SCHUNK

MAGNOS

Magnetic Lifting Technology

Manual and electro-permanent lifting magnets for loading machine tools and for handling heavy loads

Hand in hand for tomorrow

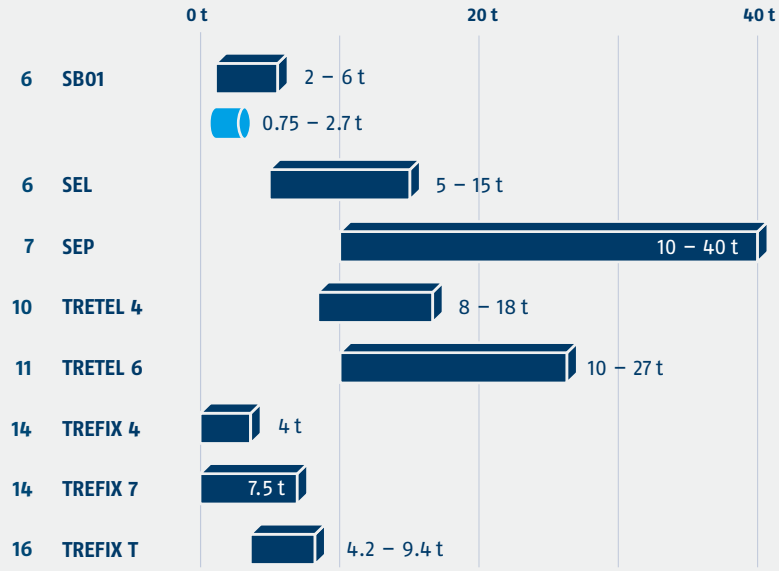
Diverse. Strong. Reliable.

MAGNOS magnetic lifting technology from SCHUNK is the perfect option for high lifting and safe holding capacity without the need of external energy supply. With its comprehensive range of simple lifting magnets to powerful electro-permanent lifting devices, MAGNOS ensures the easy handling of ferromagnetic workpieces up to 40 tons reliably and deformation-free in no time at all.

Magnets for easy lifting/machine loading

- Magnetic modules for easy, secure and fast handling of light-weighted workpieces up to 2 tons.
- For slewing/jib cranes and lightweight manipulators.
- The workpiece characteristics determine the selection of the type (min. workpiece thickness, max. weight, min. & max. workpiece dimensions, workpiece temperature if above 80 °C).
- No external power supply required (except for SEM modules, power supply must be provided by the customer), can be attached and used quickly and flexibly at various workstations.

Magnets for heavy lifting



For the correct selection of the load lifting magnet type, the requirement process, the workpiece characteristics (minimum workpiece thickness, maximum weight, minimum and maximum workpiece dimensions, workpiece temperature if above 80 °C), and the environmental conditions must be taken into account: maximum crane capacity in tons and operating environment (outdoor/indoor).

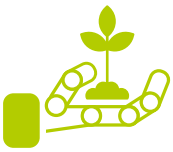
Electro-permanent Magnetic Lifting Technology

The electro-permanent magnetic lifter ensures absolute process reliability even in the event of a power failure. No additional buffer batteries are required. The load remains on the magnetic lifter indefinitely without changing the clamping force. This system also saves energy as it only requires the power supply during the MAG and DEMAG cycles.

Autonomous
Electro-permanent lifting magnets from SCHUNK are self-sufficient, meaning they only require short electric impulses for the MAG/DEMAG operations.

Reliable
Even when the power connection is interrupted, the magnet reliably holds the workpiece.

	Electromagnet	SCHUNK electro-permanent
Transport movements/strokes	100	100
Power consumption/time per stroke	3 minutes	10 seconds (MAG/DEMAG cycle)
Best energization time per 100 strokes	5 hours	0.28 hours
Consumed energy (KW)	60 KW	6.7 KW
		90% energy saving



The effects of climate change have been obvious for some time, which is why the question of protecting our planet is increasingly discussed.

Every decision or action that we take every day has an impact on the environment and the ecological footprint, which will leave deep marks on future generations.

SPEEDY BAT

The Speedy Bat electro-permanent magnetic lifter is designed to lift flat and round workpieces with high reliability. It is versatile as no electrical connection is required except for charging. The standard high-performance battery allows for around 1,400 magnetization and demagnetization operations.

Load hook with proximity switch to prevent accidental deactivation

A magnetic sensor prevents the demagnetization command from being activated when the load is attached and the workpiece is being handled. This process can only be triggered when the load is securely set down and the load eye is relieved.

Process reliability

Thanks to the power of permanent magnets, the load can be handled reliably even without a power supply.

Versatile

No electrical connection is required except during charging.

Handheld remote control
Included in the scope of delivery

SPEEDY BAT for flat material

Battery-operated electro-permanent magnetic lifter for lifting and handling of flat material of various dimensions. No electrical connection is required except during charging. Thanks to the strength of permanent magnets, the load can be handled reliably even without an external power supply. The remote control and the load-bearing head with proximity sensor offer a plus in ergonomics and control when moving workpieces.

