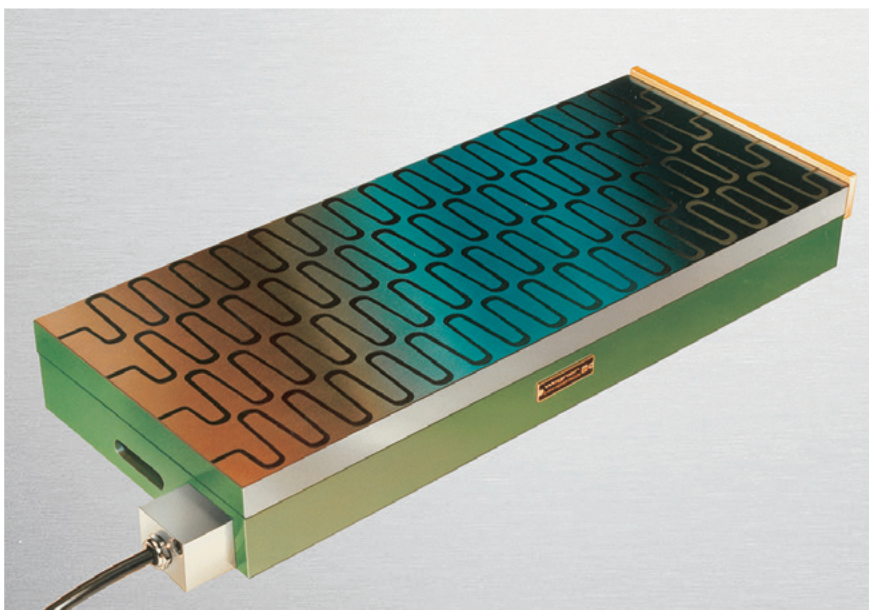


Electro-Permanent-Magnet-Clamping-Plate



Switching operations are triggered by a short current pulse. The homogenous construction design of the magnet system and the pole plate offers high precision.

In the event of a power failure, the active clamping plate retains full holding force which guarantees operational safety. In addition, the power feed can be disconnected from the magnets after the current pulse has been triggered. The magnet holding the workpiece can be used in several stations (pallet exchange system) without a current supply.

Design:

- Protection class IP 65
- Magnet operating time: 100%

The type 1150V with pendular pole pitch includes an extra-strong magnetic system.

The individual poles on the symmetrically arranged pole plate surfaces are setup in transverse as well as longitudinally alternately north and south polarities. This construction enables clamping right to the edge of the pole surface as the magnetic force is distributed uniformly over it. The direct pole support provides a considerable increase in holding force with sinusoidal pole spacing.

The integrated strengthened permanent magnet system creates a high depth action for bypassing air gaps in workpieces with uneven and rough surfaces. This makes these magnet systems perfectly suited to high chip removal when milling and grinding.

The pole plate can be reworked and renewed as a wear part.

The electro permanent magnet clamping plates combine the holding force of permanent magnets with the advantage of switching possibilities associated with an electrical system. This provides all the pre-requisites for precision, safety and operator comfort.

During an operation the power feed is interrupted so that no heat is generated by the activated magnets. This eliminates any potential precision problems caused by temperature fluctuations.

Delivery includes:

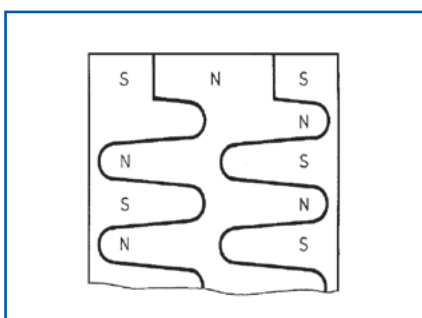
- Holding bar on the front
- 1,5 m Cable
- Clamping shoes

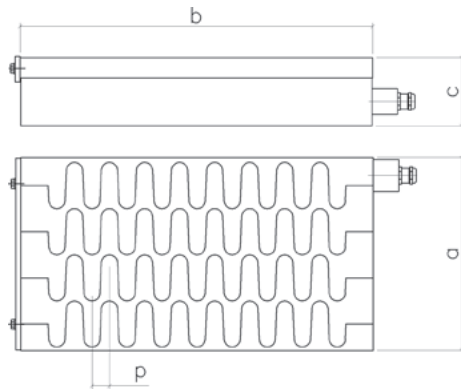
Electrical connection via:

Electronic type 754, 755 and 756 pole-reversal control units.

These devices, designed especially for controlling clamping magnets, function to facilitate the power supply and simultaneously as demagnetisation devices. A microprocessor controls and monitors all functions and offers optimal switching comfort with numerous control and monitoring functions. The adhesive force is adjustable in up to 16 stages. In addition, these pole-reversal control units also allow additional configuration of parameters and optimised settings. All device types offer particularly impressive shifting dynamics.

For individual details, please see brochures 754, 755 and 756.





Electro-Permanent-Magnet-Clamping-Plates

Type 1150V

with sinusoidal pole spacing

Characteristics:

Highest level of precision –
Activated magnet remains cold.

Highest level of safety –
Holding force even after power failure.

Energy-conscious –
Power used only for short pulses

Our magnets type 1150V are designed
for heavy-duty operation, in particular, for
use on milling machines.

Dimensions and technical data:

Type	Width a [mm]	Length b [mm]	Height c [mm]	Pole spacing p [mm]	Weight [kg]	Connection value Pole-reversal control unit [V/A]*
1150V-20/60	202	602	83	25	71	210/30
1150V-20/80	202	802	83	25	94	210/30
1150V-20/100	202	1002	83	25	118	210/30
1150V-25/60	252	602	83	25	88	210/30
1150V-25/80	252	802	83	25	117	210/30
1150V-25/100	252	1002	83	25	147	210/30
1150V-30/80	302	802	83	25	141	210/30
1150V-30/100	302	1002	83	25	176	360/30
1150V-30/150	302	1502	83	25	264	360/30
1150V-30/200	302	2002	83	25	351	360/60
1150V-40/80	402	802	83	25	187	210/30
1150V-40/100	402	1002	83	25	234	210/30
1150V-40/150	402	1502	83	25	351	210/30
1150V-40/200	402	2002	83	25	468	360/30
1150V-50/100	502	1002	83	25-36	292	360/30
1150V-50/150	502	1502	83	25-36	438	360/30
1150V-50/200	502	2002	83	25-36	584	360/60
1150V-60/100	602	1002	88	25-36	372	360/30
1150V-60/150	602	1502	88	25-36	557	360/30
1150V-60/200	602	2002	88	25-36	742	360/60
1150V-70/100	702	1002	88	25-36	433	360/30
1150V-70/150	702	1502	88	25-36	650	360/30
1150V-70/200	702	2002	88	25-36	866	360/60
1150V-80/100	802	1002	88	25-36	495	360/30
1150V-80/150	802	1502	88	25-36	742	360/60
1150V-80/200	802	2002	88	25-36	989	360/60

Other dimensions and pole spacings are available upon request

* = 210 V d.c. variants are also available with 360 V d.c. nominal voltage



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