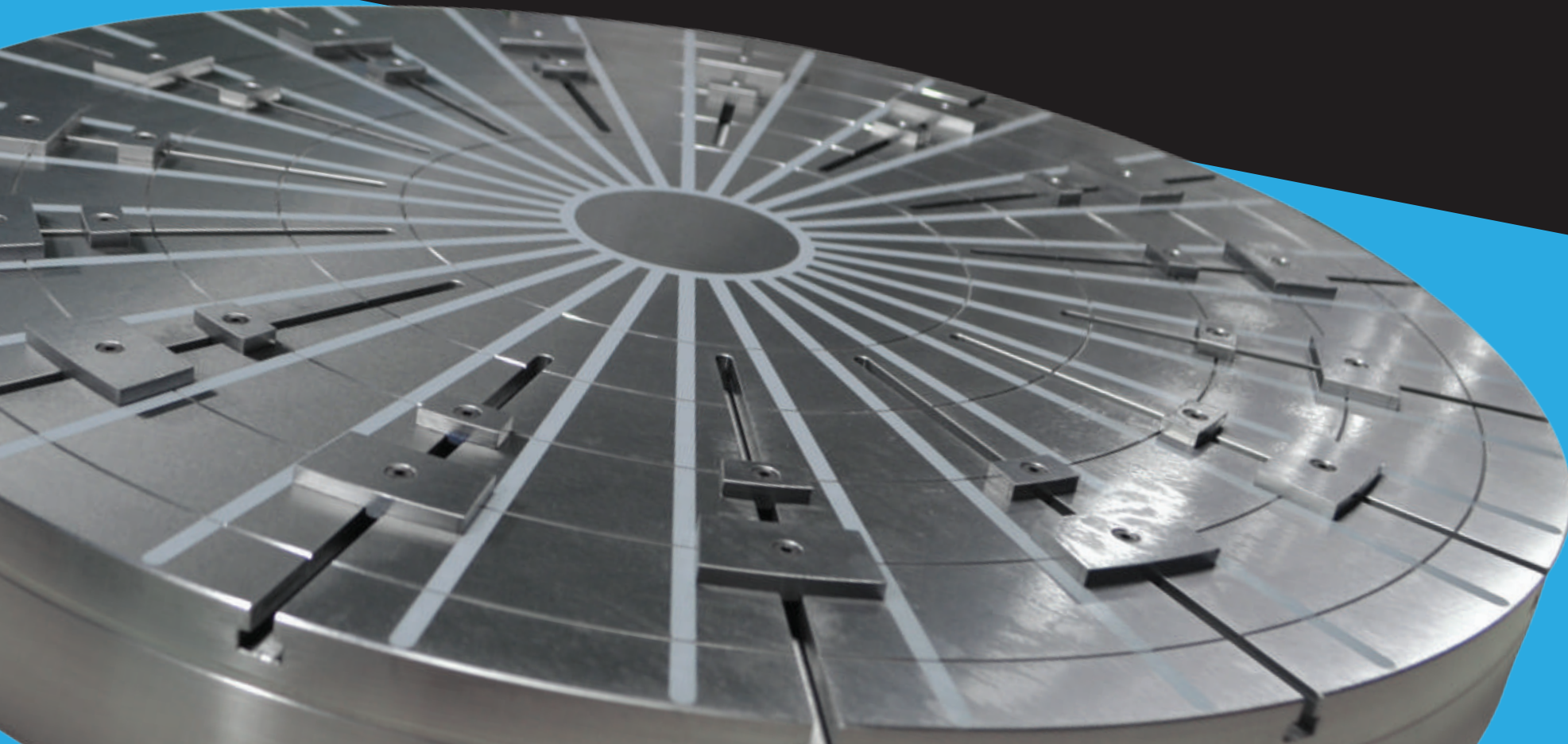

Catalog

Clamping - Handling - Demagnetisation - Heavy handling - Magnetic Drills



Introduction

Like few others in Europe, Walmag Magnetics has a long history in manufacturing of magnetic tools for the engineering industry. The roots of Czech manufacture date back to the 1960s. For 20 years, starting in 1991, the company was part of the international Walker Magnetics Group (USA) and bore the name Walker Pilana Magnetics. She became independent in 2011 and changed the her name to Walmag Magnetics. Our products are well known and used all around the world.

Walmag magnetics

- + Know-how in manufacturing of magnet applications since 1960
- + 100% Czech-owned manufacturing company with a rich tradition
- + Service center with the highest level of services





















Contents

CHAPTERS

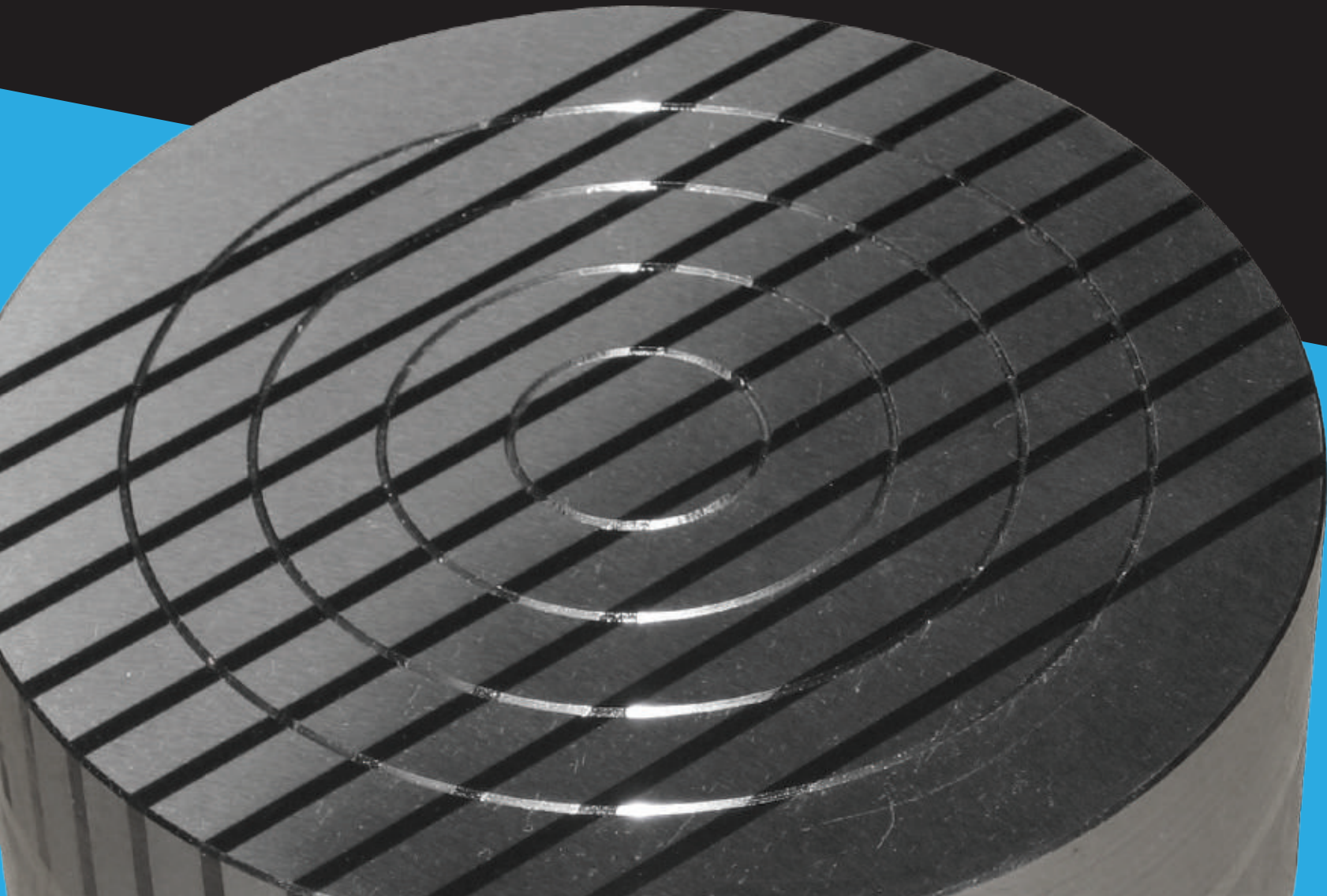
CLAMPING	04
DEMAGNETIZATION	35
HANDLING	40
HEAVY HANDLING	49
MAGNETIC DRILLING MACHINES	51
SEPARATIONS	53

PICTOGRAMS

	SURFACE GRINDING		MANUAL HANDLING
	CIRCULAR GRINDING		DEMAGNETIZATION
	MILLING		LAMELLA BLOCKS
	EDM		DRILLING
	TURNING		SEPARATION
	PALLETS		SHEET SEPARATORS
	LIFTING		
	CONTROL UNITS		

	PERMANENT MAGNETS	ELECTROMAGNETS	ELECTRO-PERMANENT MAGNETS
	05 NEOMICRO 06 FIXAR - SINE TABLE 07 NEODYMAX 24 NEOMILL COMPACT	08 ELMAX 09 UNIGRIP 10 ELECTROFINE 11 BJP	12 UNIPERM 13 EPEFINE 14 POWERFINE 15 EPEG RIP
	16 NEOGRIP 17 PERMAGRIP 18 FERROMAX 19 NEOSTAR 20 ALUSTAR	23 EM - FINE 23 EM - STAR 23 EM - RING	21 EPESTAR 22 EPERING 22 EPEFINE 22 POWERFINE
	24 NEOMILL COMPACT 25 NEOPOWER		26 MASTERMILL 27 TURBOMILL 40B 28 TURBOMILL 18
	05 NEOMICRO 29 NEOSPARK		
	19 NEOSTAR 20 ALUSTAR		21 EPESTAR
	30 NEOMICRO PALLET 31 NEOMILL COMPACT PALLET 32 NEOPOWER PALLET		
		33 CONTROL UNITS	33 CONTROL UNITS
	41 NEO 42 NEO HOT 43 NEO HV 47 GP250	44 BM 45 BMP	46 NEO EP
	48 MANUAL HANDLING		

Clamping



Neomicro



Surface grinding

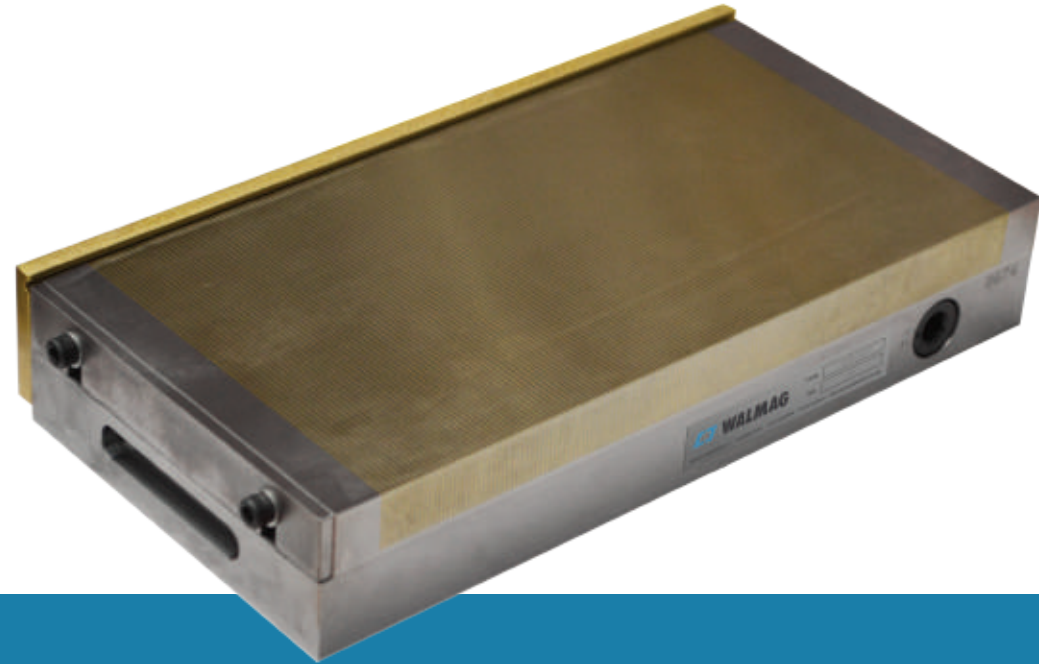


EDM

CONSTRUCTION

- + Solid top plate with transverse poles, pole division 1.4 mm steel and 0.5 mm brass
- + Life span (regrinding limit): 7 mm
- + Dual Neodymium magnetic system; nominal holding force: 100 N/cm²
- + Solid steel base with robust actuating mechanism
- + Waterproof assembly

Also available in Stainless steel – higher wear resistance



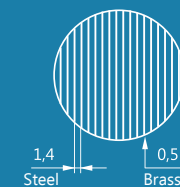
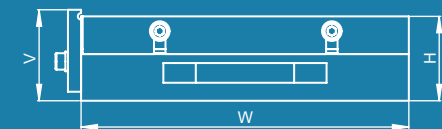
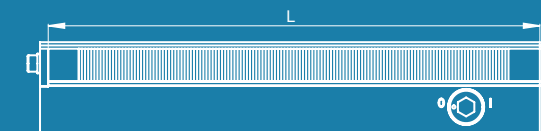
Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOC100175	100	175	49	7
NEOC100250	100	250	49	10
NEOC130255	130	255	49	13
NEOC150250	150	250	51	15
NEOC150300	150	300	51	18
NEOC150350	150	350	51	22
NEOC150400	150	400	51	25
NEOC150450	150	450	51	28
NEOC200400	200	400	51	35
NEOC200450	200	450	51	37
NEOC200500	200	500	51	41
NEOC200600	200	600	51	49
NEOC250500	250	500	56	56
NEOC300600	300	600	56	81

APPLICATION

- + Precision grinding of very small and thin up to large components
- + Recommended minimum workpiece size: 4 x 4 x 1 mm
- + EDM, possible to submerge in dielectric liquid

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Allen key



Fixar - sine table



Surface grinding



EDM

Fixar sine tables come in 2 standard versions:

Simple - magnetic chuck tilting over the long side (short lift)

Compound - magnetic chuck tilting over both long and short side

CONSTRUCTION

- + Pole pitch 1.9 mm (1.4 mm steel and 0.5 mm brass)
- + Maximum angle accuracy: +/- 5 seconds of arc
- + Parallelism: +/- 5 microns/100 mm
- + Simple sine tables allow setting angles with slip gauges between 0 – 45°
- + Compound sine tables allow angle settings: on the longitudinal axis between 0 – 45° and on the transverse axis between 0 – 30°

Single execution

Model	W [mm]	L [mm]	C x D [mm]	H [mm]	S [mm]	Weight [kg]
SINES70140	70	140	130 x 100	67	55	7
SINES130255	130	255	295 x 145	76	115	20
SINES150250	150	250	290 x 165	79	135	20
SINES150300	150	300	340 x 165	79	135	27
SINES150350	150	350	390 x 165	87	135	34.5
SINES150450	150	450	490 x 165	87	135	44
SINES200400	200	400	440 x 215	88	185	52
SINES300600	300	600	660 x 320	95	285	121

Compound execution

Model	W [mm]	L [mm]	C x D [mm]	H [mm]	S [mm]	Weight [kg]
SINEC100175	100	175	210 x 140	104	165/110	15
SINEC130255	130	255	290 x 170	120	245/140	32
SINEC150300	150	300	335 x 190	123	290/160	43.5
SINEC150350	150	350	385 x 190	123	340/160	49.5
SINEC200400	200	400	435 x 240	124	390/210	73

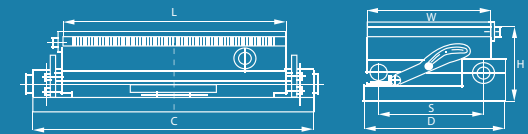


APPLICATIONS

- + Precision angle grinding or EDM
- + Measuring

SINGLE EXECUTION

- + Short lift
- + Gauge setting: 0° – 45°

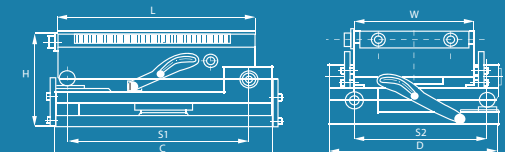


SCOPE OF SUPPLY

- + Wooden storage box
- + Set of Allen keys
- + Manual and sine chart

COMPOUND EXECUTION

- + Short and long lift
- + Gauge setting long side: 0° – 45°
- + Gauge setting short side: 0° – 30°