SPEEDY BAT for round material

Battery-operated electro-permanent magnetic lifter for lifting and handling of round material of various dimensions. No electrical connection is required except during charging. Thanks to the strength of permanent magnets, the load can be handled reliably even without an external power supply. The remote control and the load-bearing head with proximity sensor offer a plus in ergonomics and control when moving workpieces.

With remote control

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Load lifting cycles without charging	Charging time at full discharge	Hand-held remote control
1456150	electro-permanent	flat	500	15	250x110	2500x1500	min. 1400	max. 4 hours	Yes
1475093	electro-permanent	round	350	15	ø 50x250 mm	ø 300x2500 mm	min. 1400	max. 4 hours	Yes

Video of handling, with safety features

PROTECTION of worker's health and safety

SEFE-LFT certificate according to EU Directive 2023/35 EU (protection against hazards from electromagnetic fields)

With remote control

SB01

Battery-operated, electro-permanent SB01 magnetic lifter for lifting and handling various shapes and sizes.
No electrical connection is required except during charging.
Thanks to the strength of the permanent magnets, the load can be handled reliably even without a power supply.

ID	Magnet type	Workpiece shape	Holding force flat [kg]	Holding force round [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1346434	electro-permanent	flat/round	2000	750	40	flat | 360x200 round | ø85x360	flat | 3000x3000 round | ø225x3000	Yes
1303960	electro-permanent	flat/round	4000	1500	40	flat | 430x370 round | ø250x430	flat | 3000x3000 round | ø500x3000	Yes
1314928	electro-permanent	flat/round	6000	2700	40	flat | 520x480 round | ø250x520	flat | 3000x3000 round | ø750x3000	Yes

With remote control

SEL

SEL magnetic lifters for handling metal sheets of various thicknesses, pre-machined blocks as well as workpieces with small air gaps. Thanks to the well-structured design and safety factor of 3:1, it is suitable for heavy-duty applications. The pre-selection of holding force levels allows targeted lifting of individual workpieces in partial load/pick-up cycles. Lifting capacity: 5 to 15 tons.

Do you need solutions for handling workpieces over 15 tons? Please contact us.

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1458327	electro-permanent	flat	5000	8	750x650	6000x3000	Yes
1458328	electro-permanent	flat	10000	8	910x800	6000x3000	Yes
1595476	electro-permanent	flat	15000	8	1070x900	6000x3000	Yes

With remote control

SEP

SEP magnetic lifting modules for sheets, plates, and forged blocks with large air gaps. Thanks to the well-structured design and safety factor of 3:1, it is suitable for heavy-duty applications. The pre-selection of holding force levels allows targeted lifting of individual workpieces in partial load/pick-up cycles.
Lifting capacity: 10 to 40 tons.

Do you need solutions for handling workpieces over 40 tons? Please contact us.

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1458323	electro-permanent	flat	10000	35	650x650	6000x3500	Yes
1458325	electro-permanent	flat	15000	40	730x730	6000x3500	Yes
1458326	electro-permanent	flat	20000	40	830x830	6000x3500	Yes
1618759	electro-permanent	flat	30000	45	950x950	6000x3500	Yes
1618772	electro-permanent	flat	40000	90	1100x1100	6000x3500	Yes

With remote control

SEM

The compact load lifter has a modular design and is therefore versatile in its use for flat, round materials in the medium load range. The control unit is integrated, the magnetic modules are designed to ensure a safety factor of 3:1, and the safety load port prevents unintentional release of the load. Operation can be carried out on the module itself or ergonomically by remote control.

