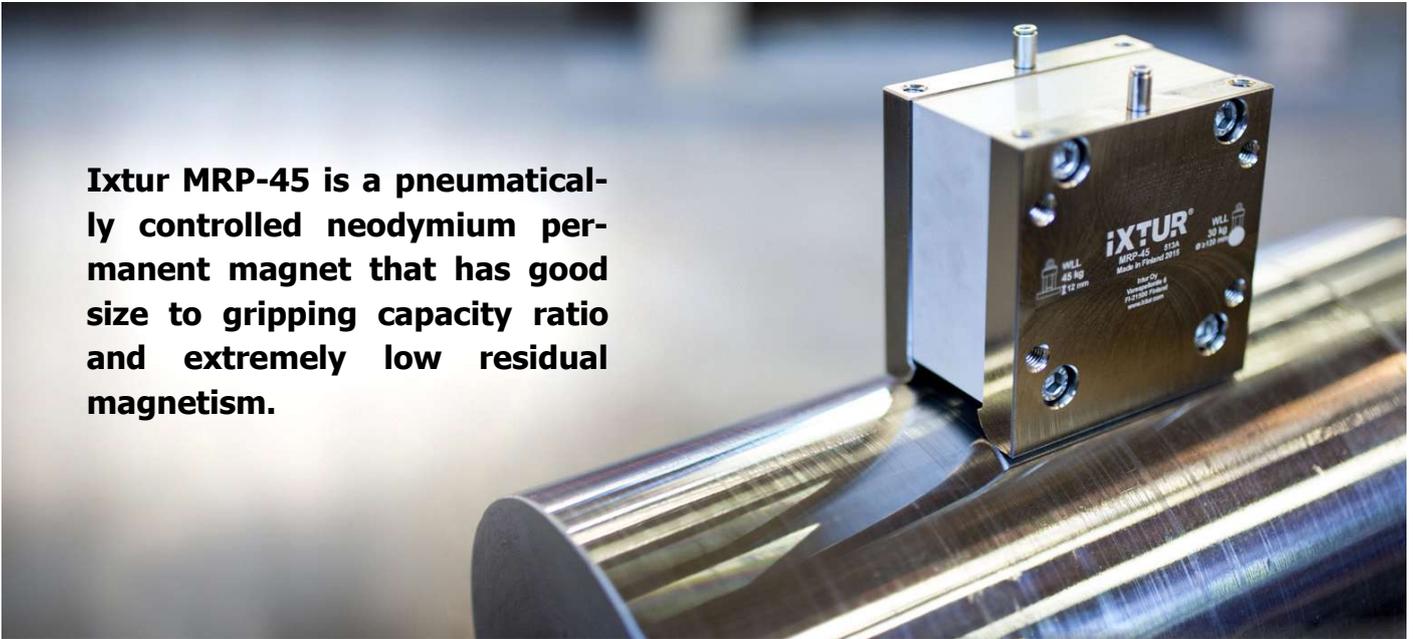


07/2015

Ixtur MRP-45 is a pneumatically controlled neodymium permanent magnet that has good size to gripping capacity ratio and extremely low residual magnetism.



TECHNICAL SPECIFICATIONS

Lifting capacity WLL [kg]	Gripping capacity [kg] [N]		Residual capacity, max. [kg]	Dimensions L x W x H [mm]	Weight [kg]	Operational temperature [°C]	Air pressure: functional range [bar]	Couplings hose outer diameter [mm]	Minimum cycle time [s]
	135*	1324*							
45*	135*	1324*	0.30	80 x 55 x 80	1.80	0 ... 50	5 ... 8	2 x 3.0	< 1
30**	90**	883**							

* plate thickness ≥ 4 mm

** cylinder diameter ≥ 120 mm

The lifting capacities (WLL) are determined with a safety factor of 3.

Requirements for compressed air: Water separation, particle filter $\leq 5 \mu\text{m}$, air lubrication.

The magnet does not change its magnetic state in case of loss of compressed air.

The compact size combined with the strong gripping force provides high versatility. MRP-45 is maintenance free and has fast cycle time, allowing high production speed and efficient automation.

MRP-45 is designed for flat and round parts, and for steel and cast iron. Ixtur magnets can handle solid and perforated material and they can be used in any orientation needed, so it's possible to handle objects with various shapes and angles.



Gripping force can be increased by installing multiple MRP-45 magnets together.

The magnet can be used in various applications: lifters, robot grippers, fixtures, production automation, etc.

