SCHUNK

MAGNOS

Double magnets for traveling columns and gantry machines

Hand in hand for tomorrow





MAGNOS Double Magnets
Magnetic. Strong. Flexible.

Magnetic flexibility for efficient workpiece machining.
Fast set-up, effortless handling – simplifies your everyday industrial routines.

Fields of application

For any machine type

The SCHUNK double-magnet system is the perfect solution for every machine type. No matter which machine it is, medium-sized or large-scale machines, gantry machines or traveling columns – the double magnets flexibly adapt to each requirement. The system offers complete flexibility and enables effortless machining of heavy workpieces. Easy handling and the modular design make set-up more efficient and work processes even more effective.

For any machine table

Versatility for any machine table. The double-magnet system perfectly fits on T-slots, steel plates and grid holes. No matter which machine type is used – you benefit from easy positioning and effortless handling. Efficient set-up and precise machining of the workpieces is child's play. Discover the freedom and flexibility of the modular system. Simplify your workflows and increase productivity.



With the help of the SCHUNK magnetic solution, large-format welded constructions of up to 12,000 mm can be processed on a Correa FOX M gantry type milling machine.

Advantages – Your benefits

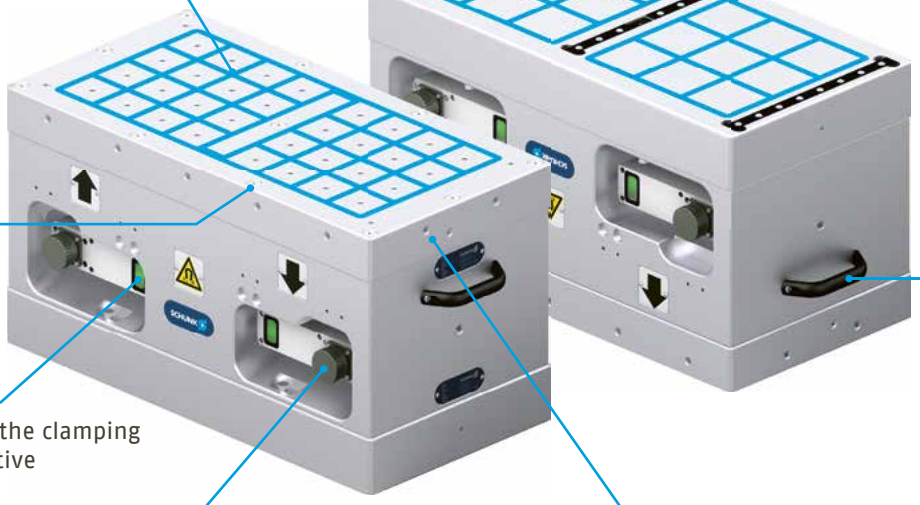
- Total flexibility for any clamping situation
- Shortens set-up time for workpieces of different sizes
- Free positioning on the machine table (independent of T-slots or grid holes)
- Easy positioning of the modules due to integrated rollers on the machine table side
- Easy handling and moving of the double magnets on the machine table without the need for a crane
- Modular system
- No additional substructure required, 5-sided machining possible
- Ergonomics for the workers
- The advantages of the magnetic clamping technology such as distortion-free clamping of large workpieces remain unchanged



The machine table is completely covered with a steel plate and surface-milled. On this mirror-finish surface, the clamping modules can be easily positioned. The ideal distance of the double magnets was tried in series of tests.

Robust, versatile, efficient. For small and large workpieces.

MAGNOS double magnets effortlessly handle even heavy workpieces with impressive strength. Versatile adaption to different machine tables and types allows flexible applications. Thanks to its efficiency, they shorten set-up times and increase productivity of your manufacturing processes.