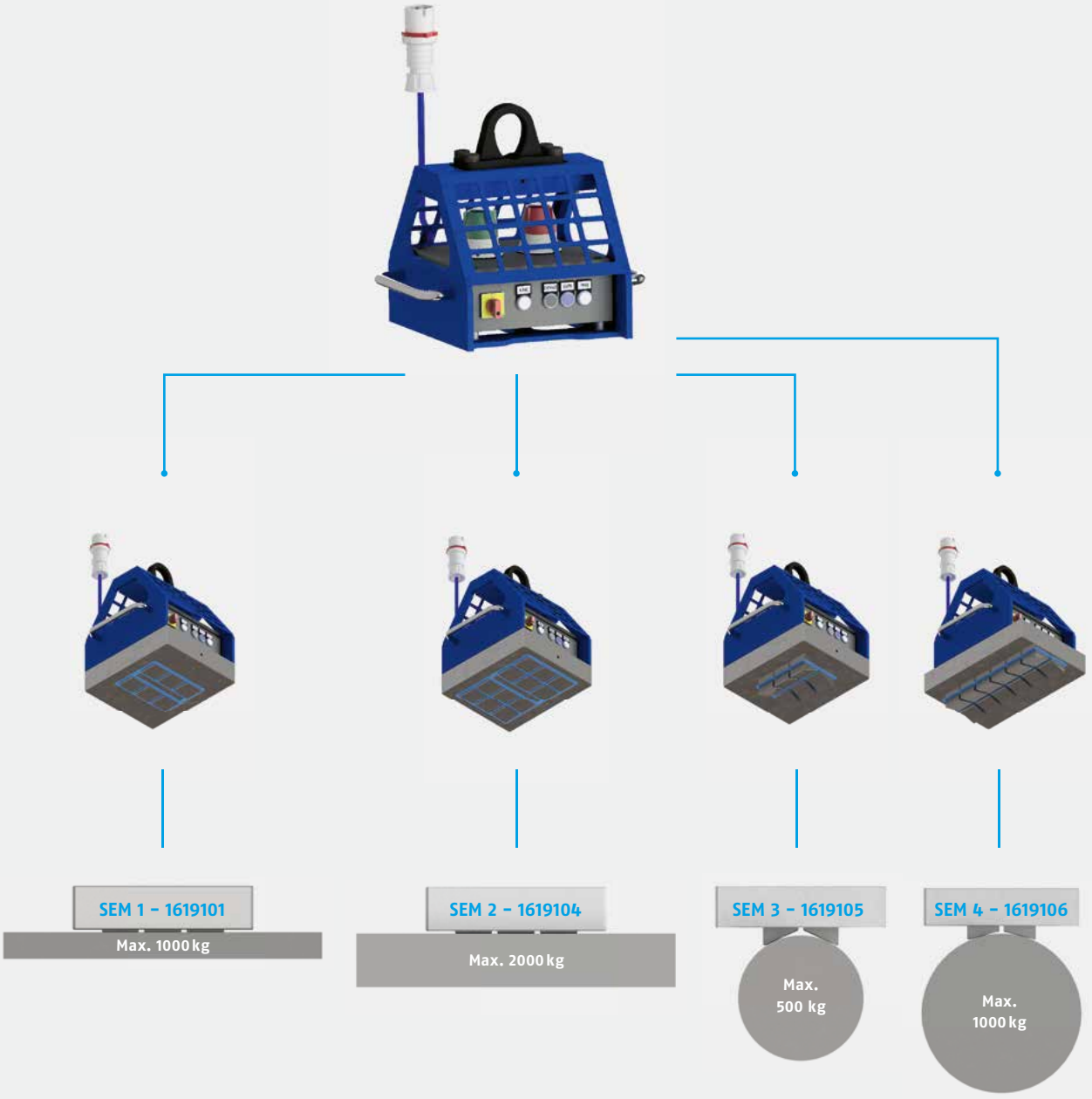
Do you require a specific version for handling special workpieces? Please contact us.

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1619101	electro-permanent	flat	1000	20	170 x 230	3000 x 3000	Yes
1619104	electro-permanent	flat	2000	20	230 x 340	3000 x 3000	Yes
1619105	electro-permanent	round	500	20	ø 80 x 300	ø 250 x 3000	Yes
1619106	electro-permanent	round	1000	20	ø 80 x 400	ø 350 x 3000	Yes

Modularity

SEM load lifters are modular. You always use the same control unit; only the magnetic configuration/design is adjusted. Round loads can be safely transported with the help of specific prismatic pole blocks.

Control unit + magnetic module + pole blocks



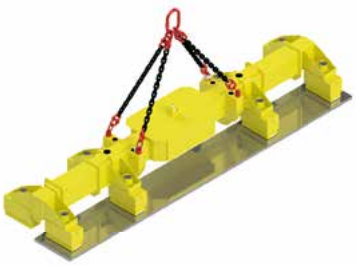
TRETEL 4

TRETEL 4 magnetic module traverse for reliable lifting and handling of individual sheet metal parts from 8 to 18 tons.

With remote control

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1619089	electro-permanent	flat	8000	5	3000 x 500	12000 x 3500	Yes
1458320	electro-permanent	flat	10000	5	3000 x 500	12000 x 3500	Yes
1458309	electro-permanent	flat	12500	5	3000 x 500	12000 x 3500	Yes
1320510	electro-permanent	flat	15000	8	3000 x 500	12000 x 3500	Yes
1522610	electro-permanent	flat	18000	8	3000 x 500	12000 x 3500	Yes

Limits of the holding force and workpiece dimensions for strip handling applications



ID	Holding force [kg]	Min. width [mm]	Max. width [mm]
1619089	2800	500	1200
1458320	3500	500	1200
1458309	4500	500	1200
1320510	5000	500	1200
1522610	6000	500	1200

TRETEL 6

TRETEL 6 magnetic module traverse for reliable lifting and handling of individual long-format metal sheets weighing from 10 to 27 tons.