More information: www.ixtur.com

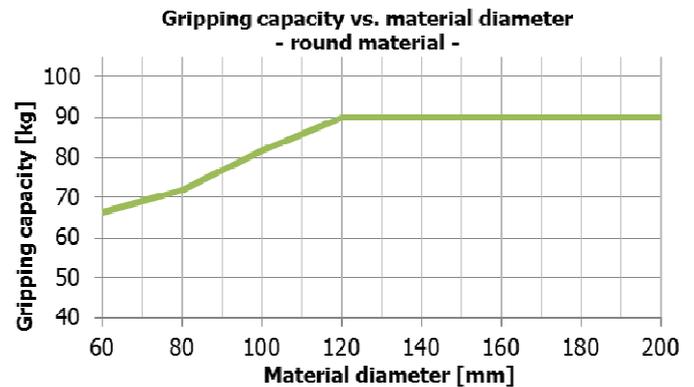
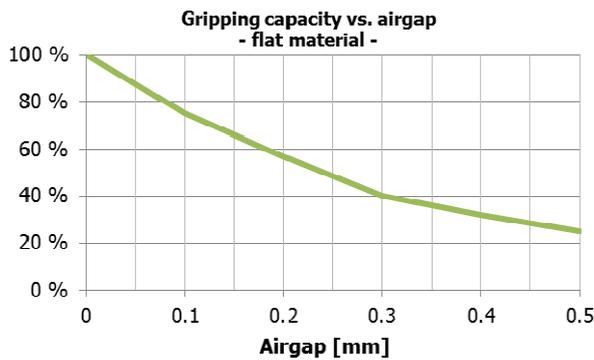
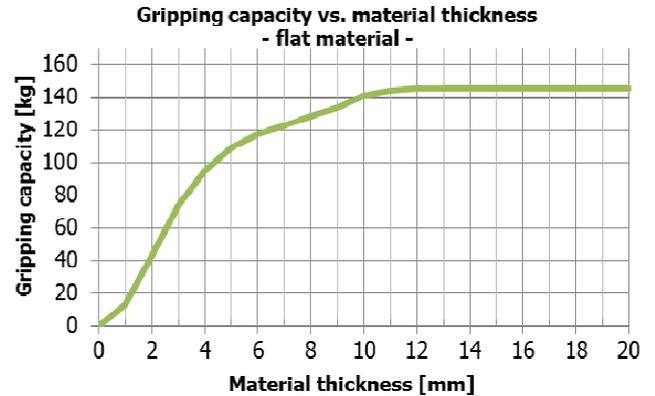
Company • Ixtur Ltd. is a Finnish magnet technology company established in 2010. Ixtur develops and manufactures permanent magnet based lifters, grippers and custom applications for machinery, welding, automation, robotics and material handling. Ixtur is focused on energy efficient magnet components and applications.

ixTUR®

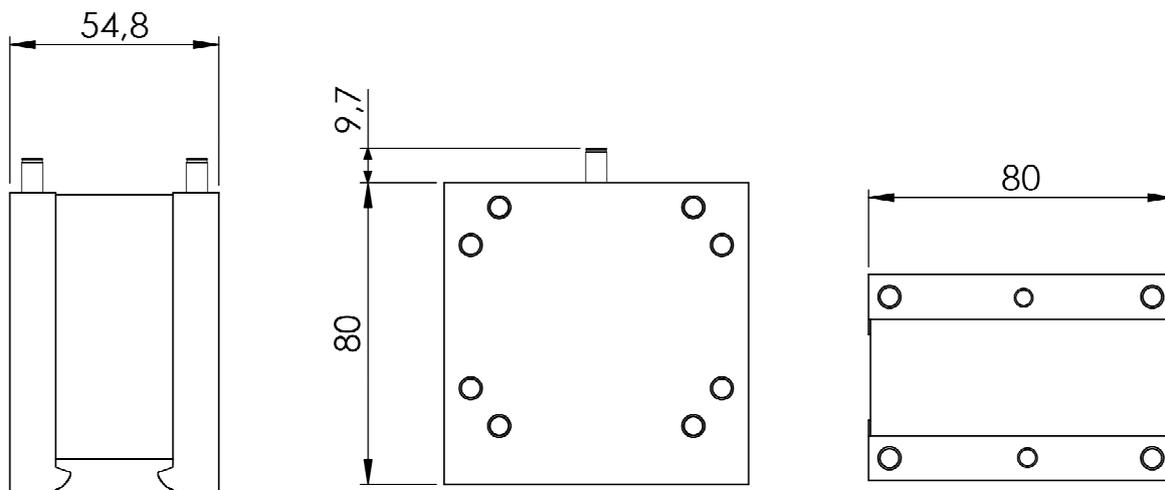
Gripping capacity vs. material thickness and airgap

The nominal gripping capacities can be obtained with the material thicknesses stated in the technical specifications. The magnets can be used also with thinner materials, but the gripping capacity will be lower, as shown in the graphs.

The given gripping capacities are valid for mild steel (S355).



MRP-45 technical drawings (all dimensions are in millimetres)



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