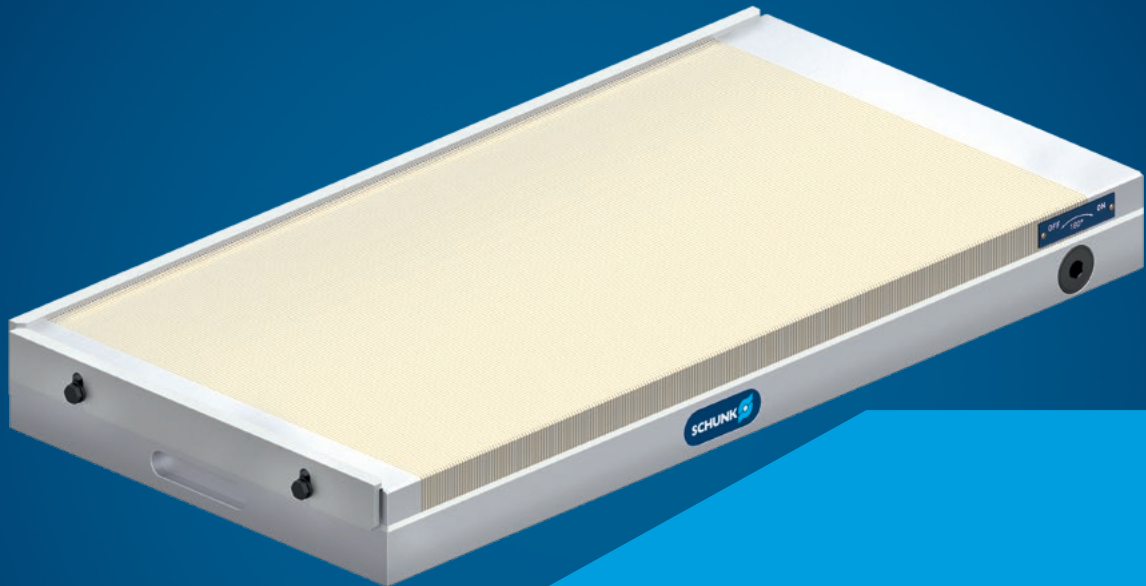




MAGNOS MSC-PM15

**Manual magnetic chucks for
grinding applications**

Manual magnetic chucks with fine, fully metallic pole pitch for precise clamping of small workpieces on grinding machines

MAGNOS magnetic chucks for grinding applications are longitudinally or transversely poled magnetic chucks. Due to their low overall height, low weight, and the resulting lower table load, the plates with parallel pole technology are universally applicable. MAGNOS MSC-PM15 magnetic chucks are actuated manually via a lateral hexagon connection. Due to their fine, fully metallic pole pitch, small workpieces in particular can be clamped highly precisely without the magnetic chuck becoming significantly hot.