Neodymax



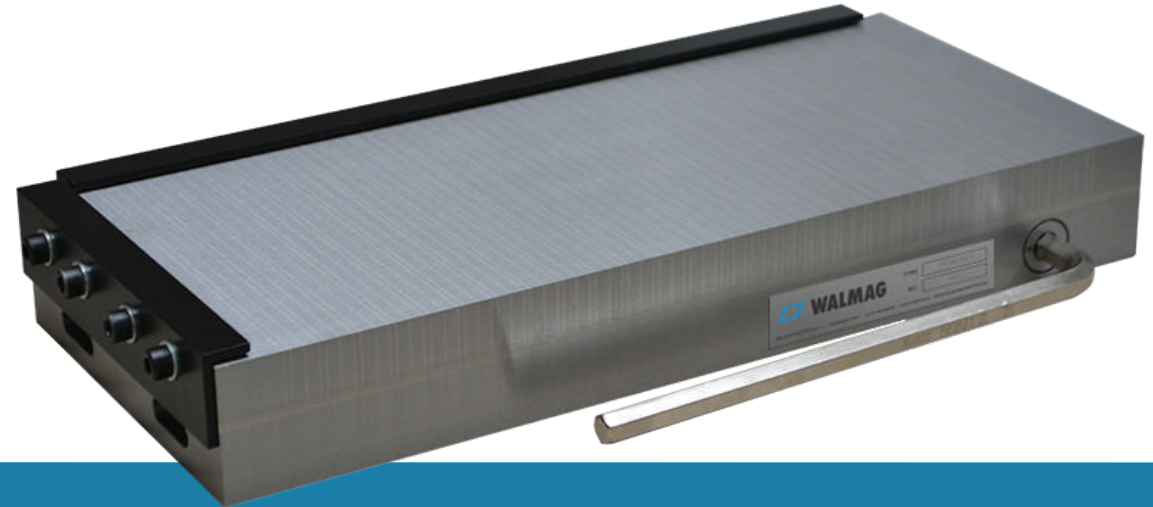
Surface grinding



EDM

CONSTRUCTION

- + Magnetic system with high energy Neodymium magnets; nominal holding force 120 N/cm²
- + Rigid top plate with transverse poles, pole division 5/1/5/1/2/1 mm, steel/stainless steel
- + Life span (regrinding limit): 6 mm
- + Solid steel body with robust actuating mechanism
- + Waterproof assembly



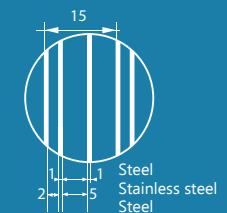
APPLICATIONS

- + Precision grinding of small and thin up to large components
- + Spark erosion; possible to submerge in dielectric liquid
- + Light and medium duty surface and pocket milling
- + Recommended minimum workpiece size: 10 x 10 x 5 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Allen key

Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOD150300	150	300	54	20
NEOD150450	150	450	54	30
NEOD200380	200	380	54	33
NEOD200450	200	450	54	40
NEOD250380	250	380	56	40
NEOD300600	300	600	56	78



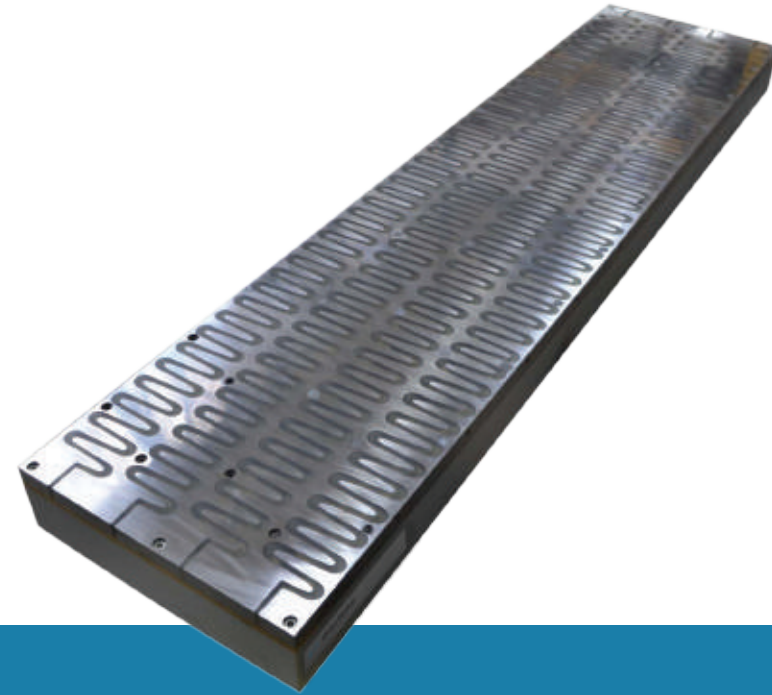
Elmax



Surface grinding

CONSTRUCTION

- + Flame cut top plate with epoxy resin gaps
- + Life span (regrinding limit): 10 mm
- + Pole pitch: 18 and 25 mm depending on chuck size
- + Solid body with firmly embedded coils
- + Watertight assembly
- + Optimized holding force – power consumption ratio
- + Standard input voltage: 110 VDC
- + Nominal holding force: 140 N/cm²



Model	Pole pitch	W [mm]	L [mm]	H [mm]	P [mm]	Wattage [W]	Weight [kg]
ELMA300500	P18	300	500	79	18	108	80
ELMA300600	P18	300	600	79	18	125	93
ELMA3001000	P18	300	1000	79	18	196	160
ELMA3001500	P18	300	1500	79	18	285	240
ELMA400600	P25	400	600	83	25	160	142
ELMA4001500	P25	400	1500	83	25	360	355
ELMA500800	P25	500	800	83	25	244	235
ELMA5001000	P25	500	1000	83	25	298	294
ELMA5001500	P25	500	1500	83	25	435	442
ELMA6001000	P25	600	1000	83	25	345	352
ELMA6001500	P25	600	1500	83	25	505	530

Other sizes and voltages can be supplied on request

APPLICATIONS

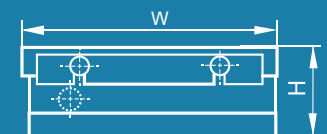
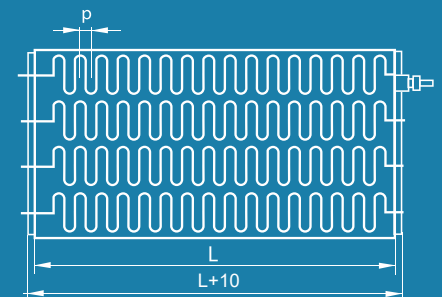
- + Rough and finish grinding of medium to large size components
- + The pole configuration allows to use the clamping surface up to the edges of the chuck
- + Recommended minimum component size: 36 x 10 and 50 x 15 mm respectively

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33**.



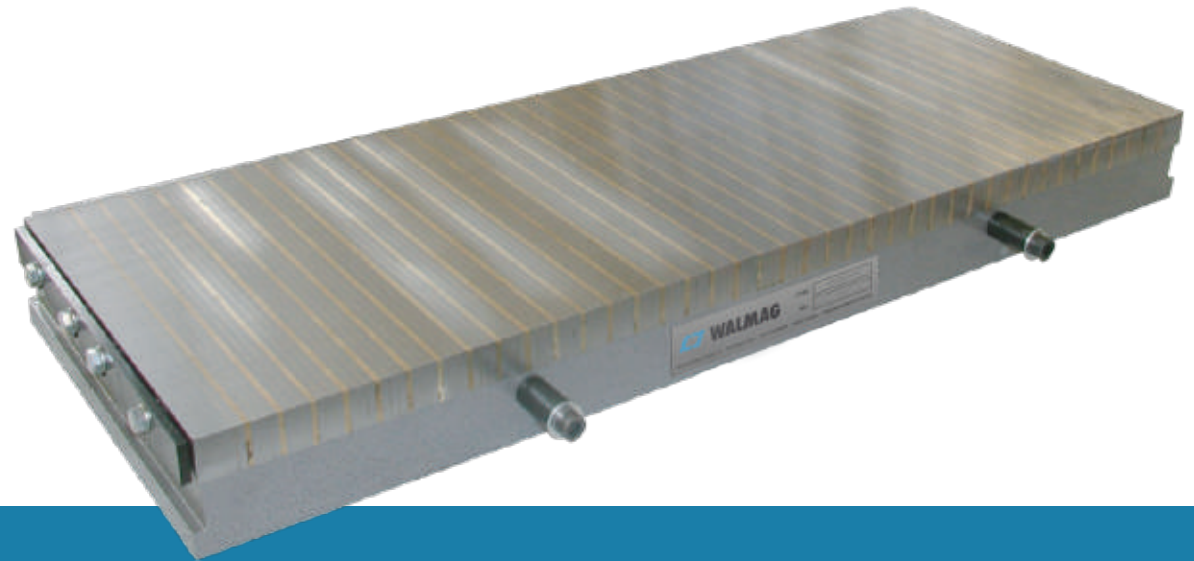
Unigrip



Surface grinding

CONSTRUCTION

- + Robust top plate with transverse poles, pole distance 19 mm
- + Fine pole division steel/brass: 5/0.5/5/0.5/5/3 mm
- + Life span (regrinding limit): 6 mm
- + Solid piece body with firmly embedded coils
- + Standard input voltage: 110 VDC
- + Waterproof assembly
- + Nominal holding force: 90 N/cm²



Model	W [mm]	L [mm]	H [mm]	Wattage [W]	Weight [kg]
UNIG300600	300	600	73	198	96
UNIG400800	400	800	73	253	162
UNIG3001000	300	1000	73	235	172
UNIG4001000	400	1000	73	384	210
UNIG5001000	500	1000	73	443	251
UNIG6001000	600	1000	73	568	358

Other sizes and voltages can be supplied on request

APPLICATIONS

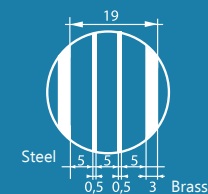
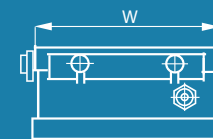
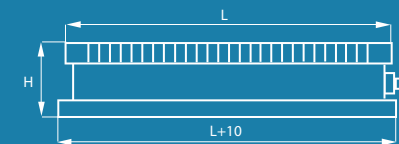
- + General purpose grinding of medium size up to large components
- + Recommended minimum workpiece size: 25 x 25 x 5 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



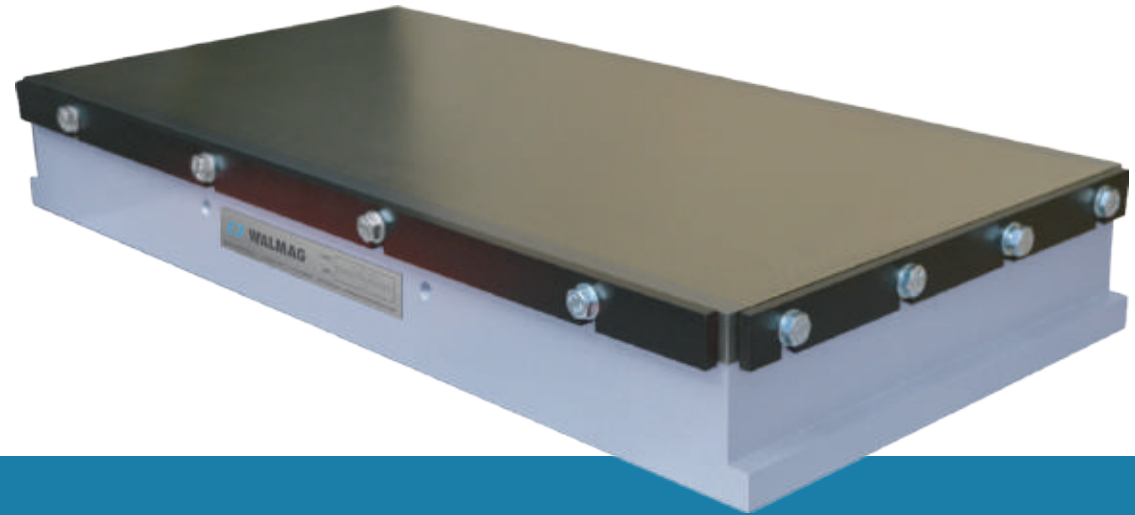
Electrofine



Surface grinding

CONSTRUCTION

- + Solid top plate with transverse poles
- + Pole division: Fine 3 mm steel and 1 mm brass, Microfine 1.4 mm steel and 0.5 mm brass
- + Life span (regrinding limit): 6 mm
- + Multi core magnetic system
- + Solid piece body with firmly embedded coils
- + Standard input voltage: 110 VDC
- + Nominal holding force: 100 N/cm² and 110 N/cm²
- + Electrofine chucks with longitudinal poles can also be supplied



Electrofine

Model	W [mm]	L [mm]	H [mm]	Wattage [W]	Weight [kg]	Pole pitch
ELEC150300T31	150	300	74	77,5	25	T4 3+1
ELEC200400T31	200	400	74	112	41	T4 3+1
ELEC200500T31	200	500	74	166	55	T4 3+1
ELEC200600T31	200	600	74	137	65	T4 3+1
ELEC300600T31	300	600	74	253	94	T4 3+1

Microfine

Model	W [mm]	L [mm]	H [mm]	Wattage [W]	Weight [kg]	Pole pitch
ELEC150250T1405	150	250	72	71	19	T1,9 1,4+0,5
ELEC150300T1405	150	300	72	78	22	T1,9 1,4+0,5
ELEC200400T1405	200	400	72	113	39	T1,9 1,4+0,5
ELEC200500T1405	200	500	72	166	52	T1,9 1,4+0,5
ELEC200600T1405	200	600	72	137	61	T1,9 1,4+0,5
ELEC300600T1405	300	600	72	252	97	T1,9 1,4+0,5

Other sizes and voltages can be supplied on request

APPLICATIONS

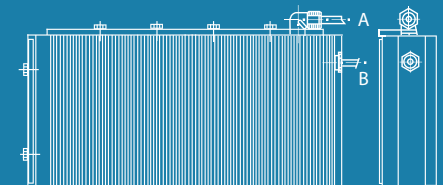
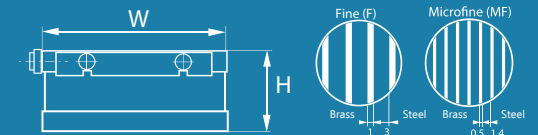
- + Surface grinding of small size up to large components
- + Recommended minimum workpiece size for Electrofine: 25 x 25 x 3 mm
- + Recommended minimum workpiece size for Microfine: 15 x 15 x 1 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Two types of power supply

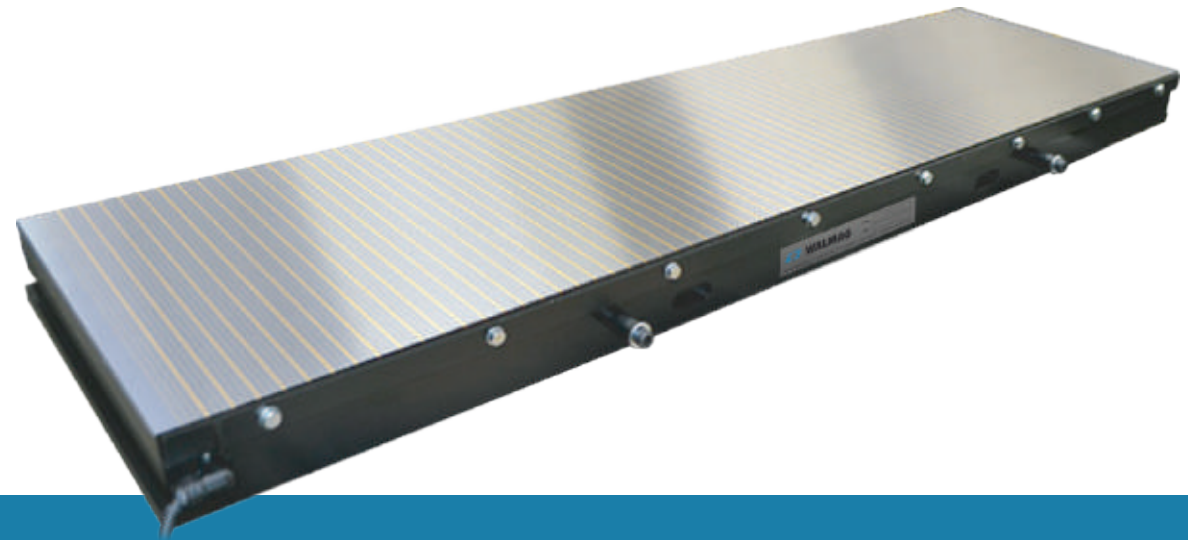
BJP



Surface grinding

CONSTRUCTION

- + Heavy duty top plate with transverse poles; major pole distance: approx. 42 mm
- + Fine pole division: 4 mm steel and 1 mm brass
- + Life span (regrinding limit): 7 mm
- + Multi coil magnetic system
- + Solid piece body with firmly embedded coils
- + Standard input voltage: 110 VDC
- + Waterproof assembly
- + Nominal holding force: 130 N/cm²



