManager 280 Design

- Professional portable labeller
- Computer-style QWERTZ keyboard
- With PC connection capability

With labelling tapes 12 mm/9 mm, black/white. Supplied with a Li-ion battery, mains power supply adapter, transport case, USB cable.

Applications

Use standalone or connected to a PC or MAC via USB to print barcodes, logos, labels etc. with the DYMO Label software.

78454

LabelManager 210 D

Design

In a box with tape 12 mm/3 m, black/white. Batteries not included.

78455

Mains power supply adapter **Applications**

For art. no. 78454.







DYMO

Rhino 5200









Art. no.	78450	78452	78453	78454
Features	Rhino 5200 in case	LabelManager 360 D	LabelManager 280	LabelManager 210 D
Printing method	Thermal transfer	Thermal transfer	Thermal transfer	Thermal 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
Printing 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 (quick key input)	X	X	X	X
Display number of characters	2 x 15	2 x 16	2 x 14	2 x 13
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 formats	X	X	X	X
Tape section	Manual	Manual	Manual	Manual
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	Li-ion	Li-ion	5 Mignon AA
Mains power supply adapter (optional)	X	X	X	X

DYMO Rhino 5200 in case		DYMO LM 360 D		DYMO LM 280	[DYMO LM 210 D	Mains	power supply a	dapter
78450		78452		78453		78454		78455	
	201		301		301		101		101

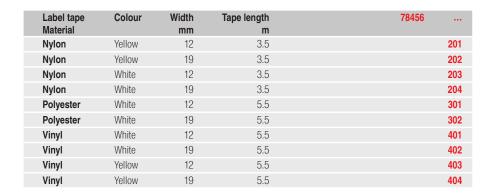
78.17

Label tape cassettes IND for DYMO Rhino 5200



Applications

Label tape cassettes IND for Rhino 5200.





78457 - 78459

Label tape cassettes for DYMO

DYMO

Design

In tape cassette D1.

Tape width

Black/white

Black/yellow

Colour

Label tape cassette

Black/transparent

Note:

Also suitable for DYMO labellers type Pocket, 1000, 2000, 3500, 4500, 5000, 5500.

209

9 mm 12 mm 19 mm 78457 78459 Tape length 78458 m 101 201 101 104 204 104



78461

78460 - 78464

Electric engraver (marking device)

Design - Cable,

- Plug,
- Earthing plate.

78460

Design

- Including stylus with 3 scriber points.

Applications

For labelling metal.

78461 Design

- Including metal stylus with 3 scriber points,
- 1 branding pencil with 3 hot loops.

Applications

For labelling metal, leather, plastic and wood.





109



109

78462 102









Alternating current V	Transformer VA	Stylus mm	Version	78460		78461	
230	40	1.2 x 25	In wooden case		201		301

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	Use for	Dimensions mm	Pack = pieces	78462	78463	. 78464	
Spare stylus	Metal labelling	-	-	101			
Spare stylus	Wood labelling	-	-	102			
Spare stylus	-	1.2 x 25	10		20	l	
Spare stylus	-	1.5 x 25	10		202	2	
Earth terminal	-	-	_				101

- Electric drive based on the vibrating anchor system, with double insulation and no maintenance
- Very easy-to-handle moulded plastic housing
- Continuous and precise adjustment of the maximum stroke length (impact strength)

Applications

For clean, hands-free labelling and marking, as well as for engraving of all metals, glass, plastic, stone, wood and leather, etc.

Scope of delivery:

- 1 diamond graver
- 1 carbide graver
- 1 modelling graver for wood, plastic
- 1 graver adapter



Туре	Stroke leng m	th m	Volt	Hz	Version	78465	
Vibogravc V	G490	3	230	50/60	Plastic case		101



78466

Compressed-air marker



78466 101 Marker MST 31 M

Design

- Exhaust air to the front,
- Air consumption 25-30 l/min.,
- Clear air supply hose Ø 4 mm,
- Frequency 500-600 strokes/sec,
- Hose length 2000 mm,
- Operating pressure 6-7 bar,
- Air supply hose included,
- The compressed-air marker is patented based on a new principle with approximately 3x the frequency of previous compressed-air-operated markers,
- With cemented carbide engraving needle,
- No harmful vibrations are transferred to the hand while working.

