

Quality since 1921





# Designing and Manufacturing magnetic systems for workholding and lifting

**We have an expert knowledge of all magnetic applications: workholding for machine tools, quick mold changing systems on high temperature presses, ferrous material handling, contactless magnetic drive, and we offer a wide range of magnetic accessories as well.**

**We export more then 75 percent of our products around the world. Brailon products are being used in all of Europe, Asia, North America, Central and South America...**

## Our products

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Taking advantage of their experience BRAILLON MAGNETICS produces a very wide range of magnetic and electromagnetic products, both for standard and special applications, including:

- Magnetic clamping of work pieces for mechanical industry, aeronautics, railway industry.
- Magnetic material handling.
- Complex demagnetization.
- Magnetic separation and filtration.

## Our Manufacturing Sites

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France:

- 6000 square meters of manufacturing and inventory, 1000 square meters dedicated to Research, Development, Design and Sales.
- High tech machines with capabilities of grinding to a 2000 x 1000 mm precision. Capabilities of milling to a 2200 x 1500 mmm precision. We also can wind up to 250 Kg, capabilities of painting, melting resin to spec , controlled marble...
- Inventory that is regulary maintained, a quality control department, packing and shipping department...



## Undertaking and Innovating: A history of Brillon tradition

**1921**

Creation of the company  
Bardin-Braillon

**1984**

Design of new small pitch  
chuck with neodymium  
magnets

**2014**

Opening of an agency in  
Chicago, USA

**1925**

Patent for the magnetic  
chuck working with  
alternating and direct  
current

**1990**

Development of the first  
magnetic platens for  
injection molding machines

**2015**

Development of integrated  
electronics by engineers at  
BRAILLON

**1951**

Patent of the magnetic  
chuck, the company's  
flagship product

**1998**

Development of electro-  
permanent milling chucks  
with neodymium magnets

**2017**

Sales Focus on Asian  
markets

**1965**

Patent for EPBJP magnetic  
chuck

**2011- 2012**

Acquisition of BRAILLON  
MAGNETICS by Mr. Hubert  
Burlat.  
Redeployment of the  
company abroad, office in  
Germany

**1976**

With 150 employees and  
2 production sites  
BRAILLON operates 80%  
in foreign markets: the  
USA, Japan, Mexico,  
Taiwan, Germany, Turkey,  
Scandinavia, United  
Kingdom... more than 72  
destinations for magnetic  
chucks and lifting magnets

**2013**

Installation of a new high  
capacity machining center:  
2200 x 1500 mm



**BRAILLON**  
MAGNETICS

« Everyone remembers  
their first Brillon »



# Philosophy

**Our priority is to satisfy the needs of our customers by manufacturing state-of-the-art products.**

**We have a network of professional technicians, who are available, competent and open to the needs of the customer, helping a company to find the product suitable to applications.**

## Our quality commitments

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Being always quality conscious we attach great importance to the purchase and quality control of raw materials. All purchases from subcontractors are continuously monitored throughout the manufacturing process. Our subcontractors are systematically audited.

We are committed to guaranteeing the reliability and high precision of our products, ensuring the highest quality.

## Solution tailored to the specific requirements

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Our research and development team aims to find the clamping solution for the customer's application by:

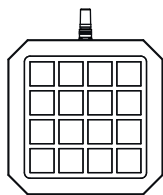
- technical and budgetary expertise
- durable product quality
- quick profitability of the proposed solution

Our team has mastered all magnetic technologies used in the industry.

Our engineers are constantly developing new products and new applications.



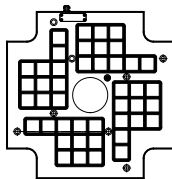
## Our Products



### Workholding

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Magnetic Chucks for Milling Grinding and Turning  
Sine Tables and magnetic squares  
Machine Tool Palletizing  
Precision Tools  
Vacuum Chucks



### Quick Mold Change Systems

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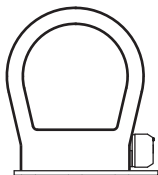
Magnetic Platens for Plastic Injection Systems  
Magnetic Platens for presses and compression  
Rubber and Composite - 250° c  
Custom Machines - Magnetic systems



### Magnetic Lifting and Material Handling

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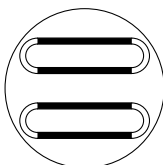
Permanent Lifting Magnets  
Battery Powered Magnets  
Heavy duty magnetic material handling  
Magnetic accessories for automation and gripping



### Parts Demagnetization

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Hand Held Systems  
Demagnetization Tables  
Demagnetization Tunnel  
Specialty Tools: Conveyors and Roller Tables  
Gauss Measuring Devices



### Magnetic Seperation

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Magnetic Grids  
Magnetic Plates  
Magnetic Drums and Pulleys  
Overband  
Cleaning tools



# Our Technologies

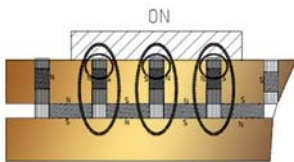
## Permanent Magnets

A permanent magnetic chuck is simply activated and deactivated mechanically.

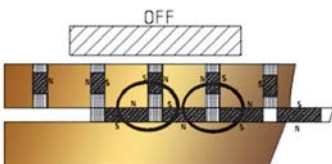
The magnets are always active inside the chuck. However, the magnetic flux stays locked inside the chuck when it is deactivated.

When activated, the magnetic flux is locked into the part that is worked.

The hold is then secure:

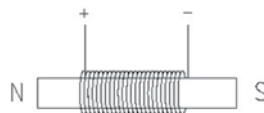


When deactivated, the Magnetic Flux is locked inside the chuck. The part is now free, for removal:

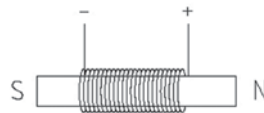


## Electromagnets

When applying a continuous electrical current to a steel conductor, a magnetic field is created:



We can reverse the magnetic field by switching the polarity on the coil:



The magnetic field is generated by the activated coil. By sending continuous current, the inductor (the part that is being coiled) wraps itself in a magnetic field.

No current goes through the coil, so there is no magnetic field and the part is free:



When sending a continuous current to the coil, we create a magnetic field and the part is held:



## Electro-permanent

### FULL DEMAGNETIZATION SYSTEM

The ALNICO magnet is inactive. It is not at all magnetized:

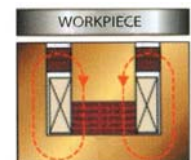


By sending a continuous electrical pulse to the coil. The part is then magnetized and held firmly:



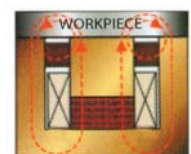
### COMPENSATED SYSTEM

The magnetic flux locks itself inside the chuck and the part is released and free:



By sending an electrical pulse to the coil. We change the magnetic direction of the ALNICO magnet. This allows the magnetic flux to go through the part itself. The part is then held.

To release the part, we send an inverted electrical pulse to the coil that enables the polar direction to change:







# Summary

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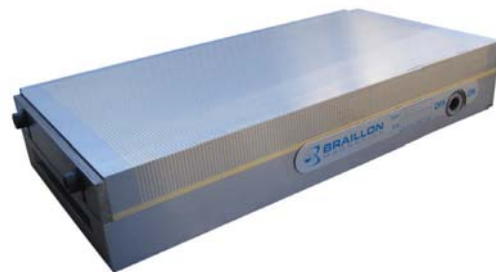
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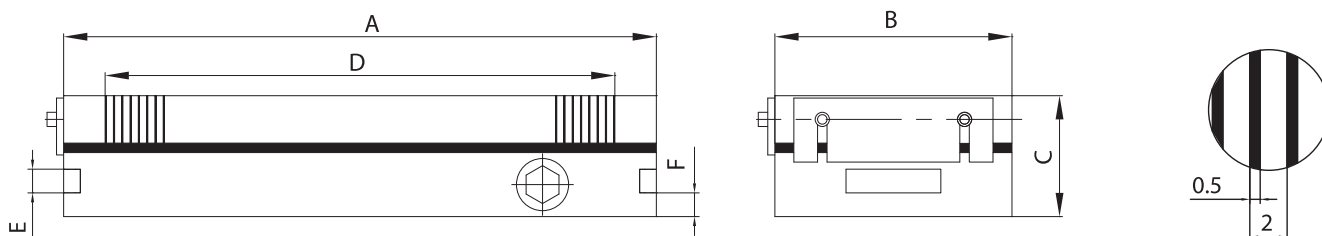
# Permanent Magnetic Chuck with fine pole pitch type PF2

Grinding EDM Metrology

- Permanent magnetic chuck with NEODYMIUM magnets
- Parallel fine pole pitch with steel + brass
- Reinforced actuating mechanism

Included with purchase:

- 1 Actuating Key
- Long and short side end stops
- Clamps

Max.  
Temperature of use  
80 °CPole pitch  
2 mm,  
0,5 mm of brass,  
1,5 mm of steelNominal force  
100 N/cm<sup>2</sup>Admissible wear  
of top plate  
7 mmMagnetic field  
height  
4 mm

Reference	Weight in Kg	A	B	C	D	E	F
10.01.14070	5,0	140	70	49	111	10	10
10.01.175100	7,0	175	100	49	140	10	10
10.01.200100	8,0	200	100	49	172	10	10
10.01.250100	10,0	250	100	49	206	10	10
10.01.255130	13,0	255	130	49	206	10	10
10.01.150150	9,0	150	150	51	115	10	10
10.01.250150	15,0	250	150	51	206	10	10
10.01.300150	18,0	300	150	51	257	10	10
10.01.300200	24,0	300	200	51	257	10	10
10.01.350150	22,0	350	150	51	305	10	10
10.01.400150	25,0	400	150	51	357	10	10
10.01.450150	28,0	450	150	51	407	10	10
10.01.400200	35,0	400	200	51	357	10	10
10.01.450200	37,0	450	200	51	407	10	10
10.01.500200	41,0	500	200	51	457	10	10
10.01.600200	49,0	600	200	51	557	10	10
10.01.300300	36,0	300	300	56	257	10	10
10.01.400300	52,0	400	300	56	357	10	10
10.01.500250	56,0	500	250	56	454	10	10
10.01.500300	67,0	500	300	56	454	10	10
10.01.600300	81,0	600	300	56	535	10	10
10.01.600400	106,0	600	400	56	556	10	10



High holding power / Waterproof construction

## OPTIONS

Sine table execution

Fitted to an angle iron

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli



# Permanent Magnetic Chuck with fine pole pitch type PF2-EDM

## EDM Metrology

- Permanent magnetic chuck with NEODYMIUM magnets
- Parallel fine pole pitch with steel + brass
- Lower height
- Actuating mechanism on the top surface

### Included with purchase:

- 1 Actuating key
- Long and short side end stops
- Clamps

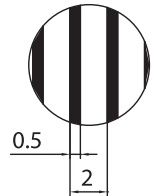
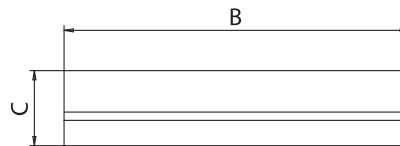
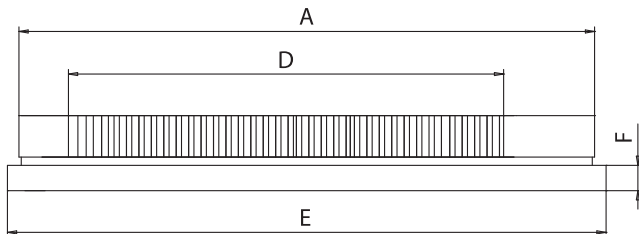
Max.  
temperature of use  
80 °C

Pole pitch  
2 mm,  
0,5 mm of brass,  
1,5 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
7 mm

Magnetic field  
height  
3 mm



Reference	Weight in Kg	A	B	C	D	E	F
10.02.175100	5,0	175	100	32	120	185	11,5
10.02.255130	9,0	255	130	32	200	265	11,5
10.02.150150	7,0	150	150	35	95	160	11,5
10.02.300150	13,0	300	150	35	245	310	11,5
10.02.300200	17,0	300	200	35	245	310	11,5
10.02.300300	24,0	300	300	35	245	310	11,5
10.02.350250	24,0	350	250	35	292	360	11,5
10.02.400200	23,0	400	200	35	342	410	11,5
10.02.400300	32,0	400	300	35	342	410	11,5



Heavy duty construction / Waterproof construction / Low height / Low magnetic field

## OPTIONS

Sine table execution

Fitted to an angle iron for  
Tombstone application

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

Flushing holes in the top plate



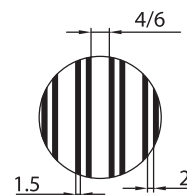
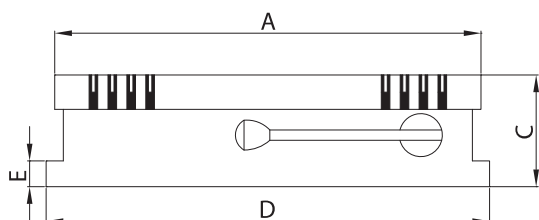
# Permanent Magnetic Chuck type FF

Grinding EDM

- Permanent magnetic chuck with FERRITE magnets
- Parallel fine pole pitch with steel + brass
- Integrated actuating handle

Included with purchase:

- Long and short side end stops
- Clamps

Pole pitch  
6 mmNominal force  
80 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmMagnetic field  
height  
4-5 mm

Reference	Weight in Kg	A	B	C	D	E
10.04.10065	3,0	100	65	54	119	10
10.04.12575	4,0	125	75	57	138	10
10.04.150100	7,0	150	100	65	165	15
10.04.200100	9,0	200	100	65	213	15
10.04.255130	13,0	255	130	65	265	15
10.04.150150	10	150	150	65	158	19
10.04.250150	15	250	150	65	258	15
10.04.300150	18	300	150	65	308	15
10.04.350150	21	350	150	65	358	13
10.04.400150	23	400	150	65	410	15
10.04.450150	26	450	150	65	458	15
10.04.300200	28	300	200	72	304	20
10.04.400200	32	400	200	72	413	15
10.04.450200	36	450	200	72	463	13
10.04.500200	40	500	200	72	515	15
10.04.600200	47	600	200	72	615	15
10.04.450250	57	450	250	93	445	20
10.04.500250	64	500	250	93	495	20
10.04.600250	78	600	250	93	595	20
10.04.500300	90	500	300	93	495	20
10.04.600300	100	600	300	93	595	20



Silver brazed top plate / Heavy duty construction / Waterproof construction / Low magnetic field

## OPTIONS

Sine table execution

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

Flushing holes in the top plate



# Permanent Magnetic Chuck type FG

Grinding EDM Milling Drilling

- Permanent magnetic chuck with FERRITE magnets
- Parallel standard pole pitch with steel + brass
- Integrated actuating handle

Included with purchase:

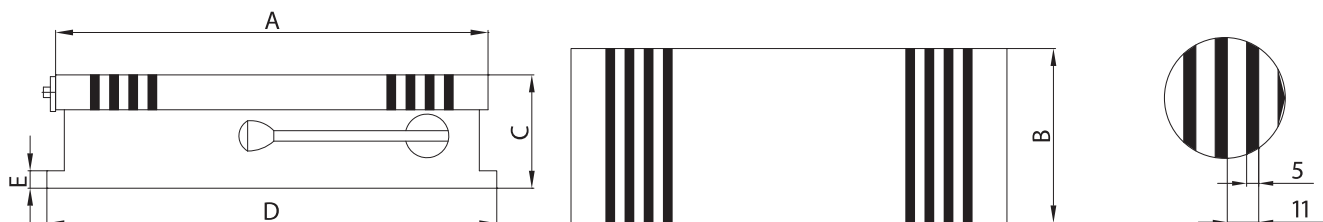
- Long and short side end stops
- Clamps

Pole pitch  
11 mm,  
5 mm of brass,  
6 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
6 mm

Magnetic field  
height  
6-7 mm



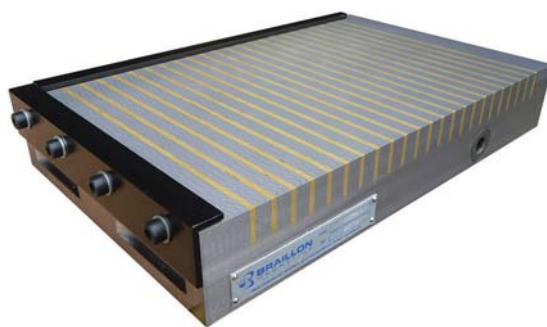
Reference	Weight in Kg	A	B	C	D	E
10.05.150150	9,0	150	150	65	158	19
10.05.250150	15,0	250	150	65	258	15
10.05.300150	18,0	300	150	65	308	15
10.05.350150	21,0	350	150	65	358	13
10.05.400150	23,0	400	150	65	410	15
10.05.450150	26,0	450	150	65	458	15
10.05.500150	29,0	500	150	65	510	15
10.05.400200	32,0	400	200	72	413	15
10.05.450200	36,0	450	200	72	463	13
10.05.500200	40,0	500	200	72	515	15
10.05.600200	47,0	600	200	72	615	15
10.05.700200	60,0	700	200	79	715	13
10.05.400250	51	400	250	93	395	20
10.05.450250	57	450	250	93	445	20
10.05.500250	64	500	250	93	495	20
10.05.600250	78	600	250	93	595	20
10.05.500300	90	500	300	93	495	20
10.05.600300	100	600	300	93	595	20
10.05.700300	116	700	300	93	695	24



Silver brazed top plate / Heavy duty construction / Waterproof construction

Sine table execution

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli



## Permanent Magnetic Chuck for milling type TF2

Milling Drilling Contouring Machining Planning

- Twin magnetic system (magnets inserted into the body and into the top plate)
- Magnetic system with Neodymium magnets
- Brass separations between the magnetic poles

Included with purchase:

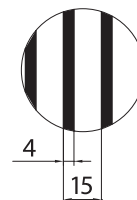
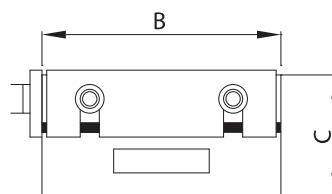
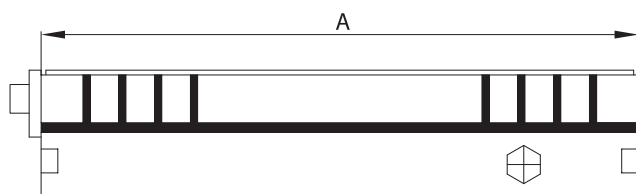
- 1 Actuating key
- Long and short side end stops
- Clamps

Pole pitch  
15 mm,  
4 mm of brass,  
11 mm of steel

Nominal force  
150 N/cm<sup>2</sup>

Admissible wear  
of top plate  
6 mm

Magnetic field  
height  
10 mm



Reference	Weight in Kg	A	B	C
10.03.250150	17,0	250	150	62
10.03.300150	20,0	300	150	62
10.03.350150	23,5	350	150	62
10.03.300200	30,0	300	200	65
10.03.400200	39,0	400	200	65
10.03.500200	48,0	500	200	65
10.03.600200	58,0	600	200	65
10.03.400250	48,5	400	250	68.5
10.03.500250	60,0	500	250	68.5
10.03.400300	58	400	300	68.5
10.03.500300	72,0	500	300	68.5
10.03.600300	87,0	600	300	68.5



High holding power / Twin magnetic system / Heavy duty construction / Waterproof construction

### OPTIONS

Sine table execution

Fitted to an angle iron for  
tombstone application

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

# Permanent Magnetic Chuck type FM

Milling Drilling Contouring Machining

- Permanent magnetic chuck with FERRITE magnets
- Parallel pole pitch with steel + brass
- Twin magnetic system (magnets inserted into the body and into the top plate)
- Integrated actuating handle

Included with purchase:

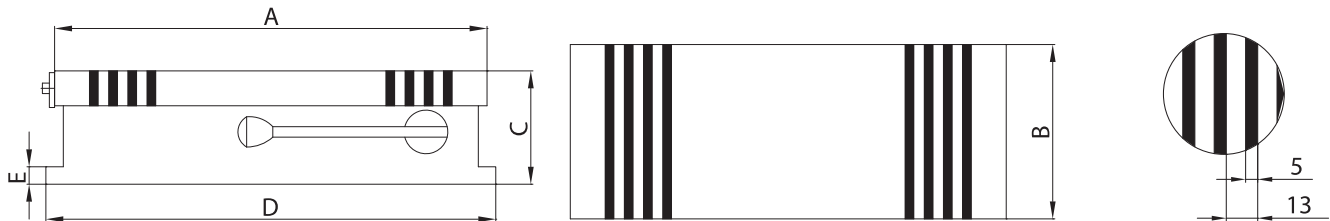
- Long and short side end stops
- Clamps

Pole pitch  
13 mm,  
5 mm of brass,  
8 mm of steel

Nominal force  
120 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
8-10 mm



Reference	Weight in Kg	A	B	C	D	E
10.06.250150	20,0	250	150	93	260	20
10.06.300150	24,0	300	150	93	310	20
10.06.350150	27,0	350	150	93	360	20
10.06.400150	30,0	400	150	93	410	20
10.06.450150	34,0	450	150	93	460	20
10.06.500150	38,0	500	150	93	560	20
10.06.300200	28,0	300	200	93	295	20
10.06.400200	40,0	400	200	93	395	20
10.06.450200	45,0	450	200	93	445	20
10.06.500200	50,0	500	200	93	495	20
10.06.600200	62,0	600	200	93	595	20
10.06.800200	82,0	800	200	93	795	20
10.06.400250	53,0	400	250	93	395	20
10.06.450250	56,0	450	250	93	445	20
10.06.500250	64,0	500	250	93	495	20
10.06.600250	78,0	600	250	93	595	20
10.06.750250	97	750	250	93	745	20
10.06.1000250	129	1000	250	93	945	20
10.06.400300	72	400	300	93	395	20
10.06.500300	90	500	300	93	495	20
10.06.600300	100	600	300	93	595	20
10.06.800300	130	800	300	93	795	20
10.06.900300	153	900	300	93	895	20
10.06.1000300	180	1000	300	93	995	20



High holding power / Twin magnetic system / Silver brazed top plate / Heavy duty construction / Waterproof construction

OPTIONS

Sine table execution

Fitted to an angle iron for  
tombstone application

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

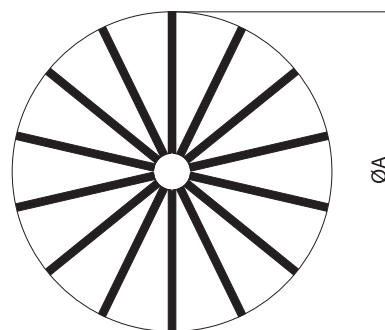
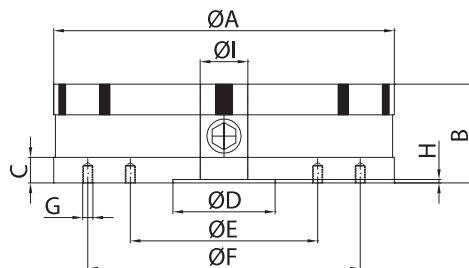
# Circular Permanent Magnetic Chuck type ERCA2

Grinding Turning Hard turning

- Radial pole pitch with steel + epoxy resin
- AlNiCo magnets allow for applications at high temperatures
- Adjustable holding force for positioning of work pieces

Included with purchase:

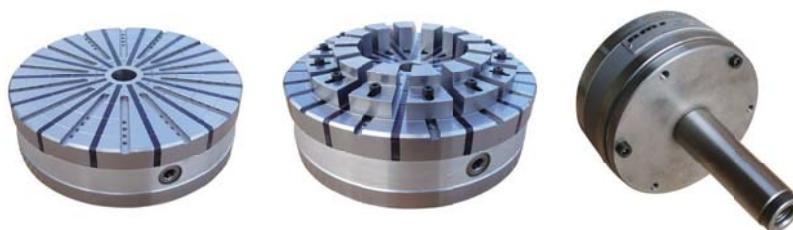
- 1 Actuating Key

Nominal force  
85 N/cm<sup>2</sup>Admissible wear  
of top plate  
5 mm

Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J: Nb of poles
11.01.150	6,5	150	54	17	50	80	120	M6	5	24	10
11.01.200	13,0	200	58	17	60	110	180	M6	5	30	14
11.01.250	20,0	250	58	17	80	140	220	M6	5	50	14
11.01.300	30,0	300	58	22	150	180	260	M8	6	58	18
11.01.350	49,0	350	70	22	170	220	300	M8	6	58	18
11.01.400	75,0	400	80	22	200	260	340	M8	8	58	18
11.01.500	119,0	500	80	22	200	350	450	M8	8	58	24
11.01.600	172,0	600	80	22	250	350	250	M8	8	90	30



High holding power / Recommended for hard turning



## OPTIONS

T-slots in each pole

Through hole in the middle

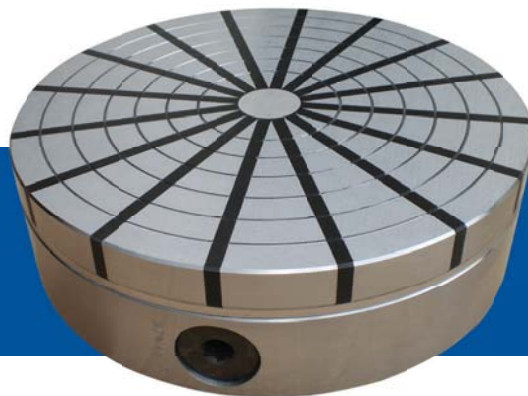
Raising pole shoes

Auxiliary top plate

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Circular Permanent Magnetic Chuck type ERCN



Grinding Turning Hard turning

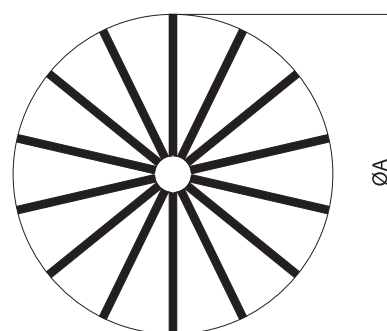
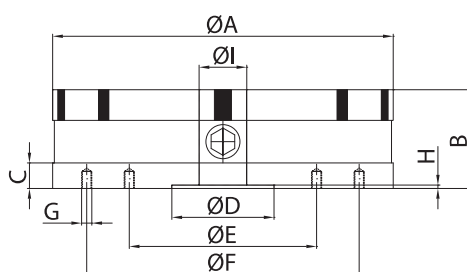
- Uniform and very powerful magnetic field
- Radial pole pitch with steel + epoxy resin
- With Neodymium-Magnets

Included with purchase:

- 1 Actuating Key

Nominal force  
120 N/cm<sup>2</sup>

Admissible wear  
of top plate  
5 mm



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J: Nb of poles
11.01.130N	5	130	57	-	50H7	-	120	M6x12	5	15	10
11.01.150N	6.5	150	57	-	50H7	80	120	M6x12	5	15	10
11.01.200N	13	200	57	-	60H7	110	180	M6x12	5	20	12
11.01.250N	25	250	70	-	80H7	140	220	M6x12	5	30	16
11.01.300N	37	300	73	-	150H7	180	260	M8x16	6	38	16
11.01.350N	49	350	73	-	170H7	220	300	M8x16	6	40	20
11.01.400N	68	400	75	-	200H7	260	340	M8x16	8	40	20



High holding power / Heavy duty construction / Waterproof construction / Recommended for hard turning



## OPTIONS

T-slots in each pole

Through hole in the middle

Raising pole shoes

Auxiliary top plate

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Circular Permanent Magnetic Chuck type FM

Grinding Turning

- Uniform and powerful magnetic field, ideal for turning and grinding
- Parallel pole pitch
- Adjustable holding force
- For parts 4mm thick and up

Included with purchase:

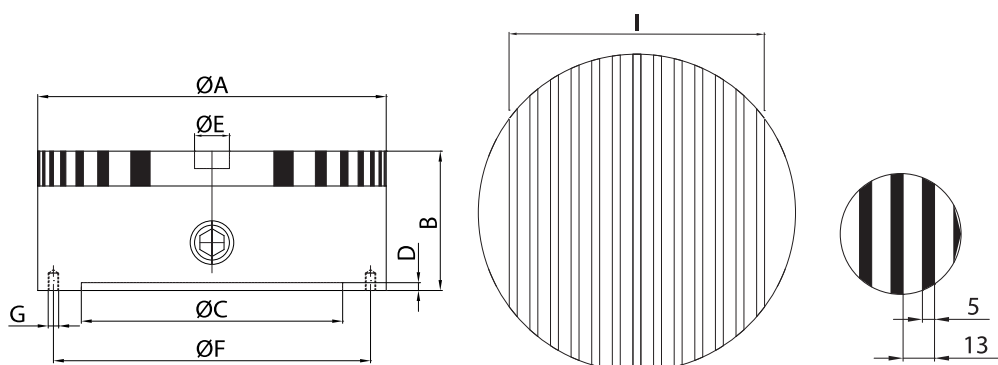
- 1 Actuating Key

Pole pitch  
13 mm,  
5 mm of brass,  
8 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
8-10 mm



Reference	Weight in Kg	A	B	C	D	E	F	G	H: Nb of keys	I
11.03.200	13,0	200	75	150	4.5	20x15	182	4xM8	1	-
11.03.250	20,0	250	80	200	4.5	20x15	232	4xM8	1	188
11.03.300	29,0	300	85	250	4.5	20x15	285	(4x)M8	1	227
11.03.350	40,0	350	85	300	4.5	20x15	334	4xM8	1	278
11.03.400	59,0	400	100	300	5	20x15	350	6xM10	1	-
11.03.450	70,0	450	100	350	5	20x15	400	6xM10	2	-
11.03.500	90,0	500	100	400	5	20x15	450	6xM10	2	-



Twin magnetic system / Silver brazed top plate



## OPTIONS

Auxiliary top plate for  
centering

Machining possible at  
the rear of the chuck

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



# Circular Permanent Magnetic Chuck type FFM

Grinding EDM

- Twin magnetic system with NEODYMIUM (rare earth) magnets
- Parallel pole pitch (Steel + Brass)
- Concentric rings for easy centering of work pieces

Included with purchase:

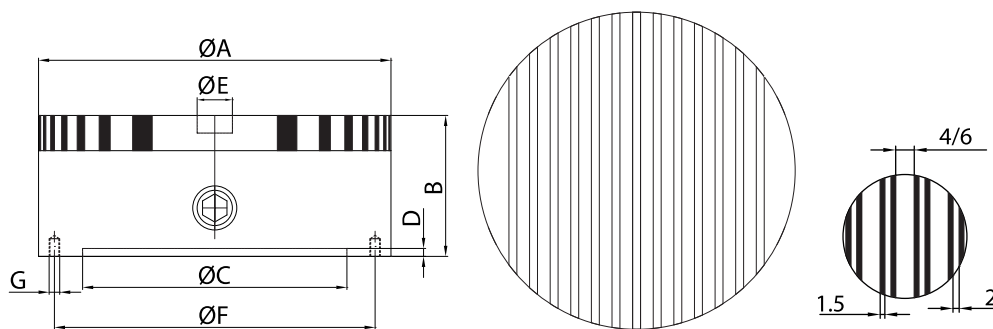
- 1 Actuating Key

Pole pitch 11 mm,  
3 mm of brass,  
8 mm of steel

Nominal force  
70 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
10 mm



Reference	Weight in Kg	A	B	C	D	E	F	G	H
11.04.100	3	100	62	70H7	2,5	-	91	3xM5	4/1,5 + 2/1,5
11.04.130	5	130	62	90H7	2,5	-	120	4xM6	4/1,5 + 2/1,5
11.04.160	8	160	75	125H7	3	-	142	4xM8	6/1,5 + 2/1,5



Heavy duty construction / Waterproof construction / Force: 70 N/mm<sup>2</sup>

## OPTIONS

Auxiliary top plate

Machinings possible at  
the rear of the chuck

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Circular Permanent Magnetic Chuck type MPF2