Model	W [mm]	L [mm]	H [mm]	Wattage [W]	Weight [kg]	Cable [m]
BJP200600	200	600	98	160	77	4
BJP300600	300	600	98	215	118	4
BJP400800	400	800	100	350	212	7
BJP3001000	300	1000	103	350	201	4
BJP4001000	400	1000	103	435	269	7
BJP5001000	500	1000	108	530	352	7
BJP6001000	600	1000	113	620	420	7

Other sizes can be supplied on request

APPLICATIONS

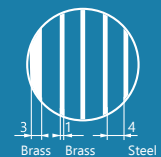
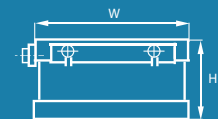
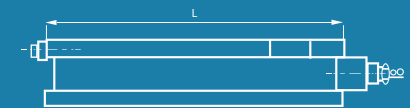
- + Heavy duty surface grinding of medium size up to large components
- + Recommended minimum workpiece size: 35x 35 x 3 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 4 / 7 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Uniperm



Surface grinding

CONSTRUCTION

- + Electro-permanent multi-core magnetic system
- + EP technology helps to control the process temperature and the expansion of the workpieces
- + Sturdy top plate with fine division transverse poles
- + 19 mm major pole distance; pole division 4/1/4/1/4/5 steel/brass
- + Rigid, solid body
- + Watertight assembly
- + Nominal holding force: 100 N/cm²



APPLICATION

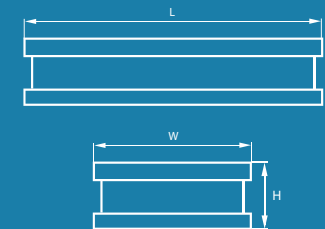
- + Medium to high precision grinding operations of a wide range of workpiece sizes
- + Recommended minimum component size: 36 x 10 x 2 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Model	W [mm]	L [mm]	H [mm]	Weight [kg]
UNIP200400	200	400	80	45
UNIP300600	300	600	83	97
UNIP400900	400	900	80	196
UNIP4001200	400	1200	106	295

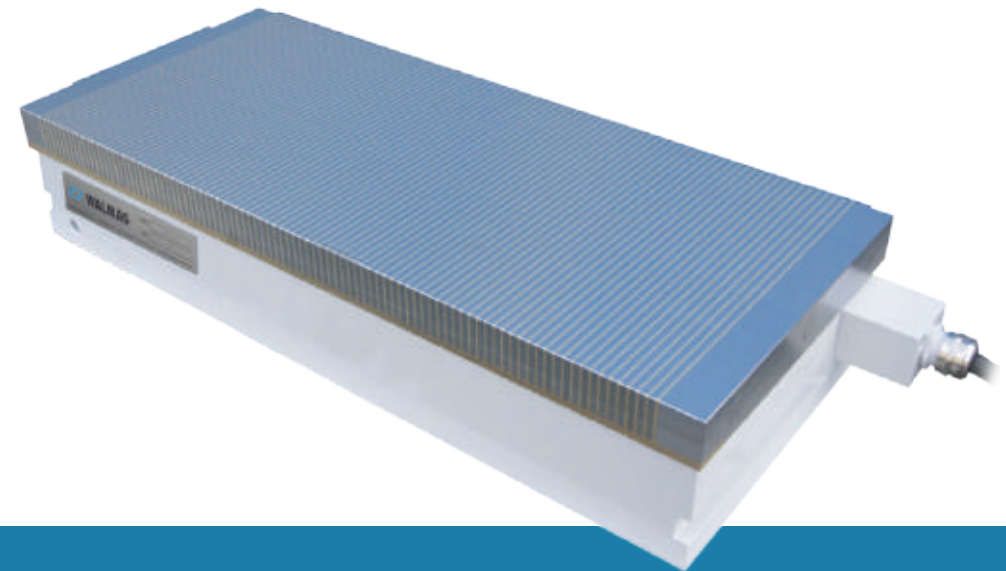
Epefine



Surface grinding

CONSTRUCTION

- + Electro-permanent multi-core magnetic system
- + Pole division 4/1 steel/brass
- + Rigid, solid body, watertight assembly
- + Nominal holding force: 100 N/cm²



Model	W [mm]	L [mm]	H [mm]	Weight [kg]
EPEF200400	200	400	80	33
EPEF250500	250	500	80	50
EPEF300600	300	600	80	75
EPEF400800	400	800	80	135
EPEF3001000	300	1000	80	125
EPEF5001000	500	1000	80	210
EPEF6001000	600	1000	80	254

APPLICATION

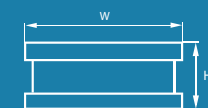
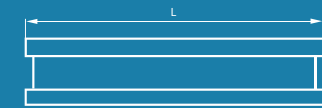
- + Medium to high precision grinding operations of a wide range of workpiece sizes
- + Recommended minimum component size: 36 x 10 x 2 mm
- + EP technology avoids heating and expansion of the workpiece

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Powerfine



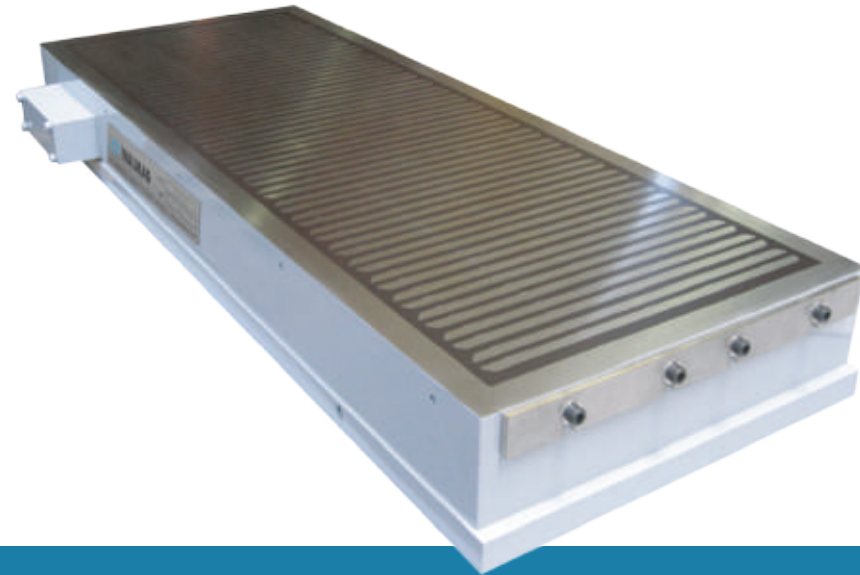
Surface grinding

CONSTRUCTION

- + Powerfine chucks offer the best cost/quality ratio
- + Transverse pole division, steel/epoxy resin 7/6/7/4 mm
- + Nominal holding force: 110 N/cm²

APPLICATION

- + General purpose finish grinding
- + Minimum workpiece thickness: 4 mm
- + Minimum workpiece length: 30 mm



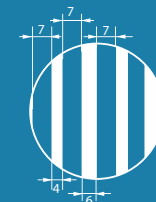
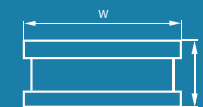
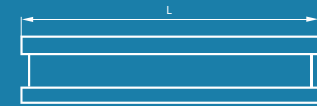
Model	W [mm]	L [mm]	H [mm]	Weight [kg]
POWE200400	200	400	79	62
POWE250500	250	500	79	90
POWE300600	300	600	79	159
POWE400800	400	800	79	155
POWE3001000	300	1000	82	151
POWE5001000	500	1000	82	252
POWE6001000	600	1000	82	310

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m
- + Sizes 300 x 600 mm and bigger have studs for handling

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units** on pg. 33.



Epegrip



Surface grinding

CONSTRUCTION

- + Solid body with a low height
- + Clamping surface with a true transverse pole division, steel/epoxy resin 14/8 mm
- + Nominal holding force: 120 N/cm²

APPLICATION

- + General purpose finish grinding
- + Minimum workpiece thickness: 6 mm
- + Minimum workpiece length: 40 mm



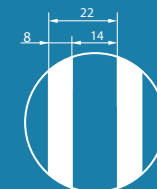
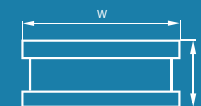
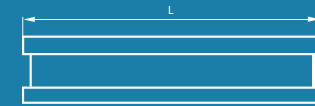
Model	W [mm]	L [mm]	H [mm]	Weight [kg]
EPEG200400	200	400	79	39
EPEG250500	250	500	79	61
EPEG300600	300	600	79	89
EPEG400800	400	800	79	155
EPEG3001000	300	1000	82	151
EPEG5001000	500	1000	82	252
EPEG6001000	600	1000	82	309

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Power cord of 3 m
- + Sizes 300 x 600 mm and bigger have studs for handling

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



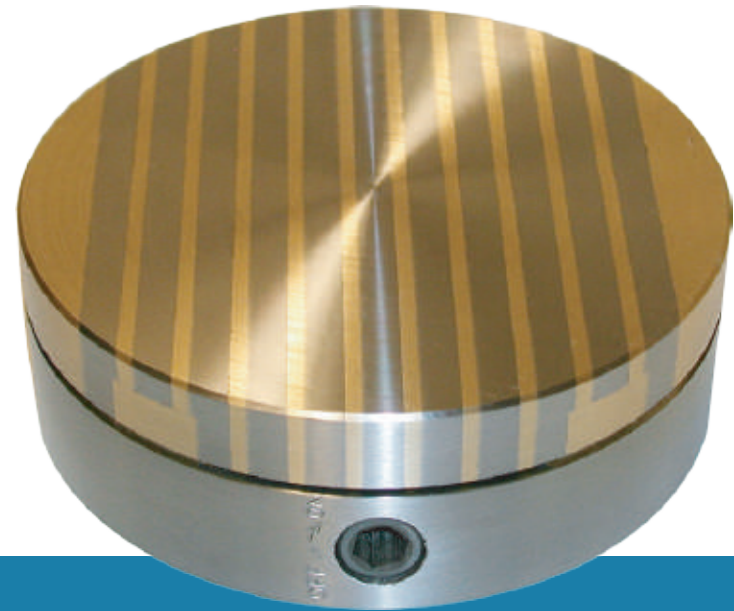
Neogrip



Circular grinding

CONSTRUCTION

- + Silver brazed top plate, parallel pole division 8 mm steel + 3 mm brass
- + Life span (regrinding limit): 7 mm
- + Solid steel body with robust actuating mechanism
- + Neodymium magnetic system
- + Nominal holding force: 80 N/cm²
- + Waterproof design



APPLICATION

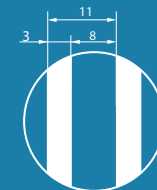
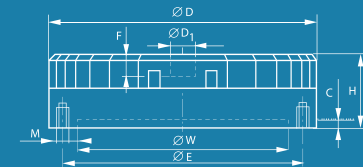
- + Finish (circular) grinding

SCOPE OF SUPPLY

- + Allen key

MOUNTING OF CHUCK TO MACHINE

The underside of the body has a recess and threaded holes for mounting a suitable flange.



Model	D [mm]	H [mm]	M [mm]	E [mm]	WxC [mm]	Weight [kg]
NEOG100	100	51	3 x M6	86	65x3	3
NEOG130	130	51	4 x M6	120	90x3	5
NEOG150	150	51	4 x M8	137	120x3	7
NEOG200	200	51	4 x M8	182	150x3	12

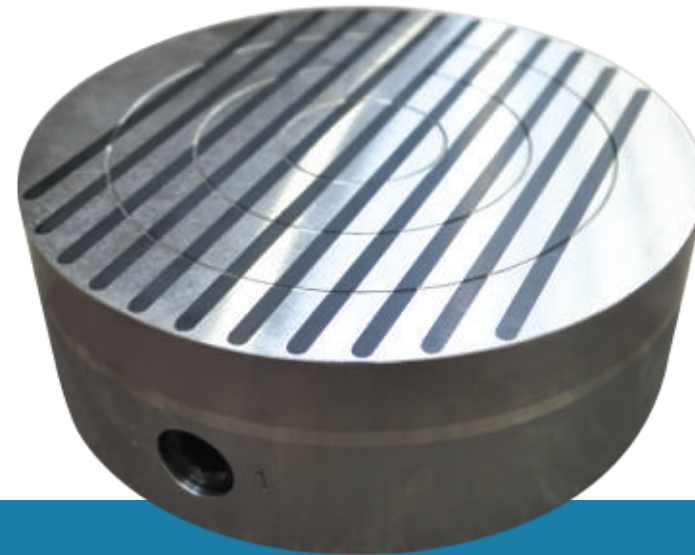
Permagrip



Circular grinding

CONSTRUCTION

- + Robust top plate, parallel pole division 8 mm steel + 3 mm epoxy resin
- + Life span (regrinding limit): 7 mm
- + Solid steel body with robust actuating mechanism
- + Neodymium magnetic system; nominal holding force: 80 N/cm²
- + Waterproof design



APPLICATIONS

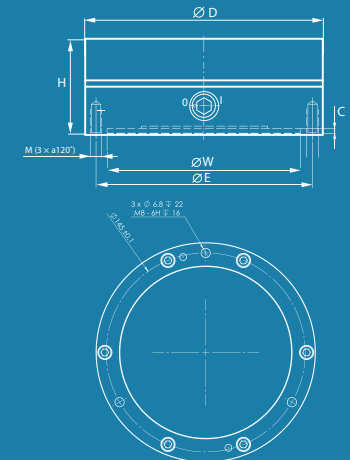
- + Finish (circular) grinding
- + Turning

SCOPE OF SUPPLY

- + Allen key

MOUNTING OF CHUCK TO MACHINE

The underside of the body has a recess and 3 or 4 threaded holes for mounting a suitable flange. See dimensions W, E and M.



Model	D [mm]	H [mm]	W x C [mm]	M [mm]	E [mm]	Weight [kg]
PERM130	130	63	80x4	3 x M8	113	6,5
PERM150	150	63	100x4	3 x M8	120	8
PERM160	160	63	125x4	3 x M8	145	8,5

Other dimensions on request

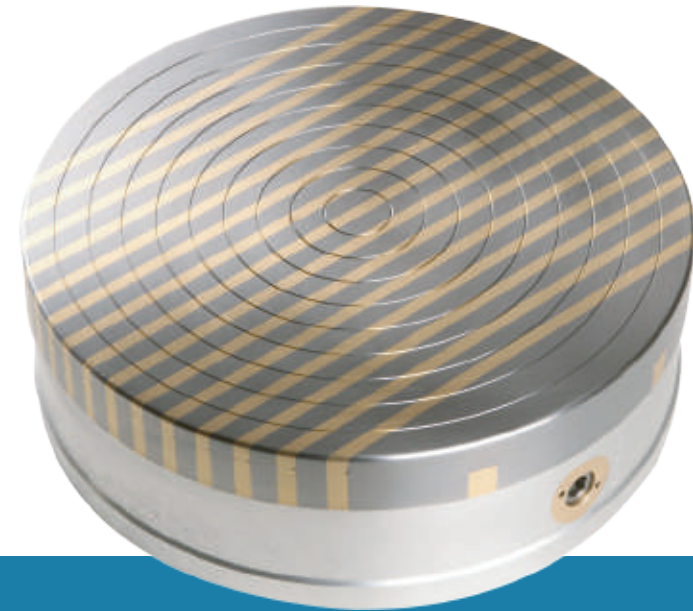
Ferromax



Circular grinding

CONSTRUCTION

- + Solid, silver brazed top plate with parallel poles
- + Pole division: 8 mm steel + 5 mm brass or 12 mm steel + 5 mm brass
- + Life span (regrinding limit): 7 mm
- + Double ferrite magnetic system
- + Lightweight aluminium body
- + Waterproof design
- + High nominal clamping force up to 140 N/cm² depends on the size of the chuck



APPLICATION

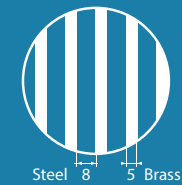
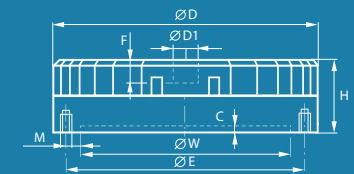
- + Turning and grinding
- + Optimal workpiece thickness: 8 and 12 mm respectively

SCOPE OF SUPPLY

- + Allen key

MOUNTING OF CHUCK TO MACHINE

The underside of the body has a recess and 3 or 4 threaded holes for mounting a suitable flange.



