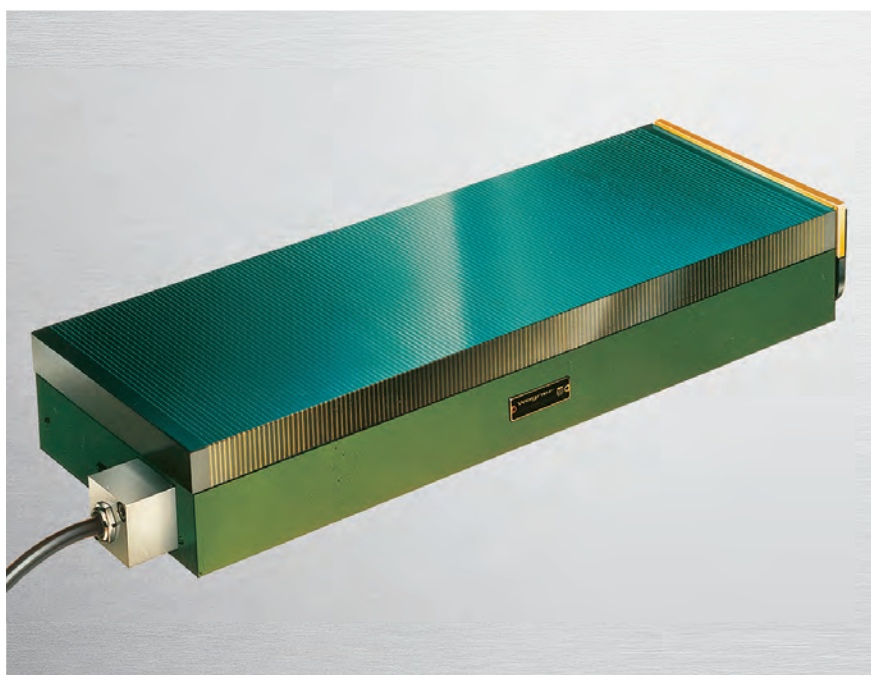


Electro-Permanent-Magnet-Clamping-Plate



Type 1170 with narrow transverse pole spacing combines the advantages of advanced permanent magnet systems with the switching possibilities of a purely electrical system.

A very short electrical pulse is all that is required to activate the magnet system. The unit is then current free. This guarantees that the device doesn't heat up and means the highest precisions can be achieved.

A power failure has no impact on the operational safety of the magnets. The state of the art magnet system produces a strong and extremely uniform holding force across the entire clamping surface. The narrow transverse pole spacing with a pole distance of 4 mm is especially suitable for clamping workpieces in the longitudinal

direction. The special arrangement of the magnetic poles provides high security against shifting across the pole spacing in this type of application.

Magnet control is provided by the tried and tested Wagner pole reversal control unit. Stepwise settable holding force regulation is a control component and provides high operator comfort.

To dissipate residual magnetism in the work-pieces and clamping plate after the work is completed, a controlled pole reversal is performed automatically in several intervals that can be easily adjusted to suit different work-pieces. The workpieces can then be easily removed from the magnetic plates.

Design:

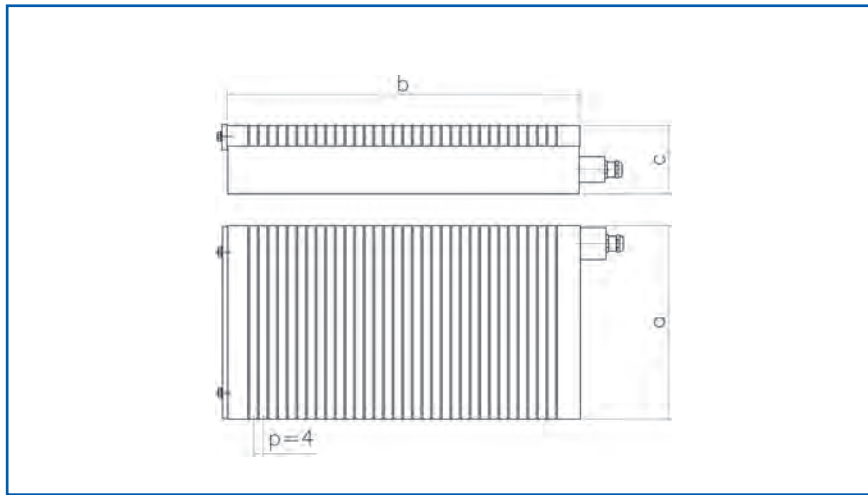
- Protection class IP 65
- Magnet operating time: 100 %

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 1170

with narrow transverse 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
- Narrow pole spacing –
- Also for small and awkward work pieces

Dimensions and technical data:

Type	Width a [mm]	Length b [mm]	Height c [mm]	Pole space p [mm]	Weight [kg]	Connection value Pole-reversal control unit [V/A]*
1170-15/20	152	202	82	4	18	210/30
1170-15/40	152	402	82	4	35	210/30
1170-17.5/45	177	452	82	4	46	210/30
1170-17.5/50	177	502	82	4	51	210/30
1170-20/40	202	402	82	4	47	210/30
1170-20/60	202	602	82	4	70	210/30
1170-20/80	202	802	82	4	93	210/30
1170-20/100	202	1002	82	4	116	210/30
1170-25/60	252	602	82	4	87	210/30
1170-25/80	252	802	82	4	116	210/30
1170-25/100	252	1002	82	4	145	360/30
1170-30/60	302	602	87	4	111	210/30
1170-30/80	302	802	87	4	148	360/30
1170-30/100	302	1002	87	4	184	360/30
1170-30/120	302	1202	87	4	221	360/30
1170-35/60	352	602	87	4	129	210/30
1170-35/80	352	802	87	4	172	360/30
1170-35/100	352	1002	87	4	215	360/30
1170-35/120	352	1202	87	4	258	360/60
1170-40/80	402	802	87	4	196	360/30
1170-40/100	402	1002	87	4	245	360/60
1170-40/120	402	1202	87	4	294	360/60
1170-50/100	502	1002	87	4	306	360/60
1170-50/120	502	1202	87	4	367	360/60
1170-60/100	602	1002	87	4	367	360/60
1170-60/120	602	1202	87	4	441	360/60

Other dimensions are available upon request

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