Grinding EDM Metrology Laser welding

- Circular magnetic chuck with NEODYMIUM magnets
- Low magnetic field
- Fine pole pitch
- Suitable for precision machinings and thin work pieces

Included with purchase:

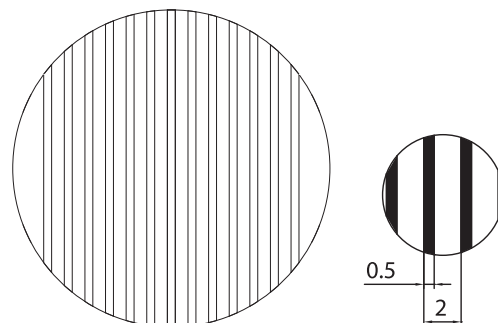
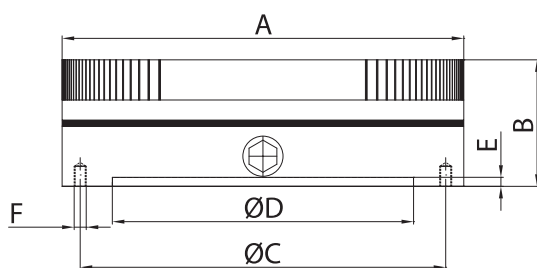
- 1 Actuating Key

Pole pitch 2 mm,  
0.5 mm of brass,  
1.5 mm of steel

Nominal force  
95 N/cm<sup>2</sup>

Admissible wear  
of top plate  
5 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F
11.05.100	3,1	100	52	85	60	4	4xM6
11.05.130	4,7	130	52	115	90	4	4xM8
11.05.150	6,7	150	52	132	110	4	4xM8
11.05.200	11,6	200	52	180	160	4	4xM8
11.05.250	17,8	250	52	225	200	4	4xM10
11.05.300	29,0	300	52	280	230	4	4xM10



Heavy duty construction / Waterproof construction / Low magnetic field

## OPTIONS

Machining possible at  
the rear of the chuck

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Circular Permanent Magnetic Chuck type MPR

Grinding EDM Metrology Turning

- Magnetic system with high holding force
- For allied steel and hardened steel work pieces
- Adjustable holding force

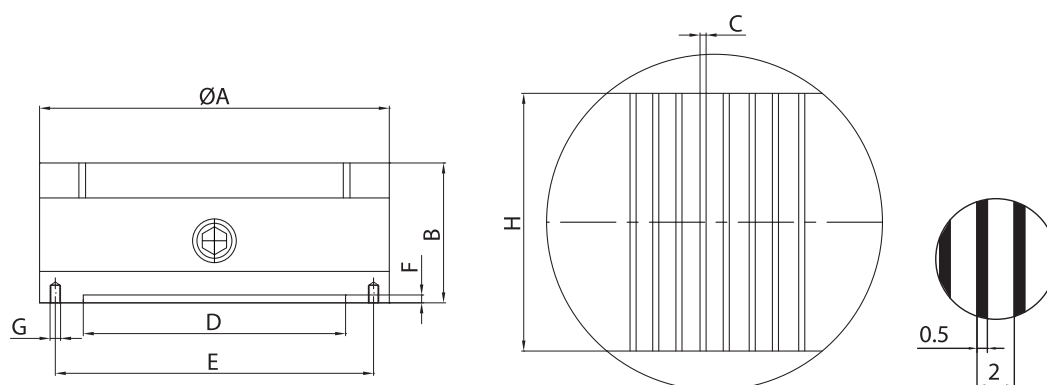
Included with purchase:

- 1 Actuating Key



Parallel pole pitch  
11,2 mm  
(1,6/2+1,6/6 mm)

Nominal force  
180 N/cm<sup>2</sup>



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I
11.07.130R	6,5	130	75	11.2 (1.6+2+1.6+6)	100	112	4	4xM6	78	10
11.07.160R	9,8	160	75	11.2 (1.6+2+1.6+6)	125	140	4	4xM8	100	10
11.07.200R	15,0	200	75	11.2 (1.6+2+1.6+6)	160	180	4	4xM8	128	10



High holding power / Force: 180 N/cm<sup>2</sup> / Recommended for hard turning

## OPTIONS

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



# Magnetic Block with 4 active faces type BAP4

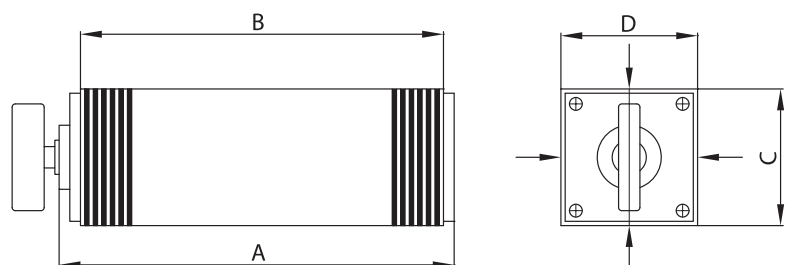
Grinding EDM Metrology

- 4 active faces
- With ON/OFF mechanism
- For small and thin work pieces from 0.5 mm thick

Pole pitch 4 mm,  
2 mm of brass,  
2 mm of steel

Admissible wear  
of top plate  
2 mm

Magnetic field  
height  
2 mm



Reference	Weight in Kg	A	B	C	D	E
13.11.175	3,2	175	115	64	64	80 N/cm <sup>2</sup>
13.11.195	3,8	195	135	64	64	80 N/cm <sup>2</sup>
13.11.175CP	3,2	175	115	64	64	50 N/cm <sup>2</sup>
13.11.195CP	3,8	195	135	64	64	50 N/cm <sup>2</sup>

165CP + 195CP = Consist of non-rusting, high-alloyed steel poles



Heavy duty construction / Waterproof construction / Low magnetic field

OPTIONS

Sine table execution

Stainless steel execution



# Magnetic Block with 3 active faces type BAP3

Grinding EDM Metrology

- 3 active faces
- With ON/OFF mechanism
- For small and thin work pieces

Included with purchase:

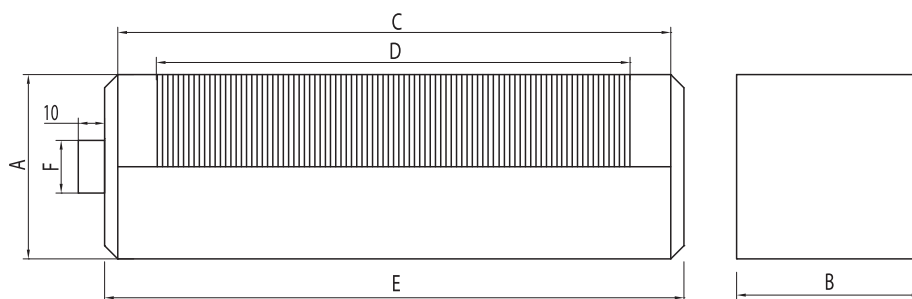
- 1 Actuating Key

Pole pitch 2 mm,  
1 mm of brass,  
1 mm of steel

Nominal force  
150 N/cm<sup>2</sup>

Admissible wear  
of top plate  
3 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F	G
13.14.200	7,5	70	70	200	160	225	35	15



Heavy duty construction / Waterproof construction / Low magnetic field

## PERMANENT MAGNETIC BLOCKS

REF 13.22.75N

# Circular Magnetic Block type AP75

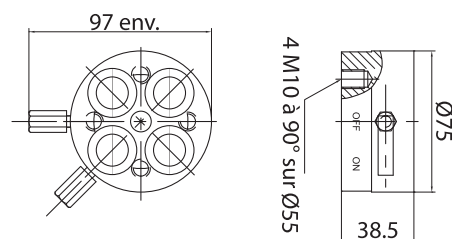
Grinding EDM Metrology Laser welding Positioning

- Versatile range of application
- Actuating mechanism
- Removable actuating key



Max.  
temperature of use  
80 °C

Force by pole  
100 daN



Reference	Weight in Kg	A	B	C	D	E	F
13.22.75N	1,4	75	40	97	12	4xM8 90°	27,5



High holding power / Heavy duty construction

## PERMANENT MAGNETIC BLOCKS

REF 13.23

# Magnetic Block without actuating mechanism type BM3

Grinding EDM

- 2 or 3 active faces
- Without actuating mechanism
- Available in Samarium, see "S" reference number, holding force of 180 N/cm<sup>2</sup>

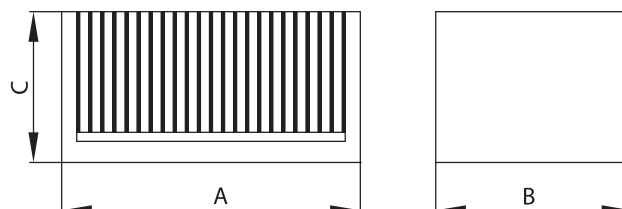


Pole pitch  
Standard  
4 mm

Pole pitch  
for 13.23.4  
1,3 mm

Admissible wear  
of top plate  
5 mm

Parallelism  
0.05 mm



Reference	Weight in Kg	A	B	C	D: Nb workholding faces	E
13.23.1	3,2	100	100	50	1-100x100 + 2-100x50	80 daN
13.23.1S	3,2	100	100	50	1-100x100 + 2-100x50	180 daN
13.23.2	1,6	100	50	50	2-100x50 + 1-100x50	80 daN
13.23.2S	1,6	100	50	50	2-100x50 + 1-100x50	180 daN
13.23.3	0,4	100	25	25	2-100x25	80 daN
13.23.3S	0,4	100	25	25	2-100x25	180 daN
13.23.4	0,4	100	25	25	2-100x25	80 daN



Heavy duty construction / Waterproof construction



# ELECTRO-PERMANENT MAGNETIC CHUCKS FOR GRINDING

## EPT / EPTZ / POWERFINE

Electro-Permanent magnetic chuck for clamping of medium thick to thick elements.

Work piece type	Minimum thickness 8 mm
Pole pitch	14 + 8 mm
Construction	Steel+resin or steel+brass
Surface wear	5 mm
Accessories	End stops in both directions
Options	Through-going holes, air-blow system

## EPICA

Universal Electro-Permanent magnetic chuck for clamping of standard work piece.

Work piece type	Minimum thickness 6 mm
Pole pitch	13 mm / 18 mm / 25 mm
Construction	Steel and brass, with top plate
Surface wear	6 mm
Accessories	End stops in both directions

## EPEFINE<sup>2</sup>

Universal Electro-Permanent magnetic chuck with extra thin pole pitch, can be used for EDM applications. Ideal for clamping of very thin elements.

Work piece type	Minimum thickness 2 mm
Pole pitch	4 mm + 1 mm
Construction	Steel and brass, with top plate
Surface wear	6 mm
Accessories	End stops in both directions
Options	Through-going holes

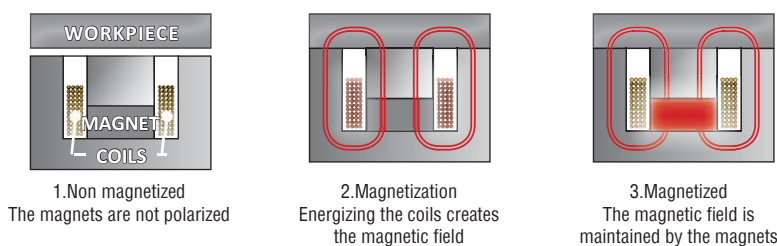
## ELECTRO-PERMANENT MAGNETIC CHUCKS

BRAILLON MAGNETICS, inventor of Electro-Permanent technology, provides a range of powerful, reliable and waterproof Electro-Permanent magnetic chucks for all surface grinding applications.

The Electro-Permanent technology consists of- changing the magnetic state of the chuck by means of short electric pulses. Once the pulses completed the magnetic chuck keeps its new state, magnetized or demagnetized, even in case of power supply failure.

The advantages of Electro-Permanent technology are unquestionable:

- SAFETY: The holding force is maintained even in case of power supply failure.
- PRECISION: Without heating, the magnetic chuck keeps its geometry.
- ECOLOGICAL: No continuous energy consumption.



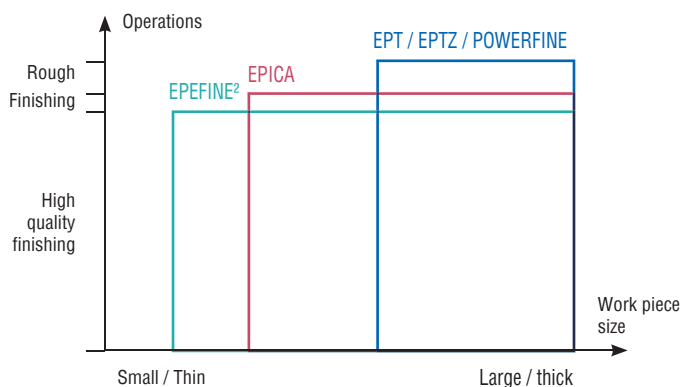
## FULL DEMAGNETIZATION

All BRAILLON MAGNETICS Electro-Permanent chucks integrate the full demagnetization concept. During demagnetization cycle, the Alnico magnets are completely demagnetized due to a series of decreasing electric impluses according to the know how of BRAILLON MAGNETICS.

The full demagnetization permits to reach the lowest possible residual magnetism level in the work piece, including the work pieces made of high-alloy steel.

## APPLICATIONS

The choice of magnetic chuck is determined by the size of the work piece as well as the type of grinding to be realized.





# Electromagnetic Chuck type EMU

Grinding EDM Metrology

- Multicoil electromagnetic system
- Parallel small pole pitch throughout the whole width of the chuck
- Uniform and strong magnetic field over the whole surface
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.T.BUET.400 and 50.10.T10

Pole pitch 5 mm,  
1 mm of brass,  
4 mm of steel

Nominal force  
120 N/cm<sup>2</sup>

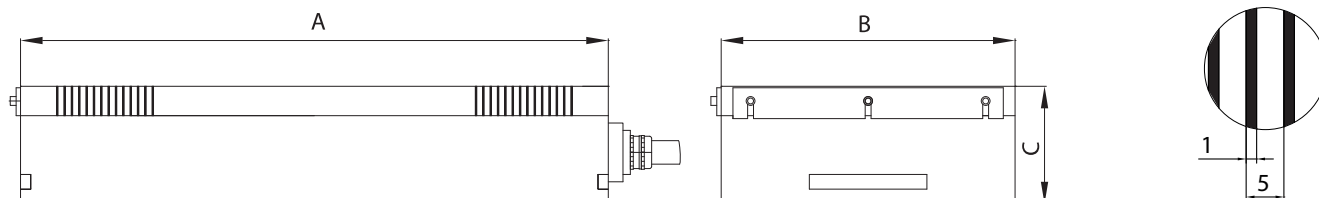
Admissible wear  
of top plate  
8 mm

Voltage  
110 VDC

Magnetic field  
height  
5 mm

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps



Reference	Weight in Kg	A	B	C	D: Power
10.24.300150	25,0	300	150	80	42
10.24.450150	35,0	450	150	80	59
10.24.500200	60,0	500	200	80	83
10.24.600200	75,0	600	200	80	89
10.24.600250	97,0	600	250	80	109
10.24.700250	120,0	700	250	80	116
10.24.1000250	165,0	1000	250	80	175
10.24.500300	84,0	500	300	80	110
10.24.600300	115,0	600	300	80	128
10.24.700300	147,0	700	300	80	147
10.24.900300	160,0	900	300	80	185
10.24.1000300	170,0	1000	300	80	209
10.24.1200300	202,0	1200	300	80	240
10.24.1500300	252,0	1500	300	80	315
10.24.600400	134,0	600	400	80	166
10.24.800400	180,0	800	400	80	210
10.24.1000400	225,0	1000	400	80	255
10.24.1200400	270,0	1200	400	80	330
10.24.800500	225,0	800	500	80	255
10.24.1000500	280,0	1000	500	80	350
10.24.1500500	420,0	1500	500	80	460



Heavy duty construction / Waterproof construction / Low magnetic field

OPTIONS

Other sizes on request

Electro-permanent  
execution

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

Compressed air holes

# Electromagnetic Chuck type BJP

## Grinding

- Multicoil electromagnetic system
- Uniform and strong magnetic field over the whole surface
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.T.BUET.400 and 50.10.T10

### Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

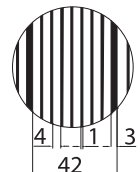
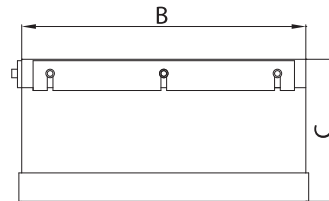
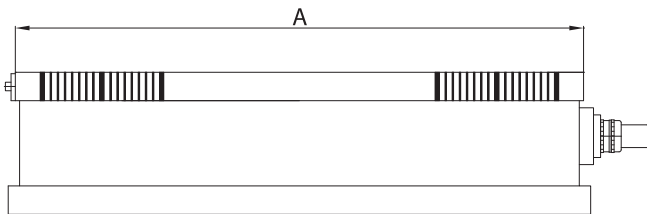
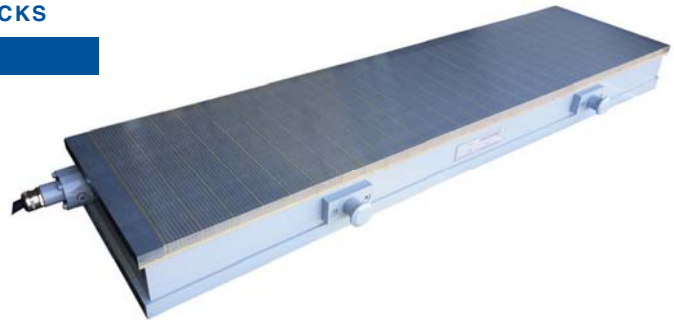
Pole pitch 5 mm,  
1 mm of brass,  
4 mm of steel

Nominal force  
125 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
110 VDC

Magnetic field  
height  
8 mm



Reference	Weight in Kg	A	B	C	D: Power
10.21.350150	25,0	350	150	80	75w
10.21.400200	35,0	400	200	98	115w
10.21.450200	58,0	450	200	98	125w
10.21.500250	80,0	500	250	98	156w
10.21.600200	80,0	600	200	98	160w
10.21.600250	96,0	600	250	98	187w
10.21.600300	115,0	600	300	98	220w
10.21.600350	134,0	600	350	98	242w
10.21.600400	153,0	600	400	98	270w
10.21.650220	91,0	650	220	98	183w
10.21.800150	85,0	800	150	100	198w
10.21.800250	130,0	800	250	100	244w
10.21.800300	157,0	800	300	100	280w
10.21.800350	183,0	800	350	100	324w
10.21.800400	209,0	800	400	100	363w
10.21.900150	92,0	900	150	100	206w
10.21.900300	176,0	900	300	100	312w
10.21.1000150	101,0	1000	150	100	215w
10.21.1000300	201,0	1000	300	100	347w
10.21.1000400	296,0	1000	400	100	444w



High holding power / Twin magnetic system / Heavy duty construction / Waterproof construction

Other sizes on request

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

Compressed air holes

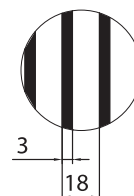
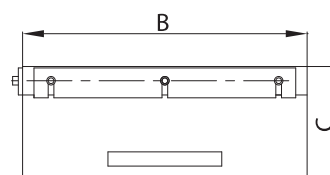
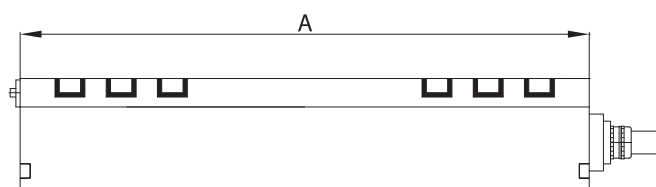
# Electromagnetic Chuck type ICA

Grinding EDM Machining

- Electromagnetic system
- Parallel transversal pole pitch throughout the whole width of the chuck
- Uniform and strong magnetic field
- Extremely stable construction
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.T.BUET.400 and 50.10.T10

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

Pole pitch  
13/18/25 mmNominal force  
120 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmVoltage  
110 VDCMagnetic field  
height  
5/8/10 mm

Reference	Weight in Kg	A	B	C	D: Power
10.22.300150	25,0	300	150	77	65
10.22.450150	30,0	450	150	77	73
10.22.400200	40,0	400	200	77	105
10.22.500200	50,0	500	200	77	125
10.22.600200	66,0	600	200	77	143
10.22.600250	75,0	600	250	77	170
10.22.800250	100,0	800	250	77	220
10.22.1000250	165,0	1000	250	77	285
10.22.500300	75,0	500	300	77	175
10.22.600300	90,0	600	300	77	195
10.22.700300	110,0	700	300	77	225
10.22.900300	176,0	900	300	77	300
10.22.1000300	190,0	1000	300	77	320
10.22.1200300	270,0	1200	300	77	445
10.22.1500300	311,0	1500	300	77	495
10.22.600400	120,0	600	400	80	243
10.22.800400	165,0	800	400	80	320
10.22.1000400	215,0	1000	400	80	395
10.22.1200400	255,0	1200	400	80	465
10.22.800500	195,0	800	500	90	386
10.22.1000500	270,0	1000	500	90	490
10.22.1500500	450,0	1500	500	90	705



Heavy duty construction / Waterproof construction

OPTIONS

Other sizes on request

Electro-permanent  
executionThrough holes to fix the  
chuck on the machine  
tableCable connection on  
the long side

Compressed air holes

# Electro-permanent Magnetic Chuck type EPEFINE2

Grinding EDM

- Multicoil electro-permanent system
- Parallel small pole pitch throughout the whole width of the chuck
- Uniform and strong magnetic field over the whole surface
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.01.BUR.230 / 50.01.BUR.400 and 50.10.T10

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

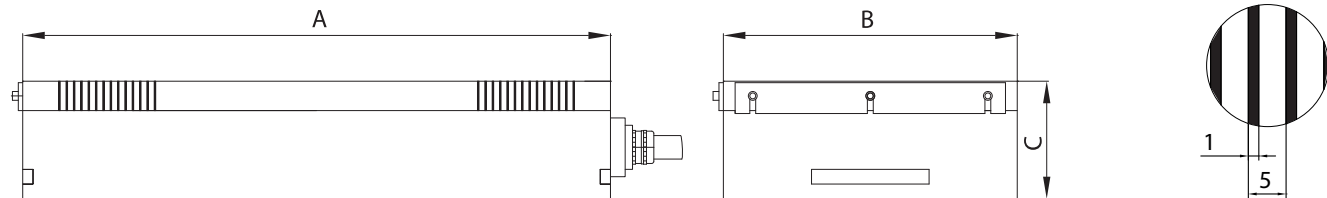
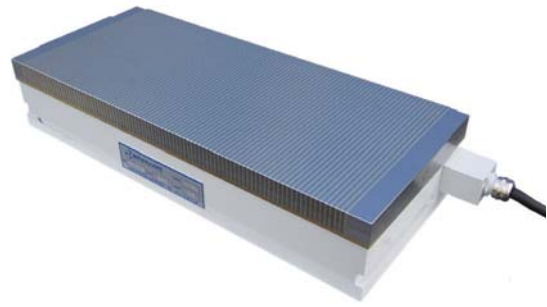
Pole pitch 5 mm,  
1 mm of brass,  
4 mm of steel

Nominal force  
110 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC

Magnetic field  
height  
5 mm



Reference	Weight in Kg	A	B	C	D: Power
10.25.5.300150	25,0	300	150	68	30A
10.25.5.450150	35,0	450	150	68	30A
10.25.5.500200	60,0	500	200	68	30A
10.25.5.600200	75,0	600	200	68	30A
10.25.5.600250	97,0	600	250	68	30A
10.25.5.700250	120,0	700	250	68	30A
10.25.5.1000250	165,0	1000	250	89	30A
10.25.5.500300	84,0	500	300	68	30A
10.25.5.600300	115,0	600	300	68	30A
10.25.5.700300	147,0	700	300	68	30A
10.25.5.900300	160,0	900	300	68	30A
10.25.5.1000300	170,0	1000	300	89	30A
10.25.5.1200300	202,0	1200	300	89	30A
10.25.5.1500300	252,0	1500	300	89	30A
10.25.5.600400	134,0	600	400	68	30A
10.25.5.800400	180,0	800	400	68	30A
10.25.5.1000400	225,0	1000	400	89	30A
10.25.5.1200400	270,0	1200	400	89	30A
10.25.5.800500	225,0	800	500	68	30A
10.25.5.1000500	250,0	1000	500	89	30A

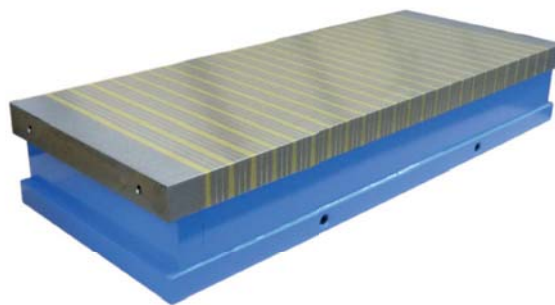


Waterproof construction / Low magnetic field

Other sizes on request

Electromagnetic  
executionThrough holes to fix the  
chuck on the machine  
tableCable connection on  
the long side

Compressed air holes



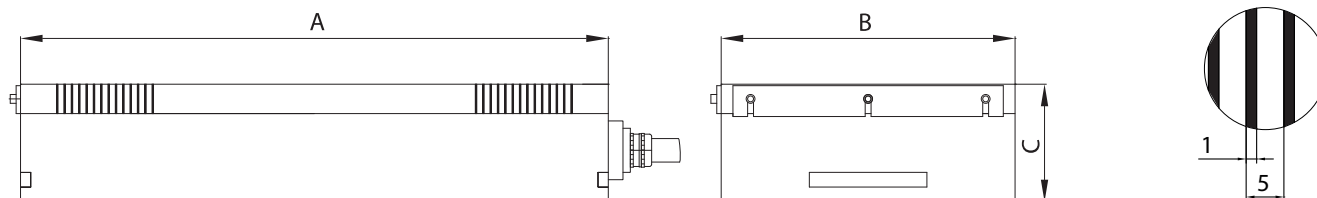
# Electro-Permanent Magnetic Chuck type BLU

Grinding EDM

- Uniform magnetic field
- Parallel pole pitch throughout the whole width of the chuck
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.01.BUR and 50.10.T10

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen)
- Long and short side end stops
- Clamps

Pole pitch  
19 mmNominal force  
115 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmVoltage  
340 VDCMagnetic field  
height  
5 mm

Reference	Weight in Kg	A	B	C
10.20.450150	35	450	150	80
10.20.500200	60	500	200	80
10.20.600200	75	600	200	80
10.20.600400	120	600	400	80
10.20.800400	180	800	400	80
10.20.1000400	200	1000	400	80
10.20.300150	25	350	150	80



Heavy duty &amp; compact construction / Attractive prices !

## OPTIONS

Other sizes on request

Through holes to fix the  
chuck on the machine  
tableCable connection on  
the long side

Compressed air holes





# Electro-Permanent Magnetic chuck type EPICA

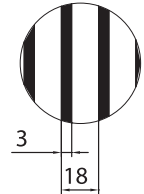
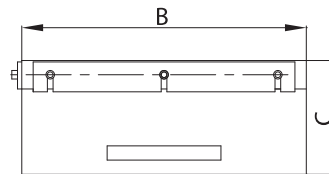
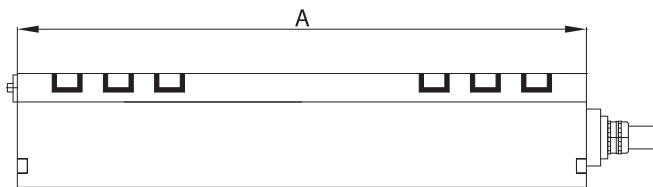
Grinding EDM Machining

- Electro-permanent system
- Parallel transversal pole pitch throughout the whole width of the chuck
- Uniform and strong magnetic field
- Extremely stable construction
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.T.BUET.400 and 50.10.T10

Pole pitch  
13/18/25 mmNominal force  
110 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmVoltage  
340 VDCMagnetic field  
height  
5/8/10 mm

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps



Reference	Weight in Kg	A	B	C	D: Power / Ampere
10.23.300150	25,0	300	150	77	30A
10.23.450150	30,0	450	150	77	30A
10.23.400200	40,0	400	200	77	30A
10.23.500200	50,0	500	200	77	30A
10.23.600200	66,0	600	200	77	30A
10.23.600250	75,0	600	250	77	30A
10.23.800250	100,0	800	250	77	30A
10.23.1000250	165,0	1000	250	77	30A
10.23.500300	75,0	500	300	77	30A
10.23.600300	90,0	600	300	77	30A
10.23.700300	110,0	700	300	77	30A
10.23.900300	176,0	900	300	77	30A
10.23.1000300	190,0	1000	300	77	30A
10.23.1200300	270,0	1200	300	77	30A
10.23.1500300	311,0	1500	300	77	30A
10.23.600400	120,0	600	400	80	30A
10.23.800400	80,0	800	400	80	30A
10.23.1000400	215,0	1000	400	80	30A
10.23.1200400	255,0	1200	400	80	30A
10.23.800500	195,0	800	500	90	30A
10.23.1000500	270,0	1000	500	90	30A
10.23.1500500	450,0	1500	500	90	30A



Heavy duty construction / Waterproof construction

Other sizes on request

Electromagnetic  
executionThrough holes to fix the  
chuck on the machine  
tableCable connection on  
the long side

Compressed air holes



# Electro-permanent Magnetic Chuck type POWERFINE

## Grinding

- Uniform and strong magnetic field
- Pole pitch with Steel+Epoxy resin (EPTZ)
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.01.BUR.230 / 50.01.BUR.400 and 50.10.T10

### Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

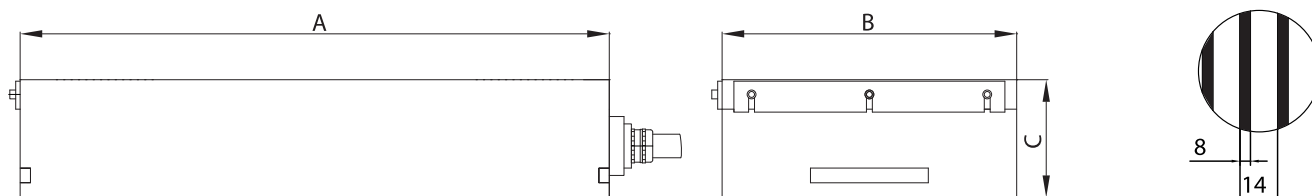
Pole pitch  
5 / 4 / 5 / 7

Nominal force  
110 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC

Magnetic field  
height  
5 mm



Reference	Weight in Kg	A	B	C
10.26.11.700300.340	101	700	300	80
10.26.11.700400.340	135	700	400	80
10.26.11.700500.340	170	700	500	80
10.26.11.800300.340	115	800	300	80
10.26.11.800400.340	155	800	400	80
10.26.11.800500.340	190	800	500	80
10.26.11.900300.340	130	900	300	80
10.26.11.900400.340	175	900	400	80
10.26.11.900450.340	195	900	450	80
10.26.11.900500.340	215	900	500	80
10.26.11.1000300.340	150	1000	300	82
10.26.11.1000350.340	175	1000	350	82
10.26.11.1000400.340	200	1000	400	82
10.26.11.1000500.340	250	1000	500	82
10.26.11.1200300.340	180	1200	300	80
10.26.11.1200400.340	240	1200	400	82
10.26.11.1200500.340	300	1200	500	82
10.26.11.1500500.340	405	1500	500	87
10.26.11.2000600.340	650	2000	600	90



High holding power / Waterproof construction

## OPTIONS

Other sizes on request

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

Compressed air holes



# Electro-Permanent Magnetic Chuck type EPT & EPTZ

## Grinding

- Uniform and strong magnetic field
- Pole pitch with Steel+Brass (EPT) or Steel+Epoxy resin (EPTZ)
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.01.BUR.230 / 50.01.BUR.400 and 50.10.T10

### Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

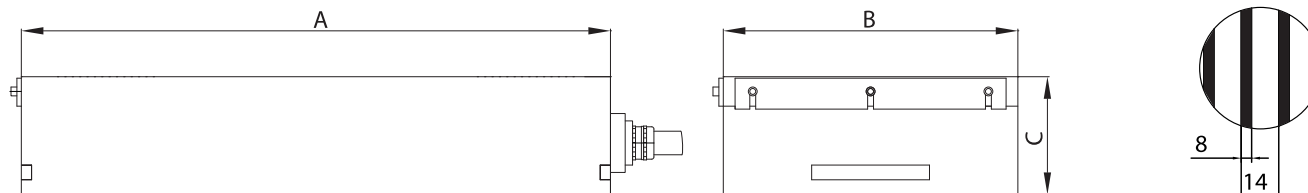
Pole pitch  
22 mm

Nominal force  
120 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC

Magnetic field  
height  
8 mm



Reference	Weight in Kg	A	B	C
10.26.22.700300.340	101	700	300	80
10.26.22.700400.340	135	700	400	80
10.26.22.700500.340	170	700	500	80
10.26.22.800300.340	115	800	300	80
10.26.22.800400.340	155	800	400	80
10.26.22.800500.340	190	800	500	80
10.26.22.900300.340	130	900	300	80
10.26.22.900400.340	175	900	400	80
10.26.22.900450.340	195	900	450	80
10.26.22.900500.340	215	900	500	80
10.26.22.1000300.340	150	1000	300	82
10.26.22.1000350.340	175	1000	350	82
10.26.22.1000400.340	200	1000	400	82
10.26.22.1000500.340	250	1000	500	82
10.26.22.1200300.340	180	1200	300	80
10.26.22.1200400.340	240	1200	400	82
10.26.22.1200500.340	300	1200	500	82
10.26.22.1500500.340	405	1500	500	87
10.26.22.2000600.340	650	2000	600	90



High holding power / Waterproof construction

## OPTIONS

Other sizes on request

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

Compressed air holes



# ELECTRO-PERMANENT MAGNETIC CHUCKS FOR MILLING



**TURBOMILL 18**

BRAILLON MAGNETICS invented and built the first Electro-Permanent magnetic chuck in 1963. Since then the E-P technology has evolved constantly, resulting in a range of very powerful, reliable and sturdy magnetic chucks for chip removal operations. Today, the most common E-P technologies are:

## Full demag system

Energizing by a single current impulse; de-energizing by alternating current impulses resulting in a complete demagnetisation of both chuck and components.