Model	D [mm]	H [mm]	W [mm]	C [mm]	F [mm]	M [mm]	E [mm]	D1 [mm]	Pole pitch	Weight [kg]
FERO200	200	78	150	4,5	22	4 x M8	182	22	T13 8+5	12
FERO250	250	78	200	4,5	22	4 x M8	232	22	T13 8+5	17
FERO300	300	78	250	4,5	22	4 x M8	285	22	T17 12+5	27
FERO350	350	78	300	4,5	22	4 x M8	334	22	T17 12+5	40
FERO400	400	78	300	4,5	22	6 x M10	375	22	T17 12+5	56
FERO450	450	102	350	5	22	6 x M10	400	22	T17 12+5	78
FERO500	500	98	400	5	22	6 x M10	450	22	T17 12+5	85

Neostar



Turning



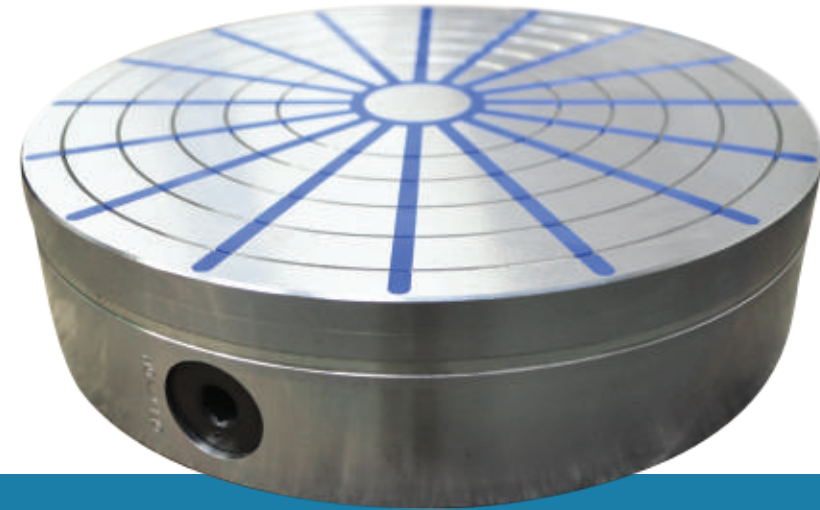
Circular grinding

CONSTRUCTION

- + Robust, one piece top plate with radial poles
- + Remachining limit of top plate: 5 mm
- + Double, high energy Neodymium magnetic system
- + Solid steel body with robust actuating mechanism
- + Maximum clamping force up to 140 N/cm² depending on the size of the chuck and the component

APPLICATION

- + Turning and grinding of ring shaped components
- + Inside, outside and face machining separately or in a single set up



Model	D [mm]	H [mm]	D1 [mm]	G [mm]	C [mm]	M [mm]	E [mm]	F [mm]	Number of poles	Weight [kg]
NEOS130	130	57	50	5	15	M6	-	100	10	5
NEOS150	150	57	50	5	15	M6	80	120	10	7.3
NEOS200	200	57	60	5	20	M6	110	180	12	13
NEOS250	250	70	80	5	30	M6	140	220	16	25
NEOS300	300	73	150	6	38	M8	180	260	16	37
NEOS350	350	73	170	6	40	M8	220	300	20	49
NEOS400	400	74	200	8	40	M8	260	340	20	68
NEOS500	500	78	200	8	50	M8	300	400	24	109
NEOS600	600	78	250	8	90	M10	350	450	30	172
NEOS700	700	78	250	8	90	M10	350	450	30	234
NEOS800	800	110	350	8	100	M10	400	700	30	420

SCOPE OF SUPPLY

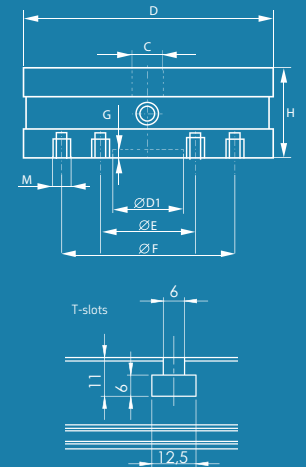
- + Allen key
- + Supplied without centre bore

OPTIONS

- + Through going centre bore
- + Accurate centring hole
- + Auxiliary top plate
- + Top plate with T-slots
- + Set of pole shoes

MOUNTING OF CHUCK TO MACHINE

The underside of the body has a recess and 2 times 4 threaded holes for mounting a suitable flange.



Alustar



Turning



Circular grinding

Aluminium body with unique worm gear actuating mechanism from WALMAG MAGNETICS.
The aluminium body has significantly reduced the weight of the chuck.

Typical set up procedure:

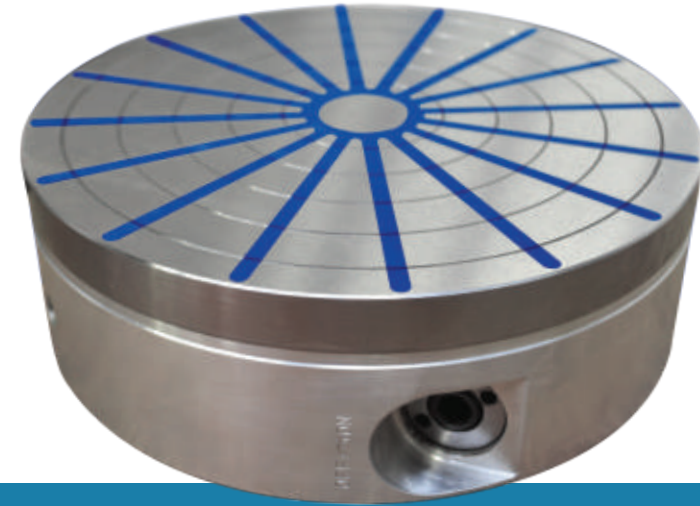
- 1) Switch ON up to 10-20% power
- 2) Workpiece centring
- 3) Switch ON up to 100% power
- 4) Workpiece machining

CONSTRUCTION

- + Robust, single piece top plate with radial poles and epoxy resin gaps
- + Double, high energy Neodymium magnetic system
- + Solid aluminium body with worm gear actuating mechanism, unique, very safe, self-locking mechanism, preventing switching-off during machining
- + Maximum clamping force up to 140 N/cm² - depending on the size of the chuck and the component

APPLICATION

- + Turning and grinding of ring shaped components

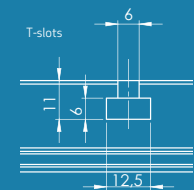
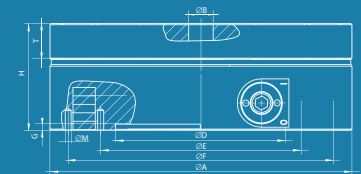


SCOPE OF SUPPLY

- + Ratchet key

OPTIONS

- + Through going centre bore
- + Accurate centring hole
- + Auxiliary top plate
- + Top plate with T-slots
- + Set of pole shoes



MOUNTING OF CHUCK TO MACHINE

The underside of the body has a recess and threaded holes for mounting a suitable flange.

ALUSTAR v30

Model	A [mm]	B [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	M [mm]	T [mm]	Number of poles	Weight [kg]
ALUS30D500	500	50	200	330	400	8	109	M8	30	16	98
ALUS30D600	600	90	250	350	450	8	109	M10	30	20	142

ALUSTAR v20

Model	A [mm]	B [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	M [mm]	T [mm]	Number of poles	Weight [kg]
ALUS20D200	200	20	60	110	180	5	79	M6	20	12	11,5
ALUS20D250	250	30	80	166	220	5	79	M6	20	12	18
ALUS20D300	300	38	150	180	260	6	82	M8	20	16	27
ALUS20D350	350	40	170	220	300	6	84	M8	20	16	36
ALUS20D400	400	40	200	260	340	8	84	M8	20	16	47

Epestar



Turning



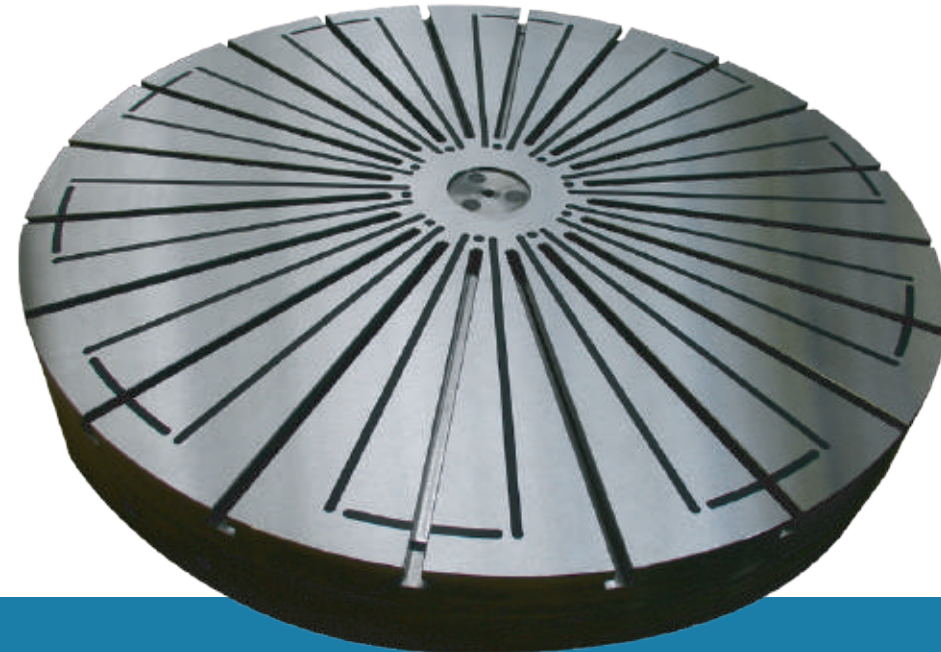
Circular grinding

CONSTRUCTION

- + Solid machined top plate with epoxy resin gaps
- + Solid machined body with firmly embedded coils and permanent magnets
- + Centring recess and mounting holes according to customer's request
- + Standard electrical connection from centre bottom
- + Waterproof assembly
- + Nominal holding force: 140 N/cm²
- + Two versions: Full Demag and High Power

APPLICATION

- + Grinding of ring shaped parts and bearing races
- + Light turning of ring shaped parts and bearing races
- + Hard turning of bearing races (High Power only)
- + Machining of the face and the sides at the same time



Model	A [mm]	B [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	Number of poles	Weight [kg]
EPES200	200	100	110	140	4xM10	4	45	8	24
EPES250	250	100	140	170	4xM12	4	65	8	39
EPES300	300	100	160	190	4xM12	4	85	12	54
EPES400	400	100	210	250	6xM12	5	100	12	85
EPES500	500	110	280	320	6xM12	5	150	16	150
EPES600	600	110	350	390	6xM16	5	180	16	210
EPES700	700	110	400	450	6xM16	5	200	16	280
EPES800	800	110	450	500	6xM16	5	200	24	380
EPES1000	1000	125	550	620	8xM16	5	250	24	680

SCOPE OF SUPPLY

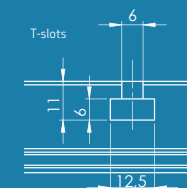
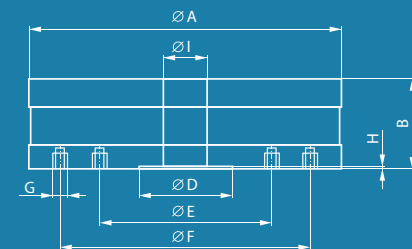
- + Suitable control unit depending on type of chuck
- + Slip ring and brush assembly
- + Standart top plate

OPTIONS

- + Top plate with T-slots
- + Set of pole shoes

SUITABLE CONTROL UNIT

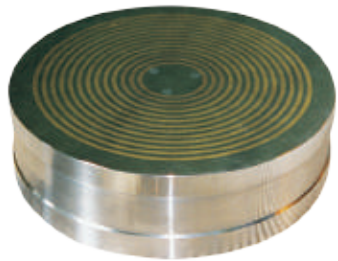
- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Epering



Circular grinding



CONSTRUCTION

- + Sturdy top plate with concentric poles
- + Standard pole pitch 16 mm (11 mm steel + 5 mm brass)
- + Solid machined body with firmly embedded coils and permanent magnets
- + Standard electrical connection from centre bottom
- + Waterproof assembly
- + Nominal holding force: 110 N/cm²

WORKPIECE

- + Minimum workpiece thickness: 5 mm
- + Minimum workpiece length: 55 mm

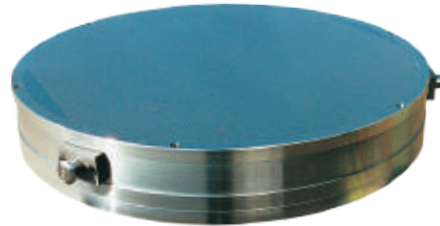
APPLICATION

- + Grinding of medium up to large workpieces

Epefine



Circular grinding



CONSTRUCTION

- + Sturdy top plate with parallel poles
- + Standard pole pitch 5 mm (4 mm steel + 1 mm brass or epoxy)
- + Solid machined body with firmly embedded coils and permanent magnets
- + Standard electrical connection from centre bottom
- + Waterproof assembly
- + Nominal holding force: 100 N/cm²

WORKPIECE

- + Minimum workpiece thickness: 2 mm
- + Minimum workpiece length: 30 mm

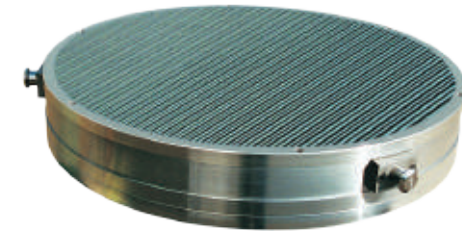
APPLICATION

- + Finish grinding of small and thin workpieces

Powerfine



Circular grinding



CONSTRUCTION

- + Clamping surface with parallel poles
- + Standard pole pitch 11 mm (7 mm steel + 4 mm brass or epoxy)
- + Solid machined body with firmly embedded coils and permanent magnets
- + Standard electrical connection from centre bottom
- + Waterproof assembly
- + Nominal holding force: 110 N/cm²

WORKPIECE

- + Minimum workpiece thickness: 4 mm
- + Minimum workpiece length: 30 mm

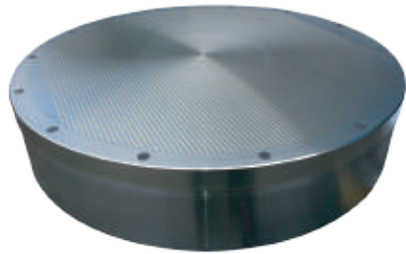
APPLICATION

- + Universal grinding of small up to large workpieces

EM – fine



Circular grinding



CONSTRUCTION

- + Robust top plate with parallel poles
- + Standard pole pitch 5 mm (4 mm steel + 1 mm brass or epoxy)
- + Solid machined body with firmly embedded coils
- + Waterproof assembly
- + Standard electrical connection from centre bottom
- + Standard input voltage: 110 VDC
- + Nominal holding force: 100 N/cm²

WORKPIECE

- + Minimum workpiece thickness and length 2 x 15 mm

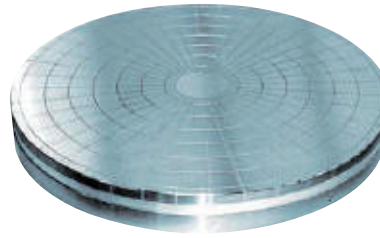
APPLICATION

- + Mass grinding of small and thin workpieces

EM – star



Circular grinding



CONSTRUCTION

- + Robust top plate with radial poles
- + Solid machined body with firmly embedded coils
- + Standard electrical connection from centre bottom
- + Waterproof assembly
- + Nominal holding force: 120 N/cm²

APPLICATION

- + Grinding of ring shaped components
- + Inside, outside and face grinding separately or in a single set up