With remote control

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1458320	electro-permanent	flat	10000	5	2800 x 500	16000 x 3500	Yes
1458321	electro-permanent	flat	14000	5	2800 x 500	16000 x 3500	Yes
1458322	electro-permanent	flat	18000	5	2800 x 500	16000 x 3500	Yes
1501642	electro-permanent	flat	22000	8	2800 x 500	16000 x 3500	Yes
1506724	electro-permanent	flat	27000	8	2800 x 500	16000 x 3500	Yes

Limits of the holding force and workpiece dimensions for strip handling applications

ID	Holding force [kg]	Min. width [mm]	Max. width [mm]
1458320	3500	500	1200
1458321	5000	500	1200
1458322	6000	500	1200
1501642	7500	500	1200
1506724	9000	500	1200

Magnetic traverse with extended hydraulic arms for loading of cutting systems

Magnetic traverse with extended hydraulic arms for loading of cutting systems

Magnetic traverse with retracted hydraulic arms for the transportation/ handling of thick sheet metal

TRETEL Technology

Selection options

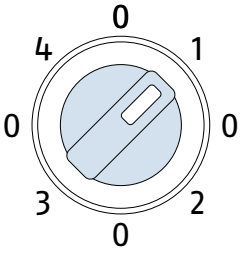
The electro-permanent telescopic arms are hydraulically extendable. In addition, 4 different operating modes can be selected depending on the dimensions of the load to be lifted.

A: Sheet metal pieces from 3 m to 5 m: only the intermediate modules

B: Sheet metal pieces from 6 m to 12 m: all modules

C: Sheet metal strips: only the modules on the left side

D: Sheet metal strips: only the modules on the right side



Holding force stages: preselection for individual transport

This is the only way to lift a specific workpiece in the pick-up cycle (partial load).
The magnetization should be selected according to the material thickness of the load to ensure safe transportation of the individual workpiece. After lifting the load, the full MAG cycle must be activated.

Transport movements should only be carried out when the green signal light is on!

TREFIX Rigid Traverse up to 7,500 kg

Rigid, compact traverse for handling thin metal sheets of medium formats. Easy and secure handling without deformation and damage, with compensation provided by magnetic modules that can retract into the cross traverses. With a safety factor of 3:1, the TREFIX system is suitable for high loads. Several holding force stages and the partial load/pick-up cycle, which are operated via remote control, ensure reliable lifting and handling of individual workpieces. TREFIX systems are available in various variants.

With remote control

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
1498577	electro-permanent	flat	4000	5	3000x1400	6000x3500	Yes
1619109	electro-permanent	flat	7500	8	3000x1400	6000x3500	Yes

Limits of the holding force and workpiece dimensions for strip handling applications

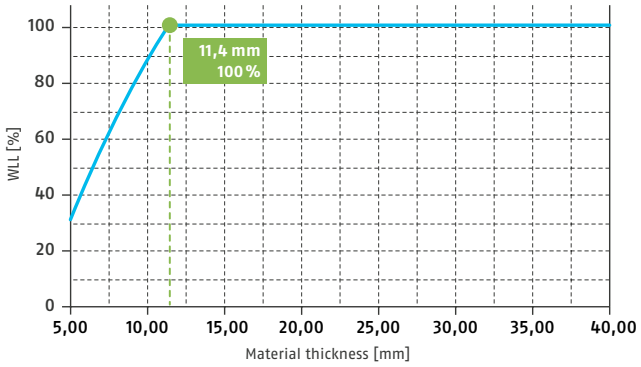
ID	Holding force [kg]	Min. width [mm]	Max. width [mm]
1498577	1500	500	1200
1619109	2500	500	1200

Technical information

Important technical information on the product and in the operating manual (OM) for safe operation (here, examplary diagrams for TRETEL).

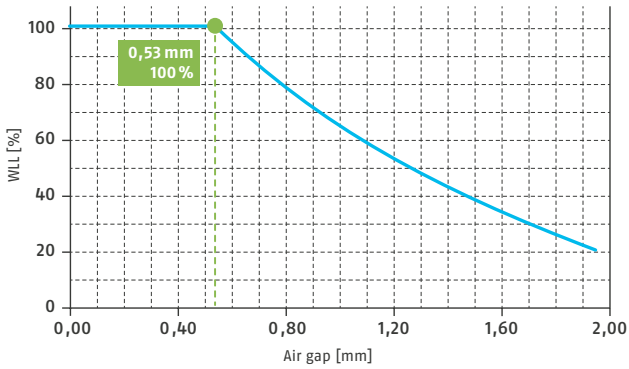
Diagram material thickness

Maximum permissible load capacity depending on the material thickness



Air gap diagram

Maximum permissible load capacity depending on the air gap

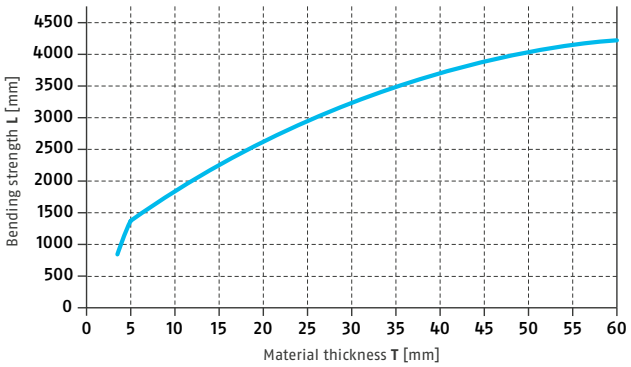


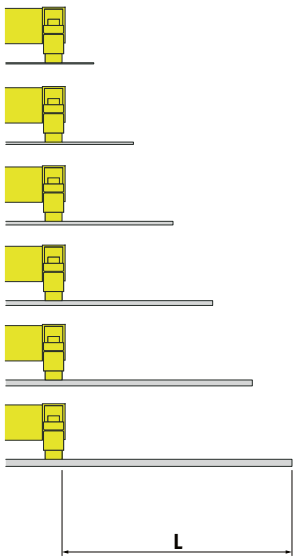
Consideration features

Important technical consideration features of the load include the material thickness (T) in relation to the overhang (L) via the last magnetic module (see diagram) as this is safety relevant.