**TURBOMILL 25**

## Compensated system

Energizing and de-energizing are both accomplished by a single current impulse. Chuck is fully off, components of tool steel may have some residual magnetism.

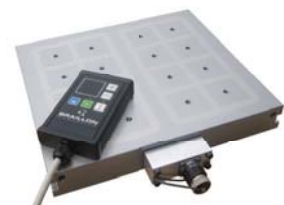


**TURBOMILL 40**

All BRAILLON MAGNETICS TURBOMILL chucks are machined from a solid block of steel, resulting in the highest rigidity and magnetic efficiency. The benefits being a higher accuracy and a much longer chuck life. Naturally, all Turbomill chucks are 100% watertight. Following tables stipulate: available standard sizes, required control unit and number of optional fixed and sliding poles.



**TURBOMILL 50SQ1**



**TURBOMILL 50SQ3**



# Electro-Permanent Magnetic Chuck type TURBOMILL18

Milling Drilling Contouring Machining

- Top plate made of Steel+Epoxy resin
- Magnetic system with extremely high holding power
- Sturdy construction suitable for heavy machinings
- Ideal for medium size and thin work pieces
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.01.BUR.230 / 50.01.BUR.400 and 50.10.T10

Pole pitch  
28 mm  
18 mm of steel  
10 mm Epoxyt

Nominal force  
135 N/cm<sup>2</sup>

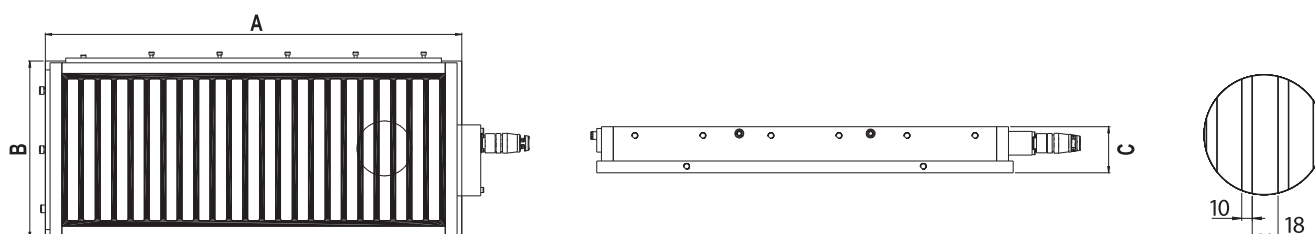
Admissible wear  
of top plate  
5 mm

Voltage  
340 VDC

Magnetic field  
height  
10 mm

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps



Reference	Weight in Kg	A	B	C	D: Nb poles
.400300.340	72,0	400	300	85	22
10.31.18.500300.340	91,0	500	300	85	27
10.31.18.600300.340	110,0	600	300	85	33
10.31.18.700300.340	56,0	765	300	85	39
10.31.18.600400.340	125,0	617	400	85	33
10.31.18.700400.340	160,0	765	400	85	39
10.31.18.1000400.340	195,0	1000	400	85	55
10.31.18.1200400.340	235,0	1200	400	85	66
10.31.18.700500.340	185,0	700	500	85	39
10.31.18.1000500.340	255,0	1000	500	85	55
10.31.18.1200500.340	285,0	1200	500	85	66
10.31.18.1500500.340	360,0	1500	500	85	84



High holding power / Heavy duty construction / Waterproof construction

## OPTIONS

Other sizes on request

Pole extensions to raise  
the work pieces

Metal armoured  
cable with watertight  
connector

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

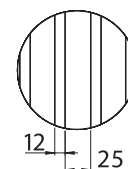
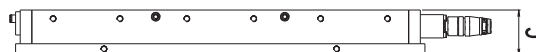
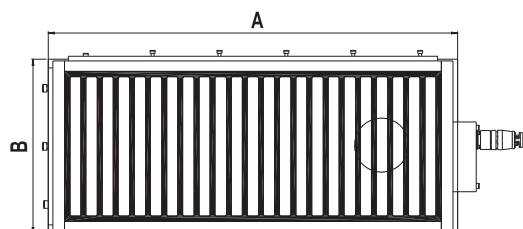
# Electro-Permanent Magnetic Chuck type TURBOMILL 25B

Milling Drilling Contouring

- Double magnet system with extremely high holding force
- Top plate made of Steel+Epoxy resin
- Sturdy construction suitable for heavy machinings
- Ideal for milling of large work pieces and slabs
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.03.BFR.400 and 50.10.T10

Included with purchase:

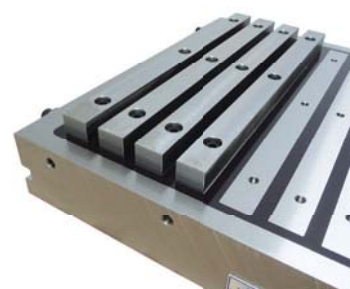
- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

Pole pitch  
37 mmNominal force  
165 N/cm<sup>2</sup>Admissible wear  
of top plate  
5 mmVoltage  
340 VDCMagnetic field  
height  
12 mm

Reference	Weight in Kg	A	B	C	D: Nb poles
10.32.25.765300	56	765	300	70	19
10.32.25.617400	125	617	400	70	15
10.32.25.765400	160	765	400	70	19
10.32.25.1061400	195	1061	400	70	27
10.32.25.1209400	235	1209	400	70	31
10.32.25.765500	185	765	500	70	19
10.32.25.1061500	255	1061	500	70	27
10.32.25.1209500	285	1209	500	70	31
10.32.25.1505500	360	1505	500	70	39



High holding power / Heavy duty construction



## OPTIONS

Other sizes on request

Pole extensions to raise  
the work piecesMetal armoured  
cable with watertight  
connectorThrough holes to fix the  
chuck on the machine  
tableCable connection on  
the long side



# Electro-Permanent Magnetic Chuck type TURBOMILL40B

Milling Drilling Contouring

- Double magnet system with extremely high holding force
- Top plate made of Steel+Epoxy resin
- Sturdy construction suitable for heavy machinings
- Ideal for milling of large work pieces and slabs
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.03.BFR.400 and 50.10.T10

Pole pitch  
56 mm

Nominal force  
170 N/cm<sup>2</sup>

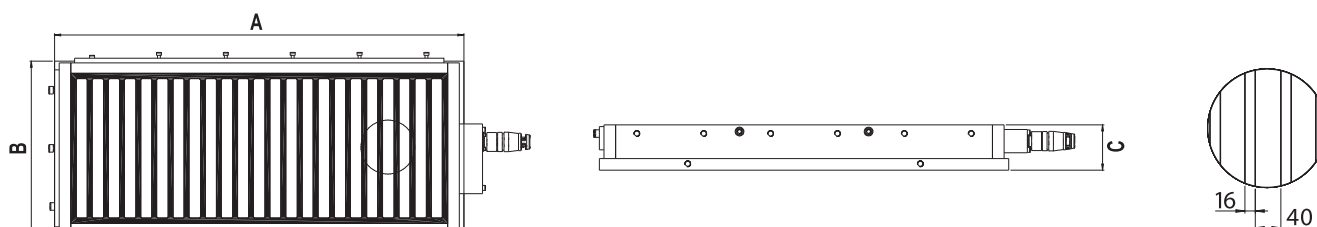
Admissible wear  
of top plate  
5 mm

Voltage  
340 VDC

Magnetic field  
height  
15 mm

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps



Reference	Weight in Kg	A	B	C	D: Nb poles
10.32.346300	70,0	346	300	80	7
10.32.570300	130,0	570	300	80	15
10.32.682400	175,0	682	400	80	17
10.32.794400	225,0	794	400	80	19
10.32.1018400	260,0	1018	400	80	23
10.32.1466400	305,0	1466	400	80	27
10.32.570500	280,0	570	500	80	19
10.32.794500	325,0	794	500	80	23
10.32.1018500	430,0	1018	500	80	31
10.32.1466500	490,0	1466	500	80	35
10.32.1018600	335,0	1018	600	80	19
10.32.1242600	390,0	1242	600	80	23
10.32.1466600	545,0	1466	600	80	31



High holding power / Heavy duty construction / Waterproof construction

## OPTIONS

Other sizes on request

Pole extensions to raise  
the work pieces

Metal armoured  
cable with watertight  
connector

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side



# Electro-Permanent Magnetic Chuck type TURBOMILL 50SQ1

Milling Drilling Contouring Planning

- Electro-permanent magnetic system with extremely sturdy monoblock construction
- Space between the poles filled with epoxy resin
- Ideal for milling of large work pieces and slabs
- All square poles equipped with M8 threaded holes
- Power connection through watertight quick connector
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.10.BUR.230/400 and 50.10.T10

#### Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

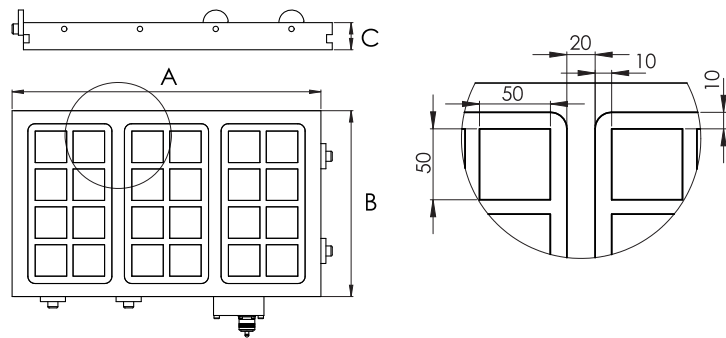
Force by pole  
400 daN

Pole pitch  
50x50 mm

Admissible wear  
of top plate  
4 mm

Voltage  
340 VDC

Magnetic field  
height  
10 mm



Reference	Weight in Kg	A	B	C	D: Nb poles
10.33.50.SQ1.320320	30,0	320	320	43	16
10.33.50.SQ1.490295	44,0	490	295	43	24
10.33.50.SQ1.490420	63,0	490	420	43	36
10.33.50.SQ1-490475	71,0	490	475	43	42
10.33.50.SQ1.490575	86,0	490	575	43	48
10.33.50.SQ1.640295	58,0	640	295	43	32
10.33.50.SQ1.640420	83,0	640	420	43	48
10.33.50.SQ1.640475	93,0	640	475	43	56
10.33.50.SQ1.640575	113,0	640	575	43	64
10.33.50.SQ1.795295	71,0	795	295	43	40
10.33.50.SQ1.795420	102,0	795	420	43	60
10.33.50.SQ1.795475	116,0	795	475	43	70
10.33.50.SQ1.795575	140,0	795	575	43	80
10.33.50.SQ1.950295	95,0	950	295	43	48
10.33.50.SQ1.950420	122,0	950	420	43	72
10.33.50.SQ1.950475	137,0	950	475	43	84
10.33.50.SQ1.950575	168,0	950	575	43	96



High holding power / Heavy duty construction / Waterproof construction

## OPTIONS

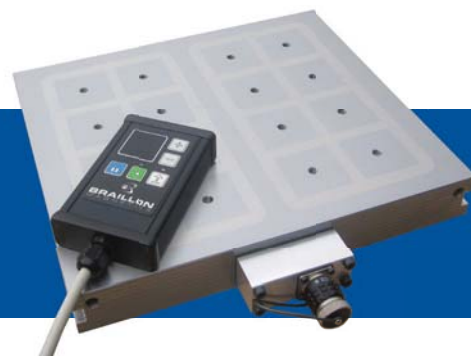
Other sizes on request

Pole extensions to raise  
the work pieces

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side

# Electro-Permanent Magnetic Chuck type TURBOMILL 50SQ3



## Milling Drilling Contouring Planning

- Electro-permanent magnetic system with extremely sturdy monoblock construction
- Space between the poles filled with stainless steel
- Ideal for milling of large work pieces and slabs
- All square poles equipped with M8 threaded holes
- Power connection through watertight quick connector
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.10.BUR.230/400 and 50.10.T10

### Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

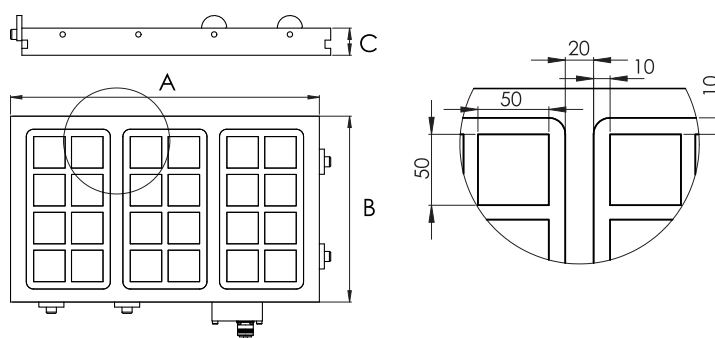
Force by pole  
400 daN

Pole pitch  
50x50 mm

Admissible wear  
of top plate  
4 mm

Voltage  
340 VDC

Magnetic field  
height  
10 mm



Reference	Weight in Kg	A	B	C	D: Nb poles
10.33.50.SQ3.320320	30,0	320	320	43	16
10.33.50.SQ3.490295	44,0	490	295	43	24
10.33.50.SQ3.490420	63,0	490	420	43	36
10.33.50.SQ3-490475	71,0	490	475	43	42
10.33.50.SQ3.490575	86,0	490	575	43	48
10.33.50.SQ3.640295	58,0	640	295	43	32
10.33.50.SQ3.640420	83,0	640	420	43	48
10.33.50.SQ3.640475	93,0	640	475	43	56
10.33.50.SQ3.640575	113,0	640	575	43	64
10.33.50.SQ3.795295	71,0	795	295	43	40
10.33.50.SQ3.795420	102,0	795	420	43	60
10.33.50.SQ3.795475	116,0	795	475	43	70
10.33.50.SQ3.795575	140,0	795	575	43	80
10.33.50.SQ3.950295	95,0	950	295	43	48
10.33.50.SQ3.950420	122,0	950	420	43	72
10.33.50.SQ3.950475	137,0	950	475	43	84
10.33.50.SQ3.950575	168,0	950	575	43	96



High holding power / Heavy duty construction / Waterproof construction

## OPTIONS

Other sizes on request

Pole extensions to raise  
the work pieces

Through holes to fix the  
chuck on the machine  
table

Cable connection on  
the long side



# Electro-Permanent Modular Magnetic Chuck for Welding

## Welding

- Double magnet system with extremely high holding force
- Powerful and uniform magnetic field
- Ideal for welding of steel sheets
- Power connection through watertight quick connector
- Corresponding Control Unit and the Remote Control to be ordered separately:  
See 50.10.BUR.230/400 and 50.10.T10

### Included with purchase:

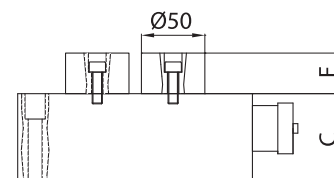
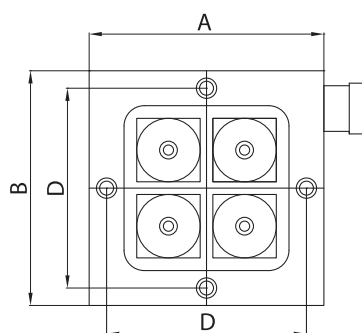
- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- End stops
- Clamps
- 4 fixed pole extensions, see 10.33.99.505032.F

Force by pole  
380 daN

Pole pitch  
50x50 mm

Voltage  
195 VDC

Magnetic field  
height  
10 mm



Reference	Weight in Kg	A	B	C	D	E	F
10.33B.185185.4	15,0	185	185	70	157,5	4xM10	32



High holding power / Waterproof construction / Heavy duty & compact construction

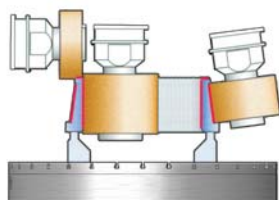


Other sizes on request

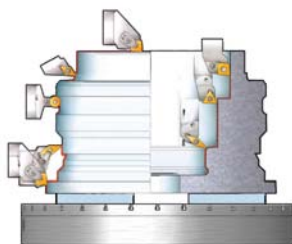
Through holes to fix the  
chuck on the machine  
table



# CIRCULAR MAGNETIC CHUCKS FOR TURNING AND GRINDING



Grinding of bearings



Turning operations

**BRAILLON MAGNETICS** invented and built the first Electro-Permanent magnetic chuck in 1963. Since then the E-P technology has evolved constantly, resulting in a range of very powerful, reliable and sturdy magnetic chucks for chip removal and cylindrical grinding operations.

## THE LARGEST TOOL CLEARANCE

Using raising pole shoes, BRAILLON MAGNETICS circular chucks allow a 3 side access to the work piece.

## HIGH RELIABILITY

Thanks to a static design without any movable components, BRAILLON MAGNETICS Circular Chucks are built to last.

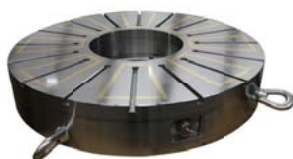
## HIGH ACCURACY

Electro-Permanent releases increase both accuracy and safety. Once magnetized, Circular EP Chucks do not need electrical power to maintain the magnetic force. This prevents any thermal expansions due to electrical heating and ensures safety against any voltage drop.

## HOMOGENEOUS CLAMPING

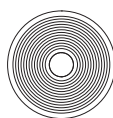
Magnetic force is spread all over the top plate. This prevent the work piece from distortions due to standard mechanical jaws.

## THREE DEDICATED DESIGNS



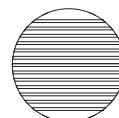
### RADIAL

This magnetic pole arrangement is laid out for ring shaped work pieces. It also allows to reach the maximal magnetic flux concentration. These chucks can be fitted with pole shoes in order to make tool clearance bigger.



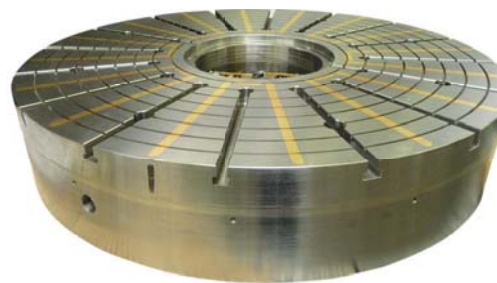
### CONCENTRIC

This design is suitable for multiple work piece arrangements, particularly efficient with thick and medium sized work piece.



### PARALLEL

It is the most efficient design to clamp thin and small sized work pieces. For extra-thin work pieces, a small pitch parallel top plate design is also available. Similar to concentric design, a multiple work piece arrangement is possible.



# Electromagnetic Circular Chuck type ERC

Grinding Turning

- Electromagnetic radial pole circular chuck with high holding force
- Space between the poles filled with epoxy resin or with brass (optional)
- For ring-shaped work pieces
- Corresponding Control Unit and the Remote Control to be ordered separately:  
See 50.04.BUE.230 / 50.05.BUET.400 and 50.10.T10

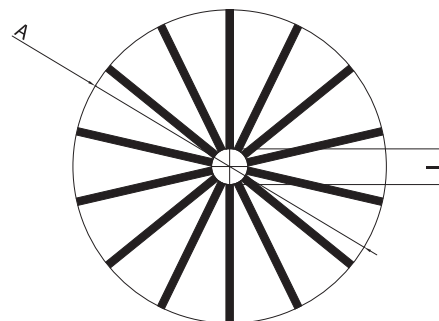
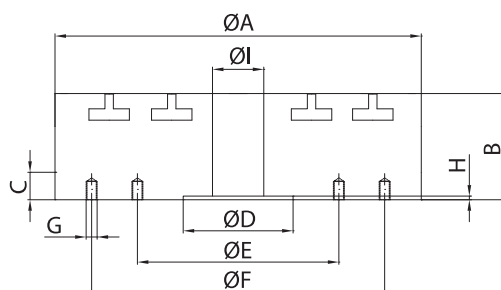
Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

Nominal force  
120 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
110 VDC



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J: Nb poles
11.10.100.XX.340	4,0	100	90	12	-	60	80	3xM8	3	35	6
11.10.150.XX.340	9,0	150	90	14	-	90	120	3xM10	4	35	6
11.10.200.XX.340	18,0	200	90	14	-	110	140	4xM10	3	45	8
11.10.250.XX.340	29,0	250	90	16	-	140	170	4xM12	4	65	8
11.10.300.XX.340	42,0	300	90	16	-	160	190	4xM12	4	85	12
11.10.400.XX.340	76,0	400	90	16	-	210	250	6xM12	5	100	12
11.10.500.XX.340	120,0	500	90	16	-	280	320	6xM12	5	150	16
11.10.600.XX.340	195,0	600	100	18	-	350	390	6xM16	5	180	16
11.10.700.XX.340	265,0	700	100	18	-	400	450	6xM16	5	200	16
11.10.800.XX.340	365,0	800	100	18	-	450	500	6xM16	5	200	24
11.10.1000.XX.340	550,0	1000	100	18	-	550	620	8xM16	5	250	24



High holding power / Heavy duty construction / Attractive prices !



OPTIONS

Other sizes and  
voltages by  
request

T-slots in each  
pole

Through hole in the  
middle

Customized  
raising pole  
shoes

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Electromagnetic Circular Chuck type BC

Grinding Turning

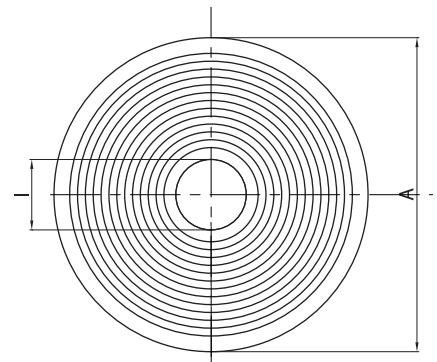
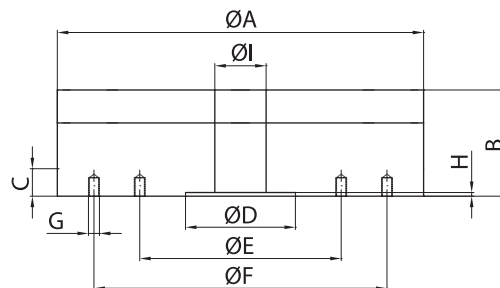
- Electromagnetic circular chuck with concentric poles
- Uniform, strong and low magnetic field
- Suitable for simultaneous machining of several work pieces
- The smallest work piece thickness: 4 mm
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.BUET.400 and 50.10.T10

Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

## Pole pitch

- a) 9 mm  
steel 5 mm  
brass 4 mm
- b) 16 mm  
steel 12 mm  
brass 4 mm

Nominal force  
110 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmVoltage  
110 VDCMagnetic field  
height  
4 mm

Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J: Pole pitch
11.11.9.200.110	15,0	200	105	14	100H7	-	140	4xM10	5	20	9
11.11.9.300.110	52,0	300	105	16	150H7	-	190	4xM12	5	20	9
11.11.9.400.110	89,0	300	105	16	200H7	-	250	6xM12	5	40	9
11.11.9.500.110	141,0	500	120	16	250H7	-	320	6xM12	5	60	9
11.11.9.600.110	204,0	600	120	18	350H7	-	390	6xM12	5	80	9
11.11.9.700.110	278,0	700	120	18	400H7	-	450	6xM12	5	80	9
11.11.9.800.110	383,0	800	120	18	450H7	-	500	6xM12	5	100	9
11.11.9.1000.110	578,0	1000	130	18	600H7	-	620	8xM16	5	150	9
11.11.16.200.110	15,0	200	105	14	100H7	-	140	4xM10	5	20	16
11.11.16.300.110	54,0	300	105	16	150H7	-	190	4xM12	5	20	16
11.11.16.400.110	89,0	400	105	16	200H7	-	250	6xM12	5	40	16
11.11.16.500.110	141,0	500	120	16	250H7	-	320	6xM12	5	60	16
11.11.16.600.110	204,0	600	120	18	350H7	-	390	6xM12	5	80	16
11.11.16.700.110	278,0	700	120	18	400H7	-	450	6xM12	5	80	16
11.11.16.800.110	383,0	800	120	18	450H7	-	500	6xM16	5	100	16
11.11.16.1000.110	620,0	1000	130	18	600H7	-	620	8xM16	5	150	16



High holding power / Heavy duty construction

## OPTIONS

Other sizes and  
voltages on requestThrough hole in the  
middleThrough holes to fit the  
chuck on the machine  
table

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029





# Electromagnetic Circular Chuck type ERP

## Grinding

- Electromagnetic circular chuck with parallel poles
- For ring-shaped work pieces (including thin rings)
- Suitable for simultaneous machining of several work pieces
- The smallest work piece thickness: 4 mm
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.04.BUE.230 / 50.05.BUET.400 and 50.10.T10

Parallel  
Pole pitch  
5 mm  
(brass-steel)

Nominal force  
110 N/cm<sup>2</sup>

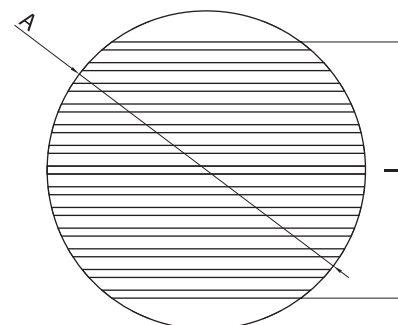
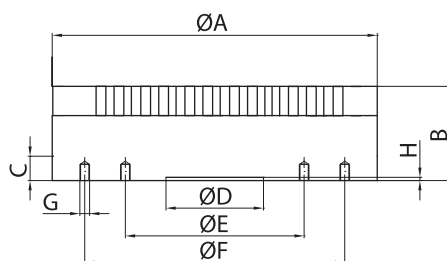
Admissible wear  
of top plate  
8 mm

Voltage  
110 VDC

Magnetic field  
height  
5 mm

### Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)



Reference	Weight in Kg	A	B	C	D	E	F	G	H: Recess depth	J: Pole pitch
11.12.5.150.110	10,5	150	90	14	-	90	120	3xM10	4	54W
11.12.5.200.110	20,0	200	96	14	-	110	140	4xM10	4	85W
11.12.5.300.110	49,5	300	106	16	-	160	190	4xM12	4	144W
11.12.5.400.110	88,0	400	106	16	-	210	250	6xM12	5	195W
11.12.5.500.110	150,5	500	116	16	-	280	320	6xM12	5	282W
11.12.5.600.110	216,0	600	166	18	-	350	390	6xM12	5	391W
11.12.5.700.110	295,0	700	116	18	-	400	450	6xM12	5	512W
11.12.5.800.110	385,0	800	116	18	-	450	500	6xM16	5	648W
11.12.5.1000.110	673,0	1000	130	18	-	550	620	8xM16	5	990W



High holding power / Heavy duty construction

## OPTIONS

Other sizes and  
voltages on request

Through hole in the  
middle

Through holes to fit the  
chuck on the machine  
table

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



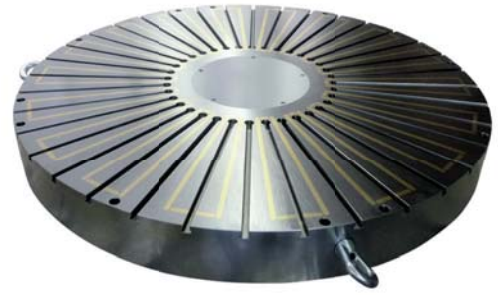
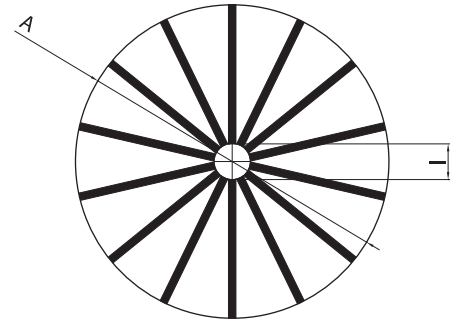
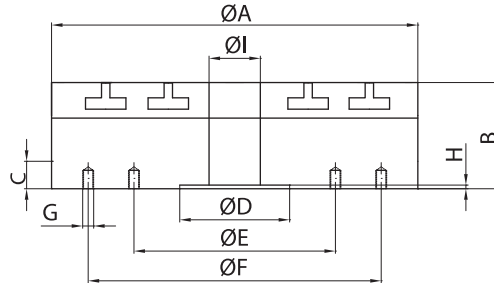
# Electro-Permanent Circular Magnetic Chuck type EPERC

Grinding Turning

- Electro-permanent radial pole circular chuck with high holding force
- Space between the poles filled with brass
- For ring-shaped work pieces
- Suitable for grinding and turning operations
- Corresponding Control Unit and the Remote Control to be ordered separately:  
See 50.03.BUP.400 / 50.03.BUP.230 and 50.10.T10

## Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

Nominal force  
120 N/cm<sup>2</sup>Admissible wear  
of top plate  
8 mmVoltage  
340 VDC

Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J: Number of poles
11.14.150.36.340	9,0	150	90	14	-	90	120	3xM10	4	35	6
11.14.200.36.340	18,0	200	90	14	-	110	140	4xM10	4	45	8
11.14.250.36.340	29,0	250	90	16	-	140	170	4xM12	4	65	8
11.14.300.36.340	42,0	300	90	16	-	160	190	4xM12	4	85	12
11.14.400.36.340	76,0	400	90	16	-	210	250	6xM12	5	100	12
11.14.500.36.340	120,0	500	90	16	-	280	320	6xM12	5	150	16
11.14.600.36.340	195,0	600	100	18	-	350	390	6xM16	5	180	16
11.14.700.36.340	265,0	700	100	18	-	400	450	6xM16	5	200	16
11.14.800.36.340	365,0	800	100	18	-	450	500	6xM16	5	200	24
11.15.1000.36.340	550,0	1000	100	18	-	550	620	8xM16	5	250	24