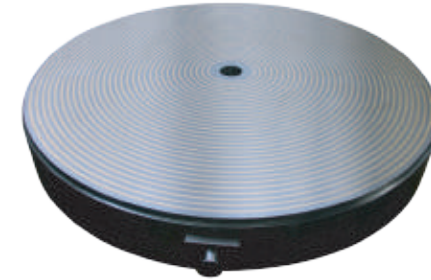
OPTIONS

- + Centring hole in top plate
- + Top plate with threaded holes or T-slots
- + Set of pole shoes

EM – ring



Circular grinding



CONSTRUCTION

- + Robust top plate with concentric poles
- + Standard pole pitch 16 mm (11 mm steel + 5 mm brass or epoxy)
- + Solid machined body with firmly embedded coils
- + Centring recess and mounting holes according to customer's request
- + Waterproof assembly
- + Standard electrical connection from center bottom
- + Standard input voltage: 110 VDC

WORKPIECE

- + Minimum workpiece thickness and length 5 x 55 mm

APPLICATION

- + Series and mass grinding of medium up to large workpieces

Neomill compact



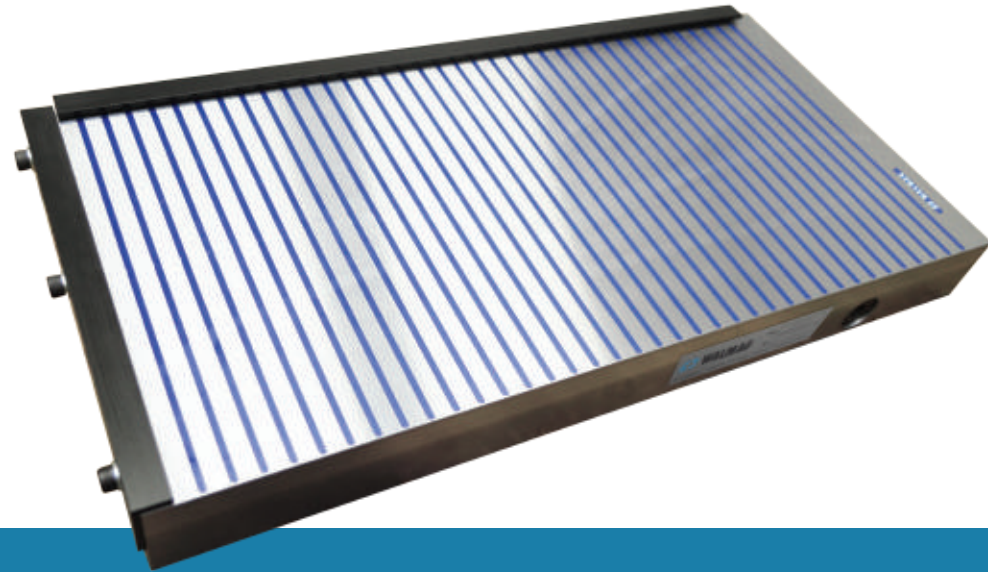
Surface grinding



Milling

CONSTRUCTION

- + Solid top plate machined out of a single piece of steel
- + Top plate 100% waterproof
- + Maximum holding force 160 N/cm² right up to the edges of the chuck
- + Very low residual magnetism after switching off
- + Increased top plate life (usability) of 10 mm, checkpoints in the pole plate, indicate time for replacement



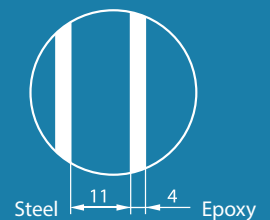
Model	Pole pitch	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOMC150250	T15 11+4	150	250	50	14
NEOMC150300	T15 11+4	150	300	50	17
NEOMC150350	T15 11+4	150	350	50	20
NEOMC150450	T15 11+4	150	450	50	25
NEOMC200300	T15 11+4	200	300	55	25
NEOMC200400	T15 11+4	200	400	55	33
NEOMC200450	T15 11+4	200	450	55	37
NEOMC200500	T15 11+4	200	500	55	41
NEOMC200600	T15 11+4	200	600	55	49
NEOMC240240	T15 11+4	240	240	48	21
NEOMC250400	T15 11+4	250	400	60	45
NEOMC250500	T15 11+4	250	500	60	56
NEOMC250600	T15 11+4	250	600	60	67
NEOMC280280	T15 11+4	280	280	48	28
NEOMC300300	T15 11+4	300	300	60	40
NEOMC300500	T15 11+4	300	500	60	67
NEOMC300600	T15 11+4	300	600	60	81
NEOMC320320	T15 11+4	320	320	48	37
NEOMC400400	T15 11+4	400	400	48	57

APPLICATIONS

- + Milling
- + Drilling
- + Planing
- + Heavy grinding
- + Recommended minimum workpiece size: 15 x 15 x 6 mm

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Allen key



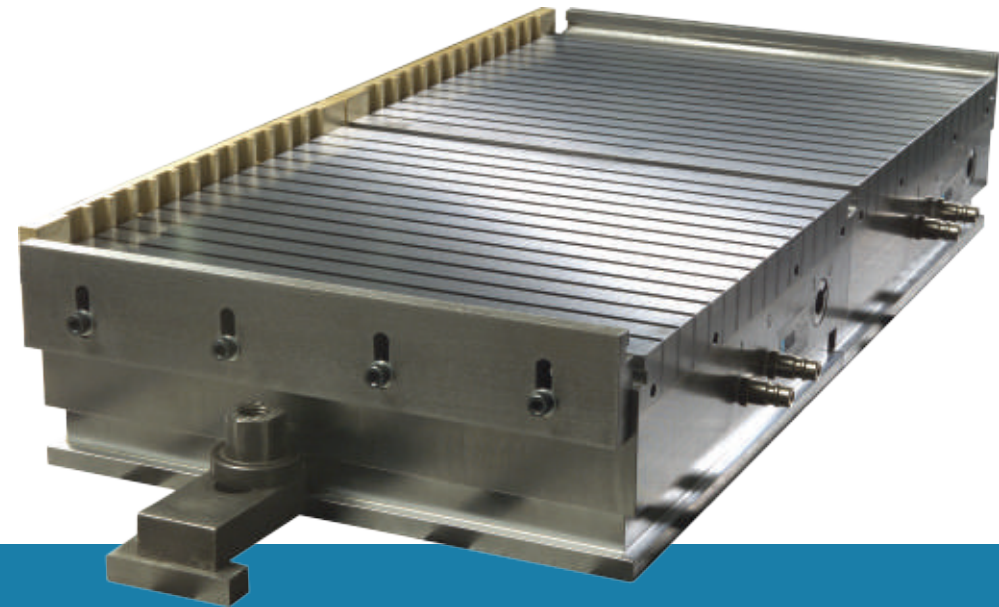
Neopower



Milling

CONSTRUCTION

- + Magnetic system with high energy Neodymium magnets; nominal holding force: 170 N/cm²
- + Top plate with transverse poles, pole division 15 mm steel + 4 mm epoxy resin, optional brass
- + Solid steel body with robust actuating mechanism
- + Waterproof assembly



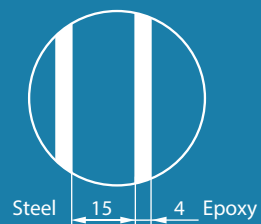
APPLICATION

- + Surface milling; contour and pocket milling, slotting
- + High speed cutting
- + Drilling, tapping

SCOPE OF SUPPLY

- + Back and end stop
- + Set of clamps
- + Allen key

Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOP240240P	240	240	60	27
NEOP280280P	280	280	60	37
NEOP300600	300	600	63	90
NEOP320320PZ	320	320	60	46
NEOP320320P	320	320	60	48



Mastermill



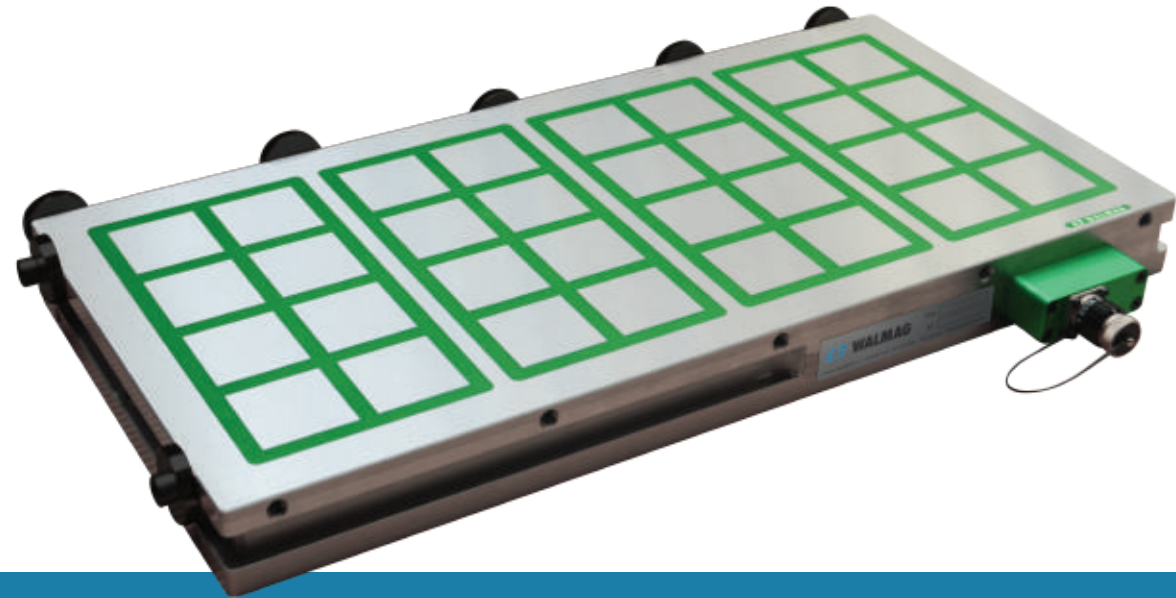
Milling

CONSTRUCTION

- + Pole size 50 x 50 mm with 10 mm gaps
- + Extremely low height 51 mm
- + Nominal holding force: 170 N/cm²

APPLICATION

- + Five sided machining
- + Milling
- + Boring of large moulds, ingots, blocks, frames, etc.



Model	Number of poles	W [mm]	L [mm]	H [mm]	Weight [kg]
MM50300490	24	300	490	51	49
MM50300600	32	300	600	51	61
MM50300800	40	300	800	51	82
MM50300900	48	300	900	51	92
MM50420490	36	420	490	51	70
MM50420600	48	420	600	51	86
MM50420800	60	420	800	51	114
MM50420900	72	420	900	51	128
MM50480600	56	480	600	51	97
MM50480800	70	480	800	51	130
MM50480900	84	480	900	51	146
MM50480990	84	480	990	51	161
MM50580800	80	580	800	51	157
MM50580900	96	580	900	51	177
MM50580990	96	580	990	51	194

Other standard dimensions at www.walmagmagnetics.com

SCOPE OF SUPPLY

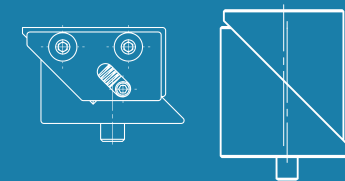
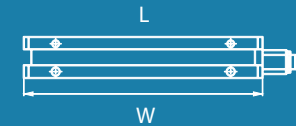
- + Quick Push-pull connector
- + Stoppers on 2 sides, 2 - 4 chuck clamps (depending on the size of the chuck)
- + 3 m long armoured cable

OPTIONS FOR MASTERMILL CHUCKS

- + Different cable junction box location
- + Through-going holes for fixing the chuck to the machine table
- + Holes for pole extensions
- + Fixed and adjustable pole extensions, allowing machining from 5 sides

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Movable pole extensions

Turbomill 40B



Milling

CONSTRUCTION

- + Transverse poles, pole division 40 mm of steel, 16 mm of epoxy resin
- + Chuck height: 80 mm
- + Nominal holding force: 180 N/cm²

APPLICATION

- + Five sided machining
- + Milling
- + Drilling
- + Boring of large molds, ingots, blocks, frames, etc.
- + Recommended minimum workpiece thickness: 20 mm



Model	W [mm]	L [mm]	H [mm]
TB40300346	300	346	80
TB40300570	300	570	80
TB40400794	400	794	80
TB403001018	300	1018	80
TB405001018	500	1018	80
TB406001018	600	1018	80

SCOPE OF SUPPLY

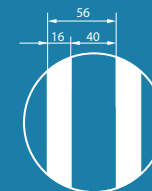
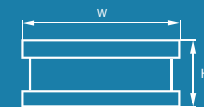
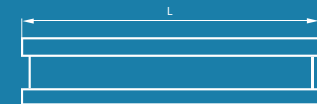
- + Stoppers on 2 sides
- + Cable junction box on long side
- + 3 m long armoured cable
- + 4 chuck clamps

OPTIONS FOR TURBOMILL CHUCKS

- + Holes for pole extensions
- + Fixed and adjustable pole extensions, allowing machining from 5 sides

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Turbomill 18



Milling

CONSTRUCTION

- + Transverse pole division: 18 mm of steel, 10 mm of epoxy resin
- + Nominal holding force: 140 N/cm²



APPLICATION

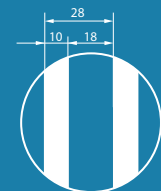
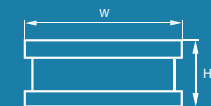
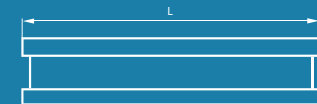
- + Surface milling and drilling of medium to large sized plates, from 200 x 200 mm and heavy duty grinding operations

SCOPE OF SUPPLY

- + Stoppers on 2 sides
- + Cable junction box on long side
- + 3m long armoured cable
- + 4 chuck clamps

SUITABLE CONTROL UNIT

- + Consult with us a suitable control unit and electrical connection.
- + For more information, refer to the section **control units on pg. 33.**



Model	W [mm]	L [mm]	H [mm]
TB18300310	300	310	80
TB18300480	300	480	80
TB18400760	400	760	80
TB183001100	300	1100	80
TB185001100	500	1100	80
TB186001100	600	1100	80

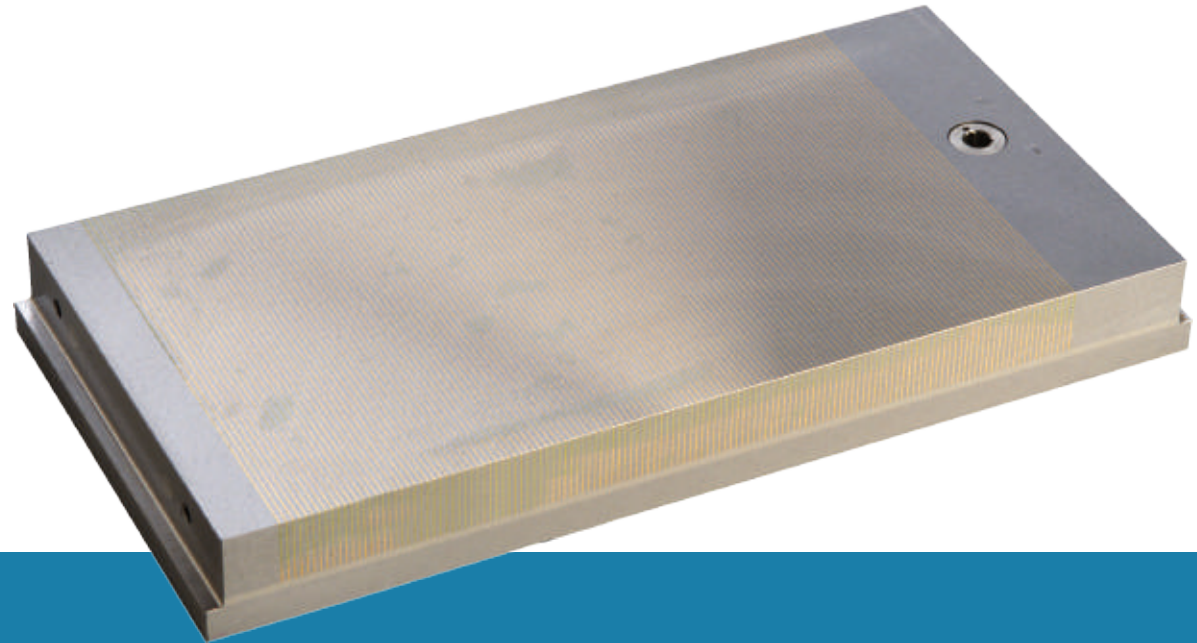
Neospark



EDM

CONSTRUCTION

- + Solid top plate with transverse poles, pole division 1.4 mm steel and 0.5 mm brass
- + Life span (regrinding limit): 7 mm
- + Dual Neodymium magnetic system; nominal holding force: 100 N/cm²
- + Solid steel base with integrated actuating mechanism
- + Waterproof assembly