Diagram bending strength

Material overhang beyond the last magnetic module depending on the material thickness (T).





TREFIX-T

Loading and unloading of steel sheets for laser and plasma cutting. When removing the workpiece after cutting, both the workpieces and the residual grid are removed. This makes unloading the machine quick and ergonomic, while keeping non-productive time/machine downtime low. This greatly increases productivity, and the separation of the workpieces can take place concurrently outside the cutting system during the main cycle.

With remote control

Loading / separating full metal sheets

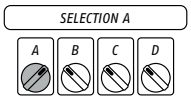
ID	Magnet type	Max. holding force	Min. – max. metal sheet thickness	Max. dimension of sheet metal for loading	Hand-held remote control
		[kg]	[mm]	[mm]	
1619122	electro-permanent	4150	3 – 50	5300 x 2000	Yes
1619125	electro-permanent	6150	3 – 50	6300 x 2500	Yes
1619126	electro-permanent	9400	3 – 50	8000 x 3000	Yes

Unload workpieces and leftovers in one stroke

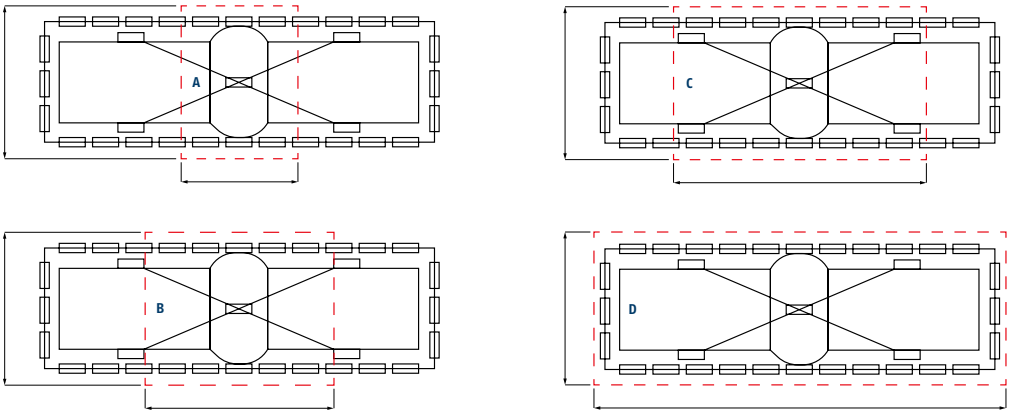
ID	Magnet type	Min. Workpiece dimensions/ cut for removal	Max. holding force	Min. – max. metal sheet thickness	Max. dimension of sheet metal for unloading	Hand-held remote control
		[mm]	[kg]	[mm]	[mm]	
1619122	electro-permanent	150 x 150	1950	3 – 50	3300 x 1500	Yes
1619125	electro-permanent	150 x 150	3350	3 – 50	4300 x 2000	Yes
1619126	electro-permanent	150 x 150	5850	3 – 50	6000 x 2500	Yes

TREFIX-T – Selection options

SELECTION



Workpiece dimensions (red dashed line)