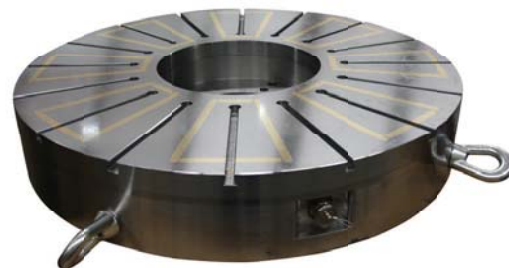
High holding power / Heavy duty construction

## OPTIONS

Other sizes and  
voltages on  
requestT-slots in each  
poleThrough hole in the  
middleCustomized  
raising pole  
shoes

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



## Electro-Permanent Circular Magnetic Chuck type EPERC-N

Grinding Turning

- Electro-permanent radial pole circular chuck with reinforced holding force
- Space between the poles filled with brass
- For ring-shaped work pieces
- Suitable for grinding and turning operations
- Corresponding Control Unit and the Remote Control to be ordered separately:  
See 50.03.BUP.400 / 50.03.BUP.230 and 50.10.T10

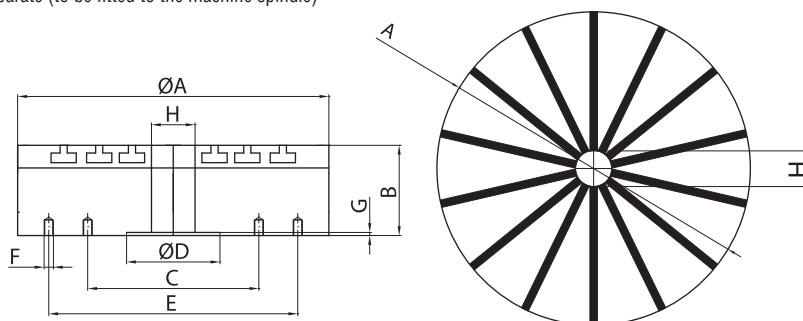
### Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

Nominal force  
140 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I
11.15.200.36.340	24,0	200	100	110	-	140	4xM10	4	45	8
11.15.250.36.340	39,0	250	100	140	-	170	4xM12	4	65	8
11.15.300.36.340	54,0	300	100	160	-	190	4xM12	4	85	12
11.15.400.36.340	85,0	400	100	210	-	250	6xM12	5	100	12
11.15.500.36.340	150,0	500	110	280	-	320	6xM12	5	150	16
11.15.600.36.340	210,0	600	110	350	-	390	6xM16	5	180	16
11.15.700.36.340	280,0	700	110	400	-	450	6xM16	5	200	16
11.15.800.36.340	380,0	800	110	450	-	500	6xM16	5	200	24
11.15.1000.36.340	680,0	1000	125	550	-	620	8xM16	5	250	24



High holding power / Heavy duty construction / Recommended for hard turning / Innovative

### OPTIONS

Other sizes and  
voltages on  
request

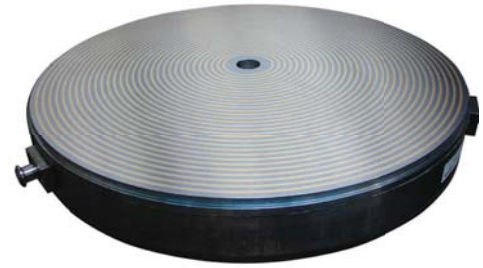
T-slots in each  
pole

Through hole in the  
middle

Customized  
raising pole  
shoes

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



# Electro-Permanent Circular Magnetic Chuck type EPBC

Grinding Turning

- Electro-permanent circular chuck with concentric poles
- Uniform, strong and low magnetic field
- Suitable for simultaneous machining of several work pieces
- The smallest work piece thickness: 4 mm
- Corresponding Control Unit and the Remote Control to be ordered separately: See 50.03.BUP.400 / 50.03.BUP.230 and 50.10.T10

## Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

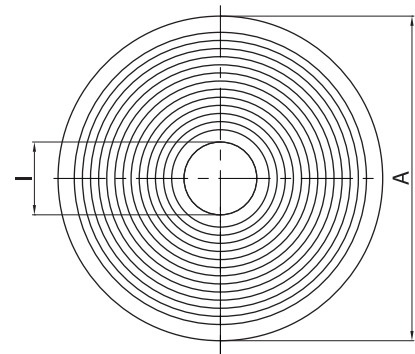
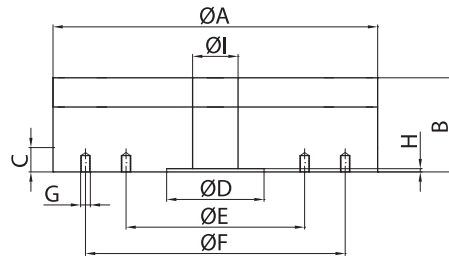
Pole pitch  
a) 9 mm  
steel 5 mm  
brass 4 mm  
b) 16 mm  
steel 12 mm  
brass 4 mm

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F: Power	G	H	I	J
11.16.9.200.340	15,0	200	105	110	5	140	4xM10	14	106	21	9
11.16.9.300.340	52,0	300	105	160	5	190	4xM12	16	106	21	9
11.16.9.400.340	89,0	300	105	210	5	250	6xM12	16	120	21	9
11.16.9.500.340	141,0	500	105	280	5	320	6xM12	16	126	21	9
11.16.9.600.340	204,0	600	105	350	5	390	6xM12	16	110	21	9
11.16.9.700.340	278,0	700	105	400	5	450	6xM12	18	126	21	9
11.16.9.800.340	383,0	800	105	450	5	500	6xM16	18	126	22	9
11.16.9.1000.340	578,0	1000	105	550	5	620	8xM16	18	126	22	9
11.16.16.200.340	15,0	200	105	110	5	140	4xM10	16	126	21	16
11.16.16.300.340	54,0	300	105	160	5	190	4xM12	16	106	21	16
11.16.16.400.340	89,0	400	105	210	5	250	6xM12	16	96	21	16
11.16.16.500.340	141,0	500	105	280	5	320	6xM12	16	122	21	16
11.16.16.600.340	204,0	600	105	350	5	390	6xM12	18	110	21	16
11.16.16.700.340	278,0	700	105	400	5	450	6xM12	18	122	21	16
11.16.16.800.340	383,0	800	105	450	5	500	6xM16	18	122	22	16



High holding power / Heavy duty construction

## OPTIONS

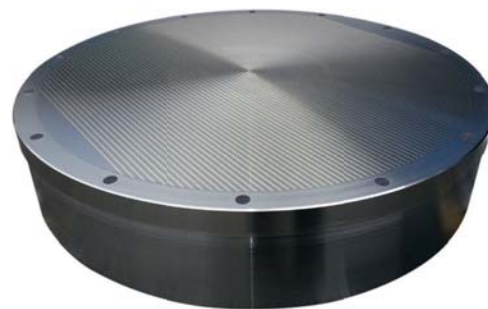
Other sizes and voltages on request

Through hole in the middle

Through holes to fit the chuck on the machine table

Fitting adaptors to:

- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029



# Electro-Permanent Circular Magnetic Chuck type EPERU

Grinding Turning

- Electro-permanent circular chuck with parallel poles
- For ring-shaped work pieces (including thin rings)
- Suitable for simultaneous machining of several work pieces
- The smallest work piece thickness: 4 mm
- Corresponding Control Unit and the Remote Control

to be ordered separately: See 50.03.BUP.400 / 50.03.BUP.230 and 50.10.T10

Included with purchase:

- Electric connection at the rear of the chuck
- With slip ring assembly either integrated into the chuck or separate (to be fitted to the machine spindle)

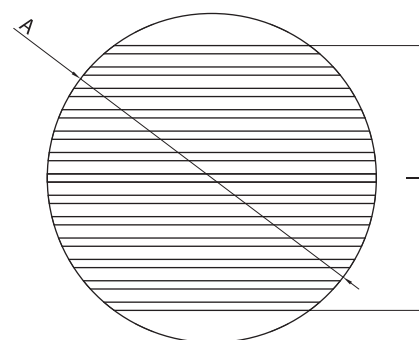
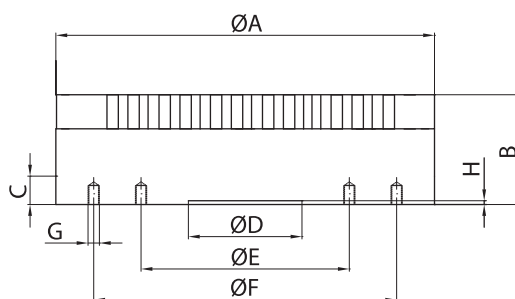
Parallel  
Pole pitch  
5 mm  
(brass-steel)

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Voltage  
340 VDC

Magnetic field  
height  
5 mm



Reference	Weight in Kg	A	B	C	D	E	F	G	H: Recess depth	I: Power	J
11.17.5.150.340	10,5	150	90	90	4	120	3xM10	14	n.a.	54W	5
11.17.5.200.340	20,0	200	96	110	4	140	4xM10	14	n.a.	85W	5
11.17.5.300.340	49,5	300	106	160	4	190	4xM12	16	n.a.	144W	5
11.17.5.400.340	88,0	400	106	210	5	250	6xM12	16	n.a.	195W	5
11.17.5.500.340	150,5	500	116,0	280	5	320	6xM12	16	n.a.	282W	5
11.17.5.600.340	216,0	600	166	350	5	390	6xM12	18	n.a.	391W	5
11.17.5.700.340	295,0	700	116	400	5	450	6xM12	18	n.a.	512W	5
11.17.5.800.340	385,0	800	116	450	5	500	6xM16	18	n.a.	648W	5
11.17.5.1000.340	673,0	1000	130	550	5	620	8xM16	18	n.a.	990W	5



High holding power / Heavy duty construction

## OPTIONS

Other sizes and  
voltages on request

Through hole in the  
middle

Through holes to fit the  
chuck on the machine  
table

Fitting adaptors to:

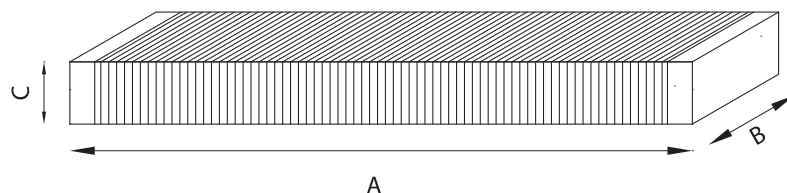
- Morse cone 3 or 4
- Short taper flanges for:  
A2 DIN 55026  
Bayonet DIN 55027  
Camlock DIN 55029

# Laminated Blocks type LB

Grinding EDM Milling Metrology Drilling Machining Positionning

- Made of silver brazed steel and brass laminations
- Laminated blocks transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface (respecting laminations direction) or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.

Pole pitch  
4.5 mm  
1.5 mm of brass,  
3 mm of steel



Reference	Weight in Kg	A	B	C
14.01.757525B	1,2	75	75	25
14.01.1007525B	1,5	100	75	25
14.01.10010025B	1,9	100	100	25
14.01.805040B	2,6	80	50	40
14.01.1005040B	3,2	100	50	40
14.01.1554540B	4,6	155	45	40
14.01.32010040B	20,6	320	100	40
14.01.6507540B	31,3	650	75	40
14.01.6507525B	19,6	650	75	25

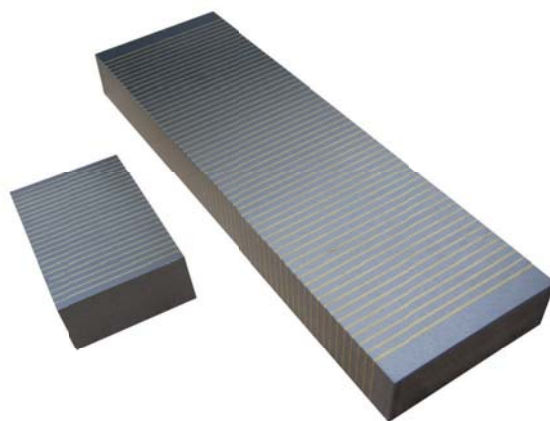


Silver brazed top plate / Heavy duty construction

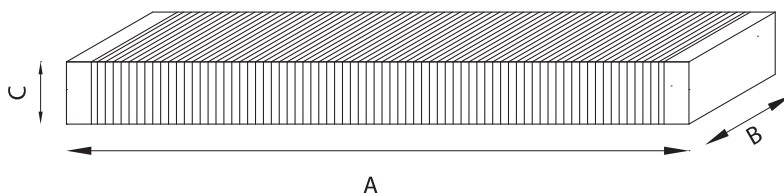
# Laminated Blocks type TB

Grinding EDM Milling Metrology Drilling

- Made of silver brazed steel and brass laminations.
- Laminated blocks transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface (respecting laminations direction) or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.



Pole pitch  
4.5 mm  
1.5 mm of brass  
3 mm of steel



Reference	Weight in Kg	A	B	C
14.02.573215	0,2	57	32	15
14.02.975726	1,2	97	57	26
14.02.1007525	1,5	100	75	25
14.02.2007525	3,0	200	75	25
14.02.2507525	3,8	250	75	25
14.02.3007525	4,6	300	75	25
14.02.4007525	6,1	400	75	25
14.02.5007525	7,6	500	75	25
14.02.20010025	4,0	200	100	25
14.02.25010025	5,0	250	100	25
14.02.30010025	6,0	300	100	25
14.02.40010025	8,0	400	100	25
14.02.50010025	10,1	500	100	25
14.02.1007540	2,5	100	75	40
14.02.2007540	4,9	200	75	40
14.02.2507540	6,1	250	75	40
14.02.3007540	7,4	300	75	40
14.02.4007540	9,8	400	75	40
14.02.5007540	12,2	500	75	40
14.02.20010040	6,4	200	100	40
14.02.25010040	8,0	250	100	40
14.02.30010040	9,6	300	100	40
14.02.40010040	12,8	400	100	40
14.02.50010040	16,2	500	100	40



Silver brazed top plate / Heavy duty construction

OPTIONS

Other sizes available  
on requestOther pole pitch  
execution

Delivered in pairs

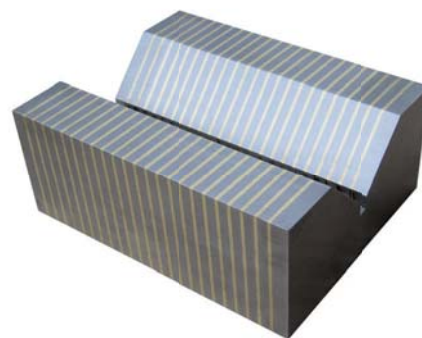
## LAMINATED BLOCKS

REF 14.03

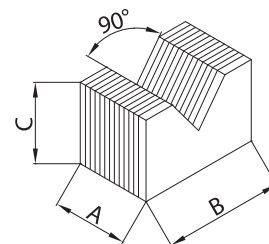
# Laminated Blocks with Vee type TBV

Grinding EDM Milling Metrology Drilling Machining

- Made of silver brazed steel and brass laminations
- Supplied in pairs
- Laminated blocks transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface (respecting laminations direction) or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.



Pole pitch  
4.5 mm  
1.5 mm of brass  
3 mm of steel



Reference	Weight in Kg	A	B	C
14.03.508040	2,4	50	80	40
14.03.5010040	3,0	50	100	40
14.03.566848	0,8	56	68	48



Silver brazed top plate / Heavy duty construction

### OPTIONS

Other sizes available on request

Other pole pitch execution

## LAMINATED BLOCKS

REF 14.09

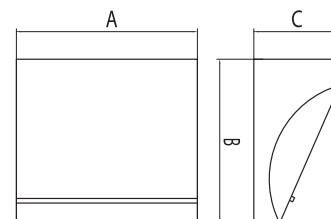
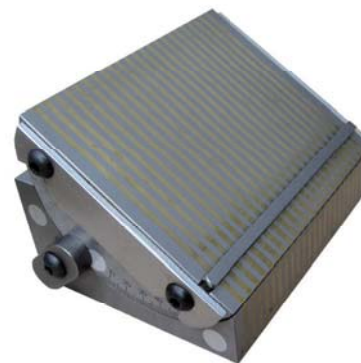
# Laminated Tilting Block

Grinding EDM Metrology

- Laminated block with tilting core
- Inclination from 0° to 50°
- Chosen angle locking with lateral screw

Included with purchase:

- Wooden box
- Allen Key



Reference	Weight in Kg	A	B
14.09.10493.INCL	2,2	104	93

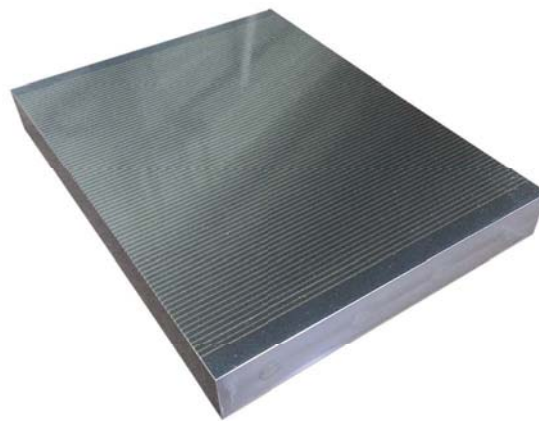


Heavy duty & compact construction / Attractive prices !

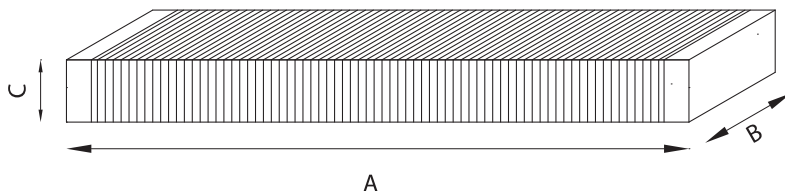
## Auxiliary Pole Plate type PP

Grinding EDM Milling Metrology Drilling Machining

- Made of silver brazed steel and brass laminations
- Auxiliary top plates transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.



Pole pitch  
3 mm of steel  
1,0 mm of brass



Reference	Weight in Kg	A	B	C
14.04.25015025	7,4	250	150	25
14.04.30015025	8,7	300	150	25
14.04.30020025	11,7	300	200	25
14.04.30025025	14,6	300	250	25
14.04.40015025	11,7	400	150	25
14.04.40030025	23,3	400	300	25
14.04.40020025	15,6	400	200	25



Silver brazed top plate / Heavy duty construction

### OPTIONS

Other sizes available  
on request

Other pole pitch  
execution

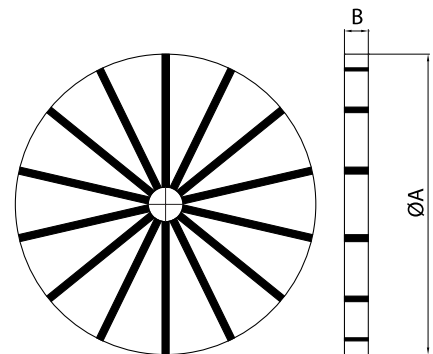
With special  
machinings



# Auxiliary Top Plate type PP/MR for Magnetic Circular Chuck type ERCA

Grinding Turning

- To use with circular magnetic chucks type ERCA
- Welded construction with epoxy resin
- Auxiliary top plates transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system with corresponding radial pole design. They can simply be placed loose on the magnetic chuck surface (respecting radial pole layout) or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.



Reference	Weight in Kg	A	B
14.05.150.ERCA	1,0	150	20
14.05.180.ERCA	2,0	180	20
14.05.200.ERCA	3,0	200	20
14.05.250.ERCA	4,0	250	20
14.05.300.ERCA	5,0	300	20
14.05.350.ERCA	6,0	350	20
14.05.400.ERCA	7,0	400	20
14.05.450.ERCA	8,0	450	20
14.05.500.ERCA	10,0	500	20
14.05.130.ERCN	2,0	130	20
14.05.150.ERCN	3,0	150	20
14.05.200.ERCN	4,0	200	20
14.05.250.ERCN	5,0	250	20
14.05.300.ERCN	7,0	300	20
14.05.350.ERCN	10,0	350	20
14.05.400.ERCN	15,0	400	20
14.05.500.ERCN	10,0	500	20
14.05.600.ERCN	25,0	600	20

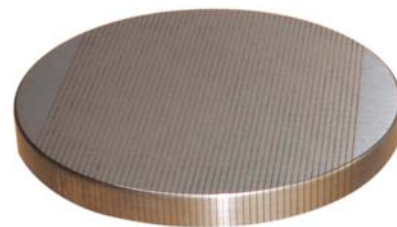


Heavy duty construction

Other sizes available  
on requestOther pole pitch  
execution

Special machinings

Fitting systems

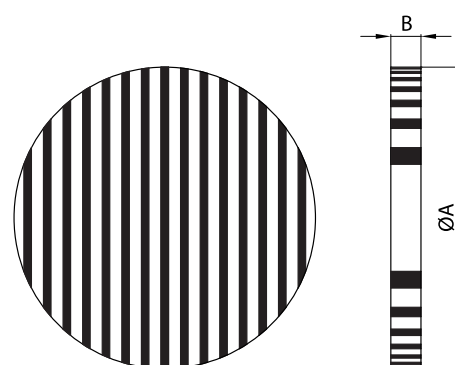


## Auxiliary Top Plate type PP/MR for Magnetic Circular Chucks type FM

Grinding Turning

- To use with circular magnetic chucks type FM
- Auxiliary top plates transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.

Pole pitch  
4.5 mm  
1.5 mm of brass  
3 mm of steel



Reference	Weight in Kg	A	B
14.07.100	2,6	100	21
14.07.130	3,5	130	21
14.07.150	4,2	150	21
14.07.200	5,9	200	21
14.07.250	7,6	250	21
14.07.300	8,9	300	21



Heavy duty construction

### OPTIONS

Other sizes available  
on request

Other pole pitch  
execution

Special machinings

Fitting systems

## LAMINATED BLOCKS

REF 14.08

# Set of Laminated Blocks type PRATIC

Grinding EDM Metrology

- Set of the most frequently used laminated blocks 14.08 & 14.08.EDM:
- Made of silver brazed steel and brass laminations
- Pole pitch: 3 mm steel + 1 mm brass
- Laminated blocks transmit the magnetic field of the chuck towards the work piece. They can be used with any magnetic clamping system that has a parallel pole pitch. They can simply be placed loose on the magnetic chuck surface (respecting laminations direction) or can be mechanically fitted to the chuck.
- Able to withstand harsh applications because no glue or rods have been used to fix the laminations together.

Included with purchase for 14.08:

- 2 laminated blocks with transversal pole pitch, size: 57x32x15 (14.02.573215)
- 2 laminated blocks with transversal pole pitch, size: 97x57x26 (14.02.975726)
- 2 laminated blocks with transversal pole pitch, size: 97x53x22 (14.02.975722)
- 2 laminated blocks with Vee, size: 57x67x47 (14.03.576747)

Included with purchase for 14.08.EDM:

- 2 laminated blocks with longitudinal pole pitch, size: 155x45x40 (14.01.1554540)
- 2 laminated Vee blocks with transversal pole pitch, size: 57x67x47 (14.01.576747)
- 1 laminated tilting block, inclination 0°-50°, size: 104x93 (14.09.10493.incl)

Reference	Weight in Kg	A
14.08	12	Kofferset Pratic
14.08.EDM	12	Kofferset EDM



Silver brazed top plate



## LAMINATED BLOCKS

REF 91.16

# Cylindrical permanent cup magnets type VND 16 in plastic box

EDM Mounting Clamping

- 6 neodymium-stainless steel knurled cup magnets

Max.  
temperature of use  
80 °C

Reference	A	B
91.16.20.8.COFFRET	20	8



High holding power / Heavy duty construction



## LAMINATED BLOCKS

REF 19.80

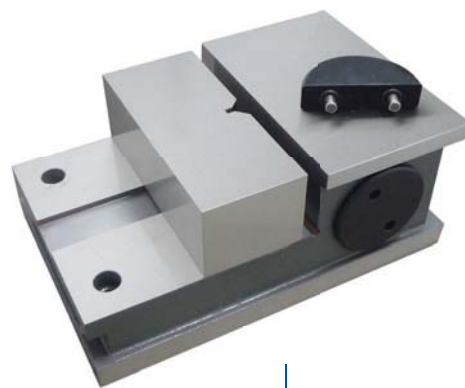
# Magnetic Vice

Grinding Metrology Clamping

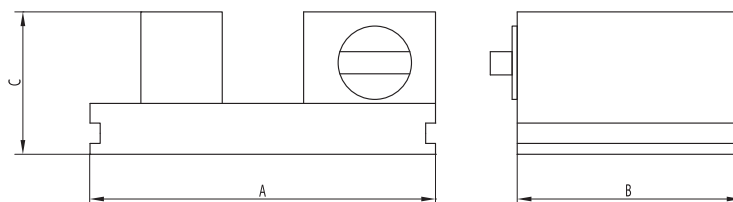
- High precision vice with magnetic jaws
- For grinding of non-geometric work pieces
- Angle accuracy 0.01 mm/100 mm

Included with purchase:

- ON/OFF key on the front face



Parallelism  
0.005 mm



Reference	Weight in Kg	A	B	C	D
	8	170	110	102	70



Heavy duty construction

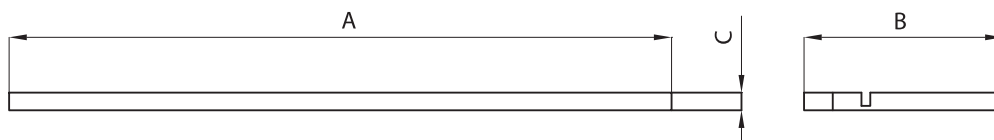
## LAMINATED BLOCKS

REF 19.90

# Clamping springing back strips type YS

Grinding EDM Milling Metrology Drilling Machining

- Made of ferromagnetic material, with spring traction effect
- For clamping of non-magnetic materials on magnetic chucks
- Supplied in pairs



Reference	Weight in Kg	A	B	C
19.90.10045.4	0,1	100	45	4
19.90.15040.1	0,14	150	40	1
19.90.15043.1,7	0,15	150	43	1,7
19.90.15043.2,8	0,16	150	43	2,8
19.90.15045.4	0,17	150	45	4
19.90.20045.4	0,22	200	45	4
19.90.25052.3,7	0,30	250	52	3,7



Heavy duty construction / Low height

# Grid Type Vacuum Chuck type VRS

Grinding EDM Milling Metrology Machining Planning Engraving Polishing

- Grid type vacuum chuck to be used on machine-tool table
- 2 different groove pitches:  
VRS12AL: 12.5 mm pitch, in aluminium  
VRS25AL: 25 mm pitch, in aluminium
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

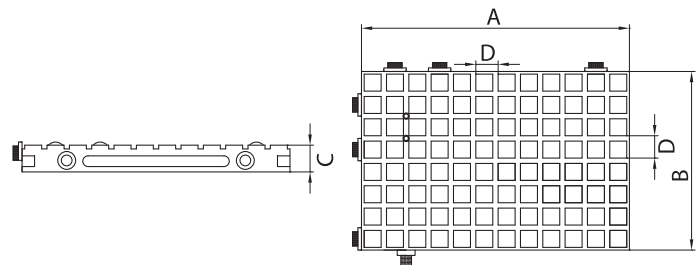
#### Included with purchase:

- Air hose connector
- End stops



Flatness  
0.02/100 mm

Parallelism  
0.02/100 mm



Reference	Weight in Kg	A	B	C	D
30.01.200100	1,8	200	100	32.5	12.5/25
30.01.250150	3,5	250	150	32.5	12.5/25
30.01.300150	4,0	300	150	32.5	12.5/25
30.01.350150	4,9	350	150	32.5	12.5/25
30.01.400200	7,1	400	200	32.5	12.5/25
30.01.500200	10,0	500	200	32.5	12.5/25
30.01.600200	12,6	600	200	32.5	12.5/25
30.01.400300	13,0	400	300	32.5	12.5/25
30.01.500300	16,0	500	300	32.5	12.5/25
30.01.600300	19,0	600	300	32.5	12.5/25
30.01.700300	25,0	700	300	48	12.5/25
30.01.400400	19,0	400	400	32.5	12.5/25
30.01.600400	28,0	600	400	32.5	12.5/25
30.01.800400	38,0	800	400	48	12.5/25
30.01.1000400	48,0	1000	400	48	12.5/25
30.01.500500	30,0	500	500	48	12.5/25



Heavy duty construction

OPTIONEN

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks

# Sintered Metal Vacuum Chuck type VMS

Grinding Milling Metrology Drilling Contouring Machining Polishing

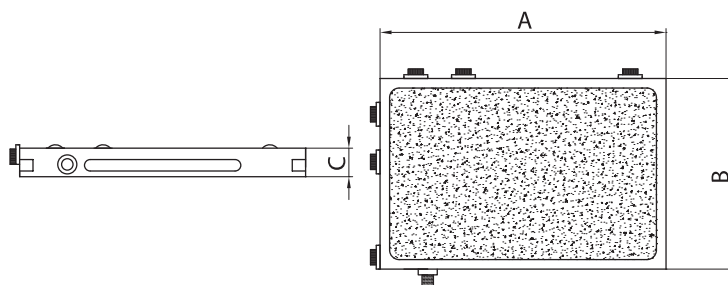
- Sintered metal type vacuum chuck
- Ideal for machining of thin elements (below 0.5 mm thick)
- Suitable for non-magnetic materials like glass, ceramics, plastic
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

## Included with purchase:

- Air hose connector
- End stops

Flatness  
0.02/100 mm

Parallelism  
0.02/100 mm



Reference	Weight in Kg	A	B	C
30.03.200100	2,0	200	100	38
30.03.250150	3,5	250	150	38
30.03.300150	4,5	300	150	38
30.03.350150	5,0	350	150	38
30.03.400200	8,0	400	200	38
30.03.500200	13,0	500	200	38
30.03.600200	15,5	600	200	38
30.03.400300	13,0	400	300	38
30.03.500300	19,5	500	300	38
30.03.600300	23,0	600	300	38
30.03.700300	25,0	700	300	38
30.03.400400	21,0	400	400	38
30.03.600400	31,0	600	400	38
30.03.800400	41,0	800	400	38
30.03.1000400	65,0	1000	400	38
30.03.500500	33,0	500	500	38
30.03.1000500	66,0	1000	500	48



Heavy duty construction / Innovative



## OPTIONS

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks

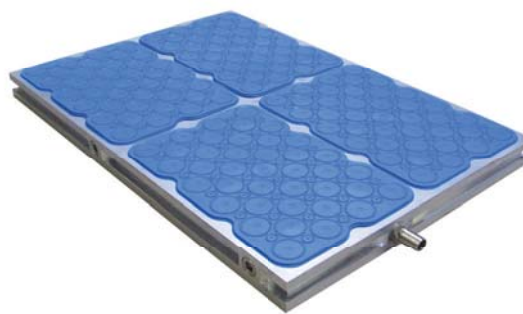
# Vacuum Chuck with Rubber Mats type VMT

Grinding Milling Metrology Drilling Contouring Machining Polishing

- Vacuum chuck made of aluminium, with rubber suction mat
- Ideal for cutting out of steel sheet elements
- Rubber mat is a consumption item
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

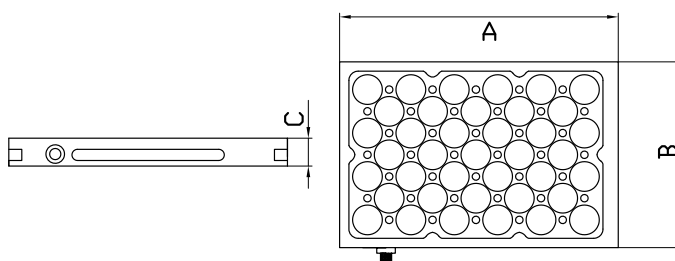
## Included with purchase:

- Air hose connector
- End stops



Flatness  
0.02/100 mm

Parallelism  
0.02/100 mm



Reference	Weight in Kg	A	B	C	D
30.04.300200	7	300	200	38	
30.03.600200	14	600	200	38	
30.04.400300	14	400	200	38	
30.04.600400	28	600	400	38	
30.04.99.TAP. B/B	0.05	300	200	TAPIS POUR PLATEAU	BLEU
30.04.99.TAP. N/S	0,05	300	200	TAPIS POUR PLATEAU	NOIR=sans trous



Heavy duty construction / Innovative

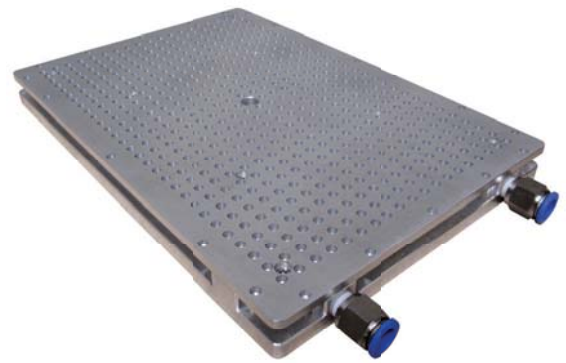
## OPTIONS

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks



# Vacuum Chuck with hole grid type TR

Milling Machining Planning Engraving

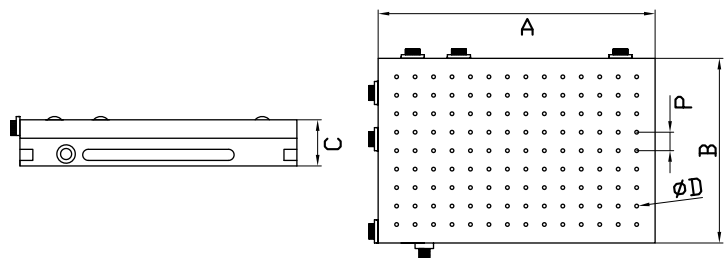
- Aluminium vacuum chuck with holes
- Standard height 34 mm
- Distance between the holes 10 x 10 mm
- All holes not covered by the workpiece should also be covered
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

Included with purchase:

- Air hose connector
- End stops

Flatness  
0.02 mm

Parallelism  
0.02 mm



Reference	Weight in Kg	A	B
30.05.200200	4,7	200	200
30.05.300200	6,8	300	200
30.05.400200	8,8	400	200
30.05.600400	17	600	400



Heavy duty construction / Effective

## OPTIONS

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks



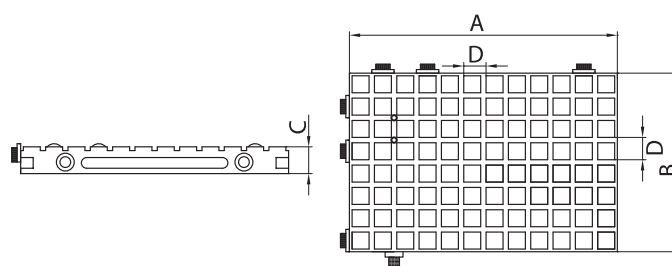
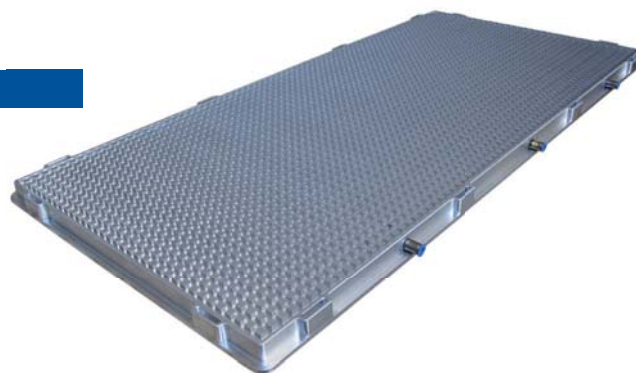
# Grid Type Vacuum Chuck for Engraving

Grinding Milling Planning Engraving

- Grid type vacuum chuck with reinforced grid for engraving
- 2 different groove pitches:  
VRS12AL: 12.5 mm pitch, in aluminium  
VRS25AL: 25 mm pitch, in aluminium
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

## Included with purchase:

- Air hose connector
- End stops



Reference	Weight in Kg	A	B
30.08.200200	4,8	200	200
30.08.300200	6,9	300	200
30.08.400200	8,9	400	200
30.08.210100	3	210	100
30.08.700350	19	700	350



Effective

## OPTIONS

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks

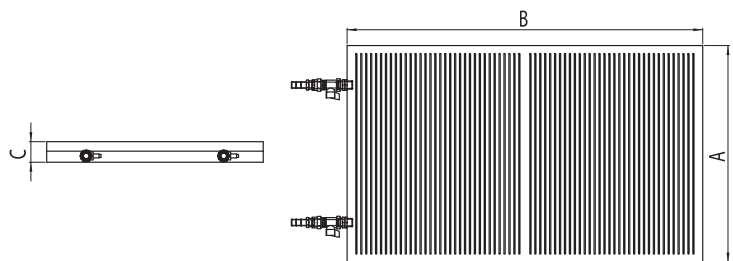
# Vaccum Chuck with Parallel Slots type VMR

Milling Drilling Engraving

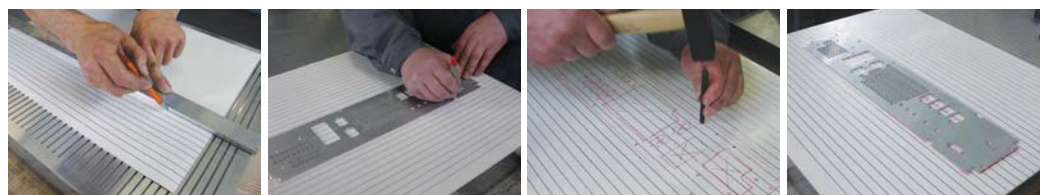
- Vacuum chuck with parallel slots
- Low construction
- With height adjustable end stops
- Use with special rubber mats (consumption item)
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30.20

Included with purchase:

- Air hose connector
- End stops



Reference	Weight in Kg	A	B	C
30.09.400400	21,5	400	400	52
30.09.500500	34	500	500	52
30.09.600400	32,5	600	400	52
30.09.800400	43,5	800	400	52
30.09.1000500	68	1000	500	52



OPTIONS

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks

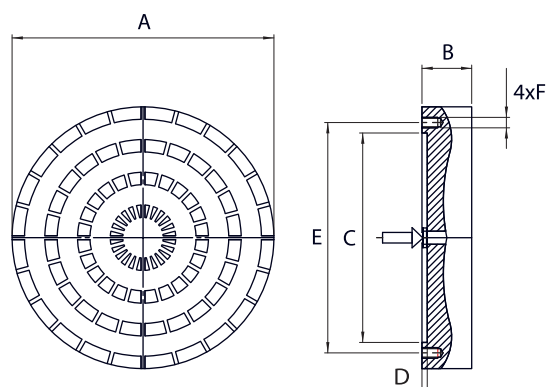
# Circular Grid Type Vacuum Chuck type VRF

Grinding Metrology Turning

- Circular grid
- Vacuum intake device in the middle
- 2 different groove pitches:  
VRS10AL: 10 mm pitch, in aluminium  
VRS12AL: 12.5 mm pitch, in aluminium
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30/20

Included with purchase:

- Air hose connector

Flatness  
0.02/100 mmParallelism  
0.02/100 mm

Reference	Weight in Kg	A	B	C	D	E	F
30.02.100	1,0	100	38	70	3	83	M8
30.02.125	1,5	125	38	95	4	108	M8
30.02.160	2,0	160	38	125	4	140	M10
30.02.200	3,0	200	38	160	4	176	M10
30.02.250	5,0	250	38	200	5	224	M12
30.02.315	5,0	315	48	260	5	286	M16
30.02.400	16,0	400	48	330	5	362	M16
30.02.500	31,0	500	58	420	5	458	M16
30.02.630	49,0	630	58	545	7	586	M16



Heavy duty construction / Innovative

## OPTIONS

Rotary bushing

Another position of air connection

Multiple independent zones

Special execution, palletizing

With steel base plate for use on magnetic chucks

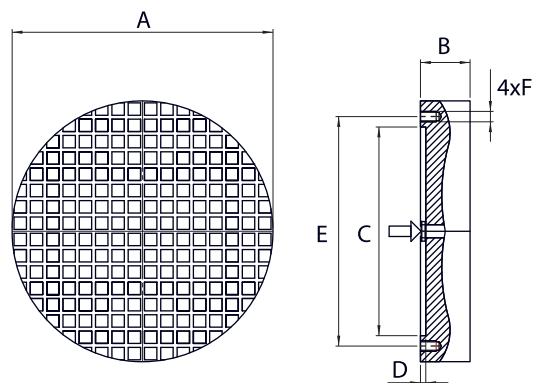
# Circular Grid Type Vacuum Chuck type VRFP

Grinding Turning

- Parallel grooves
- Vacuum intake device in the middle
- 2 different groove pitches:  
VRS10AL: 10 mm pitch, in aluminium  
VRS12AL: 12.5 mm pitch, in aluminium
- The required complementary equipment to be ordered, see articles: 30.11 / 30.12 / 30.14 / 30.18 / 30.15
- Corresponding vacuum pump: 30.10 / 30/20

Included with purchase:

- Air hose connector

Flatness  
0.02/100 mmParallelism  
0.02/100 mm

Reference	Weight in Kg	A	B	C	D	E	F
30.06.100	1	100	38	70	3	83	M8
30.06.125	1.6	125	38	95	4	108	M8
30.06.160	2	160	38	125	4	140	M10
30.06.200	3	200	38	160	4	176	M10
30.06.250	5	250	38	200	5	224	M12
30.06.300	5.8	300	48	260	5	286	M16
30.06.400	16	400	48	330	5	362	M16
30.06.500	31	500	58	420	5	458	M16
30.06.600	47	600	58	545	7	586	M16



Heavy duty construction / Effective

## OPTIONS

Rotary bushing

Another position of  
air connectionMultiple independent  
zonesSpecial execution,  
palletizingWith steel base plate  
for use on magnetic  
chucks

# Vacuum Unit type VAL

Grinding   Milling   Machining   Planning

- Vacuum pump with guaranteed reliability
- 100% ensured operational vacuum performance and avoidance of idle run
- Integrated buffer tank with 70 liter capacity
- High speed also with slow pressure: 0.5 mbar
- Silent operation
- Air cooling
- Standard motor connection
- Motor standard IP55 class F
- The required complementary equipment to be ordered:
  - 30.11 Safety switch
  - 30.12 Liquid separator
  - 30.14 Suction hose
  - 30.12P

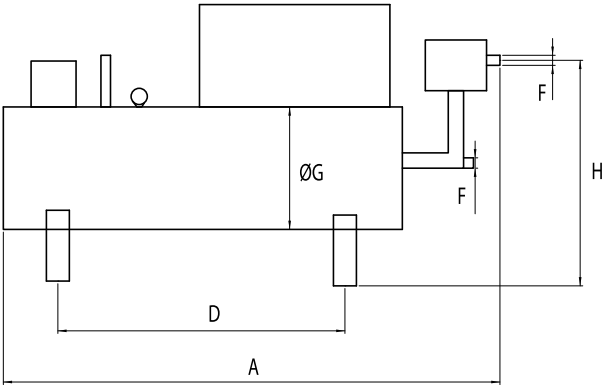
Included with purchase:

- Start set
- Air filter



Voltage  
400 VAC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F
30.10.25.400	75,0	650	705	725	785	26 m3/h	0.75kw
30.10.40.400	80,0	650	705	725	785	42 m3/h	1.1kw



Heavy duty construction / Effective

OPTIONS

230 V execution

# Vacuum Unit type VAL-SEP

Grinding Milling Drilling Machining Planning

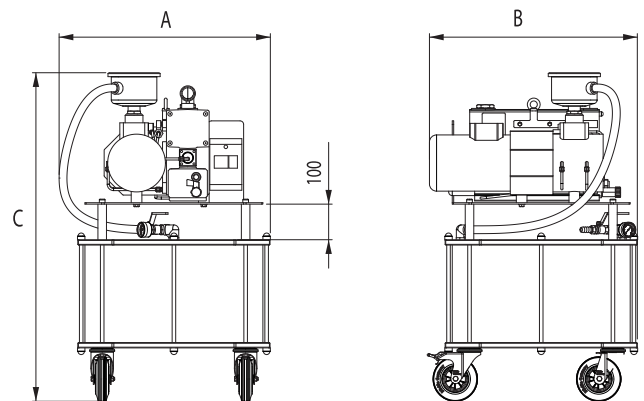
- Vacuum pump with guaranteed reliability
- Integrated liquid separator for liquid recycling
- Stable pressure by continuous operation: 0.5 mbar
- Silent operation
- Air cooling
- 4 wheels for flexible use
- Standard motor connection
- Motor standard IP55 class F
- Capacity from 17 m3 to 47 m3
- The required complementary equipment to be ordered:
  - 30.11 Safety switch
  - 30.14 Suction hose
  - 30.12P

Included with purchase:

- Start set
- Air filter



Voltage  
400 VAC



Reference	Weight in Kg	A	B	C	D	E	F
30.10.25.70.400	50	600	584	923	59db	26m3/h	0,75KW
30.10.40.70.400	55	600	624	973	58db	42m3/h	1,1KW



Heavy duty & compact construction

OPTIONS

230 V execution

Connection for control of several  
vacuum chucks

# Vacuum Pump type VP

Grinding Milling Machining Planning Clamping

- Vacuum pump with guaranteed reliability
- 100% ensured operational vacuum performance and avoidance of idle run
- High speed also with slow pressure: 0.5 mbar
- Silent operation
- Air cooling
- Standard motor connection
- Motor standard IP55 class F
- The required complementary equipment to be ordered:
  - 30.11 Safety switch
  - 30.12 Liquid separator
  - 30.14 Suction hose
  - 30.12P

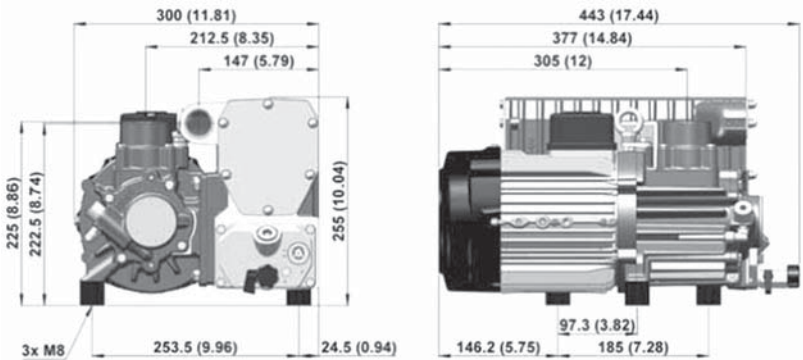
Included with purchase:

- Start set
- Air filter



Voltage  
400 VAC

Duty cycle  
100 %



Vacuum Pump 30.20.25.400

Reference	Weight in Kg	A	B	C	D
30.20.25.400	30	26m3/h	1500 t/min	59dB(A)	400V-50hz
30.20.40.400	35	42m3/h	1500 t/min	58dB(A)	400V-50hz



Heavy duty & compact construction

OPTIONS

230 V execution

# Vacuum Pump type VP

Grinding Milling Machining Planning Clamping

- Vacuum pump with guaranteed reliability
- 100% ensured operational vacuum performance and avoidance of idle run
- High speed also with slow pressure: 0.5 mbar
- Silent operation
- Air cooling
- Standard motor connection
- Motor standard IP55 class F
- The required complementary equipment to be ordered:
  - 30.11 Safety switch
  - 30.12 Liquid separator
  - 30.14 Suction hose
  - 30.12P

## Included with purchase:

- Start set
- Air filter



Reference	Weight in Kg	A	B	C	D
30.20.65.400	70	65m3/h	1450 t/min	65dB(A)	400V-50hz
30.20.100.400	80	100m3/h	1450 t/min	67dB(A)	400V-50hz
30.20.150.400	102	150m3/h	1450 t/min	70dB(A)	400V-50hz
30.20.200.400	115	200m3/h	1450 t/min	71dB(A)	400V-50hz
30.20.300.400	190	300m3/h	967 t/min	73dB(A)	400V-50hz
30.20.350.400	350	350m3/h	967 t/min	74dB(A)	400V-50hz
30.20.400.400	380	400m3/h	967 t/min	74dB(A)	400V-50hz
30.20.500.400	420	500m3/h	967 t/min	74dB(A)	400V-50hz
30.20.600.400	450	600m3/h	967 t/min	75dB(A)	400V-50hz



Heavy duty & compact construction

OPTIONS

230 V execution



## Vacuum Pump with automatic built in separator

Grinding Milling Machining Planning Clamping

- Vacuum pump type VP25 or VP40: 30.20.25.400 or 30.20.40.400
- Liquid separator type VF
- Aluminium frame with wheels
- ON/OFF vacuum valve
- Electronically controlled separation system: control and electrovalves



Reference	Weight in Kg	A	B	C	D
30.20.32.25.400	50	125	250	1,5	26m3/h
30.20.32.40.400	60	125	250	1,5	42m3/h



Heavy duty & compact construction

## Automatic Air Vent for Vacuum Pumps

Machining Protection

- For use with vacuum pumps
  - Suction and coolant separation assistance during machinings
- Included with purchase:
- Start set = control box + 2 electrovalves + 1 container + cables



Reference	Weight in Kg	A
30.31	5,7	230 VAC



## Safety switch for Vacuum systems

### Protection

- Safety switch is monitoring the achieved vacuum pressure
- Releases the machine to operate when the required vacuum is obtained
- Execution with tensionless contact
- Accessory to vacuum clamping systems



Voltage  
230 VAC

Reference	Weight in Kg
30.11	1,0



## Liquid separator type VF

### Cleaning Protection

- To be used during machining when coolant is used in vacuum clamping systems
- For aspiration of coolant or lubricant up to 650 m3
- Explanation table:
  - No. of article + "0" = sliding valve
- Accessory to vacuum clamping systems



Reference	Weight in Kg	A	B
30.12.3/4	1,5	3/4"	10- 47m3/ h
30.12.3/4.0	1,5	3/4"	10- 47m3/ h
30.12.1"1/4	5,0	1"1/4	47- 100m3/ h
30.12.1"1/4.0	5,0	1"1/4	47- 100m3/ h



### OPTIONS

Other sizes on request

# Rubber Seal Cord for Grid Type Vacuum Chucks

Contouring Machining Clamping

- For sealing the outer perimeter of the work piece before machining on a grid type vacuum chuck
- Diameter depends on application
- Use with the PD12 and PD25 grids
- Accessory for grid type vacuum chuck

Reference	A
30.13.2	Ø2
30.13.3	Ø3
30.13.4	Ø4
30.13.5	Ø5
30.13.6	Ø6
30.13.8	Ø8
30.13.10	Ø10



# Suction hose

Automation

- Suction hose with steel spiral for connection between the vacuum pump and vacuum clamping system
- Accessory to vacuum clamping systems

Reference	Weight in Kg	A
30.14.12	1,0	Ø12 int
30.14.14	1,0	Ø14 int
30.14.16	1,0	Ø16 int
30.14.18	1,5	Ø18 int
30.14.20	1,5	Ø20 int
30.14.22	1,5	Ø22 int





## Rotary Bushing for Circular Vacuum systems

Assembly Protection

- Accessory to vacuum clamping systems

Reference	Weight in Kg	A = Diameter	B
30.15.3/8	-	3/8"	3500 t/min
30.15.1/2	-	1/2"	3500 t/min
30.15.3/4	-	3/4"	3500 t/min
30.15.1	-	1"	3000 t/min



## Dry Vacuum Gauge with ABS Housing

Metrology Protection

- Measuring range -1 - 0 BAR
- Precision: class 1,6
- Brass connector
- Taper thread end connection BSP
- Radial or axial connection
- ABS housing

Reference	Weight in Kg	A	B
30.16.40V	-	Ø40	1/8"
30.16.40A	-	Ø40	1/8"



### OPTIONS

Stainless steel housing

# Vacuum ON/OFF Switch Block with Pressure Gauge

Assembly Protection

- Vacuum ON/OFF switch with Pressure Gauge (output pressure 0/-1 bar)
- Size: 100 x 40 x 28 mm
- With 2 threaded mounting holes
- Accessory to vacuum clamping systems

Included with purchase:

- 5 meter long suction hose
- Release valve
- 2 Connectors
- 2 Clamp rings



Reference	Weight in Kg	A	B	C	D
30.18.1	1	140	80	15	1 Valve
30.18.3	1.2	140	80	15	2 Valves



OPTIONS

Switch block with several outlets



## Air Filter for Vacuum Systems

### Protection

- Accessory to vacuum pump

Included with purchase:

- Polyester filter

Reference	Weight in Kg	A
30.22.76P0.30	1,0	66
30.22.100P0.47	1,5	100



Effective

### OPTIONS

Paper filter

Activated carbon filter



## Cartridge for Vacuum Pumps

### Protection

- For air filters
- For maintenance of vacuum pumps



## Oil Filter for Vacuum Pumps

### Protection

- Accessory to vacuum pump
- Oil filter for pumps from 30 m³ to 47 m³

Reference	Weight in Kg
30.24.30.47	0,5



Effective

# Maintenance Set for Vacuum Pumps

## Protection

- Suitable for vacuum pumps of 30 m³ and 47 m³
- Included with purchase:
  - 2 liters of oil
  - Oil filter
  - Separator cartridges
  - Seals



# Special Oil for Vacuum Pumps

## Protection

- Special oil for vacuum pumps
- Accessory to vacuum clamping systems



Reference	Weight in Kg	A
30.21.2	2,3	2 l
30.21.5	5,3	5 l



Effective





# PRECISION DEVICES



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**SWIVELING AND SINE TABLES**

PAGE 82

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**PRECISION V BLOCKS**

PAGE 90

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# Single Sine Table type PF2/SS



Grinding EDM Metrology

- With standard permanent magnetic chuck type PF2
- Steel base body hardened to 60 HRC
- Precision-ground surface for highest accuracy
- Swiveling on long axis: from 0 to 60°

Included with purchase:

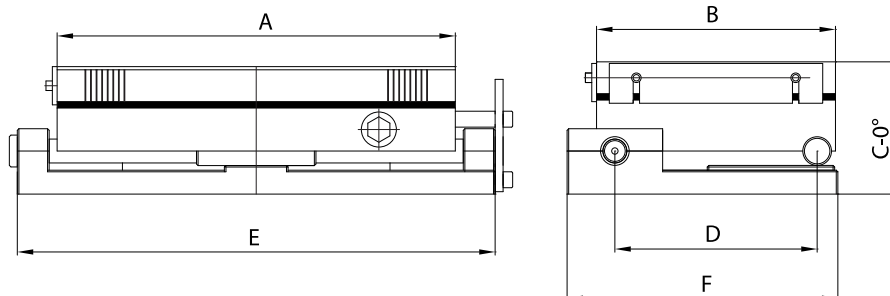
- 1 Actuating key
- End stops
- Table of sines

Pole pitch  
2 mm,  
0.5 mm of brass,  
1.5 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F
12.01.175100	10,5	175	100	85,4	75	225	102
12.01.250125	18,3	250	125	85,4	100	305	132
12.01.150150	12,7	150	150	85,4	100	200	152
12.01.300150	26,7	300	150	85,4	100	350	152
12.01.350150	38,0	350	150	85,4	100	400	152



Low height



## OPTIONS

With other magnetic  
chucks on request

Swiveling on short axis

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

Mounting slot  
in the base plate

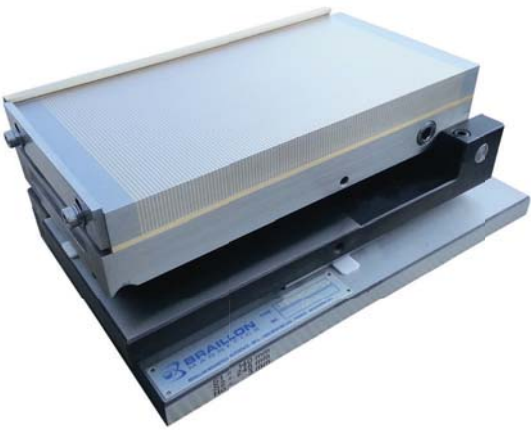
# Compound Sine Table type PF2/SD

Grinding EDM Metrology

- With standard permanent magnetic chuck type PF2
- Steel base body hardened to 60 HRC
- Precision-ground surface for highest accuracy
- Swiveling on long and short axis: respectively from 0° to 45° and from 0° to 30°

Included with purchase:

- 1 Actuating key
- End stops
- Table of sines

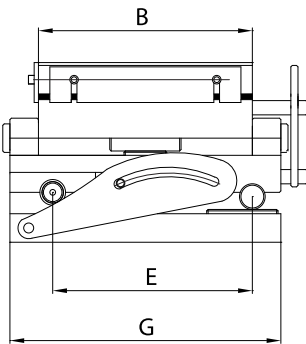
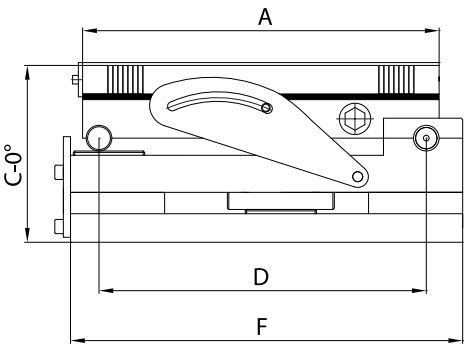


Pole pitch  
2 mm,  
0.5 mm of brass,  
1.5 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F	G
12.02.175100	13,5	175	100	123,7	100	75	225	160
12.02.250125	23,4	250	125	123,7	100	100	300	185
12.02.300150	33,1	300	150	123,7	200	100	350	205
12.02.350150	51,0	350	150	130	300	125	400	205



Heavy duty construction / Low height

OPTIONS

With other magnetic  
chucks on request

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

## SWIVELING AND SINE TABLES

REF 12.03

# Precision Sine Table without Magnetic Chuck type SS

Grinding EDM Metrology

- Precision-ground steel base body hardened to 58 HRC
- Swiveling on long axis from 0° to 60°
- Equipped with threaded holes

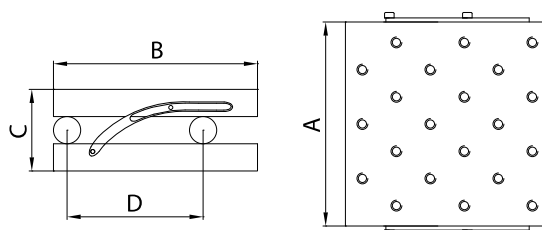
Included with purchase:

- Table of sines



Angular accuracy  
± 5 sec

Parallelism  
± 0.005/100 mm



Reference	Weight in Kg	A	B	C	D
12.03.175100	6,5	175	100	60	75
12.03.150150	8,1	150	150	60	100
12.03.300150	15,8	300	150	60	100



Heavy duty construction / Low height

## SWIVELING AND SINE TABLES

REF 12.04

# Compound Precision Sine Table without Magnetic Chuck type SSD

Grinding EDM Metrology

- Precision-ground steel base body hardened to 55-58 HRC
- Swiveling on long and short axis from 0° to 60°
- Equipped with threaded holes

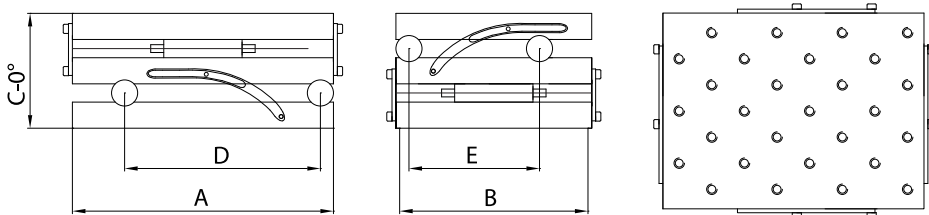
Included with purchase:

- Table of sines



Angular accuracy  
± 5 sec

Parallelism  
± 0.005/100 mm



Reference	Weight in Kg	A	B	C	D	E
12.04.175100	9,7	175	100	100	100	75
12.04.150150	12,2	150	150	100	100	100
12.04.300150	23,4	300	150	100	200	100

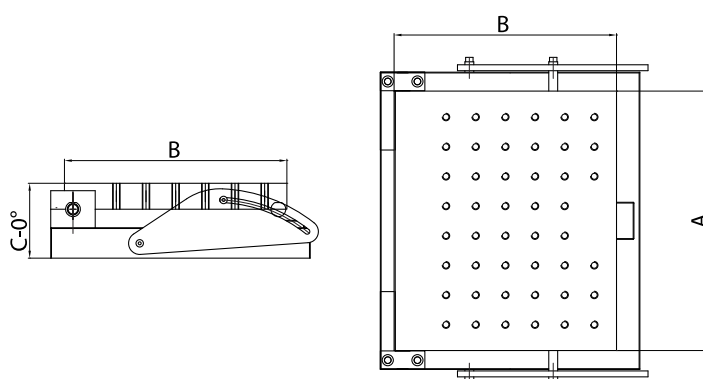


Heavy duty construction

# Sine Table without Magnetic Chuck type BSS/MILLING

Milling Drilling Machining

- Milled base body made of XC48 steel
- Swiveling on long axis from 0° to 60°
- Gauge blocks made of Z160 - hardened and precision-ground
- Equipped with M10 threaded holes in 40x40 mm grid

Angular accuracy  
± 15 secParallelism  
± 0.03/100 mm

Reference	Weight in Kg	A	B	C
12.05.300200	31,3	300	200	100
12.05.250250	32,6	250	250	100
12.05.350250	45,5	350	250	100
12.05.350300	54,7	350	300	100
12.05.400300	62,5	400	300	100
12.05.600400	124,9	600	400	100
12.05.800400	166,5	800	400	100
12.05.500500	130,0	500	500	110
12.05.800500	208,0	800	500	120



Heavy duty construction / Low height



OPTIONS

Elevating device

T slots

# Precision Magnetic Sine Table type EPEFINE/SS

Grinding EDM Metrology

- Steel base body hardened to 60 HRC and precision ground
- Highest accuracy
- Swiveling on long axis: from 0 to 45°
- Equipped with electro-permanent magnetic chuck type EPEFINE<sup>2</sup>

Included with purchase:

- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

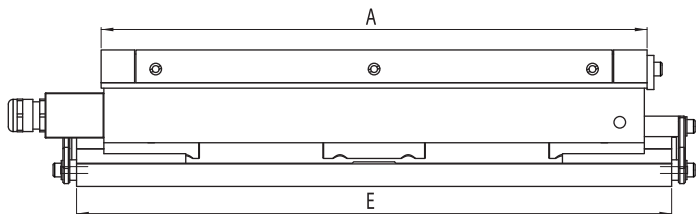
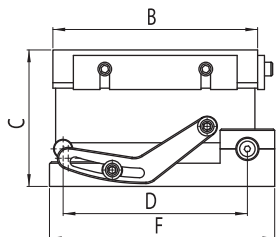
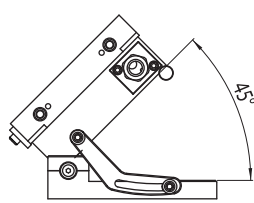


Pole pitch  
5 mm

Nominal force  
110 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D
12.07.300200	n.a.	300	200	n.a.	30A
12.07.400200	n.a.	400	200	n.a.	30A
12.07.450150	n.a.	450	150	n.a.	30A
12.07.500200	n.a.	500	200	n.a.	30A
12.07.600200	n.a.	600	200	n.a.	30A
12.07.600300	n.a.	600	300	n.a.	30A



Heavy duty construction / Waterproof construction

OPTIONS

With other magnetic  
chucks on request

Swiveling on short axis

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

Mounting slot  
in the base plate

# Precision Magnetic Sine Table type EPICA/SS

Grinding EDM Metrology

- Steel base body hardened to 60 HRC and precision ground
- Highest accuracy
- Swiveling on long axis: from 0 to 45°
- Equipped with electro-permanent magnetic chuck type EPICA

Included with purchase:

