28007 Permanent magnetic clamping plates

ATORN®

Design
- Double neodymium magnet system for exceptionally high retention forces (up to 120 N/cm²)
- Very robust structure with rugged basic body and solid pole plate
- Sealed against dirt and coolant
- Extremely close pole pitch (ST 1.4/NF 0.5)

Scope of delivery:
With 2 limit stop strips,
2 adjustable clamps,
indexing wrench,
operating instructions.

Applications
For precise grinding and erosion work. Universal magnet for small, thin and large workpieces.

28007

Length mm	Width mm	Height mm	Weight kg	Thickness of pole plate mm	Of which usable mm	Pole pitch: steel/non-ferrous metals mm	28007	...
175	100	49	7	20	5	1.4/0.5		202
200	100	49	8	20	5	1.4/0.5		203
250	150	51	15	20	5	1.4/0.5		204
350	150	51	22	20	5	1.4/0.5		205
400	200	51	35	20	5	1.4/0.5		206

28009 Sine bars with permanent magnetic clamping plate

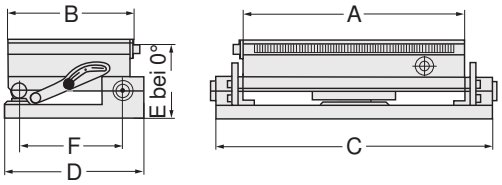
ATORN®

Design
- Angle adjustment using gauge blocks
- Base plate hardened and precision-ground, HRC 60
- Plane parallelism +/- 0.005/100 mm
- Pivots through 0-45° around longitudinal axis
- Sealed against dirt and coolant
- Repeat accuracy +/- 5 sec.
- Adhesive force: max. 80 N/cm²
- Magnetic field height 6 mm

Scope of delivery:
With 2 limit stop strips,
spanner,
operating instructions,
sine table.

Applications
For precise angle and erosion work.
For small and large workpieces.

28009



A mm	B mm	C mm	D mm	E mm	Roller distance F mm	Pole pitch Steel/Non-ferrous metals mm	Weight kg	28009	...
140	70	170	100	68	55	1.4/0.5	5.5		101
175	100	215	115	77	85	1.4/0.5	10.0		102
250	150	290	165	79	135	1.4/0.5	20.5		103
350	150	390	165	87	135	1.4/0.5	35.0		104
450	150	490	165	87	135	1.4/0.5	44.0		105

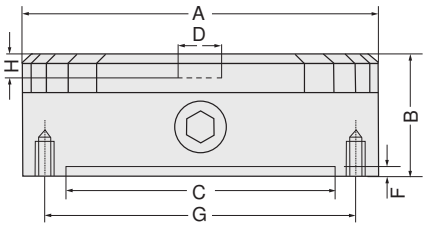
28010 Round permanent magnetic chucks

Design
- **Extremely high-strength magnet system with fine parallel pole pitch**
- On/off switching via hand lever
- Machined centring grooves for easier alignment
- Infinitely **adjustable adhesive force**
- Adhesive force: max. 80 N/cm²

Applications
For grinding and eroding, even of small workpieces.

Note:
Centring holes possible if required. Holes can also be drilled into the top plate (steel 15 mm/non-ferrous metals 6 mm) without impairing the adhesive force.

28010



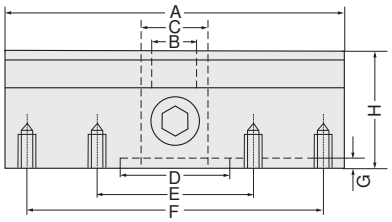
A mm	B mm	C mm	D mm	F mm	G mm	H mm	Threaded hole	Pole pitch, steel/non-ferrous metals mm	Weight kg	28010	...
130	62	90	15	2.5	120	7	4 x M 6	4/1.5 + 2/1.5	5		102
160	75	125	20	3.0	142	6	4 x M 8	6/1.5 + 2/1.5	8		103
200	80	150	20	4.5	182	6	4 x M 8	6/1.5 + 2/1.5	13		104
250	80	200	20	4.5	232	6	4 x M 8	6/1.5 + 2/1.5	20		105

28012 Round permanent magnetic chucks

Design
- **High-strength neodymium magnet system with radial parallel pole pitch**
- On/off switching via hand lever
- Machined centring grooves for easier alignment of workpieces
- Adhesive force: max. 100 N/cm²

Applications
For grinding and turning.

Note:
The chucks can be provided with a through-bore on request.



28012

A mm	H mm	B mm	C (max.) mm	D mm	G mm	F mm	Threaded holes	Number of poles	Weight kg	Switching points	28012 ...
150	60	15	20	90	4	115	M 8 x 15 (4)	10	8	1	**101**
200	60	20	25	160	4	180	M 8 x 15 (4)	12	14	1	**102**
250	60	20	25	200	4	235	M 10 x 15 (4)	12	23	1	**103**
300	80	35	40	250	4	270	M 12 x 20 (7)	14	43	1	**104**

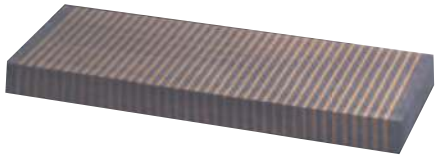
28042 Laminated blocks

Design
- **Silver-soldered steel/brass connection**
- **Flat**
- With transverse pole pitch (piece)
- Laminations made from 3 mm steel/1 mm brass
- Magnetic

Applications
For use with magnetic clamping plates only.

Note:
The blocks can be machined on all sides in order to customise them to the workpiece.

28042



Length x width x height mm	28042 ...
150 x 75 x 25	**202**
250 x 75 x 25	**203**

28050 Manual demagnetising device

Design
- With signal lamp
- On/off switch and connecting cable with plug
- Voltage: AC 230 V, 50 Hz

Applications
Easy demagnetisation of workpieces with residual magnetism.

Note:
Max. switch-on time 10 minutes

28050

Length x width x height mm	Power VA	28050 ...
120 x 105 x 180	1330	**101**

Info Electro permanent magnetic clamping plates

wagner magnete

A new generation of clamping plates that offer striking advantages over the familiar electromagnetic or permanent magnetic clamping plates:

Greater accuracy	• No heat generation
Optimum safety	• By remote control of the magnet
Extremely economical	• Only requires a short current pulse to initiate the clamping process; the clamping operation then runs without a current supply until it is switched off
Direct connection to machines	• Via pulse control with NC control
High operational reliability	• In the event of a power failure, the actuated clamping plate retains its full adhesive force

The adhesive force depends on the type of pole pitch and the percentage of the board occupied, as well as the contact surface, thickness, surface quality and material quality of the workpiece.

A complete clamping unit consists of:
- Electro permanent magnetic plate
- Pulse control
- Control unit

Please contact us for information!