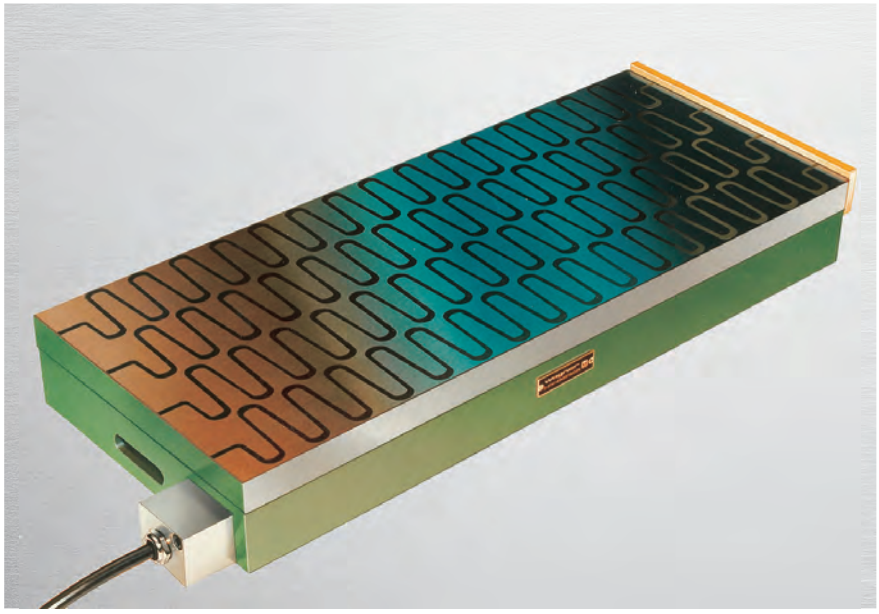
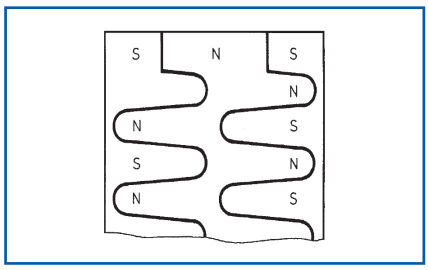
wagner magnete

1150

Electro-Permanent-Magnet-Clamping-Plate



The type 1150 has high adhesive force due to the pendular pole pitch.
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. This makes these magnets suitable for high performance rough grinding. Work-pieces with high alloy content can also be held more securely.



Tapped holes and profiles etc. can be inserted in the pole plate. You can also rework and renew them as wearing parts.

Sinusoidal pole spacing with pole distances of 11 mm, 14 mm, 18 mm, 25 mm and 36 mm are offered for holding workpieces - of all sizes - from the washers to the rough steel-plates.

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 prere-quisites for precision, safety and operating 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 fluctu-ations.

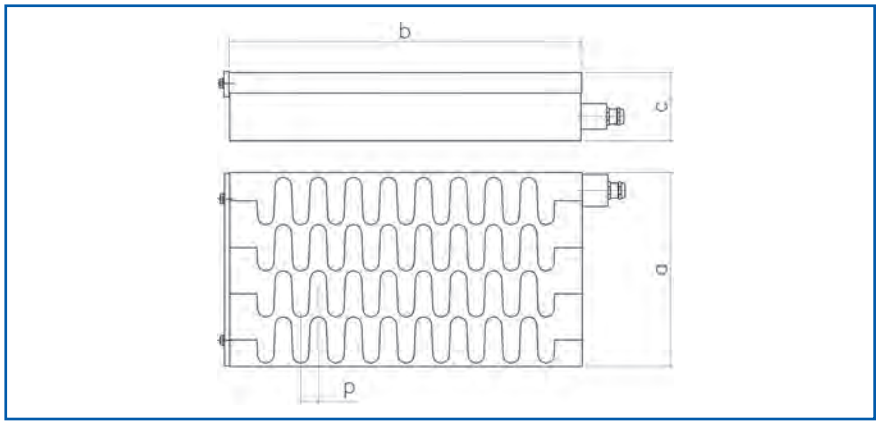
Switching operations are triggered by a short current pulse. The homo-genous construction design of the magnet system and the pole plate offers high precision.

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 %

Delivery includes:
- Holding bar on the front
- 1.5 m cable
- Clamping shoes

Electrical connection via:
Electronic 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.



Electro-Permanent-Magnet-Clamping-Plates

Type 1150
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

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]*
1150-10/20	102	202	83	11-14-18	12	210/10
1150-10/30	102	302	83	11-14-18	18	210/10
1150-10/40	102	402	83	11-14-18	24	210/10
1150-15/20	152	202	83	11-14-18	18	210/10
1150-15/30	152	302	83	11-14-18	27	210/10
1150-15/40	152	402	83	11-14-18	36	210/10
1150-20/60	202	602	83	11-14-18	71	210/10
1150-20/80	202	802	83	11-14-18	94	210/30
1150-20/100	202	1002	83	11-14-18	118	210/30
1150-25/60	252	602	83	11-14-18	88	210/10
1150-25/80	252	802	83	11-14-18	117	210/30
1150-25/100	252	1002	83	11-14-18	147	210/30
1150-30/100	302	1002	83	11-14-18-25	176	210/30
1150-30/120	302	1202	83	11-14-18-25	211	210/30
1150-30/150	302	1502	83	11-14-18-25	264	210/30
1150-40/100	402	1002	83	14-18-25-36	234	210/30
1150-40/150	402	1502	83	14-18-25-36	351	210/30
1150-40/200	402	2002	83	14-18-25-36	468	210/30
1150-50/100	502	1002	83	14-18-25-36	292	360/30
1150-50/150	502	1502	83	14-18-25-36	438	360/30
1150-50/200	502	2002	83	14-18-25-36	584	360/30
1150-60/100	602	1002	88	14-18-25-36	372	360/30
1150-60/150	602	1502	88	14-18-25-36	557	360/30
1150-60/200	602	2002	88	14-18-25-36	742	360/30
1150-70/150	702	1502	88	14-18-25-36	650	360/30
1150-70/200	702	2002	88	14-18-25-36	866	360/30
1150-80/150	802	1502	88	14-18-25-36	742	360/30
1150-80/200	802	2002	88	14-18-25-36	989	360/30

Other dimensions and pole spacings are available upon request
* = 210 V d.c. variants are also available with 360 V d.c. nominal voltage