

Pascal mag clamp

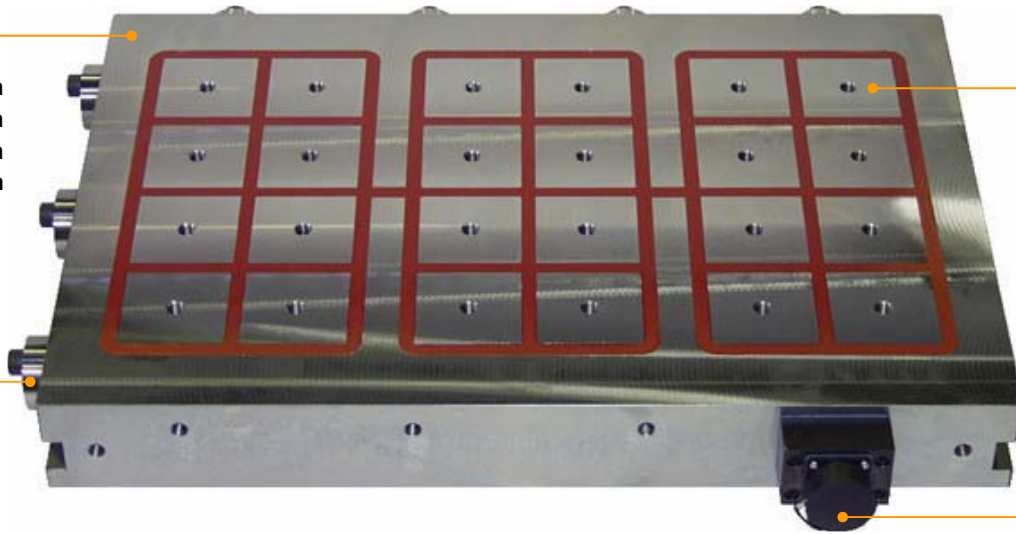
Magnetic clamp

Clamp plate

Size

450 x 315 mm
630 x 425 mm
825 x 500 mm
1030 x 600 mm

Stopper



Magnet core

Size

70 x 70 mm
50 x 50 mm
32 x 100 mm

Select the magnet core size depending on dimensions and figure of workpiece.

Power

Powerful clamp force

14.7 kN (per 100 mm square of workpiece contact area)
(Magnet core size : 70 x 70 mm)
No electric power required during clamping.

Minimal residual magnet force

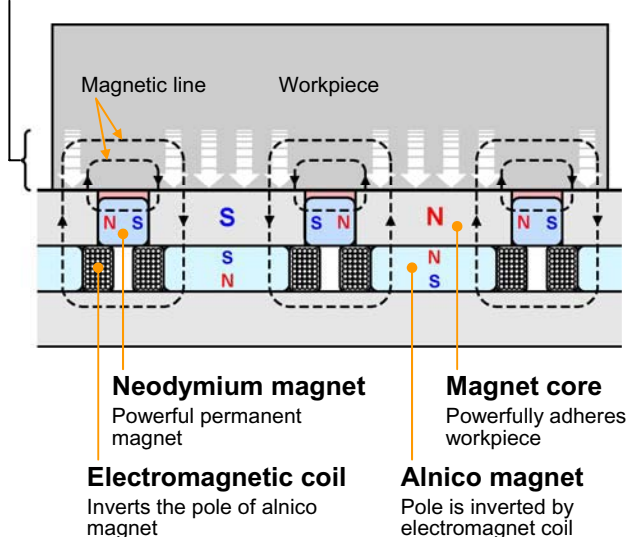
Only **20 gauss** is left after unclamping.
Cutting chips can be cleaned just by air blow.

Structure and Function

At Clamp (Magnetized)

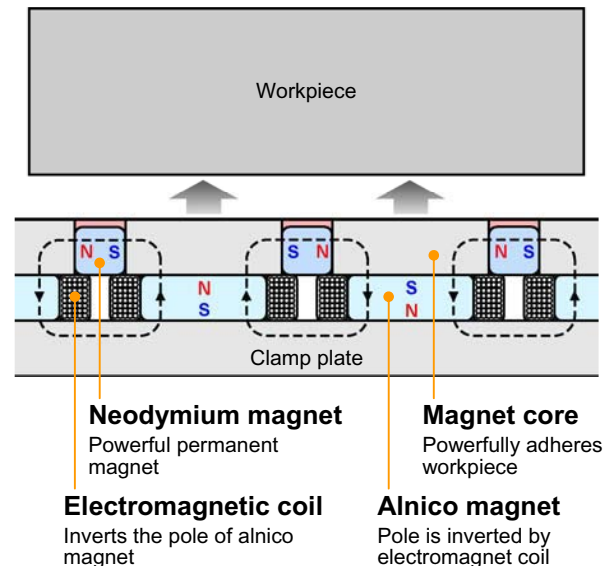
- ① Energize electromagnetic coil for 0.5 second.
- ② Pole of Alnico magnet is inverted.
- ③ Neodymium magnet and Alnico magnet become homopolar.
- ④ Magnet core turns to a powerful magnet to adhere the workpiece.