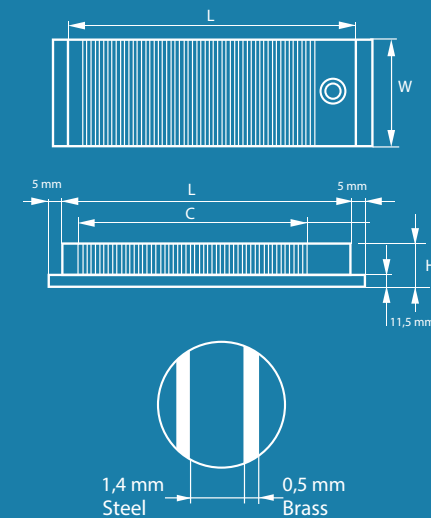
APPLICATION

- + EDM, possible to submerge in dielectric liquid
- + Precision grinding of very small and thin up to large components

SCOPE OF SUPPLY

- + Set of clamps
- + Allen key

Model	W [mm]	L [mm]	C [mm]	H [mm]	Weight [kg]
NEOK100175	100	175	120	32	5
NEOK130255	130	255	200	32	9
NEOK150150	150	150	95	35	7
NEOK150300	150	300	245	35	13
NEOK150350	150	350	295	35	15
NEOK150450	150	450	395	35	19
NEOK200400	200	400	342	35	23



Neomicro pallet



EDM



Surface grinding

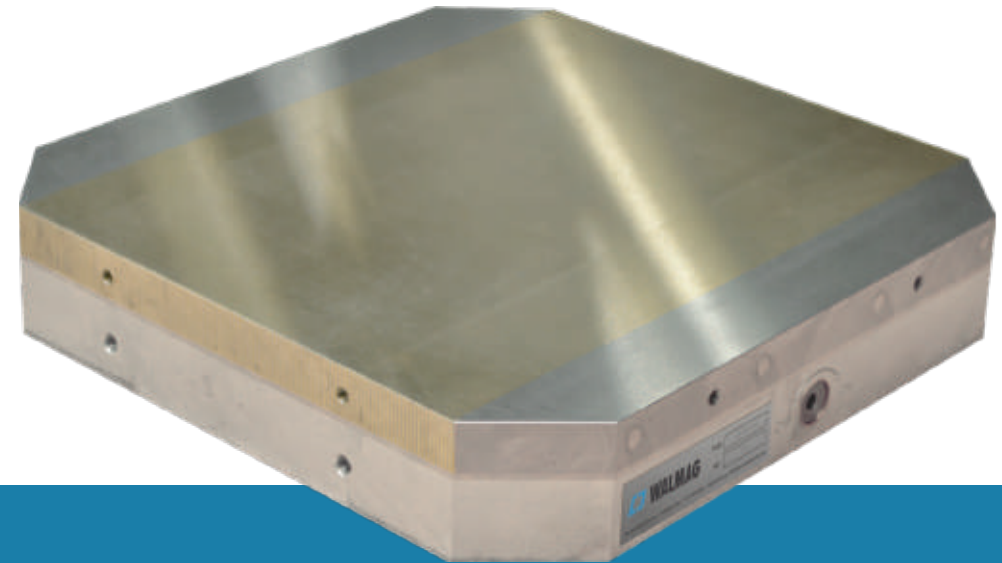


Pallets

Walmag Magnetics range of magnetic pallet chucks are designed for use in conjunction with zero-reference systems, like System 3R, Erowa, Hirschmann and others. The magnetic pallets are typically square with sharp or cut-off corners and can be either mounted on top of a pallet or fitted with zero reference elements. The advantage of the latter version being the lower height and weight of the clamping tool.

CONSTRUCTION

- + Micropitch pole division, 1.4 mm of steel, 0.5 mm of brass
- + Life span of top plate: 7 mm
- + Neodymium magnetic system, nominal holding force: 100 N/cm²
- + Solid aluminium body

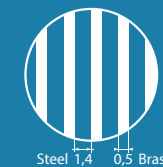
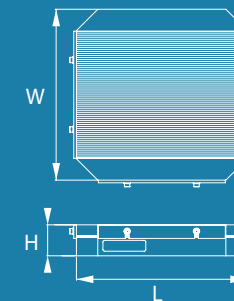


APPLICATION

- + Holding of very small to large components
- + Precision grinding
- + Spark erosion (die sinking)

SCOPE OF SUPPLY

- + Back and end stop
- + Allen key



Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOC240240P	240	240	63,5	21,5
NEOC280280P	280	280	63,5	29
NEOC320320P	320	320	63,5	38

Neomill compact pallet



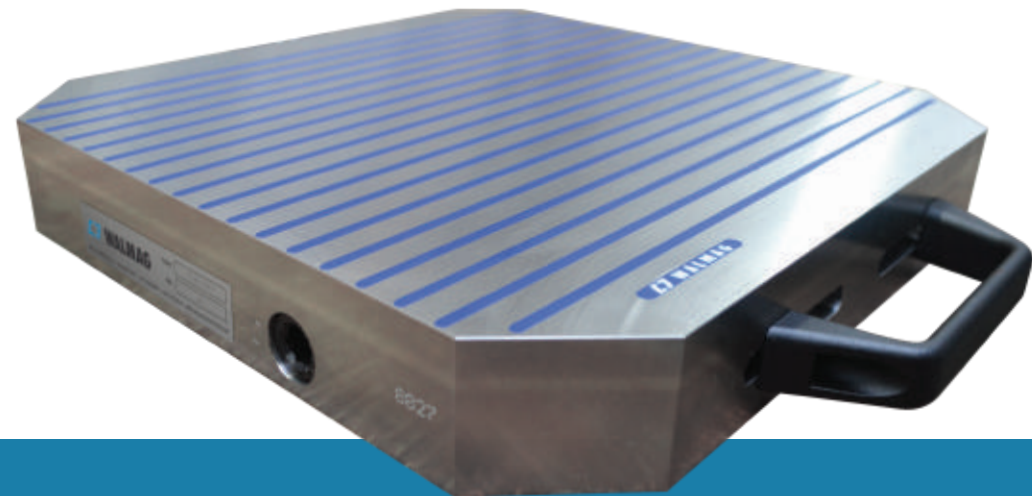
Milling



Pallets

CONSTRUCTION

- + Transverse pole division, 11 mm of steel, 4 mm of epoxy
- + Life span of top plate: 10 mm
- + Neodymium magnetic system, nominal holding force: 160 N/cm²

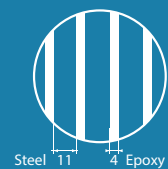
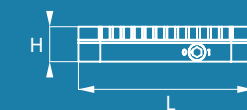
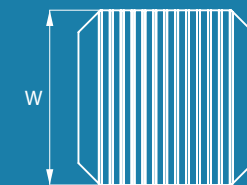


APPLICATION

- + Holding of small to large components
- + Medium duty and high speed milling
- + Heavy grinding

SCOPE OF SUPPLY

- + Back and end stop
- + Allen key



Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOM240240P	240	240	48	21
NEOM280280P	280	280	48	28
NEOM320320P	320	320	48	37

Neopower pallet



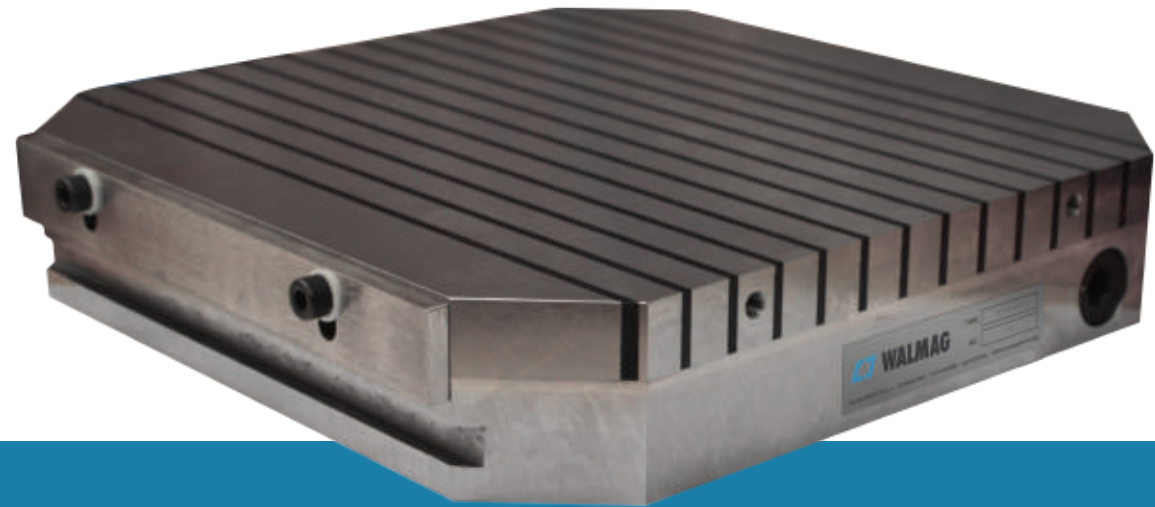
Milling



Pallets

CONSTRUCTION

- + Transverse pole division, 15 mm of steel, 4 mm of epoxy
- + Life span of top plate: 8 mm
- + Neodymium magnetic system, nominal holding force: 170 N/cm²
- + Solid steel body

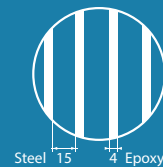
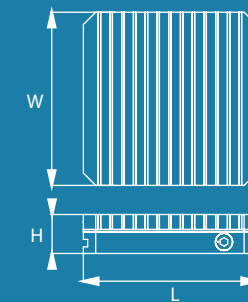


APPLICATION

- + Holding of medium size to large components
- + Heavy duty and high speed milling
- + 5-Sided machining
- + Drilling, tapping
- + Heavy grinding

SCOPE OF SUPPLY

- + Back and end stop
- + Allen key



Model	W [mm]	L [mm]	H [mm]	Weight [kg]
NEOP240240P	240	240	60	27
NEOP280280P	280	280	60	37
NEOP320320PZ	320	320	60	46
NEOP320320P	320	320	60	48

E-P Chuck Control Units



Control units



Model	Protection level	Number of chucks in the series	Type
MCF1	IP54	1	control unit built into steel enclosure
MCF2	IP54	1-2	control unit built into steel enclosure
MCF3	IP54	1-3	control unit built into steel enclosure
MCF4	IP54	1-4	control unit built into steel enclosure
CUR20S	IP54	1-2	control unit built into steel enclosure

Chuck control units for electromagnets



Control units



Model	Protection level	Wattage	Type
M850	IP00	850W	a control panel for installation in a machine
M850	IP54	850W	control unit built into steel enclosure
MT1250	IP00	1250W	a control panel for installation in a machine
MT1250	IP54	1250W	control unit built into steel enclosure
MT2500	IP00	2500W	a control panel for installation in a machine
MT2500	IP54	2500W	control unit built into steel enclosure

DESCRIPTION AND FUNCTION

Chuck control units convert the AC (alternating current) input from the power line into DC (direct current) output to “feed” the coils of the chuck. A microprocessor based control board in the unit allows adjusting the clamping force of the magnet and also automatic demagnetization. An important function lies in operator safety: The chuck control prevents the machine from running if the holding force of the chuck is too low.

SAFETY

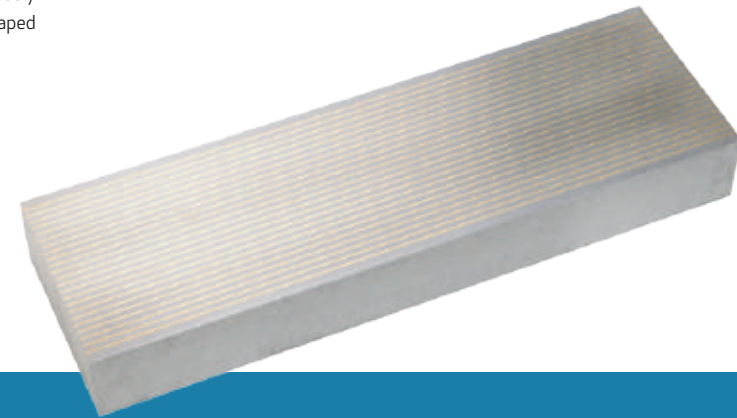
Apart from the fact that our control units comply with the IEC electrical standards they also comply with the provisions of the European Machinery Directive 2006/42/EC. A safety contact inside the unit prevents the machine from running if the magnet is not switched on or if the holding force is too low.

Laminated Blocks and Plates



Lamella
blocks

WALMAG MAGNETICS supplies silver brazed laminated blocks and top plates as accessories for rectangular and circular chucks. They can be placed loosely on top of a magnetic chuck or fixed by pins and bolts. As such they widen the application possibilities of the chuck, like holding non flat or irregularly shaped components.



PLATES AND BARS WITH TRANSVERSE POLES

Model	W [mm]	L [mm]	H [mm]
LB2510075TP	75	100	25
LB25200100TP	100	200	25
LB25250150TP	150	250	25
LB25300200TP	200	300	25
LB25300250TP	250	300	25

PLATES AND BARS WITH LONGITUDINAL POLES

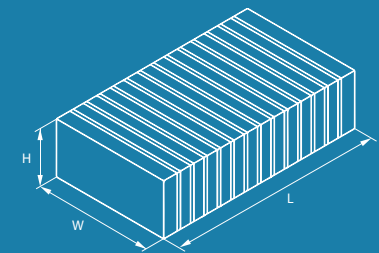
Model	W [mm]	L [mm]	H [mm]
LB257575LP	75	75	25
LB2575100LP	75	100	25
LB2575200LP	75	250	25
LP2575300LP	75	300	25
LB25100100LP	100	100	25
LB25100200LP	100	200	25
LB25100300LP	100	300	25
LB25200200LP	200	200	25
LB25200300LP	200	300	25
LB25250250LP	250	250	25
LB25300300LP	300	300	25

FEATURES AND APPLICATIONS

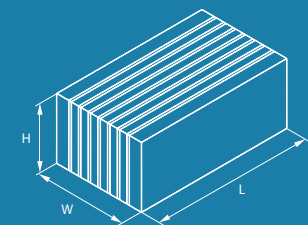
- + Walmag Magnetics laminated blocks and plates are silver brazed products with 3 mm of steel and 1 mm of brass laminations
- + Being solid pieces without bolts or tie-bars, they can be machined to practically any desired shape to suit one or multiple components
- + Also, our laminated bars with longitudinal poles (laminations) can be cut into thin spacers or small adapter plates
- + Rectangular and circular laminated plates are typically used as adapter plates
- + Also, these plates can be used to reduce the pole pitch of the chuck enabling the holding of small and thin components

PRODUCT RANGE

- + Plates and bars with transverse poles
- + Bars with longitudinal poles
- + Rectangular and circular adapter plates
- + V-blocks with 90-degree prism
- + Standard thickness: 25 mm