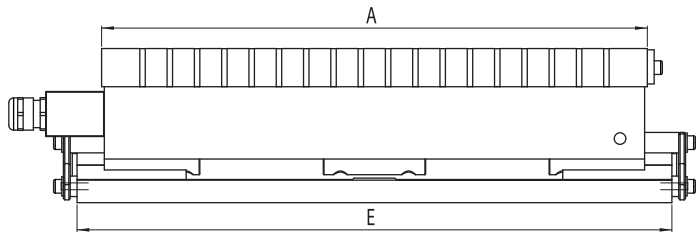
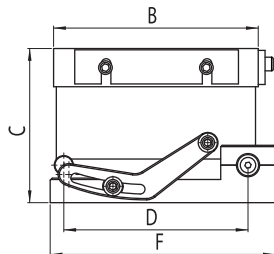
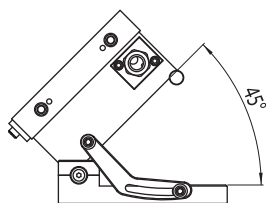
- 3, 6 or 10 meter long cable (length to be chosen) on the short side
- Long and short side end stops
- Clamps

Pole pitch  
13 mm

Nominal force  
110 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
5 mm



Reference	Weight in Kg	A	B	C	D
12.07.300200	n.a.	300	200	n.a.	30A
12.07.400200	n.a.	400	200	n.a.	30A
12.07.450150	n.a.	450	150	n.a.	30A
12.07.500200	n.a.	500	200	n.a.	30A
12.07.600200	n.a.	600	200	n.a.	30A
12.07.600300	n.a.	600	300	n.a.	30A



Heavy duty construction / Waterproof construction

OPTIONS

With other magnetic  
chucks on request

Swiveling on short axis

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli

Mounting slot  
in the base plate



## Single Sine Table with EDM Magnetic Chuck type EDM/SS

### EDM

- With standard permanent magnetic chuck type EDM
- Steel base body hardened to 60 HRC
- Precision-ground surface for highest accuracy
- Swiveling on long axis: from 0 to 45°

#### Included with purchase:

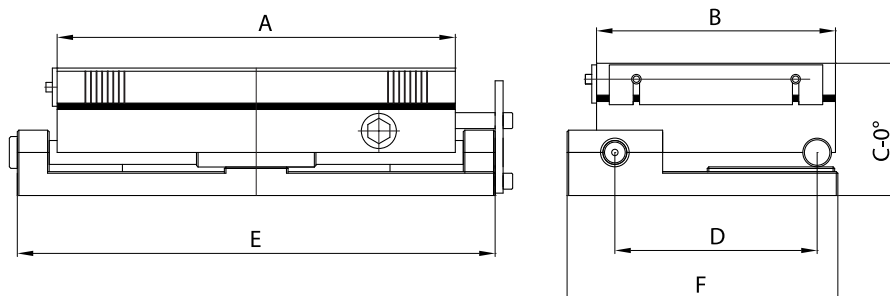
- 1 Actuating key
- End stops
- Table of sines

Pole pitch  
2 mm

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm

Magnetic field  
height  
4 mm



Reference	Weight in Kg	A	B	C	D	E	F
12.08.250150	15,0	250	150	65	135	290	165
12.08.300150	20,0	300	150	65	135	340	165
12.08.300200	28,0	300	200	65	185	340	215
12.08.300300	45,0	300	300	70	285	340	340



Heavy duty construction / Waterproof construction / Low magnetic field

### OPTIONS

With other magnetic  
chucks on request

Swiveling on short axis

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli



# Permanent Magnetic Chuck fitted to Angle Plate EQ/PF2

Grinding EDM Metrology

- Magnetic chuck with NEODYMIUM (rare earth) magnets
- Parallel pole pitch with steel + brass laminations
- For vertical clamping of work pieces

Included with purchase:

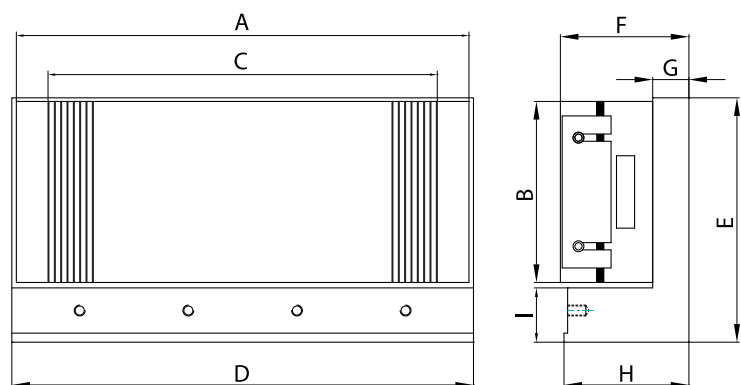
- 1 Actuating key



Pole pitch  
2 mm,  
1 mm of brass,  
1 mm of steel

Nominal force  
100 N/cm<sup>2</sup>

Admissible wear  
of top plate  
8 mm



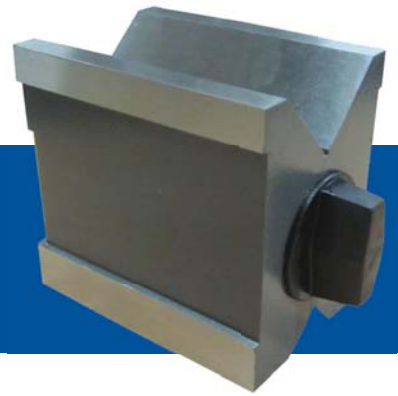
Reference	Weight in Kg	A	B	C	D	E	F	G	H	I
12.10.EQ.17575	9,7	175	75	130	180	111	67	20	65	30
12.10.EQ.175100	13	175	100	130	180	136	67	20	65	30
12.10.EQ.250125	23	250	125	205	255	161	67	20	65	30
12.10.EQ.250150	27	250	150	215	255	186	67	22	65	30



High holding power / Waterproof construction

With other magnetic chucks  
on request

Part of palletizing system: Erowa,  
3R, Hirschmann, Vischer & Boli



# Permanent Magnetic Vee Block type VM10

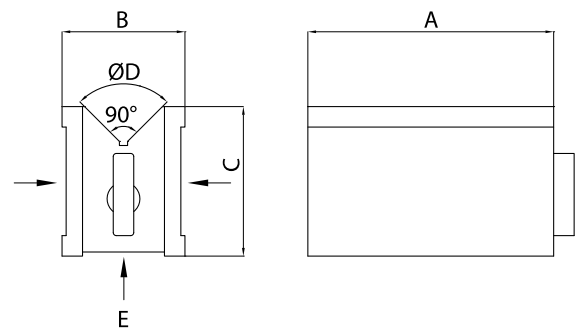
Grinding Metrology Positioning

- 5 active faces (vee, sides, bottom, rear)
- Stable construction
- With integrated ON/OFF switch

Included with purchase:

- Delivery in pairs (Article no. + "P")
- Single piece delivery (Article no.)
- Hardened execution (Article no. + "T")
- Hardened execution, in pairs (Article no. + "TP")

Parallelism  
0.04 mm



Reference	Weight in Kg	A	B	C	D	E
13.31.68	1,4	68	50	60	Ø45	30daN
13.31.68P	2,8	68	50	60	Ø45	30daN
13.31.100	8,4	100	70	95	Ø70	60daN
13.31.100T	8,4	100	70	95	Ø70	60daN
13.31.100P	16,8	100	70	95	Ø70	60daN
13.31.100TP	16,8	100	70	95	Ø70	60daN



Heavy duty construction



## PRECISION V BLOCKS

REF 13.32

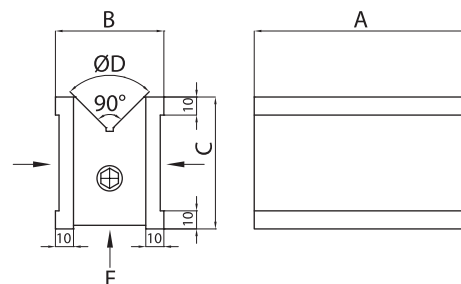
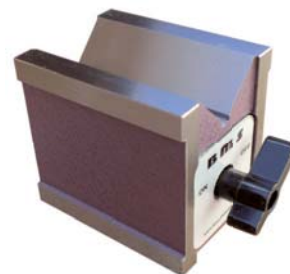
# Permanent Magnetic Vee Block type VM20

Grinding EDM Metrology Positioning

- 3 active faces (vee, bottom, rear)
- Stable construction
- With integrated ON/OFF switch

Included with purchase:

- Delivery in pairs (Article no. + "P")
- Single piece delivery (Article no.)



Reference	Weight in Kg	A	B	C	D	E	F = Parallelism
13.32.80	2,0	80	60	73	Ø8-50	30daN	0,01 mm
13.32.125	3,0	125	60	73	Ø8-50	45daN	0,015 mm
13.32.180	4,5	180	60	73	Ø8-50	70daN	0,03 mm



Heavy duty construction / Waterproof construction

## PRECISION V BLOCKS

REF 13.33

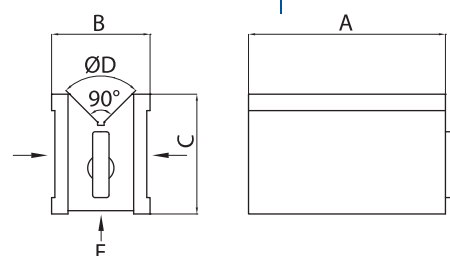
# Permanent Magnetic Vee Block type VM30

Grinding EDM Metrology Positioning

- 5 active faces (vee, sides, bottom, rear)
- Precise construction
- With integrated ON/OFF switch

Included with purchase:

- Delivery in pairs (Article no. + "P")
- Single piece delivery (Article no.)



Reference	Weight in Kg	A	B	C	D	E
13.33.100P	8,0	100	70	96	Ø 6-70	120daN
13.33.100T	4,0	100	70	96	Ø 6-70	120daN
13.33.100TP	8,0	100	70	96	Ø 6-70	120daN
13.33.80	3,0	80	67	96	Ø 6-66	90daN
13.33.80T	3,0	80	67	96	Ø 6-66	90daN
13.33.80TP	6,0	80	67	96	Ø 6-66	90daN
13.33.100	4,0	100	70	96	Ø 6-70	120daN
13.33.80P	6,0	80	67	96	Ø 6-66	90daN



Heavy duty construction / Waterproof construction

## PRECISION V BLOCKS

REF 13.35

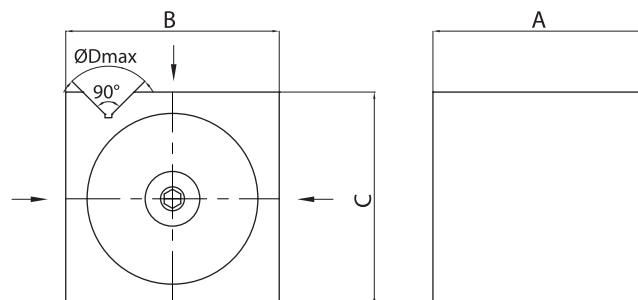
# Permanent Magnetic Block type VM110

Grinding EDM Machining Positioning

- 4 active faces (vee, top, 2 sides)
- Stable construction, can be used with coolant
- Vees in X and Y axes
- ON/OFF switch

Included with purchase:

- A= 80/125/180 = with removable Allen key (13.35.xx)
- A= 100/150 = with integrated actuating key (13.35S.xx)



Reference	Weight in Kg	A	B	C	D	E
13.35.80	3,5	80	80	80	Ø08-25	12daN
13.35.125	14,0	125	125	125	Ø10-38	30daN
13.35.180	37,0	180	180	180	Ø14-50	40daN
13.35S.100	6,3	100	100	100	Ø26	30daN
13.35S.150	21,3	150	150	150	Ø32	60daN



Heavy duty construction / Waterproof construction

## PRECISION V BLOCKS

REF 13.37

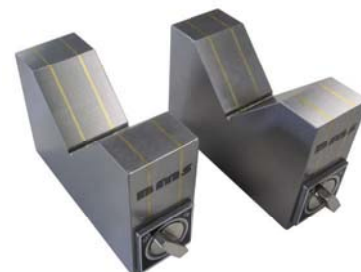
# Narrow Magnetic Vee Blocks type VM100

Grinding EDM Metrology Positioning

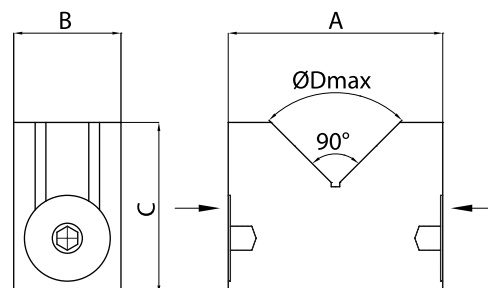
- 3 active faces (vee, front, rear)
- Stable construction
- With integrated ON/OFF switch

Included with purchase:

- Delivered in pairs



Parallelism  
0.01-0.02 mm



Reference	Weight in Kg	A	B	C	D	E	F
13.37.70	2,0	70	40	50	Ø50	15daN	0,01
13.37.100	6,0	100	50	80	Ø80	20daN	0,015
13.37.150	10,0	150	50	100	Ø125	23daN	0,02



Heavy duty construction / Waterproof construction

# Narrow Magnetic Vee Blocks type VM130

Grinding EDM Metrology Positioning Mounting

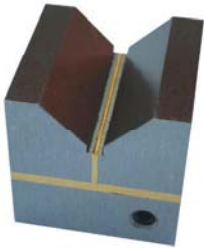
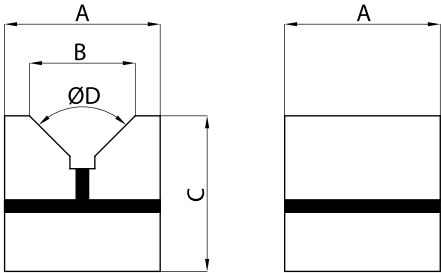
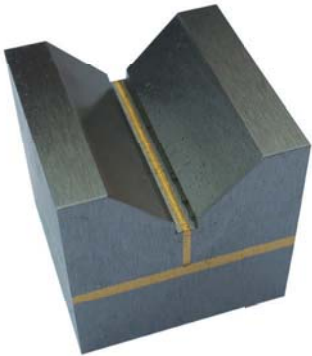
- Magnetic vee blocks with ON/OFF switch
- Active surfaces inside the Vee

Included with purchase:  
- Delivered in pairs

Reference	Weight in Kg	A	B	C	D	E = Force
13.38.20	0,1	20	12	20	Ø15	1 daN
13.38.25	0,13	25	15	25	Ø20	2 daN
13.38.32	0,24	32	20	32	Ø25	5 daN



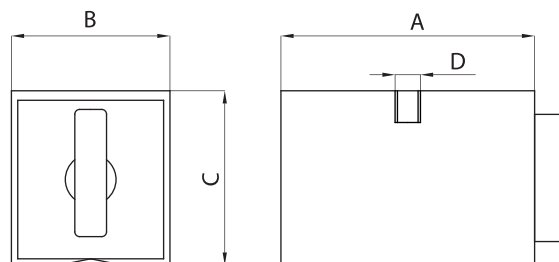
High holding power / Heavy duty construction



## Permanent Magnetic Base type MSB

Positioning Mounting

- Magnetic base with ON/OFF switch
- 2 active faces (vee + rear face)



Reference	Weight in Kg	A	B	C	D	E
13.24.60	1,0	60	50	55	M8	80daN
13.24.80	1,4	80	50	55	M8	100daN
13.24.120	2,0	120	50	55	M8	160daN
13.24.70.B	1,3	70	49	57	M8	50daN
13.24.100.B	1,8	100	49	57	M10	90daN

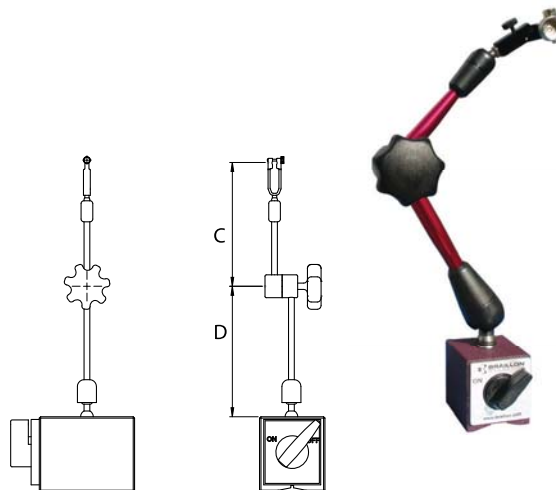


Heavy duty construction

## Permanent Magnetic Base with Dial Indicator type MSC

Grinding Milling Metrology

- Magnetic base for dial indicator
- ON/OFF switch
- Hydraulic position locking system
- Highest quality



Reference	Weight in Kg	A	B	C	D
13.26.MSS	1,7	70x48x55	850 N	12x185	8x165
13.26.MSC80	1,7	70x48x55	850 N	108	108
13.26.MSC140	2,4	100x48x55	1500 N	146	150

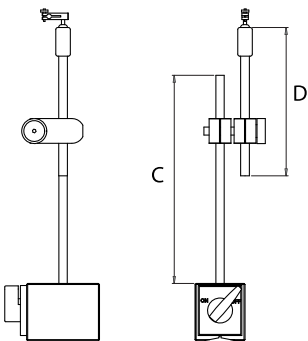


Heavy duty construction

# Permanent Magnetic Base for Dial Indicator type MSR

Grinding Milling Metrology

- Magnetic base for dial indicator
- ON/OFF switch
- Highest quality



Reference	Weight in Kg	A	B	C	D
13.26.MSR	2,3	68x53x60	1000 N	16x260	16x225



Heavy duty construction

# Dial Indicator Permanent Magnetic Stand type MSG

Grinding Milling Metrology

- Shock resistant dial indicator, according to DIN 878
- 2 adjustable tolerance marks
- Outer ring diam. 58 mm
- 8 mm diameter h6 clamping shaft
- Measuring shaft made of stainless steel
- Measuring range: 0-10 mm, accuracy: 0.01 mm
- Supplied in plastic box

Included with purchase:

- Magnetic stand
- Dial Gauge



Reference	Weight in Kg	A	B	C	D	E	F
13.26.N96.1	2,5	70x46x65	60	285	180	16	16
13.26.N96.2	5,0	75x60x80	80	500	180	20	16

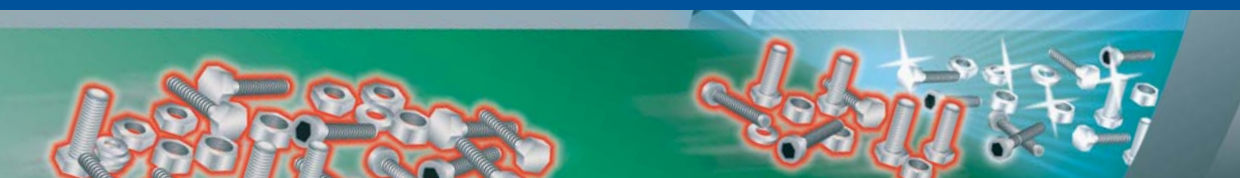


Heavy duty construction / Waterproof construction





# DEMAGNETIZATION AND MEASUREMENT



<b>DEMAGNETIZER TABLE</b>	PAGE 98
<b>DEMAGNETIZER TUNNEL</b>	PAGE 101
<b>DEMAGNETIZER AUTOMATIC</b>	PAGE 103
<b>MEASUREMENT DEVICES</b>	PAGE 104

## DEMAGNETIZER TABLE

REF 16.01



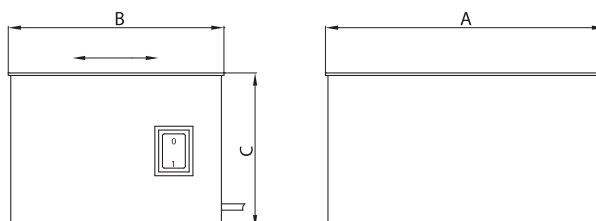
# Plate Demagnetizer type DM3,DM4,DM5

## Demagnetization

- Extremely efficient automatic adjustment of magnetic field intensity depending on work piece size
- Use for up to 50 mm thick work pieces
- For bigger work pieces we recommend using tunnel demagnetizers
- Coil protected by aluminium housing
- During the demagnetization cycle the work piece should be moved at low and constant speed through the alternative field of demagnetizer (recommended speed: 0.05 to 0.2 m/sec.)

Included with purchase:

- ON/OFF switch
- 1.5 meter long cable



Reference	Weight in Kg	A	B	C	D = Power
16.01.220	11,0	250	165	75	700VA
16.01.280	18,0	280	266	75	700VA
16.01.400	24,0	400	300	75	700VA



Heavy duty construction

## DEMAGNETIZER TABLE

REF 16.03.TOOL



# Hand Demagnetizer type DEM-OUTIL

## Demagnetization

- Compact and light construction for easy handling
- For demagnetization of long and thin work pieces or tools up to 40 mm diameter, like drills, milling cutters, reamers, files
- ON/OFF switch

Absorbed power  
176 W

Voltage  
230 VAC

Duty cycle  
25 %

Reference	Weight in Kg	A	B	C
16.03.TOOL	0,95	230	90	40



Heavy duty & compact construction



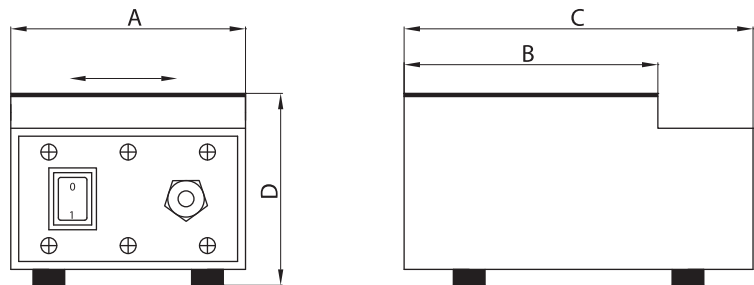
# Reinforced Plate Demagnetizer type DP

## Demagnetization

- Extremely efficient automatic adjustment of magnetic field intensity depending on work piece size
- Reinforced system for up to 50 mm thick work pieces
- For bigger work pieces we recommend tunnel demagnetizers
- Maximum working temperature 45°C
- Coil protected by aluminium housing
- Protection class IP54
- During the demagnetization cycle the work piece should be moved at low and constant speed through the alternative field of demagnetizer (recommended speed: 0.05 to 0.2 m/sec.)

### Included with purchase:

- ON/OFF switch
- 1.5 meter long cable
- Fixing holes



Reference	Weight in Kg	A	B	C	D	E = Power	F	G	H
16.02.160	22,0	148	238	278	121	850VA	IP 54	230VAC	160
16.02.250	30,0	148	328	368	121	1380VA	IP 54	230VAC	250
16.02.400	46,0	148	478	518	121	2050VA	IP 54	230VAC	400
16.02.400.400	57,0	166	518	553	148	2860VA	IP 65	400VAC	400
16.02.500.400	67,0	166	618	653	148	3600VA	IP 65	400VAC	500
16.02.600.400	80,0	166	718	753	148	4420VA	IP 65	400VAC	600
16.02.650.400	88,0	166	768	803	148	4700VA	IP 65	400VAC	650
16.02.700.400	92,0	166	818	853	148	5000VA	IP 65	400VAC	700
16.02.800.400	105,0	166	918	953	148	5600VA	IP 65	400VAC	800
16.02.900.400	117,0	166	1018	1053	148	6300VA	IP 65	400VAC	900
16.02.1000.400	130,0	166	1118	1153	148	7000VA	IP 65	400VAC	1000



Heavy duty construction / Innovative

## OPTIONS

Other sizes on request

Other voltages  
on request

Low frequency generator for  
demagnetization of difficult work  
pieces

Automatic demagnetization  
systems

## DEMAGNETIZER TABLE

REF 16.03.M1

# Hand Demagnetizer type DEM-M1

## Demagnetization

- For manual handling
- Heavy duty construction with double demagnetizing cycle for long-lasting durability
- Coils incorporated inside cast aluminium housing
- Safety handle
- ON/OFF switch

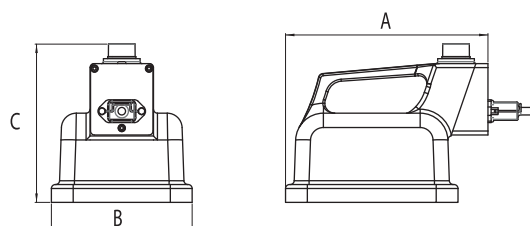
Included with purchase:

- 1.5 meter long cable



Voltage  
230 VAC

Duty cycle  
50 %



Reference	Weight in Kg	A	B	C	D	E	F = Magnetic field height
16.03.M1	5,8	200	145	150	250 VA	320 kA/m	50 mm



Heavy duty construction / Effective

## DEMAGNETIZER TABLE

REF 16.03.HD

# Hand Demagnetizer type DEM-HD1 & HD2

## Demagnetization

- Coil protected by aluminium housing
- ON/OFF switch
- Heavy duty handle

Included with purchase:

- 1.5 meter long cable



Voltage  
230 VAC

Duty cycle  
50 %

Reference	Weight in Kg	A	B	C	D = Magnetic field height
16.03.HD1	1,9	105	75	200VA	20 mm
16.03.HD2	2,2	105	95	220VA	40 mm



Heavy duty construction

## OPTIONS

Other voltages on request

# Tunnel Demagnetizer type T



## Demagnetization

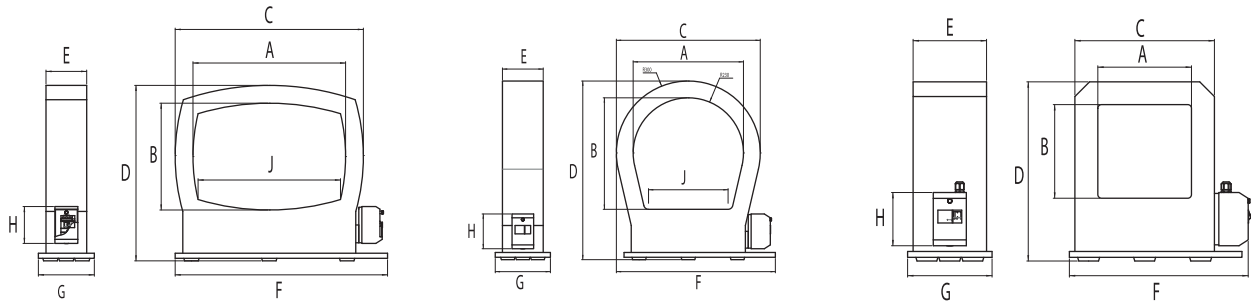
- Designed for continuous operation cycle
- Coil encapsulated in a high performance epoxy resin
- Extremely stable construction
- During the demagnetization cycle the work piece should be moved at low and constant speed through the alternative field of demagnetizer (recommended speed: 0.05 to 0.2 m/sec.)

Included with purchase:

- ON/OFF switch, fuses and control leds

Voltage  
230/400 VAC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F	G	H
16.04.T1.400	55	180	180	310	432	200	434	230	150
16.04.T2.400	70	255	255	380	488	200	470	230	150
16.04.T4.400	95	460	465	600	731	170	631	230	150
16.04.T5.400	115	600	420	740	676	160	835	220	150
16.04.T1.230	55	180	180	310	432	200	434	230	150
16.04.T2.230	70	255	255	380	488	200	470	230	150
16.04.T4.230	95	460	465	600	731	170	631	230	150
16.04.T5.230	115	600	420	740	676	160	835	220	150



Heavy duty construction / Waterproof construction

## OPTIONS

Other sizes on request

Low frequency generator for demagnetization of difficult work pieces

Automatic demagnetization systems with conveyor belt or rollers

# Tunnel Demagnetizer type DT

## Demagnetization

- Designed for continuous operation cycle
- Coil encapsulated in a high performance epoxy resin
- Extremely stable construction
- During the demagnetization cycle the work piece should be moved at low and constant speed through the alternative field of demagnetizer (recommended speed: 0.05 to 0.2 m/sec.)