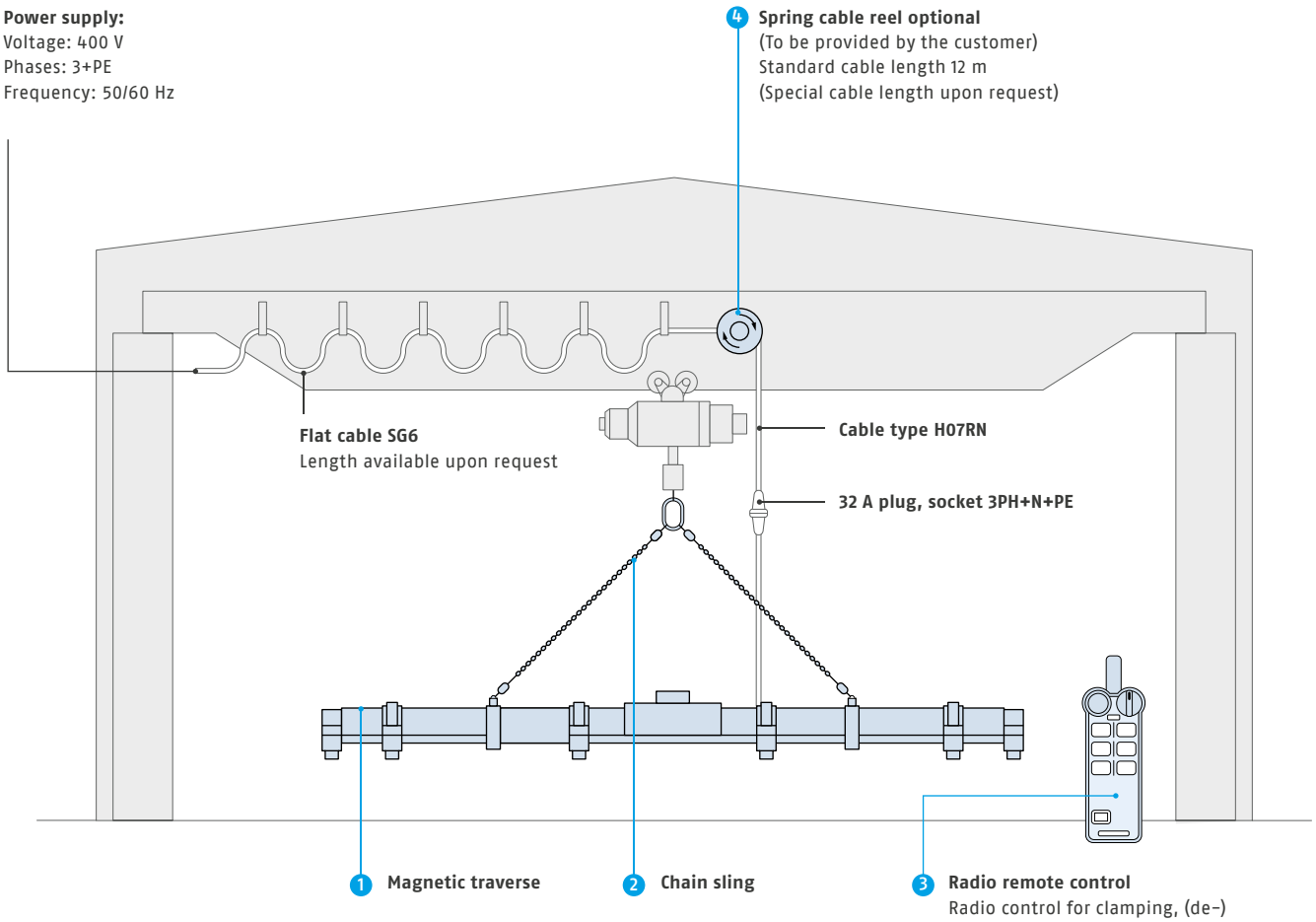
ID 1619122	Min. X workpiece length [mm]	Max. X workpiece length [mm]	Min. Y workpiece width [mm]	Max. Y workpiece width [mm]	Holding force [kg]	Min. workpiece thickness [mm]
Selection A	1150	3150	1500	2000	2450	3 – 50
Selection B	2200	4200	1500	2000	3300	3 – 50
Selection C	3300	5300	1500	2000	4150	3 – 50
Selection D	–	–	–	–	–	3 – 50

ID 1619125	Min. X workpiece length [mm]	Max. X workpiece length [mm]	Min. Y workpiece width [mm]	Max. Y workpiece width [mm]	Holding force [kg]	Min. workpiece thickness [mm]
Selection A	1150	3150	2000	2500	3000	3 – 50
Selection B	2200	4200	2000	2500	4100	3 – 50
Selection C	3300	5300	2000	2500	5200	3 – 50
Selection D	4300	6300	2000	2500	6150	3 – 50

ID 1619126	Min. X workpiece length [mm]	Max. X workpiece length [mm]	Min. Y workpiece width [mm]	Max. Y workpiece width [mm]	Holding force [kg]	Min. workpiece thickness [mm]
Selection A	1700	3700	2500	3000	4350	3 – 50
Selection B	2750	4750	2500	3000	5600	3 – 50
Selection C	4800	6800	2500	3000	8000	3 – 50
Selection D	6000	8000	2500	3000	9400	3 – 50

Installation layout

Power supply:
Voltage: 400 V
Phases: 3+PE
Frequency: 50/60 Hz



ID	Description	Technical features
1435290	Cable reel	Cable length 12 m, with CEE 32 A coupling with support plate, assembly plate on cable reel, current feed 2 m (open strands)

Accessories: Installation material (to be mounted by the customer)

1. **Support plate**
Mounting plate for installing the 32A/CEE power coupling on the crane hook (by customer)

2. **Spring cable reel**
with 12 m cable

3. **Power supply cable**
for connection (by customer) with drag cable on the trolley

4. **Support plate**
for mounting the spring cable reel on the trolley (by customer)

Electro-permanent magnetic lifting technology
Your advantages at a glance

- **Process reliability thanks to magnetic technology**
  Reliable hold even in case of power failure (intrinsically safe)
- **Ergonomic**
  And easy attachment via remote control
- **Powerful**
  Due to the use of rare earths (neodymium)
- **Economical**
  With very low maintenance costs
- **Ecological/ environmentally friendly**
  Low energy consumption thanks to the use of magnetic clamping technology

CUSTOMER TESTIMONIALS

The Permanent Magnet Traverse Easily Handles Large and Heavy Loads

Electrically controlled permanent magnets have a decisive advantage: A short current pulse is sufficient to permanently activate the magnetic force. KRANBAU KÖTHEN uses the technology in the form of a TRETEL modular electro-permanent magnetic traverse from SCHUNK to handle large-format sheets weighing up to 12,000 kg. Since then, sheet metal logistics have been significantly improved. And the energy-efficient load lifting device pays off economically.