Applications

For applying markings and labels to metal, glass, plastic and even hardened tool steel.



78466 201-203

78466 101



Туре	Tape width mm	Valve type	Needle size	78466	
MST 31 M	Medium	Rotary valve	-	•	101
Spare carbide engraving needle	-	-	Fine	2	201
Spare carbide engraving needle	-	-	Medium	2	202
Spare carbide engraving needle	-	-	Coarse	2	203

78474 Metal marking device

78474 201

Model PICO 10-30-3/Timer

Design

With time control, acoustic signal, overload and short-circuit protection, temperature limiter. Power 30 VA, input 220 V~ - 50/60 Hz, output 12 V~/AC.

Applications

For permanent dark product marking on plain metals. Suitable for tools, e.g. dies, cutters, drills, turning tools, saw blades, steel and cutlery, surgical instruments, parts for the chemical industry, cooking and catering technology, heating and plumbing fixtures.

Set contents

- Marking punch,
- Electronic stencil set,
- Contact plate, 1
- 1 Container for electrolyte,
- Marking device,
- 1 Cable for marking punch,
- Bottle of electrolyte, 1
- 1 Bottle of Neutralin,
- Cable for contact plate with
- Alligator clip.

	Application	Contents	Version	78474	
PICO 10-30-3/Timer	-	-	In plastic case		201
Electrolyte	General purpose	500 ml	-		102
Electrolyte	Non-rusting materials	500 ml	-		103
Neutralin	Neutralising	500 ml	-		108
Wax template	For self-labelling	100 pieces	-		109





Workshop equipment

Tool tag sets

Design

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



Set numbered from - to	Thickness mm	Ø mm	Set = pieces	78475	
1 - 10	1	27	10		101
11 - 20	1	27	10		102
21 - 30	1	27	10		103
31 - 40	1	27	10		104

Set numbered from - to	Thickness mm	Ø mm	Set = pieces	78475	
41 - 50	1	27	10		105
51 - 60	1	27	10		106
61–70	1	27	10		107
Without no.	1	27	10		111

78480 - 78490 Sealing pliers

78480

Sealing pliers

Design

Nickel-plated, with elbow lever transmission and plastic-coated handles, without engraving.

Applications

For lead seals.

78485

Lead seals (cylinder seals).

Pack = 1000 units.

78490

Seal wire

Zinc-plated, 0.5 x 0.3 mm thickness, in 20 cm long pieces, bundle approx. 1/2 kg (= 1000 pieces).

		Sealing pliers		Lead seals		Seal wire	
Seal Ø	Length	78480		78485		78490	
mm	mm						
8	125		101		201		
10	175		102		202		
-	-						101



78605

Strong magnets

Design

Bridge-shaped magnet with high adhesive force and through-bore for mounting.

Applications

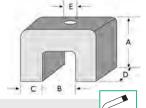
For holding, lifting, positioning and installation purposes.

Note:

Size 4 with 2 bores.



Size	A mm	B mm	C mm	D mm	E mm	Adhesive force N	Application temp. of magnet max.°C	Paint max. °C	78605	
1	20.0	15.0	7.5	20.0	5.2	45	450	300		201
2	25.0	20.0	10.0	25.0	5.0	90	450	300		202
3	30.0	23.0	11.0	30.0	5.0	118	450	300		203
4	34.9	34.9	11.1	44.5	7.9	235	450	300		204



78606

Bar magnets

www.hhw.de Fax order hotline: 0800 0 915910

Design

Pack = 2 units.

Axial magnetised through the length. Cross-section/Ø: unmachined. Tolerances: Length +/- 0.1 mm, cross-section round +0/-0.2 mm, cross-section flat +/-0.2 mm.

Applications

By lining up individual magnets, bar magnets can be formed in any length.

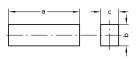
78606 201-208	
In pairs.	



78606 204-208

78606 201-203





Size	Shape	a mm	b mm	c mm	Adhesive force N	Application temp. of magnet max.°C	Paint max. °C	78606	
11	Round	6	20	-	4	450	300		201
12	Round	8	24	-	7	450	300		202
13	Round	10	30	-	12	450	300		203
14	Flat	20	10	5	6	450	300		204
16	Flat	60	15	5	20	450	300		206
18	Flat	75	15	10	14	450	300		208