Magnetic line : aprox.20 mm



At Unclamp (Demagnetized)

- ① Energize electromagnetic coil for 0.5 second.
- ② Pole of Alnico magnet is inverted.
- ③ Magnet line of Neodymium magnet and Alnico magnet does not go out from the surface of magnet core. Thus it unclamps the workpiece.



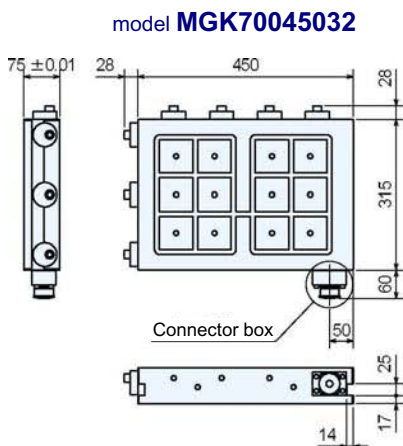
Model	MGK70045032	MGK70063043	MGK70083050	MGK70103060
Clamp plate size	450 x 315 mm	630 x 425 mm	825 x 500 mm	1030 x 600 mm
Clamp plate thickness	75 mm (Self-cutting stock 5 mm)			
Clamping force (of whole clamp plate)	88 kN	176 kN	294 kN	441 kN
Clamping force per magnet core	7.35 kN			
Magnet core size	70 x 70 mm			
Number of magnet core	12	24	40	60
Mass of plate	85 kg	160 kg	245 kg	365 kg

Primary power source AC200V±5% (50/60Hz)

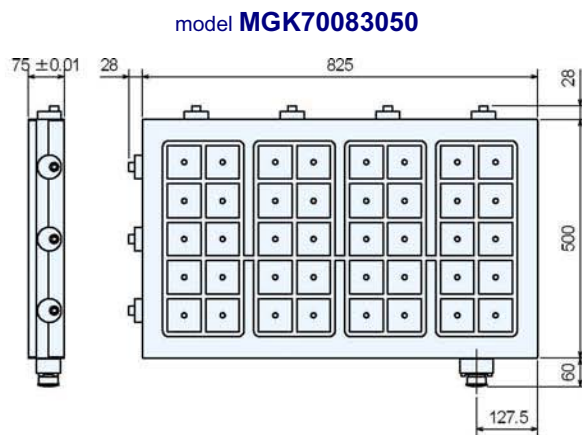
Ambient temperature range 0 ~ 80°C (on clamp plate surface)

Magnetic line height 20 mm (workpiece material : SS400)

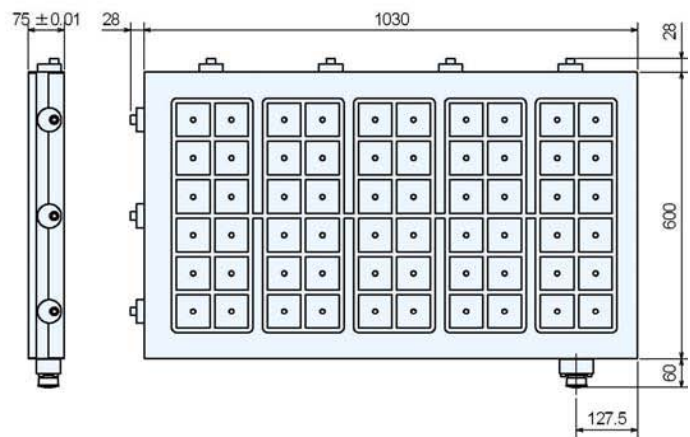
● Dimensions



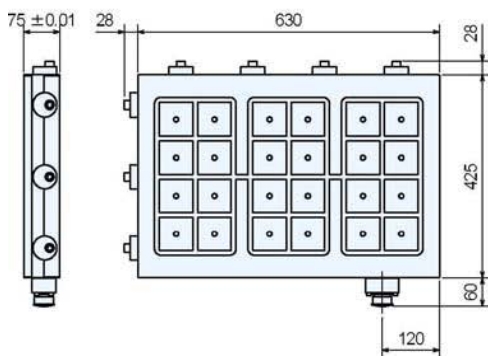
(Isometry to all models)



