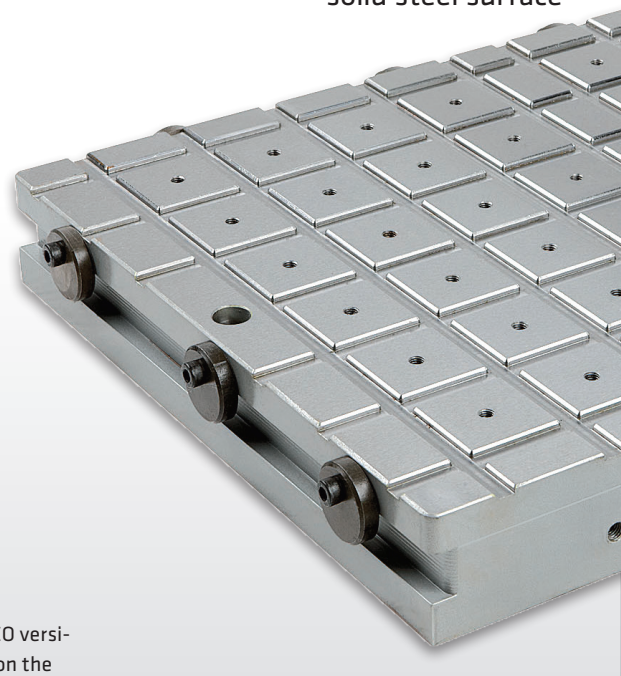
Magnaslot

Electropermanent Magnetic Chucks

Patent No. EP1874504
solid steel surface

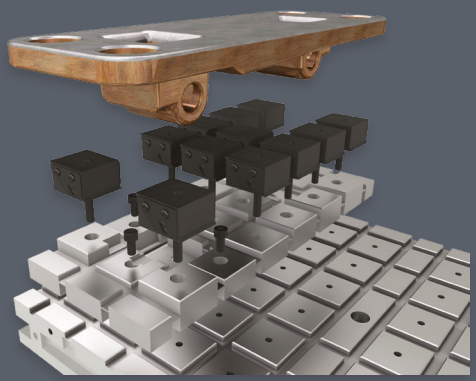
The patented (EPM) electropermanent square pole plate Magnaslot has a solid steel surface. It is the perfect solution in order to clamp ferromagnetic materials on machine tools in a process-safe and energy-efficient way. Furthermore, it also protects against wear and tear, preventing heat pockets. The workpiece can be clamped raised by using pole extensions. Unevenness can be levelled, deformations prevented and tensions significantly reduced. The Magnaslot is available with square pole P50 and P75.



Magnaslot 400 × 600 mm: ECO version, reduced number of poles on the clamping surface - here 40 x P50.

Features [HD 50]

- Pole size 50 x 50 mm
- Adhesive force ≥ 400 kg per pole
- Magnetic field penetration up to 15mm
- A minimum of 2 alternate poles must be at least partially covered to get any power
- The more poles are covered the higher the magnetic clamping force



Workpiece with adapter plate or fixed and mobile pole extensions.

Technical data	Dimension [L×W×H]	Number of Poles	Weight	No.
MAGNASLOT (HD)	[mm]		[kg]	
304 HD 50	300 x 430 x 55 *	24	50	38335
306 HD 50	300 x 590 x 55	32	72	50613
308 HD 50	300 x 750 x 55	40	91	41485
404 HD 50	420 x 430 x 55	36	71	49812
406 HD 50	420 x 590 x 55 *	48	100	56130
408 HD 50	420 x 750 x 55	60	127	48641
410 HD 50	420 x 990 x 55	84	168	49787
508 HD 50	480 x 750 x 55 *	70	145	50615
510 HD 50	480 x 990 x 55	98	192	50249
606 HD 50	600 x 590 x 55	72	143	50541
608 HD 50	600 x 750 x 55	90	181	49574
610 HD 50	600 x 990 x 55 *	126	240	49319
	[mm]		[kg]	
304 ECO 50	325 x 370 x 55	20	42	63276
406 ECO 50	370 x 635 x 55	40	90	63277
408 ECO 50	370 x 790 x 55	50	120	64066
508 ECO 50	445 x 790 x 55	60	150	64072
608 ECO 50	580 x 790 x 55	80	170	63278
609 ECO 50	580 x 940 x 55	96	200	63279

* stock standard

Magnaslot 400 x 600 mm: HD-Version max. pole number on the claming surface - here 48 x P50

Magnaslot 400 x 800 HD-Version, hier 32 x P75

Professional advantages

- Drastic setup time minimization
- All-around 5-side machining with easy and fast positioning of the workpiece
- Set-up time is reduced to a minimum, hence an increase of productivity
- Less vibrations for longer tool life and better process accuracy
- Patented solid top resists best to hot chips and coolance and cares also for heat dissipation
- Ideal for milling, because its magnetic field acts in the X- and Y- axis.

Technical data	Dimension [L×W×H]	Number of Poles	Weight	No.
High pole density (HD)	[mm]		[kg]	
304 HD 75	327 x 425 x 60	12	62	48900
306 HD 75	327 x 601 x 60	18	87	49835
308 HD 75	327 x 815 x 60	24	118	52548
404 HD 75	415 x 425 x 60	16	78	52546
406 HD 75	415 x 601 x 60 *	24	110	49011
408 HD 75	415 x 815 x 60	32	150	49012
410 HD 75	415 x 1,029 x 60	40	188	50235
508 HD 75	503 x 815 x 60 *	40	181	52542
510 HD 75	503 x 1,029 x 60	50	228	49833
606 HD 75	591 x 601 x 60	36	157	52543
608 HD 75	591 x 815 x 60	48	212	52544
610 HD 75	591 x 1,029 x 60 *	60	268	49985

* stock standard

Features [HD 75]

- Pole size 75 x 75 mm
- Adhesive force ≥ 900 kg per pole
- Magnetic field penetration up to 24 mm
- Less sensitive to air gaps
- A minimum of 2 alternate poles must be at least partially covered to get any power. The more poles are covered, the higher the magnetic clamping force

Options

- Controllers and accessories -> see on page 20-21

- Several magnetic clamping plates can be combined to a large magnetic clamping table.