Plates and bars with transverse poles



Plates and bars with longitudinal poles

Demagnetization

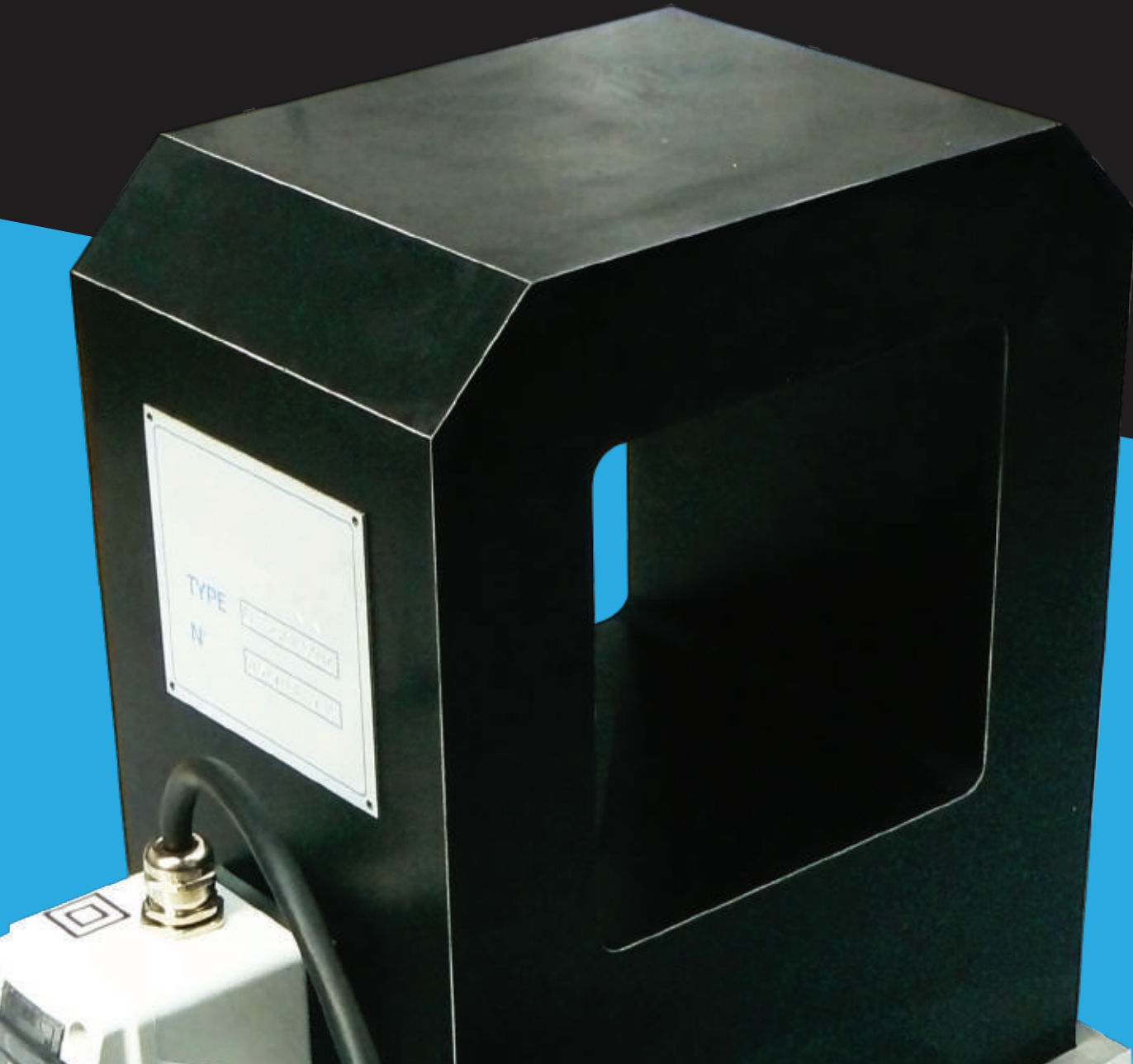
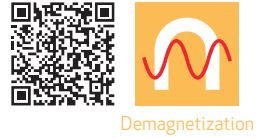


Table Demagnetizer DM



CONSTRUCTION

- + Lightweight aluminum body
- + Stainless steel top plate
- + Double pole switch with signal light
- + Power cord 3 m with plug
- + Input voltage: 230V/50Hz

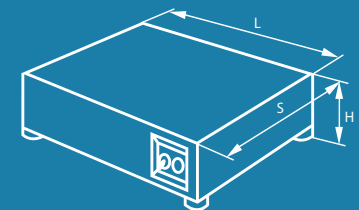


FEATURES

- + Large effective area
- + Automatic increase of demagnetizing field with workpiece volume
- + Field penetration up to 40 mm

APPLICATION

- + Manual demagnetization of tools, dies, bearings and other flat parts
- + Under a conveyor belt of a production line
- + Several tables can be mounted side by side to create a larger working area



Model	L [mm]	S [mm]	H [mm]	Voltage [V]	Weight [kg]
DM 3	250	180	87	230	8,8
DM 4	280	266	87	230	14
DM 5	400	306	87	230	19
DEM-4 EL	280	280	86	230	15

Other voltage on request

Hand Demagnetizer HD



Demagnetization

Walmag hand demagnetizers series HD feature a lightweight plastic body with a large handle with push button for easy manipulation.

They are typically used in situations where the component is too big or difficult to get access to.

CONSTRUCTION

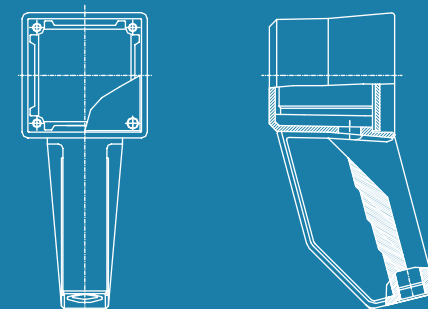
- + Sturdy plastic body with large handle
- + Incorporated push button
- + Protection against overheating
- + Field penetration up to 30 mm
- + Duty cycle: 20%
- + Power cord 3 m with plug
- + Input voltage: 230V/50-60Hz



APPLICATION

- + Demagnetizing of small to large components
- + Maximum operating time: 10 minutes

Model	Active area	Supply [VA]	Demagnetising field	Depth of the magnetic field	Weight [kg]
HD-1	105 x 75 mm	300	max.2000 A/m	max. 20 mm	1,9
HD-2	105 x 95 mm	350	max.2000 A/m	max. 30 mm	2,2



Tunnel Demagnetizer



Tunnel or aperture type demagnetizers are designed for large cylindrical or box shaped components or bulk demagnetization of thin-walled work pieces. The size of the component should preferably match the aperture dimensions. They are designed for continuous duty and suitable for use in a production line.

CONSTRUCTION

- + Demagnetizing core firmly fixed by high-strength resin
- + Solid aluminium base with circuit breaker, switch and signal light
- + Power cord 3 m
- + Input voltage 230/400 V
- + Protection against overheating
- + Duty cycle: 100%

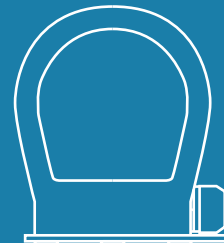


Model	Hole size [mm]	Power supply [V / Hz]
TDM5 230	600 x 420	230 / 50
TDM5 400	600 x 420	400 / 50
TDM4 230	460 x 465	230 / 50
TDM4 400	460 x 465	400 / 50
TDM2 230	255 x 255	230 / 50
TDM2 400	255 x 255	400 / 50
TDM1 230	180 x 180	230 / 50
TDM1 400	180 x 180	400 / 50

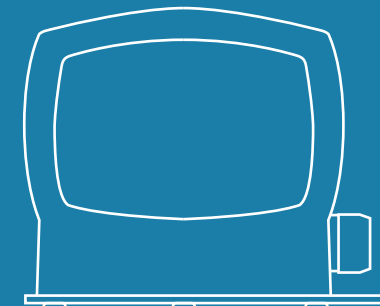
Optional supply: customized conveyor belt



TDM1 & TDM2



TDM4



TDM5

TM - 801



Demagnetization



TM - 801 is a practical hand-held meter with a digital display

APPLICATION

- + Measuring residual magnetism in workpieces
- + Measuring the magnetism in products after magnetic clamping
- + Measuring the magnetic induction in electric machines
- + Measuring the properties of magnetic materials

ADVANTAGES

- + Probe for better accessibility during measurements
- + Possible connection to a computer via USB
- + 130 - 160 hours of battery life

Model	Range [mT]	W [mm]	L [mm]	H [mm]	Weight [g]
TM - 801	0 - 3000.0	64	140	30	250

Handling



NEO



Lifting

Improved version of switching with the Easy Switch system. The new system allows you to switch the magnet On and Off using just one hand, saving 40% of time!

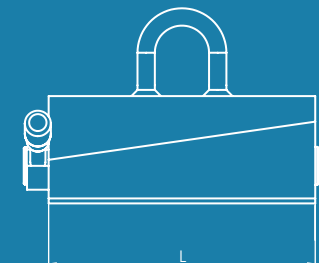
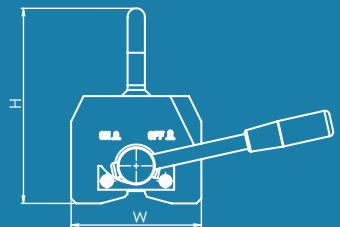
CONSTRUCTION

- + Tremendous lifting capacity thanks to high energy Neodymium magnets
- + Suitable for both flat and round material
- + Easy activation of the magnet
- + Safety factor at least 3:1 – break away test carried out with an air gap
- + Robust construction ensures high durability even under harsh conditions
- + Designed for materials up to 80 °C



APPLICATION

- + In all sectors of the metal working industry
- + In the workshop to load, unload machine tools
- + At construction sites to lift plates, beams and weld fabrications
- + In the warehouse to handle plate and bar stock



Model	W [mm]	L [mm]	H [mm]	Ø of eye [mm]	Weight [kg]	Tested lifting capacity [kg]	Workload limit flat materials [kg]	Workload limit round materials [kg]	Ø min / max [mm]
NEO 150	60	93	120	10	3	450	150	65	40/100
NEO 300	100	152	180	16	10	900	300	150	60/200
NEO 600	120	246	180	20	21	1800	600	300	65/270
NEO 1000	146	306	236	20	40	3200	1000	500	100/300
NEO 2000	165	478	273	20	90	6200	2000	1000	150/350

NEO HOT



Lifting

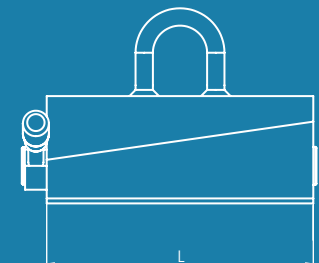
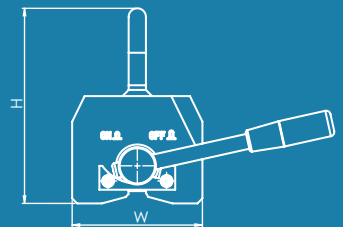
CONSTRUCTION

- + Tremendous lifting capacity thanks to high energy Neodymium magnets
- + Suitable for both flat and round material
- + Easy activation of the magnet
- + Safety factor at least 3:1 – break away test carried out with an air gap
- + High durability even under harsh conditions
- + High permissible load temperature of **180 °C**



APPLICATION

- + Particularly where hot materials are handled
- + In the workshop to load, unload burning tables
- + In heat treatment sectors
- + In steel mills to handle hot cut offs



Model	W [mm]	L [mm]	H [mm]	Ø of eye [mm]	Weight [kg]	Tested lifting capacity [kg]	Workload limit flat materials [kg]	Workload limit round materials [kg]	Ø min / max [mm]
NEO H 125	60	93	120	10	3	450	125	65	40/100
NEO H 250	100	152	180	16	10	800	250	150	60/200
NEO H 500	120	246	180	20	21	1600	500	300	65/270
NEO H 1000	146	306	236	20	40	3200	1000	500	100/300
NEO H 2000	165	478	273	20	90	6200	2000	1000	150/350

NEO HV



Lifting

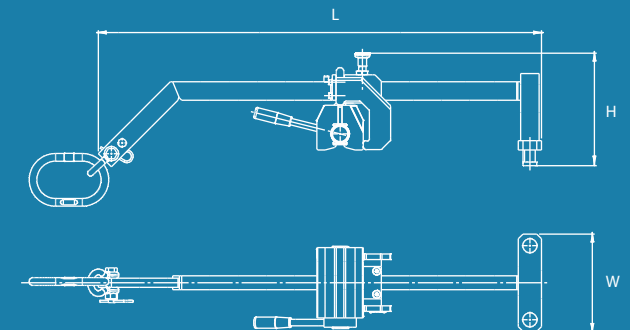
CONSTRUCTION

- + The "HV" lifting arm transforms your standard NEOLIFT or NEO HOT magnet into a handling device
- + The magnet's position is adjustable to suit a range of diameters or widths
- + The lifting arm with stoppers enables rotating work pieces through 90° and vertical transport



APPLICATION

- + Very convenient for loading and unloading of horizontal machining centers and lathes
- + Handling of vertically stored steel plates



Model	W [mm]	L [mm]	H [mm]	Capacity [kg]	Workpiece width [mm]	Weight [kg]
NEO-HV 250	210	958	244	250	300-800	27
NEO-HV 500	210	1158	244	500	300-1000	38
NEO-HV 1000	210	1211	297	1000	300-1000	59

BM



Lifting

BM 1350, BM 2500, BM 3600, BM 5000

These models are designed to lift heavy, thick plates and blocks. Thanks to the good depth of field, these models cope very well with ingots and forgings.

APPLICATION

- + Handling heavy loads up to 5,000 kg
- + Lifting cut-off from saws and burning tables
- + Handling loads with poor accessibility (using IR remote control)
- + Model BM 3600 is specially designed for plate lifting
- + New function Variable force - pre-setting of lower magnetic field intensity according to actual need
- + The „Tip-off“ feature allows to drop excess plates in case multiple plates are picked up from a stack

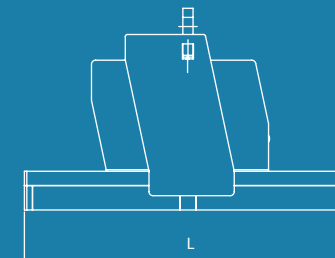
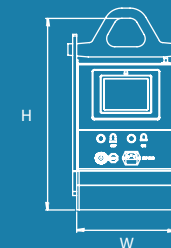
CONSTRUCTION

- + Solid magnetic base with durable embedded coil
- + Powered by built-in 12 V battery
- + At least 8 hours of operation at 50% duty
- + Hand-held, IR remote control unit allows to operate the lifting magnet from up to 10 metres
- + High degree of safety (coefficient 2)
- + Controller/battery enclosure with detachable front and back panel



HIGH DEGREE OF SAFETY

- + Bail sensor prevents switching off the magnet while the load is being lifted
- + Dual push buttons for RELEASE
- + Visual and audible alarms indicate low battery level
- + Magnet cannot be turned „ON“ if battery charge is too low



Model	Flat material [kg]	Tested lifting capacity [kg]	L x W of base [mm]	Height up to crane hook [mm]	Weight [kg]	Built in battery [V/Ah]	Type of battery
BM 1350	1350	2700	272 x 242	460	60	12V / 35 Ah	FG12 - 35 D
BM 2500	2500	5000	400 x 242	460	72	12V / 75 Ah	FG12 - 75 D
BM 3600	3600	7200	1050 x 240	460	180	12V / 75 Ah	FG12 - 75 D
BM 5000	5000	10000	1200 x 300	460	203	12V / 75 Ah	FG12 - 75 D

BMP



Lifting

BMP 1800, BMP 3600

These so-called bi-polar lifting magnets with V shaped pole shoes are designed to lift both flat and round material as well as I- and H-beams, angles, channels, Tees and Profiles. Thanks to the good depth of field, these models cope very well with irregular surfaces and air gaps.

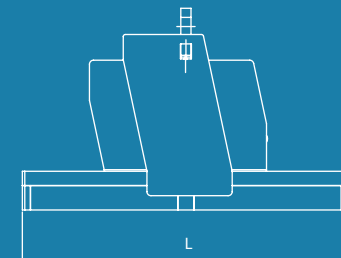
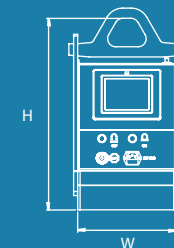
CONSTRUCTION

- + Heavy duty magnetic base with fully encapsulated coil
- + Powered by built-in 12 V battery
- + At least 8 hours of operation at 50% duty
- + Hand-held, IR remote control unit allows to operate the lifting magnet from up to 10 metres
- + High degree of safety (coefficient 2)
- + Controller/battery enclosure with detachable front and back panel



HIGH DEGREE OF SAFETY

- + Bail sensor prevents switching off the magnet while the load is being lifted
- + Dual push buttons for RELEASE
- + Visual and audible alarms indicate low battery level
- + Magnet cannot be turned „ON“ if battery charge is too low



Model	Flat material [kg]	Round material [kg]	Tested lifting capacity [kg]	L x W of base [mm]	Height [mm]	Weight [kg]	Built in battery [V/Ah]	Type of battery
BMP 1800	1800	1100	3600	470 x 242	610	167	12V / 75 Ah	FG12-75 D
BMP 3600	3600	2200	7200	760 x 262	610	420	12V / 75 Ah	FG12-75 D

NEO EP



Lifting

NEO EP magnets are the professional solution for the frequent handling of workpieces. They have a very robust construction and are designed for continuous use. The electronic control allows the operator to turn the unit on and off without any physical effort, even on hard to reach areas. The permanent magnet system can be activated via pushbuttons in 0.8 seconds, and when you turn off the workpiece is released safely. The connection to the mains voltage (230 VAC) is very easy. Thus, the device is ready for use with very low installation effort. If the power fails, the load is held by the permanent magnet field, eliminating the need for a failure prone and maintenance-intensive back-up battery.