Ball rollers machine-sided

for easy moving by hand

Workpiece clamping

on the upper magnet, pole size A1-050

Clamping against the machine table

on the lower magnet A2-070

Locking caps

to avoid accumulation of chips

Handles

for easy handling

Status display

for visual display of the clamping status of the respective magnetic chuck

Threaded holes

on all sides for eye bolts

Quick release fastener

With one turn of the hand: Fast connection of magnetic chuck and control unit

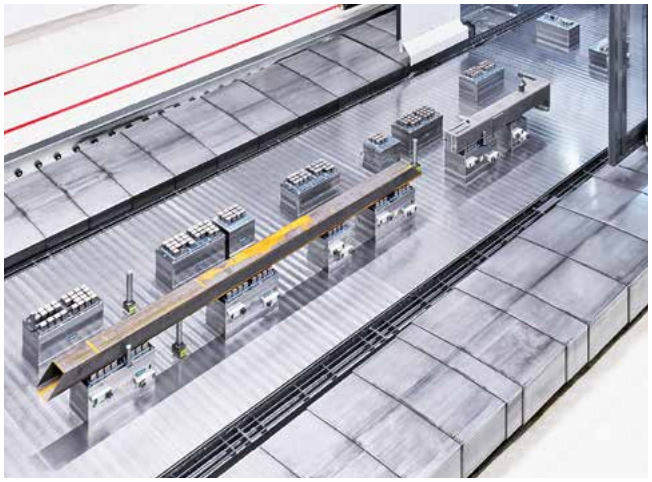
Easy plant engineering

Moving, activating, done!

The double-magnet system simplifies set-up of large workpieces and facilitates or accelerates daily work routines. The heavy clamping devices can be removed with ease without any cranes at all. The intuitive handling allows fast activation and set-up, independent from machine type or table. Flexibly usable on T-nuts, steel plates or grid holes, valuable time can be saved during workpiece processing. Experience the efficiency of our modular systems and optimize productivity of your plant.



As soon as the lower magnetic chuck is deactivated, the machine operator can effortlessly move the clamping block by hand.



The machine table of the gantry type milling machine measures 12,500 mm x 3,000 mm. A partition wall allows machining in shuttle operation.

Revolutionized magnetic field control

The MAGNOS MFRS magnetic chucks require only a short electric pulse through which the coils are briefly energized. This pulse reverses the polarity of the reversible AlNiCo magnets. Due to the special arrangement of the neodymium permanent magnets, the magnetic field is subsequently short-circuited in the magnetic chuck or guided outwards into the workpiece, and the magnetic field is amplified, depending on the state.



Since the machine table is free of grooves and holes it is very easy to clean. Once the clamping modules are positioned, the tubes and welding frames are placed on the MAGNOS clamping modules by crane and clamped.

Powerful. Flexible. Precise. Easy handling, efficient results.

SCHUNK standard double magnets for any traveling columns and gantry machines



MFRS-DM-A1-050 430 x 315 x 346

Technical data	
Description	MFRS-DM-A1-050
ID	1546522
Size [mm] L x W x H	430 x 315 x 346
Number of poles [upper side]	24
Number of channels	1
Weight [kg]	225
Max. clamping force [kN]	94.2
Connection	4-PIN



MFRS-DM-A1-050 630 x 315 x 346

Technical data	
Description	MFRS-DM-A1-050
ID	1546528
Size [mm] L x W x H	630 x 315 x 346
Number of poles [upper side]	32
Number of channels	1
Weight [kg]	370
Max. clamping force [kN]	125.6
Connection	4-PIN



MFRS-DM-A1-050
815 x 315 x 346

Technical data

Description	MFRS-DM-A1-050
ID	1546542
Size [mm] L x W x H	815 x 315 x 346
Number of poles [upper side]	40
Number of channels	1
Weight [kg]	450
Max. clamping force [kN]	157
Connection	4-PIN



MFRS-DM-A1-050
1030 x 315 x 346

Technical data

Description	MFRS-DM-A1-050
ID	1546544
Size [mm] L x W x H	1030 x 315 x 346
Number of poles [upper side]	48
Number of channels	1
Weight [kg]	600
Max. clamping force [kN]	188.4
Connection	4-PIN

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ID-No. 23131540
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1563632-1.5M-09/2023