The sheet metal logistics of KRANBAU KÖTHEN was significantly optimized with the help of the modular magnetic traverse from SCHUNK. The project involved Production Manager Maik Stern (left), SCHUNK Consultant Frank Reinhold (middle), and SCHUNK Product Specialist for Magnetic Solutions, Tim Janke (right). The crane in the background is operated by Frank Schönian.
Image: SCHUNK

The magnetic pole packages were individually adapted to the application. With them, thin metal sheets from 5 mm can be handled.

The metal sheets measure up to 3x12 meters, which machine operator Frank Schönian and his colleagues skillfully maneuver through the industrial hall in Köthen using the modular magnetic traverse. While entire packages used to be destacked and then laboriously repositioned, Frank Schönian now carefully stacks the metal sheets with an offset, labels them, and can later access them individually as needed. Especially when a truck's loading area was fully packed and no wooden spacers were placed between the metal sheets, it used to be a tedious task: Sheets had to be manually pried apart with great effort and time expense picking them up with claws or tongs.

There was always the risk that individual metal sheets or entire packages of metal sheets would bend and parts would be lost – with risks for people, vehicles and machines. In addition, the operator had to climb onto the loading surface several times in succession, hammer in wedges and fasten claws. Today, all this does not matter because, with the permanent magnets from SCHUNK, metals sheets can be lifted individually and safely from above. In the pick-up cycle, the operator can precisely adjust the lift to only one metal sheet by means of holding force stages. It is only during the transport phase that the modular magnet traverse is switched from partial to full magnetization, ensuring that sufficient force reserves are available when accelerating and braking as well as in transverse movements.

The separation of the sheets and the subsequent loading of the plasma cutting system were significantly simplified with the modular magnetic traverse.

Truck unloading made easy

"Our suppliers' drivers are impressed with how easily the solution works," reports Frank Schönian. From both a safety and ergonomic perspective, Manufacturing Manager Maik Stern sees significant advantages compared to the previously used mechanical stop devices such as claws, tongs, slings, or chains: "Unloading the trucks has become much easier and safer today." There are weeks when new metal sheets are delivered daily, and 20 to 30 pieces are added to the plasma cutting machine around the clock per shift." Due to the variety of sheet thicknesses, widths and lengths, separate storage is not feasible. It is all the more important that the parts can be found and picked up quickly, explains Maik Stern. This is where the new storage system pays off. "Moreover, the metal sheets are hardly deformed at the storage site today, as only a few, if any, intermediate layers of wood are placed beneath them."

Spring-loaded compensation elements balance unevenness

In contrast to load lifting devices with conventional electromagnets, which are also frequently used by KRANBAU KÖTHEN for users in the steel industry, the TRETEL modular magnetic traverse from the MAGNOS series from SCHUNK is equipped with electro-permanent magnets. A short electrical impulse is enough to activate the magnets. After activation, no further energy supply is required. This makes the technology extremely efficient: neither a permanent power supply nor redundant protection in the form of buffer batteries is required in the event of a sudden power failure. Two-hand operation is conveniently carried out via remote control or via the control on the traverse. Unevenness, which occurs, for example, when the large-sized metal sheets are placed on spacer lumber, is compensated by spring packs on the

Both on the handheld remote control and on the control unit, operator Frank Schönian can read the magnetization status of the modules. If the display flashes, the magnets are activated with partial load during the pick-up.

The entire handling was made more comfortable, ergonomic, fast, easy and secure with SCHUNK's heavy lifting traverse

magnetic modules. The TRETEL system is standardized in five variants with a maximum load capacity of 8,000 to 18,000 kg. In addition application-specific special solutions are possible. Metal sheets from a thickness of 5 mm and above can be handled with the modular electro-permanent magnetic traverse.
The telescopic arms can be hydraulically driven, so that the length of the traverse can be adapted to the respective component in a range between 5.8 m and 9.1 m at the push of a button. Short workpieces can be transported with a compact traverse. For long metal sheets, on the other hand, it is possible to lay the contact points far outward to prevent shearing. In extreme cases, metal sheets with a length of 3 x 12 m can be transported at KRANBAU KÖTHEN. The load-lifting traverse has been specifically designed for the application according to DIN EN 13155. The calculation was based on shot-blasted metal sheets, an air gap of 0.5 mm, and a safety factor of 3:1, meaning the breakaway force is 36,000 kg. The individual segments of the load-lifting traverse can be activated in four groups: left row, right row, inner modules or complete. The respective magnetization status can be conveniently read from a large display on both the front and rear of the traverse. The power supply (32 A) is permanently installed and is carried out from above via a spring cable reel on the crane bridge. To prevent accidental loss of the workpiece during te lifting phase, the lifting mechanism has been equipped with a redundant proximity switch whose signaling prevents the magnetic modules from being deactivated under load.