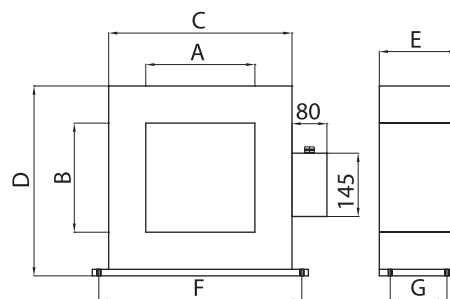
### Included with purchase:

- ON/OFF switch, fuses and control leds



Voltage  
230/400 VAC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F	G	H = Power
16.04.150100	40,0	150	100	320	282	150	358	110	230 V AC
16.04.260130	48,0	260	130	430	315	165	475	115	230 V AC
16.04.250250	73,0	250	250	420	435	180	470	130	230 V AC
16.04.400200	120,0	400	200	570	385	230	595	150	230 V AC
16.04.400350	142,0	400	350	570	535	230	595	150	230 V AC
16.04.400400	159,0	400	400	570	585	350	580	150	400 V AC
16.04.550550	190,0	550	550	720	735	350	760	240	400 V AC
16.04.750550	230,0	750	550	920	735	350	960	240	400 V AC



Heavy duty construction / Waterproof construction

## OPTIONS

Other sizes on request

Low frequency generator for demagnetization of difficult work pieces

Automatic demagnetization systems with conveyor belt or rollers



# Low Frequency Generator

## Demagnetization

• Low frequency generator for tunnel demagnetizer type DT

• Explanation table:

S1 = without regulation knob, controlled by computer or by automation

S2 = with regulation knob, frequency is adjusted manually

• Power choke to be ordered separately:

16.20.start.3450-6000 = power choke for 3450 or 6000 Watt

16.20.start.6900-12000 = power choke for 6900 or 12000 Watt

Included with purchase:

- Article 16.20.3450.230 + 16.20.6000.400 + 16.20.6900.230 + 16.20.12000.400 in steel cabinet 180x360x90 mm, IP65

Reference	Weight in Kg	A	B	C
16.20.3450.230	5,0	IP 20	15A	230V
16.20.3450.S1.230.C	5,0	n.a.	15A	230V
16.20.3450.S2.230.C	5,0	n.a.	15A	230V
16.20.6000.400	5,0	IP20	15A	400V
16.20.6000.S1.400.C	5,0	n.a.	15A	400V
16.20.6000.S2.400.C	5,0	n.a.	15A	400V
16.20.6900.230	5,0	IP20	30A	230V
16.20.6900.S1.230.C	5,0	n.a.	30A	230V
16.20.6900.S2.230.C	5,0	n.a.	30A	230V
16.20.12000.400	5,0	IP20	30A	400V
16.20.12000.S1.400.C	5,0	n.a.	30A	400V
16.20.12000.S2.400.C	5,0	n.a.	30A	400V

## MEASUREMENT DEVICES

REF 16.06.HG

# Tesla-meter with hall effect probe type HGMs



### Control magnetic field

- Use in Gauss, Tesla, Ka/cm, A/cm
- 1 hall effect probe, battery, instruction manual

Parallelism  
0.04 mm

Accuracy  
± 5%

Working Temperature  
-10° to 40 °C

Measure range  
0 to 30000 Gauss

Mini value  
0,01 G

Reference	Weight in Kg	A	B	C
16.06.HG	0,25	145	80	40



Safe / Effective

## MEASUREMENT DEVICES

REF 16.10

# Electronic Polarity Tester type TPE



### Metrology Control magnetic field

- Dimensions: 143x22x19 mm
- Weight 31 gr
- 2 LED's: Green=South and Red = North
- Sensitivity: +/- 15 mT
- Battery: 4x1,5 V

Reference	Weight in Kg
16.10.	0,031

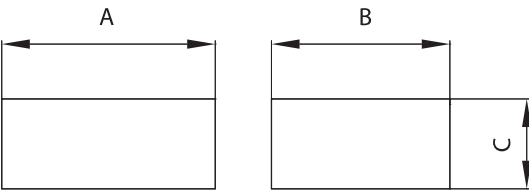




# Digital Mini-Gaussmeter type GM DIGIT

Control magnetic field

- Liquid crystal display
- Low battery warning
- ON/OFF switch
- Zero gauss adjustment
- Readings are not affected by nearby magnetic fields
- 0-199.9 gauss measuring range
- Accuracy:  $\pm 2\%$  or 1 gauss
- 0.1 gauss resolution
- Operating temperature: 0 to 40° C
- Automatic return to stand by position



Reference	Weight in Kg	A	B	C
16.07	0,15	63.5	76	32



Innovative

# Analogue Mini Gaussmeter

Control magnetic field

- 0-20 gauss measuring range
- Accuracy: 1 gauss per 10 gauss
- Dimensions: D = 53 mm, H = 22 mm



Reference	Weight
16.07R	55g





# LIFTING MAGNETS

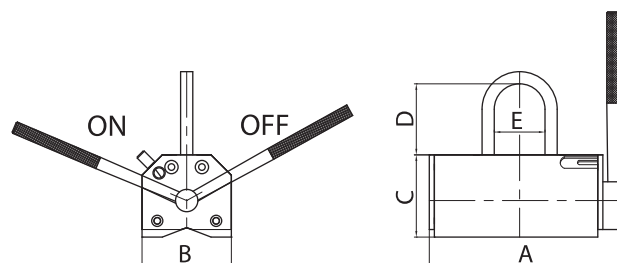


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# Permanent Lifting Magnet type BHP

Lifting Handling

- Easy to handle permanent lifting magnets for use in various applications
- For handling of ferrous material loads
- Smooth and durable ON/OFF lever
- For use with both flat and round material
- Equipped with safety lock to maintain the lever in ON position
- For safe lifting and handling of ferromagnetic materials
- You can order special pole shoes adapted to your application (for example: 20.01+HT/ 20.01+CY/ 20.01+RA/ 20.01+RO/ 20.01+TV/ 20.01+BA/ 20.01+SPE)
- Maximum lifting force certificate is issued after the tests in order to ensure maximum safety when using the magnets with special pole shoes
- BHP magnets are manufactured and certified in Germany



Reference	Weight in Kg	A	B	C	D	E	Holding force flat/round	Mini thickness force 100%	Diameter
20.01.N100	4,0	125	68	70	54	40	100/50daN	15	Ø 30-200
20.01.N250	9,5	191	98	87	70	50	250/125daN	25	Ø 30-180
20.01.N500	13,0	255	98	87	70	50	500/215daN	30	Ø 30-180
20.01.N1000	31,5	321	140	109	105	65	1000/450daN	50	Ø 200-600
20.01.2000	85,0	440	180	180	125	60	2000/800daN	60	Ø 200-400
20.01.3000	175,0	545	225	215	150	75	3000/1200daN	60	Ø 200-400
20.01.5000	490,0	565	370	221	150	80	5000/2400daN	80	Ø 200-400



Safety factor of more than 3:1 / Low sensibility to airgap / According to EN13155 standard



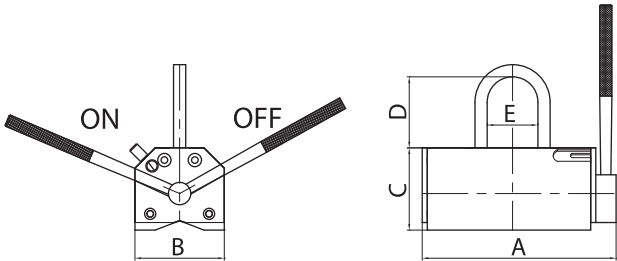
## OPTIONS

Special pole shoes  
for elements with  
complex geometryBeam for several lifting  
magnetsON/OFF integration  
for automation

# Permanent Lifting Magnet type BHP-HT

Lifting   Handling  

- BHP-HT lifting magnets can operate in high temperatures up to 250°C
- Safe lifting and handling of ferromagnetic loads
- For use with both flat and round materials
- Smooth and durable ON/OFF lever
- Equipped with safety lock to maintain the lever in ON position



Reference	Weight in Kg	A	B	C	D	E	Holding force	Material thickness	min. - max. Diameter
20.01.HT.200	9,5	191	98	87	70	50	200/80daN	25	Ø 30-180
20.01.HT.400	13,0	255	98	87	70	50	400/175daN	30	Ø 30-180



Safety factor of more than 3:1 / Heavy duty & compact construction / According to EN13155 standard

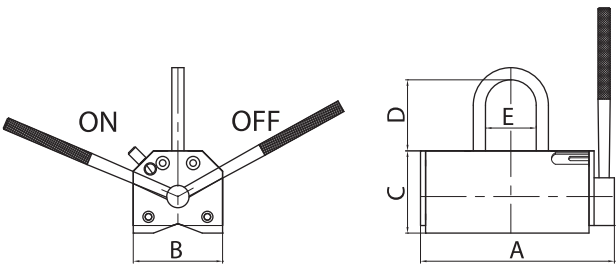
OPTIONS

Special pole shoes  
for loads with complex  
geometry

# Permanent Lifting Magnet type BHP-TF

Lifting Handling

- Specially designed for lifting of thin steel sheets
- Safe lifting and handling of ferromagnetic loads
- Smooth and durable ON/OFF lever
- Equipped with safety lock to maintain the lever in ON position
- BHP magnets are manufactured and certified in Germany



Reference	Weight in Kg	A	B	C	D	E	Holding force in daN	min. Material thickness in mm
20.01.TF.180	10,0	205	98	100	70	50	180	10
20.01.TF.300	15,0	276	98	100	70	50	300	15



Safety factor of more than 3:1 / No mechanical wear / According to EN13155 standard

- OPTIONS

  - Special pole shoes for elements with complex geometry
  - Beam for several lifting magnets
  - ON/OFF integration for automation

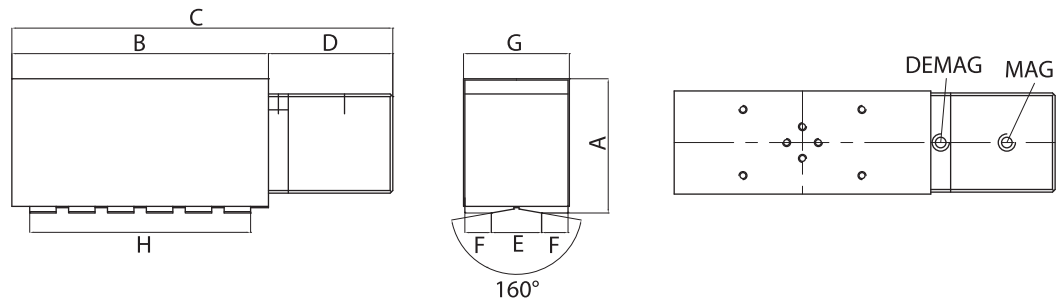
# Pneumatically Operated Permanent Lifting Magnet type BHP-PN

Lifting Handling

- Very high holding force, ideal for robot systems
- Permanent magnetic system with NEODYMIUM (rare earth) magnets
- Pneumatically operated, without electric current
- Safety factor of 3
- For use with both flat and round material
- Required air pressure: 6 bar, time of switching on/off: 300 ms
- Maximum operating temperature 80°C

Included with purchase:

- Mounting threaded holes



Reference	Weight in Kg	A	B	C	D	E	F	G	H
20.09.200.PN	10	102	194	288	94	35	20	75	167
20.09.400.PN	28	129	224	319	95	53	36	125	197



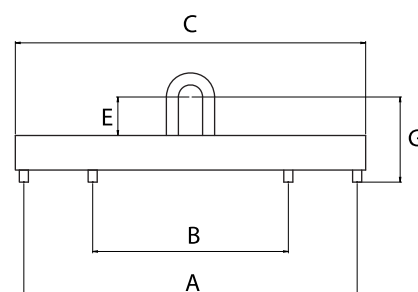
High holding power / Effective / Heavy duty & compact construction



# Lifting Beam with 2 Hooks

## Lifting Handling

- Hook distance adjustment with top handles every 100 mm
- 2 turning hooks with safety locks
- Anticorrosive paint
- Capacity 1 - 10 T
- Length from 2 to 5 m



Reference	Weight in Kg	A	B	C	D	E	F	G	H
20.99.2R.1000.2M	64	2000	1000	2100	60	80	100	510	1000 kg
20.99.2R.1000.3M	100	3000	1000	3100	60	80	100	530	1000 kg
20.99.2R.1000.4M	127	4000	2000	4100	60	80	100	530	1000 kg
20.99.2R.2000.2M	77	2000	1000	2100	80	120	100	470	2000 kg
20.99.2R.3000.2M	105	2000	1000	2150	100	180	100	580	3000 kg
20.99.2R.4000.2M	120	2000	1000	2150	100	180	100	650	4000 kg
20.99.2R.5000.2M	135	2000	1000	2150	100	180	100	670	5000 kg
20.99.2R.6000.2M	165	2000	1000	2200	100	180	100	690	6000 kg
20.99.2R.8000.2M	195	2000	1000	2200	100	180	100	770	8000 kg
20.99.2R.10000.2M	220	2000	1000	2200	100	180	100	790	10000 kg



Heavy duty construction / Safe / Effective

## OPTIONS

Other sizes on request



# Electro-permanent Lifting Magnet type PEP



## Lifting Handling

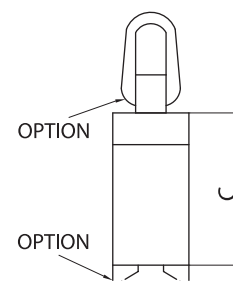
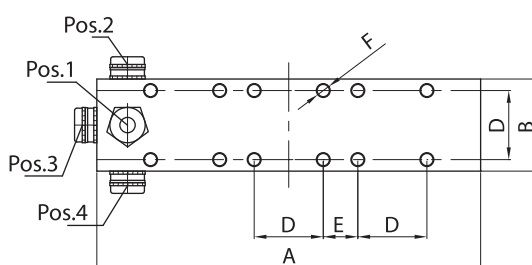
- For handling of flat and round material
- Very high clamping force, watertight construction
- Safety factor of 3
- Electro-permanent system

Included with purchase:

- Threaded holes for lifting lugs

Voltage  
195 / 340 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F	G
20.06.200	7,0	150	60	143	45	-	4xM8	200daN
20.06.250	8,0	170	60	143	45	-	4xM8	250daN
20.06.300	11,0	210	60	143	45	-	4xM8	300daN
20.06.500L	18,0	300	60	143	45	-	4xM8	500daN
20.06.500	18,0	200	100	135	75	-	4xM8	540daN
20.06.700	26,0	300	100	135	75	-	4xM8	730daN
20.06.800	30,0	350	100	135	75	-	4xM8	830daN
20.06.1000	41,0	450	100	135	75	57,5	12xM10	1020daN
20.06.2000	180,0	500	200	255	75	-	-	2100daN
20.06.2500	215,0	600	200	255	75	-	-	2500daN
20.06.3000	290,0	800	200	255	75	-	-	3400daN
20.06.4000	360,0	1000	200	255	75	-	-	4300daN
20.06.5000	430,0	1200	200	255	75	-	-	5200daN



Heavy duty construction / Safe / Effective



## OPTIONS

Lifting lugs

Other sizes on request

Other voltages on request

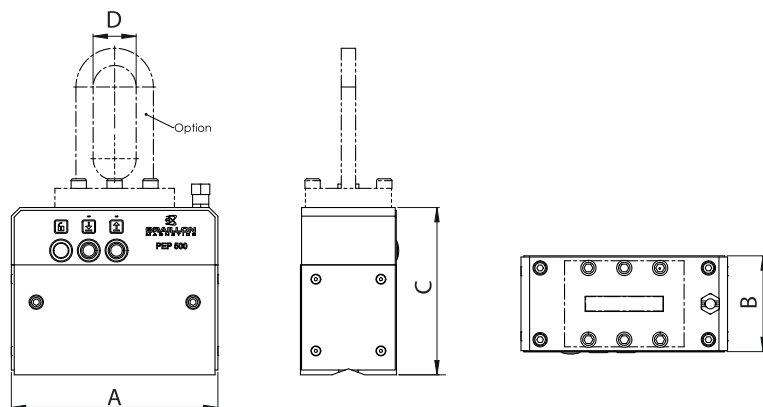
# Electro-permanent Lifting Magnet type PEPi

Lifting Handling

- For handling of flat and round material
- Very high clamping force
- Safety factor of 3
- Electro-permanent system with integrated control unit
- Easy to install: only 230 VAC connection required

Included with purchase:

- Industrial spiral cable: 1000 - 4000 mm
- Lifting lug



Reference	Weight in Kg	A	B	C	D	Holding force
20.06.500.230AC	22	210	100	210	45	500 daN
20.06.800.230AC	30	300	100	210	45	800 daN
20.06.1000.230AC	45	450	100	210	45	1000 daN



High holding power / Heavy duty construction / Safe / Effective / According to EN13155 standard



OPTIONS

Other sizes on request

Other voltages on request

# Electro-Permanent Lifting Magnet for Robots

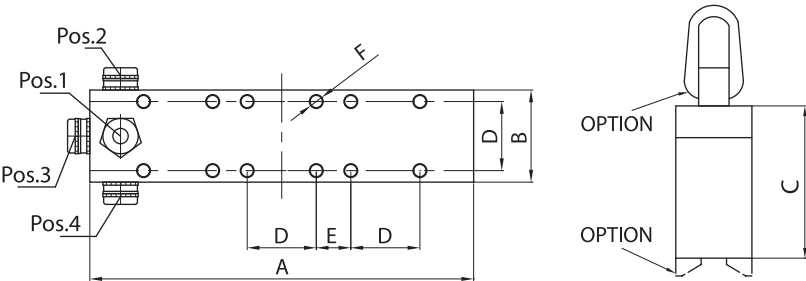
Lifting Handling

- Sturdy housing made of steel and aluminium
  - Safety factor of 3
- Included with purchase:
- Mounting threads holes on the top
  - 3 meter long cable



Voltage  
195 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F	G
20.06ROB.250	7,0	170	60	143	150	100	45	250daN
20.06ROB.500	18,0	210	100	143	200	115	75	500daN



High holding power / Innovative / According to EN13155 standard

# Electro-Permanent Lifting Magnet type SQUAREMAG LIFT

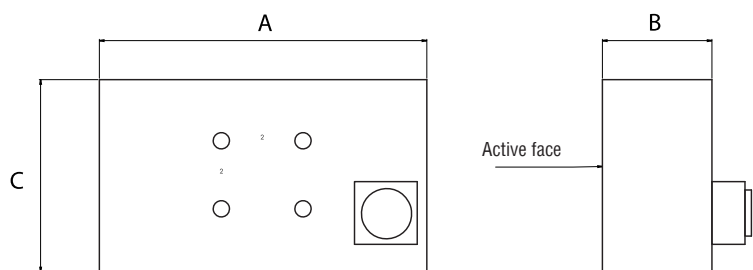
Lifting Handling

- For lifting of flat elements
- Very high clamping force, watertight construction
- Safety factor of 3
- Electro-permanent magnetic system with square poles

Included with purchase:

- Mounting threaded holes on the top

Max.  
temperature of use  
100°C



Reference	Weight in Kg	A	B	C	D
20.17.180180	18	180	180	100	400daN
20.17.180240	24	180	240	100	600daN
20.17.240240	33	240	240	100	1000daN
20.17.180420	47	180	420	100	1250daN
20.17.240540	73	240	540	100	2500daN
20.17.240810	110	240	810	100	4000daN



High holding power / Safe / Effective / Heavy duty & compact construction / According to EN13155 standard



OPTIONS

Other sizes on request



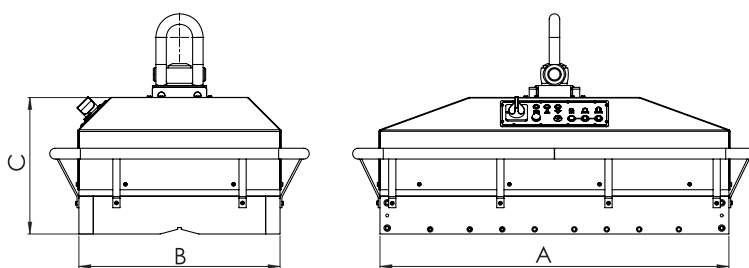
## Battery-Operated Electro-Permanent Lifting Magnet type PEP-B

Lifting Handling

- Electro-permanent system with NEODYMIUM magnets
- With safety contact to prevent from unwanted demagnetization when the magnet is still hanging on the hook
- ON/OFF switch
- Battery capacity: 8 hours
- Controlled with 3 push buttons integrated into the magnet: MAG/ DEMAG/ RELEASE

Included with purchase:

- External charger
- Radio remote control with 3 integrated buttons: MAG/ DEMAG/ RELEASE
- 4 monitoring LEDs for: MAG/ DEMAG/ BATTERY STATUS/ BATTERY LOADING



Reference	Weight in Kg	A	B	C	D	E	F
20.16.3000	320	550	450	340	2500x3000x50	-	3000 daN
20.16.5000	480	780	450	300	3000x3500x60	-	5000 daN
20.16.8000	730	968	558	611	2700x4000x70	-	8000 daN



Heavy duty construction / Innovative / Safety factor of more than 3:1 / According to EN13155 standard / According to VDE, CEE standards



# Electro-Permanent Lifting Magnet type EPN

Lifting Handling

- For lifting of blocks or plates
- With Vee for round material lifting
- With safety sensor to prevent unwanted demagnetization
- Controlled through integrated buttons, protected, very sturdy construction

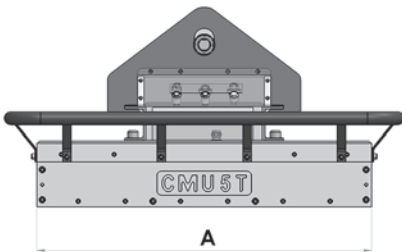
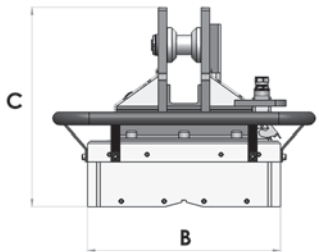
Included with purchase:

- Built-in control unit
- Connector with 6 meter long cable

Max.  
temperature of use  
80°C

Voltage  
400 VDC

Duty cycle  
100



Reference	Weight in Kg	A	B	C	D
20.18.3000	300	550	450	300	3000 daN
20.18.5000	480	780	450	300	5000 daN
20.18.8000	460	950	530	700	8000 daN



High holding power / Twin magnetic system / Long service life / Safe / Safety factor of more than 3:1





# Electro-Permanent Lifting Magnet type EPR

Lifting Handling



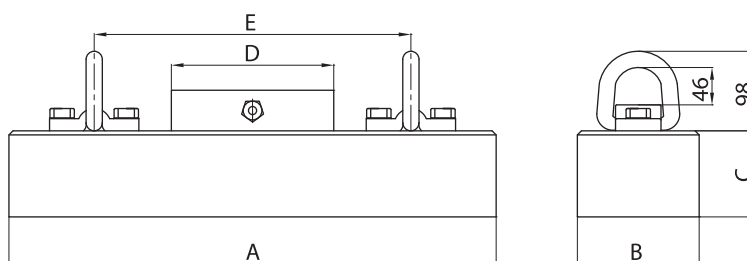
- For handling of flat material
- Very high clamping force
- Electro-permanent magnetic system

Included with purchase:

- Mounting threaded holes

Voltage  
340 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F
20.07.400150	47,0	400	150	110	130	270	420daN
20.07.500150	59,0	500	150	110	130	370	560daN
20.07.600150	70,0	600	150	110	130	380	700daN
20.07.800150	94,0	800	150	110	200	500	940daN
20.07.1000150	117,0	1000	150	110	200	700	1190daN
20.07.1200150	140,0	1200	150	110	200	700	1420daN
20.07.1500150	175,0	1500	150	110	200	900	1770daN
20.07.1800150	194,0	1800	150	110	200	900	2100daN



High holding power / Heavy duty construction / Effective / Safety factor of more than 3:1 / According to EN13155 standard

OPTIONS

Other sizes and custom designs  
available

Other voltages on request

# Electromagnetic Circular Holder type VEM

Lifting **Handling**

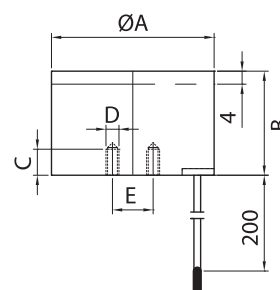
- Steel housing
- Designed for continuous operation
- Threaded mounting holes at the rear
- In order to reach the nominal holding force the work piece must cover the entire active face



Admissible wear  
of top plate  
4 mm

Voltage  
24 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E	F	G
20.20.40.PE		40	50	10	2x M5	28	30	7
20.20.50.PE		50	50	10	2x M6	32	50	8
20.20.63.PE		63	63	10	2x M8	40	80	13
20.20.80.PE		80	70	12	2x M8	50	125	17
20.20.100.PE		100	80	15	2x M10	64	220	22
20.20.125.PE		125	105	15	2x M10	80	350	35
20.20.160.PE		160	105	18	2x M12	100	600	70
20.20.180.PE		180	100	22	3x M8	64	950	95
20.20.180BC.PE		180	100	22	3x M8	64	950	95
20.20.245.PE		245	110				1500	146
20.20.300.PE		300	110	25	2x M20	80	2300	152
20.20.50.DIN43650		50	50	10	2x M6	32	50	8
20.20.63.DIN43650		63	63	10	2x M8	40	80	13
20.20.80.DIN43650		80	70	12	2x M8	50	125	17
20.20.100.DIN43650		100	80	15	2x M10	64	220	22
20.20.125.DIN43650		125	105		2x M10	80	350	35
20.20.160.DIN43650		160	105	18	2x M12	100	600	70
20.20.180.DIN43650		180	100	22	3x M8	64	950	64
20.20.180BC.DIN43650		180	100	22	3x M8	64	950	64
20.20.245.DIN43650		245	110				1500	146
20.20.300.DIN43650		300	110	25	2x M20	80	2300	152
20.20.20B		20	15				8.8	1.9
20.20.25B		25	20	3	M3	15	15	3.2
20.20.30B		30	24	4	M3	18	28	4
20.20.40B		40	27	4	M4	26	52	5.6
20.20.50B		50	30	4	M4	34	80	6.2
20.20.65B		65	35	5	M5	40	148	9.8
20.20.80B		80	38	7	M6	50	228	12.4
20.20.100B		100	43	7	M6	75	370	17



Long service life / Safe / Effective / Heavy duty & compact construction

## OPTIONS

- Other dimensions on request
- Other voltages on request
- Reinforced version

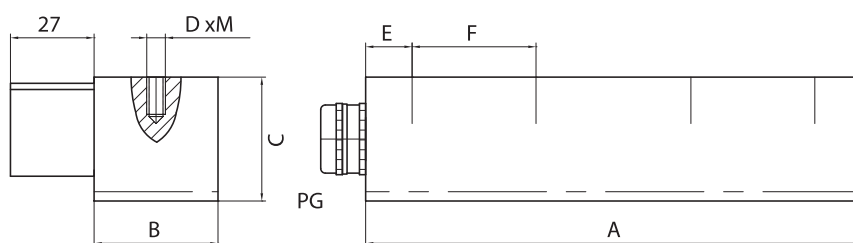




# Electromagnetic Bar type REM

Lifting Handling

- For lifting and manipulation of elements within automated systems
- Designed for continuous operation
- Cable connection through terminal or through cable screw connector
- Holding forces indicated in the table are valid for parts made of ST37 steel with a suitable thickness, covering the entire active surface with no airgap. If real conditions/properties are different it is necessary to apply the corresponding safety margin.
- Active face admissible wear depth: 4 mm

Admissible wear  
of top plate  
4 mmVoltage  
24 VDCDuty cycle  
100 %

Reference	Weight in Kg	A	B	C	D	E	F	G	H
20.21.150	1,3	150	40	40	2xM8	40	70	90daN	15W
20.21.160	1,4	160	40	40	2xM6	30	100	150daN	15W
20.21.200	1,7	200	40	40	2xM8	40	120	180daN	21W
20.21.300	2,5	300	40	40	2xM8	50	200	270daN	30W
20.21.350	2,9	350	40	40	3xM8	40	135	310daN	33W
20.21.400	3,3	400	40	40	3xM8	40	160	360daN	37W
20.21.500	4,2	500	40	40	4xM8	40	210	450daN	45W
20.21.600	5,0	600	40	40	5xM8	41	173	540daN	55W
20.21.700	5,8	700	40	40	5xM8	40	155	630daN	64W
20.21.800	6,7	800	40	40	6xM8	40	180	720daN	72W
20.21.900	7,5	900	40	40	6xM8	40	164	810daN	82W
20.21.1000	8,3	1000	40	40	7xM8	40	184	900daN	92W
20.21.1100	9,2	1100	40	32	7xM8	40	170	980daN	101W
20.21.100	0,9	100	40	40	2xM6	30	40	70daN	10w
20.21.250	2,2	250	40	40	3xM6	30	95	320daN	22w



Safe / Effective / Heavy duty &amp; compact construction



OPTIONS

Other dimensions  
on requestOther voltages  
on request

Reinforced version

# ELECTROMAGNETIC HOLDERS

REF 22.22



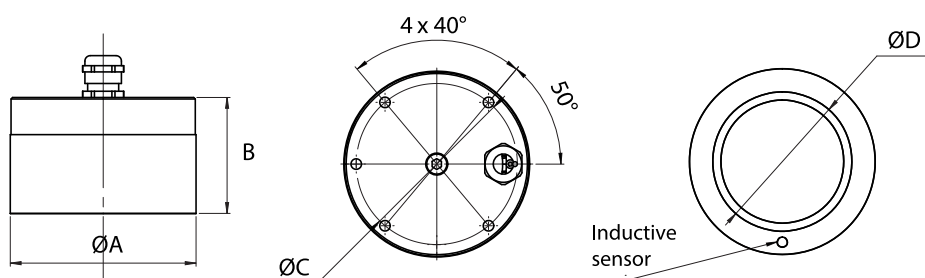
## Electro-Permanent Magnetic Holder type FUSELINK-VEP

Lifting **Handling**

- Ideal for robot cells, automation
- Electro-permanent magnetic system
- Equipped with proximity switch
- Energized by BUR control unit

Nominal force  
6500 N

Voltage  
180 VDC



Reference	Weight in Kg	A	B
22.22.120.75.EP	6,4	120	75



Long service life / Safe / Effective / Heavy duty & compact construction

# ELECTROMAGNETIC HOLDERS

REF 20.28



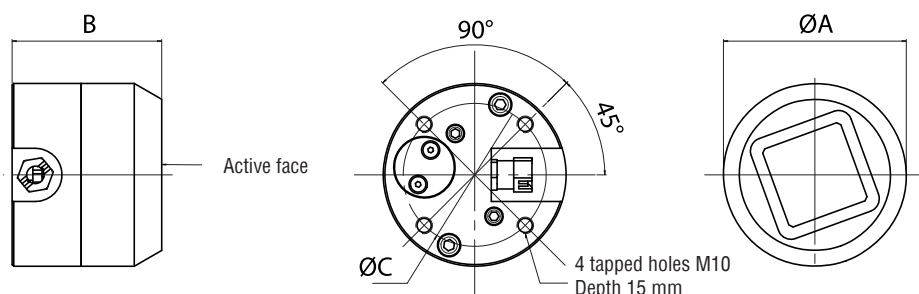
## Electro-Permanent Circular Holder type VEP-SQ

Lifting **Handling**

- Ideal for automation
- Safety factor: 3:1
- Mounting holes provided
- Operation with control unit type BUR

Nominal force  
4000 N

Voltage  
195 VDC



Reference	Weight in Kg	A	B
20.28	5,9	110	90



High holding power / Heavy duty construction / Long service life / Innovative

### OPTIONS

Special pole shoes

# Electro-Permanent Magnetic Bar type REP-R

Positioning Lifting Handling Assembly

- Suitable for round and flat material
- With NEODYMIUM magnets

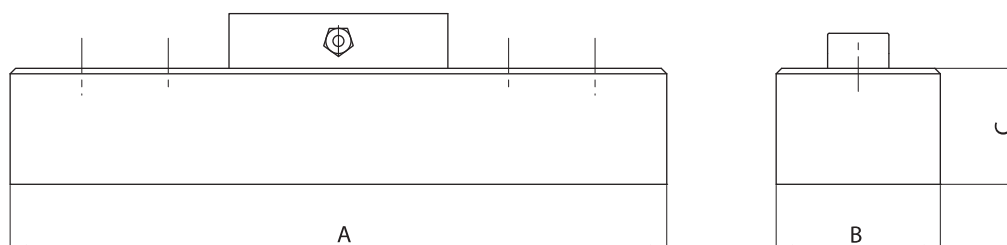
Included with purchase:

- 3 meter long cable
- M10 mounting holes

Pole pitch  
37 mm

Voltage  
340 VDC

Magnetic field  
height  
15 mm



Reference	Weight in Kg	A	B	C	D
20.29.3008070.340	12,1	300	80	70	800 daN
20.29.4008070.340	16,2	400	80	70	1000 daN
20.29.5008070.340	20,2	500	80	70	1300 daN
20.29.6008070.340	24,2	600	80	70	1600 daN
20.29.7008070.340	28,3	700	80	70	1800 daN
20.29.8008070.340	32,3	800	80	70	2000 daN



High holding power / Heavy duty construction / Waterproof construction / Long service life / Safe

## OPTIONS

Special pole shoes adapted to  
lifted load geometry

Hoisting eye

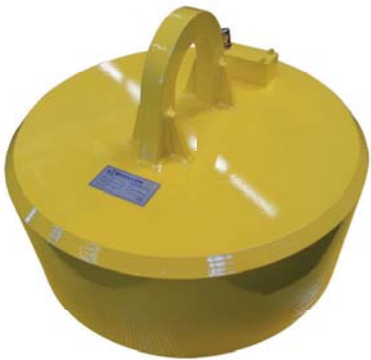
# Electromagnetic Lifter type EMC

Lifting Handling

- For lifting of small bulk material or steel plates
- Very high holding force for flat materials
- Important! The whole active surface must be covered by lifted element
- Indicated holding forces for ST37 with suitable thickness and without airgap

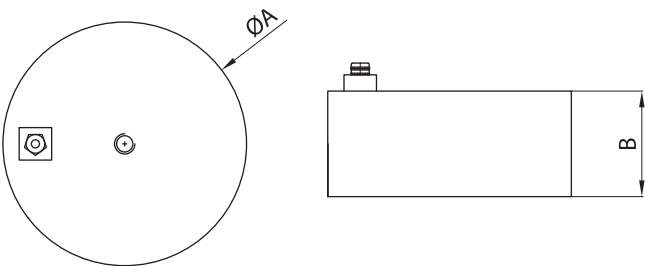
Included with purchase:

- 5 meter long cable



Voltage  
110 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D
20.04.10080.110	4,0	100	80	125daN	22W
20.04.160105.110	13,0	125	105	300daN	70W
20.04.200100.110	23,0	200	100	600daN	170W
20.04.250100.110	40,0	250	100	900daN	210W
20.04.300130.110	60,0	300	130	1250daN	360W
20.04.400200.110	115,0	400	200	1750daN	500W
20.04.500200.110	275,0	500	200	2500daN	930W



High holding power / Waterproof construction / Safe / Effective / According to EN13155 standard

OPTIONS

Other sizes on request

Other voltages on request

# Electromagnetic Lifter type K

Lifting   Handling  

- For lifting of flat loads or bulk material
- Steel housing
- Safety factor: 2:1 (EN131155)
- ON/OFF switch with indicator lamp
- Important! The whole active surface must be covered by lifted element
- Indicated holding forces for ST37 with suitable thickness and without airgap

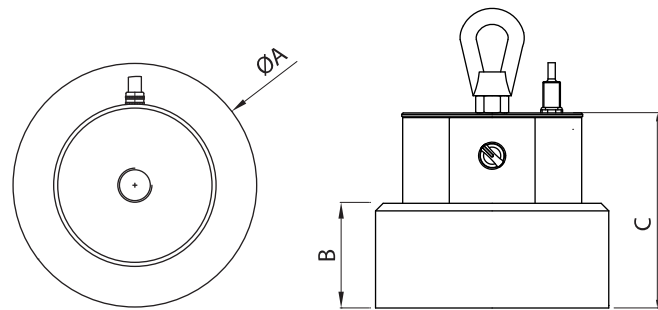
Included with purchase:

- 5 meter long cable
- Mounting threaded holes



Voltage  
230 VDC

Duty cycle  
100 %



Reference	Weight in Kg	A	B	C	D	E
20.04.K0.230AC	6,1	105	60	130	380 daN	60W
20.04.K1.230AC	18	160	105	307	520 daN	110W
20.04.K2.230AC	41	245	110	312	1250 daN	145W
20.04.K3.230AC	72	300	130	340	2450 daN	210W



High holding power / Heavy duty construction / Waterproof construction / Safe / Effective / According to EN13155 standard

OPTIONS

Other sizes  
on request

Other voltages  
on request

Tailor made shapes

# Permanent Magnetic Plate Lifter type GPM

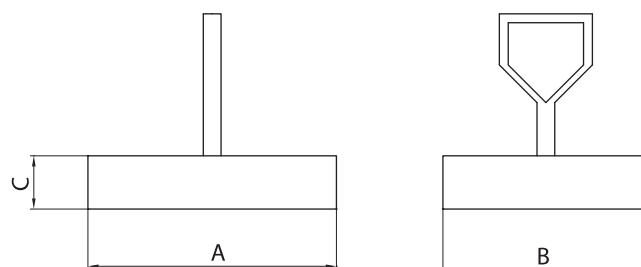
Lifting **Handling**

- Very high holding force
- Steel housing
- Handling of sheets in either horizontal or vertical position
- Switching OFF by pushing the handle against the work piece

Attention ! - do not use it for crane hoisting ! - Article for crane hoisting = 20.11

Included with purchase:

- Article 20.10.120MC2+ 20.10.300MC3+ 20.10.140MC4 - in plastic housing



Reference	Weight in Kg	A	B	C	D	E	F
20.10.120	1,4	140	84	27	120daN	70daN	1-2 mm
20.10.170	1,9	140	116	35	170daN	100daN	1-5 mm
20.10.300	3,5	160	180	35	300daN	180daN	ab 2 mm
20.10.120MC2	1,4	160	150	27	120daN	35daN	
20.10.300MC3	3,5	180	160	34	300daN	180daN	
20.10.140MC4	2,8	250	40	40	140daN	35daN	

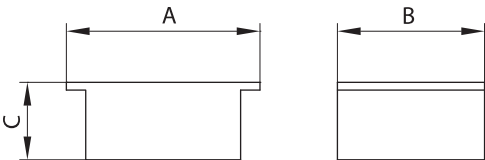


High holding power / Safe / Effective / Heavy duty & compact construction

# Hand Strap Magnet type PHM30

Lifting **Handling**

- For lifting and transport of small elements
- To be strapped around the hand



Reference	Weight in Kg	A	B	C	D
20.12.30	0,4	50	38	20	7daN
20.12.22.340.B	0,1	-	-	-	
20.12.22.340.C	0,1	-	-	-	

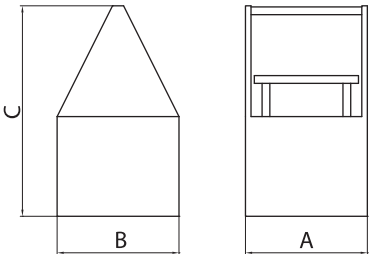


Safe / Effective / No mechanical wear / Heavy duty & compact construction

# Switchable Permanent Magnet type PHM50-R

Lifting **Handling**

- Switchable permanent magnet
- Robust stainless steel construction
- For sorting and collecting of small ferromagnetic elements like nails, screws, swarf etc.