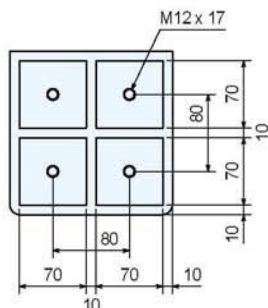
model **MGK70103060**



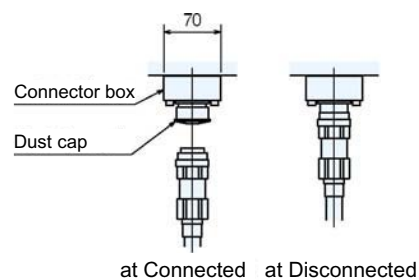
model **MGK70063043**



Magnet core details



Power connector details



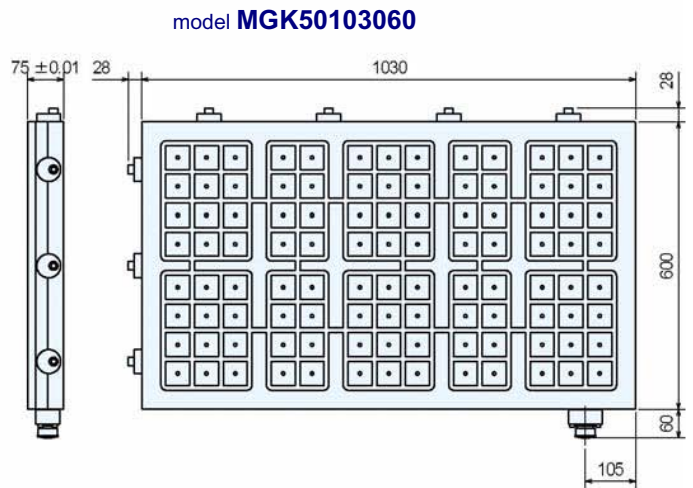
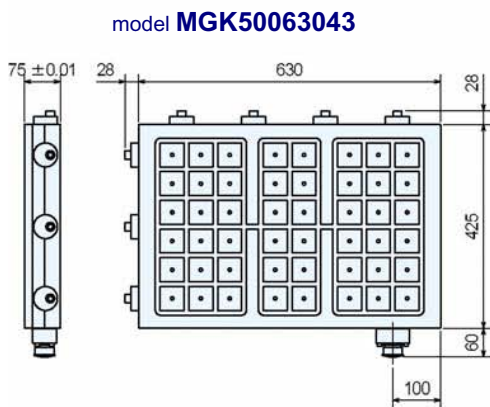
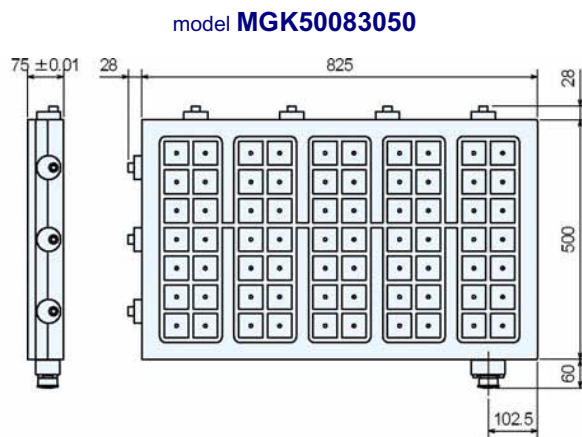
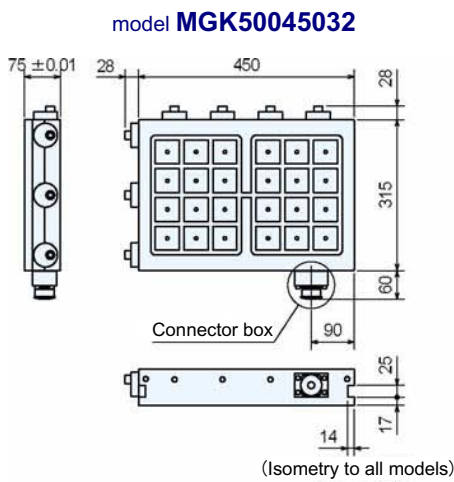
Model	MGK50045032	MGK50063043	MGK50083050	MGK50103060
Clamp plate size	450 x 315 mm	630 x 425 mm	825 x 500 mm	1030 x 600 mm
Clamp plate thickness	75 mm (Self-cutting stock 5 mm)			
Clamping force (of whole clamp plate)	59 kN	118 kN	172 kN	255 kN
Clamping force per magnet core	2.45 kN			
Magnet core size	50 x 50 mm			
Number of magnet core	24	48	70	104
Mass of plate	85 kg	160 kg	245 kg	365 kg

Primary power source AC200V±5% (50/60Hz)

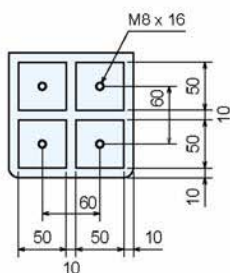
Ambient temperature range 0 ~ 80°C (on clamp plate surface)