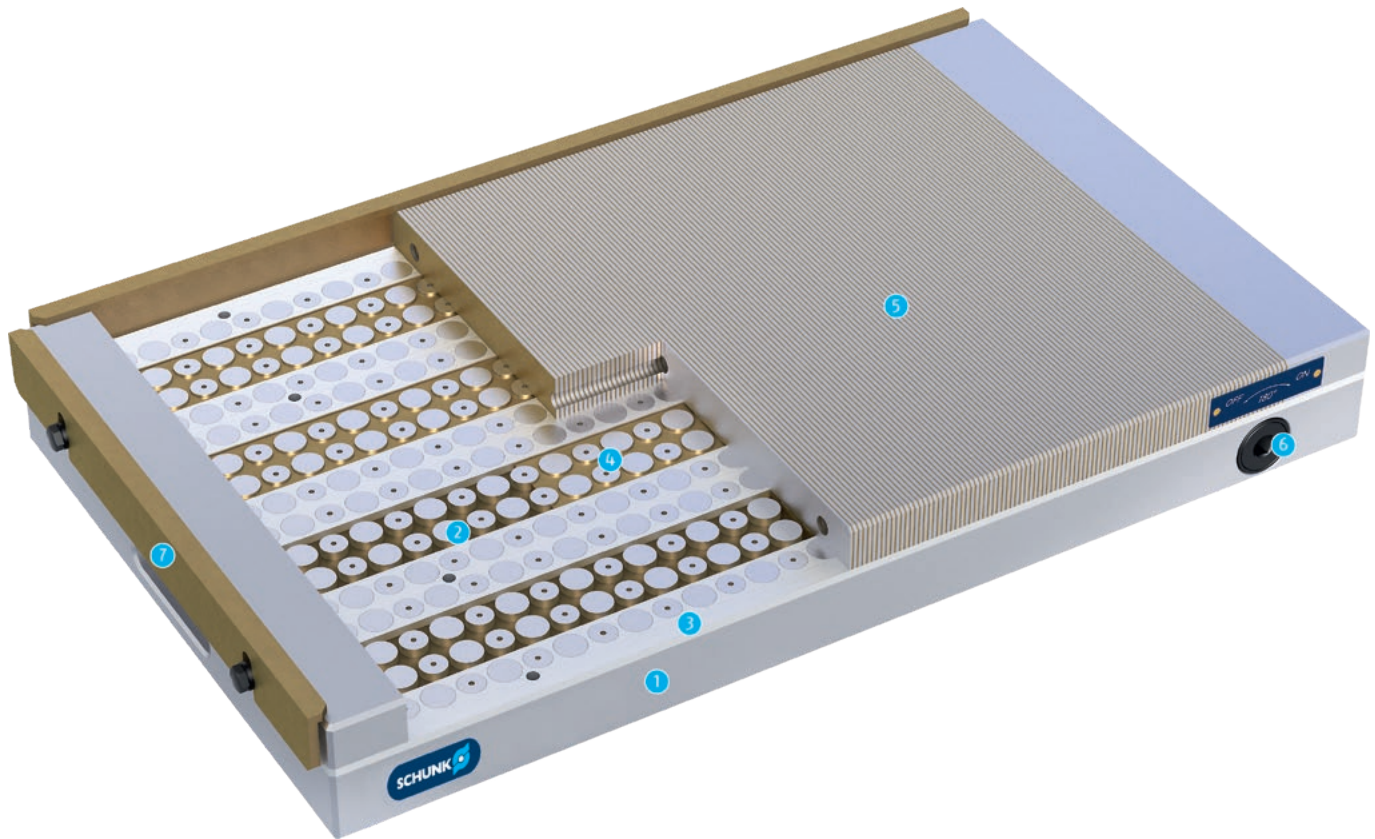


Advantages – Your benefits

- + Fine, fully metallic parallel pole pitch**
Enables very precise clamping, especially of small workpieces
- + Even permanent magnetic clamping force across the entire workpiece**
Low deformation and vibration clamping of the workpieces
- + Low vibration clamping**
Improved surfaces and significantly increased precision
- + Deformation-free clamping**
No deformation and internal forces in the workpiece due to the clamping force
- + Mono-block design**
Compact and robust design with high rigidity
- + Clamping within a few seconds**
Shortest possible setup times and a resulting increase in productivity
- + Low magnetic field height**
Prevents a magnetization of the machining tools

Function MSC-PM15

MSC-PM15 magnetic chucks are manually actuated. The MAG/DEMAG process is initiated by means of a rotation with an actuation wrench. During activation the permanent magnet is internally shifted, which guides the magnetic field either outwards or inwards. The bigger the pole pitch, the deeper the magnetic field penetrates into the workpiece. Large pole pitch for large workpieces, small pole pitch for thin workpieces.



- 1 Stable base body**
For optimum clamping results with an additional coating against corrosion
- 2 Permanent magnets with different polarity**
For activation and deactivation of the magnetic chuck by reciprocal movement
- 3 Aluminum segments**
As a fixed connection of the permanent magnets with the magnetic chuck
- 4 Brass segments**
As a movable connection of the permanent magnets with the magnetic chuck
- 5 Support plate**
Consisting of steel/brass segments for transmitting the magnetic field to the workpiece
- 6 Connection with hexagon socket**
For activation and deactivation of the magnetic chuck by rotary movement
- 7 Workpiece stop bar**
For prepositioning of workpieces



Subject to technical changes.

① Connection for actuation with hexagon socket

Technical data

Description	ID	Length L [mm]	Width B [mm]	Height H [mm]	Weight [kg]
MSC-PM15 180 x 100	0422171	175	100	52	7
MSC-PM15 250 x 130	0422172	250	130	60	16
MSC-PM15 250 x 150	0422173	250	150	60	18
MSC-PM15 300 x 150	0422174	300	150	60	22
MSC-PM15 350 x 150	0422175	350	150	60	25
MSC-PM15 450 x 150	0422177	450	150	60	32
MSC-PM15 320 x 200	0422178	320	200	60	31
MSC-PM15 400 x 200	0422180	400	200	60	38
MSC-PM15 500 x 300	0422186	500	300	60	72
MSC-PM15 600 x 300	0422187	600	300	60	86

Scope of delivery

Magnetic chuck, removable hexagon socket wrench, operating manual

Notes

General note

Magnetic chucks with neodymium magnets, fully metallic surface, and lateral actuation.

Field of application

For small and thin workpieces.

Magnetic chucks of the same height

The magnetic chucks are height-adjustable ± 0.5 mm by default.
Equal-height magnetic chucks are available on request.

Further technical data

Pole pitch [mm]	Min. material thickness [mm]	Min. workpiece size [mm]	Max. working temperature [°C]
1.5 + 0.8	1.5	20 x 20	80

Accessories

Manual gaussmeter

For determining the residual magnetism in the workpiece after machining.

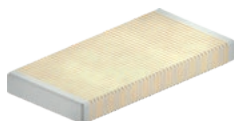


Suitable for	Description	ID
MSC-PM15	MG10	0422950

Laminated blocks/laminated plates

Laminated plate

For milling contours and special forms.



Suitable for	Description	Length mm	Width mm	Height mm	ID
MSC-PM15	MSC-PS10 200x100	200	100	21	0422092
MSC-PM15	MSC-PS10 250x130	250	130	21	0422093
MSC-PM15	MSC-PS10 300x150	300	150	21	0422094
MSC-PM15	MSC-PS10 350x150	350	150	21	0422095
MSC-PM15	MSC-PS10 400x200	400	200	21	0422096
MSC-PM15	MSC-PS10 500x200	500	200	21	0422097



**H.-D. SCHUNK GmbH & Co.
Spanntechnik KG**

Lothringer Str. 23
D-88512 Mengen
Tel. +49-7572-7614-1300
Fax +49-7572-7614-1039
CMM@de.schunk.com
schunk.com