CONSTRUCTION

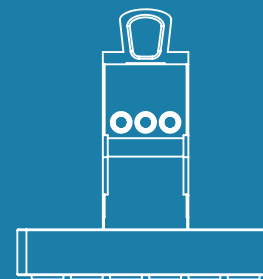
- + Stable housing with forged lifting eye
- + High-quality, recessed, stainless steel operating buttons
- + Magnetic base module in monoblock design



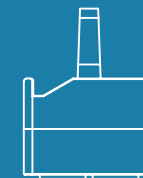
Model	W [mm]	L [mm]	H [mm]	Number of poles	Pole structure	Breakaway [kN]	Clamping surface [mm]	Weight [kg]
NEO EP 300	164	164	420	4	50	14	116x166	23
NEO EP 600	95	420	450	6	50+	22	372x52	44
NEO EP 1000	228	228	295	4	80	36	172x172	77
NEO EP 4000	228	783	295	16	80	144	724x172	132



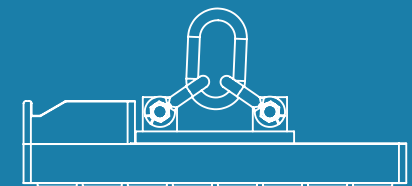
NEO EP 300



NEO EP 600



NEO EP 1000



NEO EP 4000

GP 250

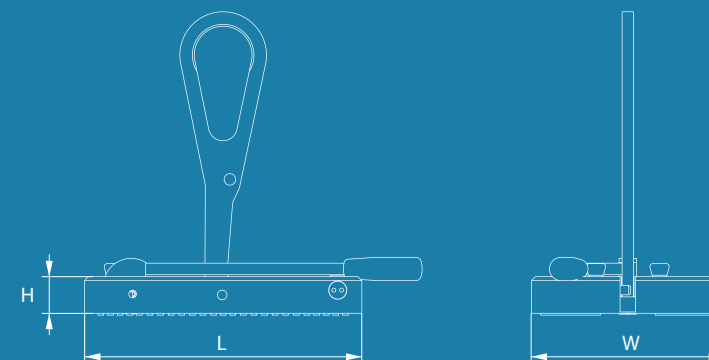


Lifting

The first magnet of its kind to comply with UNI EN 13155 standard. Recommended for steel sheets from 3 mm thick and up. Easy lifting and handling of horizontally or vertically stacked sheets. Sheets and plates can be turned through 90 degrees. Generous safety factor of 4:1 (tested break away force more than four times higher)!

CONSTRUCTION

- + Single piece body with solidly fixed magnetic system
- + Unique pole configuration reducing thin sheet peel off tendency
- + Large lifting eye, lockable in the vertical position
- + Release lever safety lock



Model	W [mm]	L [mm]	H [mm]	Horizontal limit [kg]	Vertical limit [kg]	Weight [kg]	Tested break away force [daN]
GP250	200	288	40	250	80	9,75	1100

Manual handling



Manual handling

Hand magnets are intended for manual handling of blocks, sheets and other ferromagnetic pieces.



MC-2



MC-4



MC-2S



„TOUCHER“ MAGNET HM-S1

Small, light and handy for picking up small blocks and plates (cut shapes, forgings, stampings, small work pieces, etc.), for which the MC-2 lifter is too big.



HAND MAGNET WITH STRAP WRM

Hand magnet with strap WRM is indispensable for picking up thin sheets from the stack. The lifting capacity is 5 kg.

MC RANGE HAND MAGNETS

Magnetic „claws“ for quick and easy handling. They are excellent for handling sheets, burnt pieces, smaller steel blocks, and the like. These magnets are intended exclusively for manual operation. Suspending them from a (crane) hook, a structure, a pole, etc. is not permitted and can result in damage to the magnet or injury to the operator. Always wear protective gear when handling objects with magnetic claws.

Model	W [mm]	L [mm]	H [mm]	Max. capacity [kg]	Weight [kg]
MC-2	150	160	27	90	1,4
MC-4	40	288	288	330	3
MC-2S	160	230	24	330	2,9
WRM-1	30	50	20	5	0,5
HM-S1	50	92	35	20	0,9

Heavy handling



Industrial Magnetic Lifting Systems

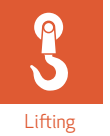


PLATE HANDLING

- + magnetic spreader beams for plates of all dimensions
- + standard plates from 3 mm thickness upwards
- + TIP-OFF function to enable single plate lift
- + step less magnetization, allowing to lift a preselected quantity of plates
- + various types of telescopic beams

HANDLING AT CUTTING TABLES

- + machine productivity increase through time savings while removing cut parts from the table
- + after burning, cut parts and skeletons are unloaded in a single lift reducing the handling cost by at least 50%

BUNDLE HANDLING

- + quick and efficient manipulation of whole bundles of profiles
- + quick preparation of single profiles thanks to sliding poles
- + TIP-OFF function for separating various types of single profiles from a bundle
- + mechanical facilities for the manipulation of pallets / stacking systems with chains or hooks

COIL HANDLING

- + very quick vertical and horizontal manipulation
- + no damage to material
- + efficient storage, no need to have gangways (handling from above)

SPECIAL PURPOSE SYSTEMS

- + custom-made solutions to perform special handling jobs, e.g. smaller system with lightweight battery magnets

SCRAP HANDLING

- + electromagnets for all types of scrap
- + wide range of designs, diameters and capacities to suit all applications

SOPHISTICATED CONTROL SYSTEMS FOR ELECTROMAGNETS

- + version with transformer or converter with dynamic demagnetization
- + load test, TIP-OFF function, optional step less magnetization, quick demagnetization, visualization of the system condition
- + standard 20 minutes battery back-up, on-line monitoring of the battery condition, optional remote system condition diagnosis, quick service

REFERENCES:



Magnetic drilling machines



Magnetic drilling machines



Drilling

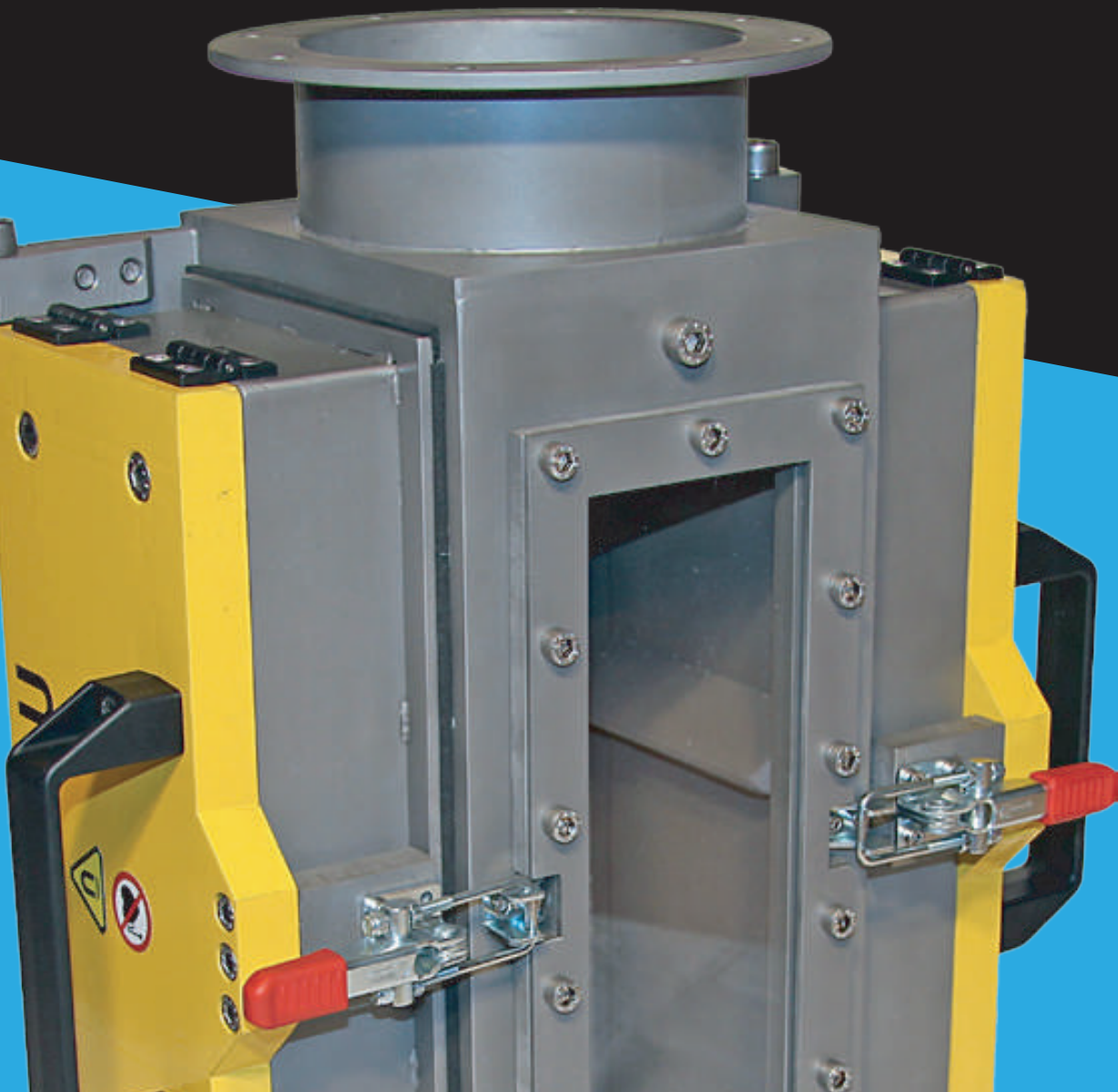


Model	MD 1050	MD 1050-S	MD 1100	MD 1375	MD 1375-S	MD 1800	MD 2050	ACU 500*	AIR 400**
Max. ø coronal cutter	ø 12 - 32 mm	ø 12 - 32 mm	ø 12 - 40 mm	ø 12 - 50 mm	ø 12 - 50 mm	ø 12 - 80 mm	ø 12 - 100 mm	ø 12 - 36 mm	ø 12 - 52 mm
Max. ø twist drill	ø 1 - 13 mm	ø 1 - 13 mm	ø 1 - 16 mm	ø 1 - 23 mm	ø 1 - 23 mm	ø 1 - 31,75 mm	ø 1 - 31,75 mm	ø 1 - 13 mm	-
Tapping	-	M3 - M12	-	-	M3 - M20	-	M3 - M30	-	-
Countersink	-	ø 10 - 25 mm	-	-	ø 10 - 40 mm	-	ø 10 - 50 mm	-	-
Length	255 mm	255 mm	320 mm	320 mm	320 mm	365 mm	365 mm	297 mm	340 mm
Width	210 mm	210 mm	210 mm	210 mm	210 mm	310 mm	310 mm	112 mm	250 mm
Height	370 - 512 mm	370 - 512 mm	395 - 540 mm	385 - 550 mm	385 - 550 mm	510 - 710 mm	510 - 710 mm	420 - 610 mm	560 mm
Stroke	150 mm	150 mm	150 mm	170 mm	170 mm	260 mm	260 mm	230 mm	120 mm
Weight	12 kg	12,6 kg	12,1 kg	13,5 kg	14 kg	28 kg	28 kg	15 kg	13 kg
Dimensions of magnet (L x W x H)	160 x 80 x 42 mm	160 x 80 x 48 mm	160 x 80 x 42 mm	170 x 85 x 48 mm	170 x 85 x 48 mm	220 x 110 x 64 mm	220 x 110 x 64 mm	160 x 80 x 42 mm	220 x 75 mm
Power consumption	1050 W	1050 W	1100 W	1375 W	1375 W	1800 W	2050 W	-	-
Speed	775 min ⁻¹	100 - 600 min ⁻¹	(I) 720 min ⁻¹ (II) 1300 min ⁻¹	(I) 380 min ⁻¹	(I) 100 - 280 min ⁻¹	(I) 200 min ⁻¹	(I) 42 - 110 min ⁻¹ (II) 65 - 190 min ⁻¹ (III) 140 - 400 min ⁻¹ (IV) 220 - 620 min ⁻¹	506 min ⁻¹	400 min ⁻¹
Chuck	19,05 mm Weldon	19,05 mm Weldon	19,05 mm Weldon	MC.2	MC.2	MC.3	MC.3	19,05 mm Weldon	19,05 mm Weldon
Voltage	110V/220V	110V/220V	110V/220V	110V/220V	110V/220V	110V/220V	110/220V	100 - 240 V AC	-

* Cordless magnetic drill

** Pneumatic magnetic drill - air consumption 0.9 m³/min; min. working pressure of 6.3 bar (90 PSI)

Separation



Separation



SEPARATORS FOR LOOSE MATERIALS

Magnetic separators solve problems with ferromagnetic parts (with special types also non ferrous metals) in the material stream. It immediately removes the metal contaminants out of it.

MAGNETIC PRODUCTS FOR VARIOUS INDUSTRIES

Magnetic filters/separators for the plastic industry, magnetic products for metal processing and engineering, magnetic products for junk yards.

SEPARATORS FOR LIQUID MATERIALS

Magnetic separator grid without box construction. The magnetic grid is for latching on to ferromagnetic particles in piles. The grid is fitted with very powerful NdFeB magnets and is able to grab even partially magnetic particles. The metals freely fall by disengaging the magnets from the stainless steel tubes. We can adapt the size to meet the customer's needs.

METAL DETECTORS

Conveyor metal detectors can be supplied with lockable reject bins which ensure that no rejected product can return to the production flow. The reliability and strong durability of the housing is guaranteed even in the harshest working environment.

OVERBAND MAGNETIC SEPARATOR WITH MANUAL CLEANING

Overband magnetic separators with manual cleaning can be suspended transversally or longitudinally above the conveyor belt discharger. Overband magnetic separator DND-MC with manual cleaning is used in plants with low occurrence of ferromagnetic particles, which have to be removed manually within specific time periods.

INLINE MAGNET

Inline magnets are designed for separation from very viscous material (none free flowing, bridging), where magnetic grate separators could clog.

MAGNETIC SORTING ROD

Magnetic sorting rods are fitted with very strong NdFeB magnets and are used for checking non-ferrous metals for example metal shavings, metal chips and other non-ferrous metals if they are contaminated with ferrous metals. The magnetic testing rod enables to detect even the smallest metallic contaminants immediately and effortlessly.

MAGNETIC DRUM SEPARATOR

Magnetic drum separator is widely used in applications where ferromagnetic parts from loose materials need to be separated. A magnetic drum is usually placed at the end of a conveyor belt or below the machine hopper. Unlike a magnetic pulley the magnetic drum is not part of the conveyor belt. The magnetic drum can be provided with NdFeB rare earth magnets or with ferrite magnets.

BOXED MAGNETIC GRID

Boxed magnetic grids are designed for separation of ferromagnetic particles from plastic granulates, regrunulates and regrinds. Inside the separator stainless steel box there are two magnetic grids placed underneath each other and fitted with powerful NdFeB magnets. The separation is more effective than by using just a single magnetic grid.



Sheet separators



Sheet
separators

ADVANTAGES OF SHEET SEPARATORS

- + stable magnet pack
- + no gradual loss of magnetic power
- + no special precautions for storage
- + stainless steel cover
- + robust construction
- + high separating power yet compact dimension
- + large range of sizes
- + very simple mounting

Sheet separators for thin sheets up to 0,25 mm especially made for automatic sheet feeders to avoid double sheet feeding.

The sheet separator must be higher than the stack to obtain correct separation. Add the width of the magnet to the stack height to obtain the right magnet length.

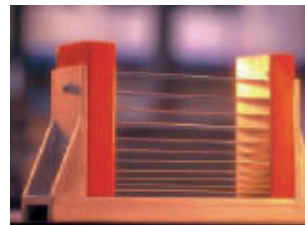
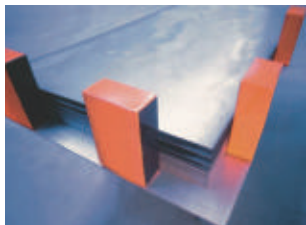
WHAT DOES A SHEET SEPARATOR DO FOR YOU?

Our sheet separators were specially developed to permit easy and uninterrupted removal of steel sheets stacked horizontally, or vertically. No more prying apart of greasy or oily sheets.

CHOOSE THE RIGHT TYPE OF SHEET SEPARATOR

Selection of the best type and quantity depends on the following factors:

- + stack height
- + flatness of the sheets
- + surface condition
- + thickness and dimensions of the sheets





+420 573 341 641

info@walmag.cz

www.walmagmagnetics.com



Subject to change - Valid from 05/17