Reference	Weight in Kg	A	B	C	D
20.14.80	1,8	80	80	200	0,7 daN
20.14.110	2,7	110	110	200	1,2daN
20.14.160	3,7	160	110	200	1,8 daN
20.14.215	5,0	215	110	200	2,4 daN



Safe / Effective / Heavy duty & compact construction

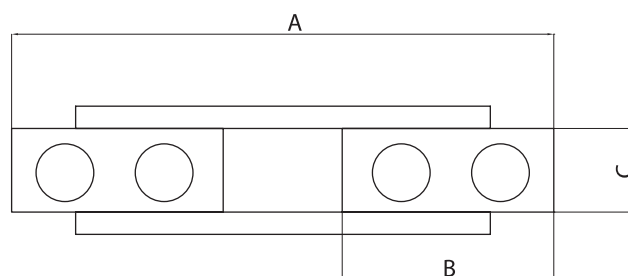




## Angular Magnetic Welding Holder type WM-L

Laser welding Positioning Welding Clamping

- For holding of welded elements in different angles
- 2 magnetic faces
- With ON/OFF switches
- To be used exclusively for holding welded elements together



Reference	Weight in Kg	A	B	C	D
17.16.50	0,5	114	47	25	200 N



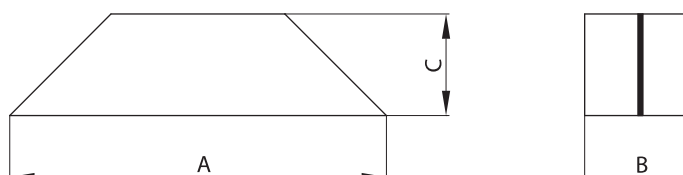
Effective / Heavy duty & compact construction



## Permanent Magnetic Welding Holder type PMF

Positioning Welding

- For holding of welded elements at 45°, 90° and 135° angles
- High clamping force with AlNiCo magnets
- To be used exclusively for holding welded elements together



Reference	Weight in Kg	A	B	C	D
17.18.152	1.2	152	45	41	30daN
17.18.178	1.6	178	45	41	50daN

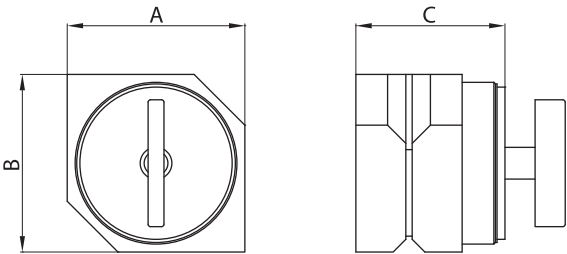


High holding power / Long service life / Effective / Heavy duty & compact construction

# Permanent Magnetic Angle Holder type PMP

Positionning Welding

- Suitable for use with tubes, profiles, round and flat elements
- Adjustable holding force
- Active faces at 45°/ 90°/135°
- High holding force with AlNiCo magnets
- To be used exclusively for holding welded elements together



Reference	Weight in Kg	A	B	C	D
17.17.60	0,85	60	60	47	60/35daN
17.17.108	6,2	112	112	132	140/100daN

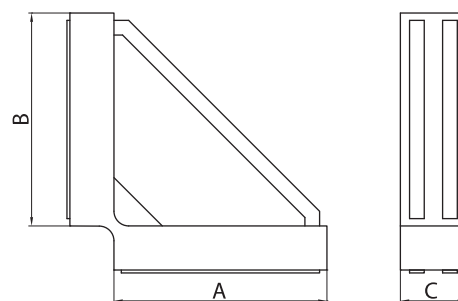


High holding power / Long service life / Safe / Effective / Heavy duty & compact construction

# Permanent Magnetic Angle Holder type PMA

## Positioning

- For holding of welded elements at 90°
- 2 active faces
- Robust construction with ferrite magnets
- Fixed 90° angle
- To be used exclusively for holding welded elements together



Reference	Weight in Kg	A	B	C	D
17.20.115N	0,7	115	105	38	30 daN
17.20.145N	1,1	145	145	45	50 daN
17.20.175N	1,6	175	175	48	65 daN
17.20.260N	2,1	260	175	48	90 daN
17.20.230N	3,1	230	230	60	70 daN
17.20.330N	4,3	330	240	60	100 daN
17.20.320N	5,0	320	320	60	100 daN
17.20.115R	0,75	115	105	38	40 daN
17.20.145R	1,15	145	145	45	70 daN
17.20.175R	1,7	175	175	48	90 daN
17.20.260R	2,2	260	175	48	110/75 daN
17.20.230R	3,3	230	230	60	100 daN
17.20.330R	4,5	330	240	60	100/150 daN
17.20.320R	5,2	320	320	60	150 daN
17.20.120T	1,25	120	110	38	25 daN
17.20.150T	1,25	150	150	45	30 daN
17.20.180T	1,8	180	180	48	40 daN
17.20.265T	2,45	265	180	48	40/60 daN
17.20.235T	3,1	235	235	60	65 daN
17.20.350B	8,4	350	350	60	160/180daN
17.20.450B	11,5	450	450	60	210 daN
17.20.150TC	1,7	150	150	45	40 daN
17.20.190TC	2,15	190	190	45	50 daN



Heavy duty construction / Waterproof construction / Long service life / Safe / Effective

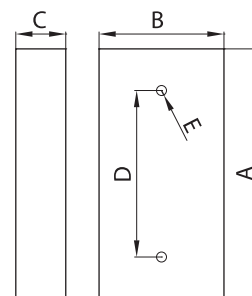
# Magnetic Steel Sheet Separator type FLO

## Positionning

- For separation of stacked steel sheets near automatic sheet metal processing machines
- Stable, made of stainless steel housing

## Included with purchase:

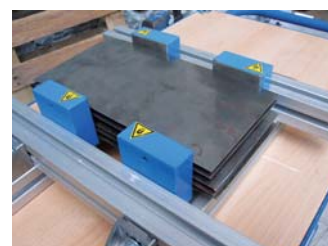
- Threaded mounting holes



Reference	Weight in Kg	A	B	C	D	E	F
17.24.7575.30	1,0	75	75	30	50	2xM8	0.7
17.24.27575.30	3,7	275	75	30	250	2xM8	0.7
17.24.34075.30	4,5	340	75	30	250	2xM8	0.7
17.24.105105.30	1,9	105	105	30	50	2xM8	1
17.24.210105.30	3,9	210	105	30	100	2xM8	1
17.24.310105.30	5,7	310	105	30	200	2xM8	1
17.24.340105.30	6,3	340	105	30	250	2xM8	1
17.24.145105.50	3,8	145	105	50	100	2xM8	2
17.24.210105.50	5,6	210	105	50	100	2xM8	2
17.24.280105.50	7,4	280	105	50	200	2xM8	2
17.24.310105.50	8,2	310	105	50	200	2xM8	2
17.24.345105.50	9,2	345	105	50	250	2xM8	2
17.24.410105.50	10,9	410	105	50	150	3xM8	2
17.24.445105.50	11,8	445	105	50	150	3xM8	2
17.24.510105.50	13,6	510	105	50	200	3xM8	2
17.24.610105.50	16,2	610	105	50	150	4xM8	2
17.24.765105.50	20,3	765	105	50	200	4xM8	2
17.24.280105.90	23,5	280	180	90	200	2xM12	4
17.24.400180.90	33,5	400	180	90	150	3xM12	4
17.24.345280.95	43,5	345	280	95	100	3xM12	6
17.24.545280.95	69,0	545	280	95	150	4xM12	6
17.24.610280.95	77,5	610	280	95	150	4xM12	6
17.24.815280.95	103,0	815	280	95	200	4xM12	6



Waterproof construction / Long service life / Safe / Effective / Heavy duty & compact construction



# FILTERING AND SEPARATION



<b>MAGNETIC BAR</b>	PAGE 134
<b>MAGNETIC BLOCK</b>	PAGE 136
<b>MAGNETIC DRUMS</b>	PAGE 138
<b>MAGNETIC BROOM</b>	PAGE 140
<b>MAGNETIC FILTER</b>	PAGE 143

# Magnetic Bar type BRS

Cleaning ☐ Separation ☒

- Active face in stainless steel
- Strong magnetic force
- Easy to clean
- High reliability
- With neodymium magnets
- Possible execution:
  - 2 standard ends
  - 2 tapped holes
  - 2 threaded tips
  - A = Diameter
  - B = Length



Reference	Weight in Kg	A	B
60.03.100.25	-	25	100
60.03.150.25	-	25	150
60.03.200.25	-	25	200
60.03.250.25	-	25	250
60.03.300.25	-	25	300
60.03.350.25	-	25	350
60.03.400.25	-	25	400
60.03.450.25	-	25	450
60.03.500.25	-	25	500
60.03.600.25	-	25	600
60.03.700.25	-	25	700
60.03.800.25	-	25	800
60.03.900.25	-	25	900
60.03.1000.25	-	25	1000



High holding power / Heavy duty construction / Long service life / Effective



## MAGNETIC BAR

REF 60.04

# Rectangular or Round Magnetic Grid type GMB

Cleaning Separation

- Active face in stainless steel
- Strong magnetic force
- Easy to clean
- High Reliability
- With neodymium or ferrite magnets
- Possible execution: round, square, rectangular



Reference	Weight in Kg	A	B
60.04.150	-	150	-
60.04.200	-	200	-
60.04.250	-	250	-
60.04.300	-	300	-
60.04.350	-	350	-
60.04.400	-	400	-
60.04.500	-	500	-
60.04.200200	-	200	200
60.04.250250	-	250	250
60.04.300300	-	300	300
60.04.400400	-	400	400
60.04.350200	-	350	200
60.04.400250	-	400	250
60.04.400300	-	400	300
60.04.450300	-	450	300
60.04.500350	-	500	350
60.04.500400	-	500	400
60.04.600500	-	600	500



High holding power / Heavy duty construction / Long service life / Effective



OPTIONS

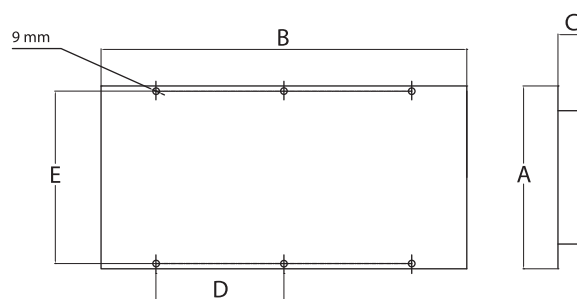
Other dimensions  
on request

FILTERING  
AND SEPARATION

# Protection Permanent Magnetic Plate type PMS

Protection Separation

- Active face in stainless steel
- Strong magnetic force
- Easy to clean
- No after sales service
- With neodymium or ferrite magnets
- Material Stainless Steel 34
- Ferrite quality: For medium and large particules
- Neodymium quality: For all sort of particules



Reference	Weight in Kg	A	B	C	D	E
60.02.250195.45.FE		195	350	45	140	181
60.02.350195.45.FE		195	450	45	140	181
60.02.450195.45.FE		195	550	45	140	181
60.02.550195.45.FE		195	650	45	140	181
60.02.650195.45.FE		250	320	45	140	236
60.02.320250.45.FE		250	500	45	175	236
60.02.500250.45.FE		250	650	45	140	236
60.02.650250.45.FE		350	250	45	140	336
60.02.250350.45.FE		350	350	45	140	336
60.02.350350.45.FE		350	450	45	140	336
60.02.450350.45.FE		350	550	45	140	336
60.02.550350.45.FE		350	650	45	140	336
60.02.650350.45.FE		195	250	35	140	181
60.02.250195.35.ND		195	350	35	140	181
60.02.350195.35.ND		195	450	35	140	181
60.02.450195.35.ND		195	550	35	140	181
60.02.550195.35.ND		195	650	35	140	181
60.02.650195.35.ND		250	320	35	140	236
60.02.320250.35.ND		250	500	35	140	236
60.02.500250.35.ND		250	650	35	140	236
60.02.650250.35.ND		350	250	35	140	336
60.02.250350.35.ND		350	350	35	140	336
60.02.350350.35.ND		350	450	35	140	336
60.02.450350.35.ND		350	550	35	140	336
60.02.550350.35.ND		350	650	35	140	336
60.02.650350.35.ND		195	250	45	140	181



High holding power / Heavy duty construction / Waterproof construction / Long service life / Effective

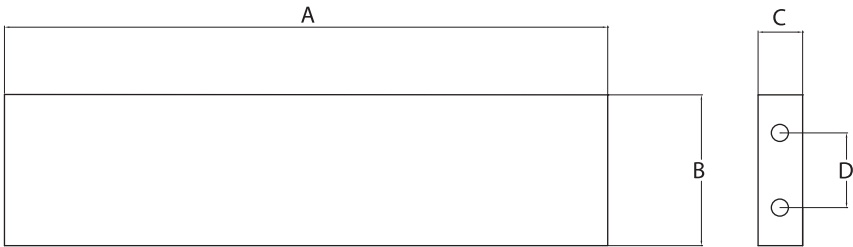




# Permanent Magnetic Block

Cleaning Separation

- The permanent magnetic block catches and eliminates ferrous parts on conveyor belt (food, plastic, recycling ...). Stainless steel housing is waterproof and the magnetic circuit is made of neodymium magnets. One active surface.
- At the 2 ends, 2 tapped holes M10 (center distance 60 mm)
- The density of magnetic flux, in the center, is more than 0,625 Tesla.  
Because of this high magnetic field, the small parts are easy caught, even in wet product.
- Exemple of distance separation:
  - round pieces Ø 5-10 / around 85 mm
  - nuts M5-M10 / around 100 mm
  - key / around 150 mm
  - nail 2 / around 180 mm
  - nail 4 / around 200 mm
- Max. temperature of use: 80 °C



Reference	Weight in Kg	A	B	C	D
60.10.52012060	25	520	120	40	60
60.10.62012060	30	620	120	40	60
60.10.72012060	35	720	120	40	60



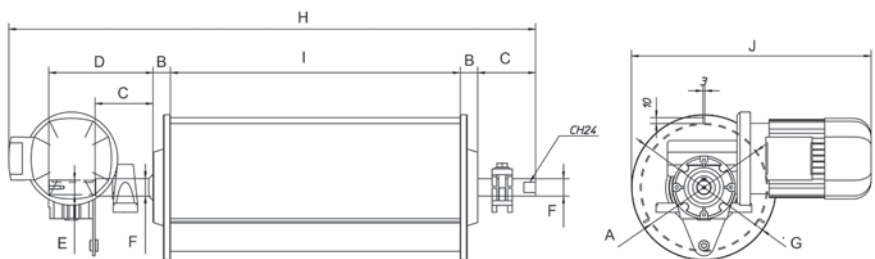
High holding power / Heavy duty construction / Waterproof construction / Long service life / Low sensibility to airgap

# Permanent Magnetic Drums type TM

Cleaning Separation

- To protect machines
- To protect crushers
- In stainless steel
- Diameter 200 to 900 mm
- The magnetic drum is made in 2 parts, 1 magnetic and 1 non-magnetic. The ferrous parts are automatically evacuated. One axis is fixed and the other turns with the drum. This magnetic drum can work up to 150°C, but ask about higher temperature application. Made in Ferrite or Neodymium.

Dimensions can be custom made to fit application.



Reference	A	B	C	D	E	F	G	H	I	J
60.05.200	200	30	100	-	-	-	230	-	200 - 1500	-
60.05.300	300	30	100	-	-	-	340	-	300 - 2000	-
60.05.400	400	30	120	-	-	-	460	-	450 - 2200	-
60.05.500	500	30	120	-	-	-	580	-	500 - 2500	-



OPTIONS

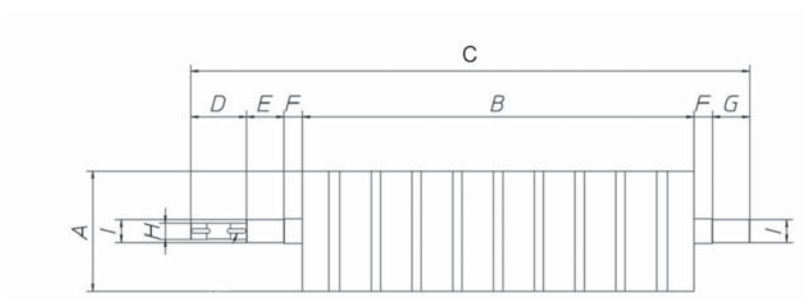
Custom designs available

# Permanent Magnetic Pulley

Protection Separation

- In stainless steel
- To separate ferrous parts
- Execution in Ferrite or Neodymium magnets

Dimensions can be custom made to fit application.



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I
60.06.100250	15	100	250	-	-	-	-	-	-	-
60.06.100500	25	100	500	-	-	-	-	-	-	-
60.06.150500	35	150	500	-	-	-	-	-	-	-
60.06.150600	42	150	600	-	-	-	-	-	-	-
60.06.1501000	80	150	1000	-	-	-	-	-	-	-
60.06.200400	65	200	400	-	-	-	-	-	-	-
60.06.200450	70	200	450	-	-	-	-	-	-	-
60.06.250650	140	250	650	-	-	-	-	-	-	-
60.06.320450	160	320	450	-	-	-	-	-	-	-
60.06.320900	320	320	900	-	-	-	-	-	-	-
60.06.3201100	400	320	1100	-	-	-	-	-	-	-
60.06.400800	400	400	800	-	-	-	-	-	-	-
60.06.4001100	550	400	1100	-	-	-	-	-	-	-
60.06.500900	600	500	900	-	-	-	-	-	-	-
60.06.5001100	750	500	1100	-	-	-	-	-	-	-



Low sensibility to airgap / Heavy duty & compact construction / High power



## MAGNETIC BROOM

REF 60.90

# Magnetic Broom type BM

### Cleaning

- To catch ferrous parts: chips, nuts...
- Strong permanent magnet
- Steel housing
- Easy to clean
- ON/OFF system
- This magnetic system will protect vehicles against all ferrous parts.
- Width of cleaning area: 560 mm

Reference	Weight in Kg
60.90.560	16



High holding power / Safe / Effective / Heavy duty & compact construction



## MAGNETIC BROOM

REF 60.91

# Magnetic Tool to collect pieces model RC

### Cleaning

- To collect ferrous parts: chips, screws...
- Permanent magnets with high magnetic force
- On/Off mechanism
- Model R, reinforced model, with steel housing.

Reference	Weight in Kg	A	B	C	D
60.91.30	1.02	114	295	100	100
60.91.60	1.48	114	590	100	100
60.91.75	1.9	114	750	100	100



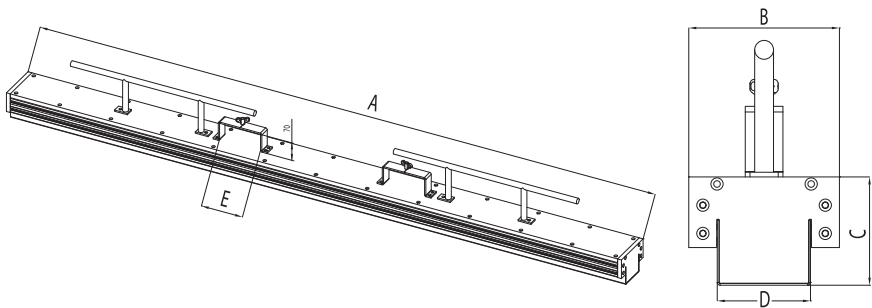
High holding power / Effective / Heavy duty & compact construction



# Magnetic Broom for Forklift

Cleaning Protection

- Width of cleaning area: 1100 mm
- Strong magnetic field
- Large permanent magnet
- Adaptation for all system
- Easy use
- Manual cleaning



Reference	Weight in Kg	A = dimensions	B = length active face
60.93.1200	35	1200x175	1150
60.93.1600	45	1600x175	1550



High holding power / Heavy duty & compact construction



MAGNETIC BROOM

REF 60.95



# Magnetic Broom

Cleaning Protection

- Strong magnetic field
- Large permanent magnet
- Easy use
- ON/OFF switch
- Durable housing
- This magnetic system will protect vehicules against all ferrous parts.
- Working width: 1200 mm, or 1500 mm, or 1800 mm

Reference	Weight in Kg	A	B	C
60.95.1200	150	1200 mm	9600 m2	40-100 mm
60.95.1500	175	1500 mm	12000 m2	40-100 mm
60.95.1800	200	1800 mm	14400 m2	40-100 mm



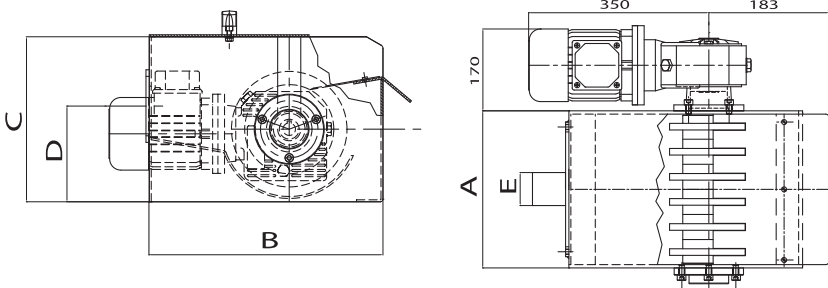
Twin magnetic system / Heavy duty construction / Long service life / Effective



# Magnetic Filter with Disk type MD

Separation/ Filtration

- Filtration of machining liquid (emulsion)- see flow
- Filtration of oils
- Strong magnetic systems
- Steel housing
- Tank and pump on request



Reference	Weight in Kg	A	B	C	D	E	F
60.51.100	-	238	350	220	145	2 1/2"	100 l/1'
60.51.150	-	348	350	220	145	3"	150 l/1'
60.51.200	-	428	350	220	145	3"	200 l/1'
60.51.250	-	500	350	220	145	3"	250 l/1'
60.51.300	-	652	350	220	145	3"	300 l/1'
60.51.350	-	723	350	220	145	3"	350 l/1'
60.51.400	-	842	350	220	145	3"	400 l/1'
60.51.50	-	162	350	220	145	2"	50 l/1'



High holding power / Twin magnetic system / Heavy duty construction / Long service life

OPTIONS

Pump, Tank

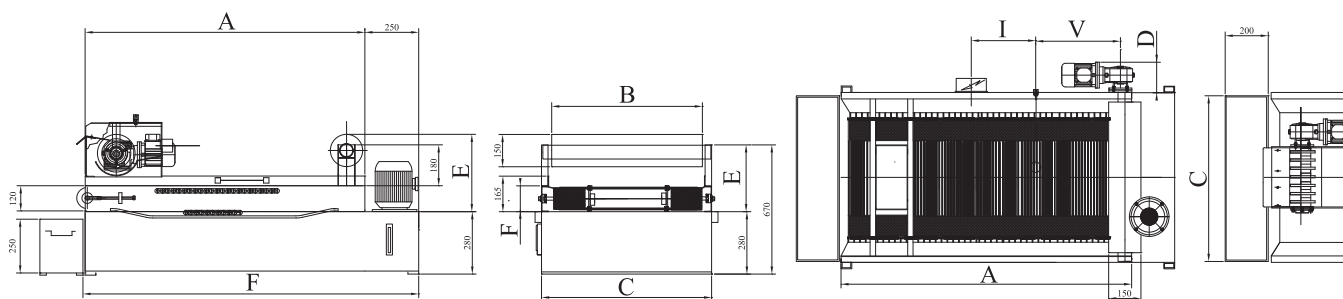
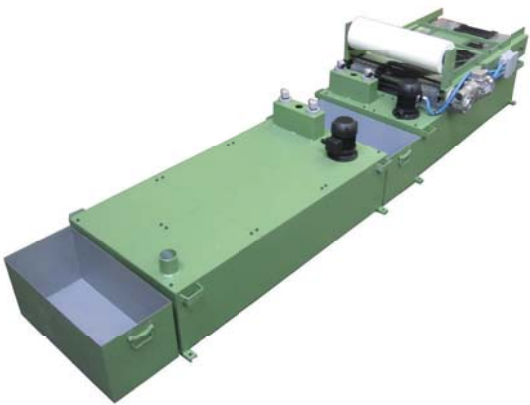
In stainless steel on request

Higher flows are possible

# Magnetic & Paper Filter

## Separation/ Filtration

- Filtration of machining liquid (emulsion)- see flow
- Filtration of oils
- Filter with paper and magnetic system
- Steel housing
- On inquiry tank and pump



Reference	Weight in Kg	A	B	C	D	E	F	G	H	I	J
60.53.50	-	1000	1385	590	500	220	2"	200	200	390	50 l/min
60.53.100	-	1350	1735	790	700	300	2"	200	250	390	100 l/min
60.53.150	-	1550	1985	1090	1000	500	2"	200	250	390	150 l/min
60.53.200	-	2000	2435	1090	1000	600	2"	200	300	390	200 l/min
60.53.250	-	2500	2935	1090	1000	600	2"	200	300	390	250 l/min
60.53.300	-	3000	3435	1090	1000	600	2"	240	300	390	300 l/min
60.53.350	-	3500	3935	1090	1000	600	2"	240	300	390	350 l/min
60.53.400	-	4000	4435	1090	1000	600	2"	240	300	430	400 l/min



High holding power / Effective / Heavy duty & compact construction

OPTIONS

Pump, Tank

In stainless steel on request

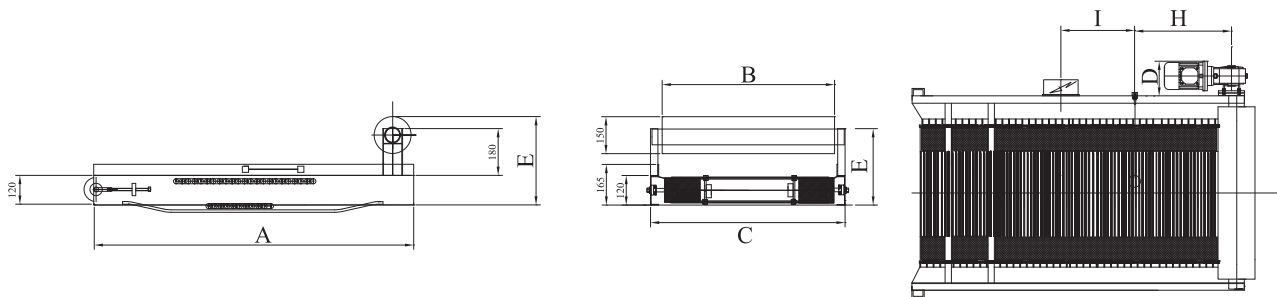
Higher flow



# Paper Filter for Machining Liquid type P

Separation/ Filtration

- Filtration of machining liquid (emulsion)- see flow
- Filtration of oils
- Filter with paper
- Steel housing
- Tank and pump on request



Reference	Weight in Kg	A	B	C	D	E	F	G	H
60.57.50	-	1000	500	590	200	390	1165	200	50 l/min
60.57.100	-	1350	700	790	200	390	1565	250	100 l/min
60.57.150	-	1550	1000	1090	200	390	1765	250	150 l/min
60.57.200	-	2000	1000	1090	200	390	2265	300	200 l/min
60.57.250	-	2500	1000	1090	200	390	2765	300	250 l/min
60.57.300	-	3000	1000	1090	250	390	3265	300	300 l/min
60.57.350	-	3500	1000	1090	250	390	3765	300	350 l/min
60.57.400	-	4000	1000	1090	250	430	4265	300	400 l/min



Heavy duty construction / Long service life / Effective

OPTIONS

Pump, Tank

In stainless steel on request

Higher flow

# Paper for Paper Filter

## Separation/ Filtration

To use with filter paper

- 3 filtration levels: 35 micron / 25 mmicron / 12-15 micron
- Delivered in rolls of 100 meters
- Material: viscose
- Filtration of emulsion, water, oil...
- Important high flow



Reference	Weight in Kg	A	B
60.50.1000.035	-	L=1000	35 microns
60.50.700.035	-	L= 700	35 microns
60.50.500.035	-	L= 500	35 microns
60.50.1000.050	-	L=1000	25 microns
60.50.700.050	-	L=700	25 microns
60.50.500.050	-	L=500	25 microns
60.50.1000.070	-	L=1000	12/15 microns
60.50.700.070	-	L=700	12/15 microns
60.50.500.070	-	L=500	12/15 microns



Long service life / Innovative / Effective







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