Magnetic line height 20 mm (workpiece material : SS400)

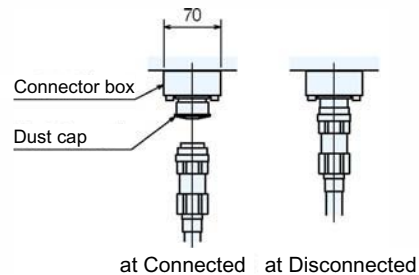
● Dimensions



Magnet core details



Power connector details



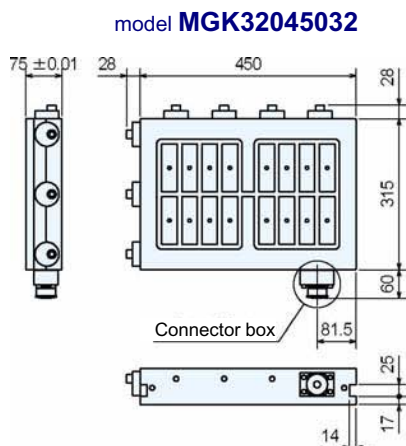
Model	MGK32045032	MGK32063043	MGK32083050	MGK32103060
Clamp plate size	450 x 315 mm	630 x 425 mm	825 x 500 mm	1030 x 600 mm
Clamp plate thickness	75 mm (Self-cutting stock 5 mm)			
Clamping force (of whole clamp plate)	55 kN	123 kN	206 kN	288 kN
Clamping force per magnet core	3.43 kN			
Magnet core size	32 x 100 mm			
Number of magnet core	16	36	60	84
Mass of plate	85 kg	160 kg	245 kg	365 kg

Primary power source AC200V±5% (50/60Hz)

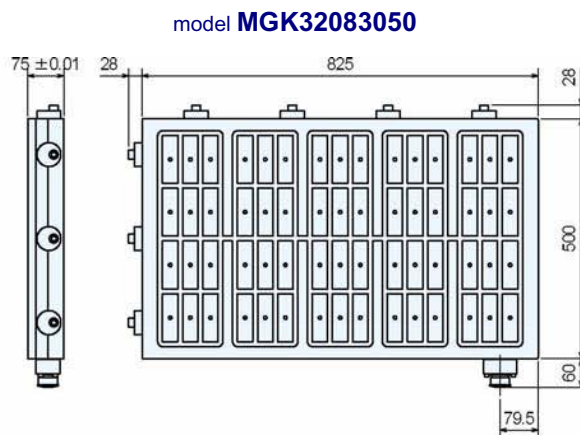
Ambient temperature range 0 ~ 80°C (on clamp plate surface)

Magnetic line height 20 mm (workpiece material : SS400)

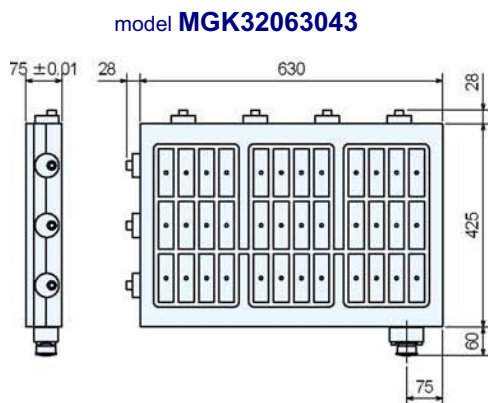
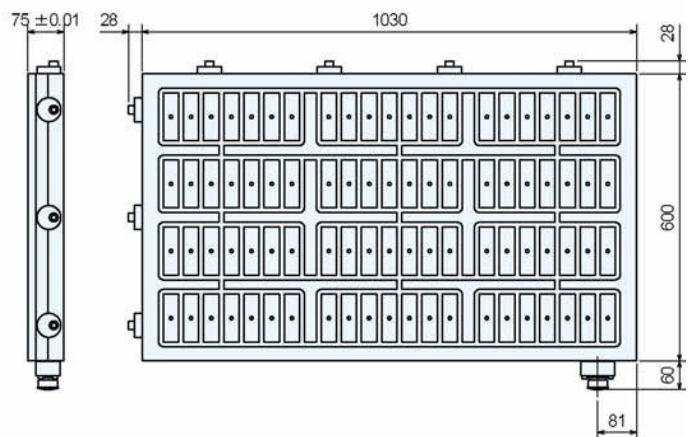
● Dimensions



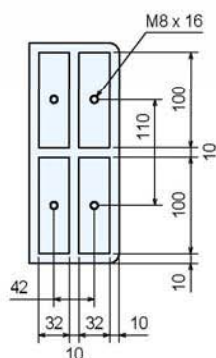
(Isometry to all models)



model **MGK32103060**



Magnet core details



Power connector details