Secure operation without support battery

Compared to conventional electromagnets, the technology of electrically activated permanent magnets offers a whole series of advantages: Since only a short current pulse is required for activation, the energy requirement is significantly lower than that of a conventional electromagnet. Moreover, the solution is much more compact. In addition, there is no risk of the magnet overheating and the holding force decreasing. No support batteries or additional units are required for secure operation, as the magnetic force is permanently applied independently of energy.

Manual magnetic lifting technology

MHM-IT2

Universal manual magnetic lifter for handling various shapes and sizes.

ID	Magnet type	Workpiece shape	Holding force flat [kg]	Holding force round [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
0421000	permanent	flat/round	125	60	8	flat| 125x79 round | ø 40x125	flat| 2000x750 round | ø 185x2000	No
0421001	permanent	flat/round	250	125	10	flat | 167x91 round | ø 40x167	flat | 2000x750 round | ø 185x2000	No
0421002	permanent	flat/round	500	250	14	flat | 243x120 round | ø 40x243	flat | 2500x1000 round | ø 235x2500	No
0421003	permanent	flat/round	1000	500	30	flat | 300x148 round | ø 60x300	flat | 3000x1000 round | ø 370x3000	No
0421004	permanent	flat/round	2000	1000	55	flat | 405x177 round | ø 60x405	flat | 3000x1500 round | ø 350x3000	No

MHM-V2

Universal manual magnetic lifter for handling different shapes and sizes for horizontal and vertical lifting.

ID	Magnet type	Workpiece shape	Holding force flat vertical/ horizontal [kg]	Holding force round vertical/ horizontal [kg]	Min. workpiece thickness [mm]	Min. workiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
0421095	permanent	flat/round	25/125	12/60	8	flat| 125x79 round | ø 40x125	flat| 2000x750 round | ø 185x2000	No
0421096	permanent	flat/round	50/250	25/125	10	flat | 167x91 round | ø 40x167	flat | 2000x750 round | ø 185x2000	No
0421097	permanent	flat/round	100/500	50/250	14	flat | 243x120 round | ø 40x243	flat | 2500x1000 round | ø 235x2500	No
0421098	permanent	flat/round	200/1000	100/500	30	flat | 300x148 round | ø 60x300	flat | 3000x1000 round | ø 370x3000	No
0421099	permanent	flat/round	400/2000	200/1000	55	flat | 405x177 round | ø 60x405	flat | 3000x1500 rund | ø 350x3000	No

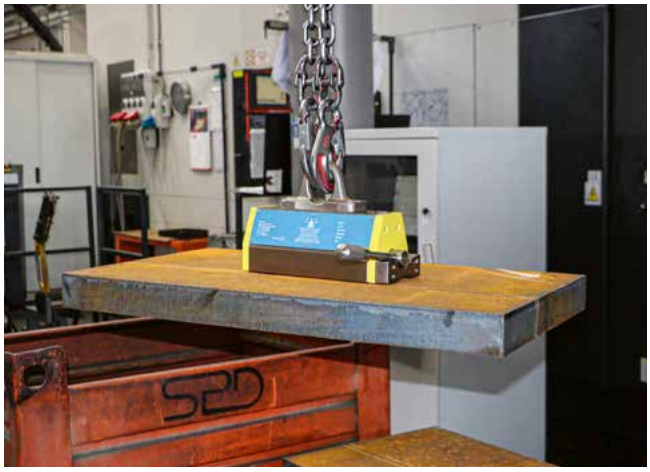
MHV

Manual magnetic lifter for swiveling plates. The product can be used with the workpiece in a vertical position. Suitable for loading and unloading of horizontal machining centers (HMCs)

ID	Magnet type	Workpiece shape	Holding force [kg]	Min. workpiece thickness [mm]	Min. workpiece dimensions [mm]	Max. workpiece dimensions [mm]	Hand-held remote control
0421012	permanent	flat	200	20	143x280 (H)	2000x1020 (H)	No
0421013	permanent	flat	400	25	243x280 (H)	2500x1020 (H)	No
0421014	permanent	flat	800	40	300x300 (H)	3000x1040 (H)	No
0421015	permanent	flat	1600	55	480x300 (H)	3000x1125 (H)	No

Your advantages at a glance

- **Low self-weight with maximum lifting capacity**
  Ensures optimal utilization of the crane capacity
- **Low actuation forces required for switch-over of the lifting mechanism**
  One-hand operation possible
- **High heat resistance**
  Secure operation of the lifting device up to 80 °C
- **Completely sealed system**
  Maintenance-free with long service life
- **No external power supply necessary**
  Safe hold of the workpieces even in case of power failure



SEP Special for handling slabs up to 40 tons.

Hybrid traverse, hydraulically movable for loading and unloading of cutting systems up to 16 m

Handling of profiles HEA, HEB, HEM and IPN

TRETEL-T in special design for large dimensions

Handling of thin-walled long pipes

TRETEL H/V for handling metal plates horizontally/vertically for stationary material storage

Handling of light coils/slit strips

Slab transport up to 60 tons

SEP Special for heavy loads and air gap

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