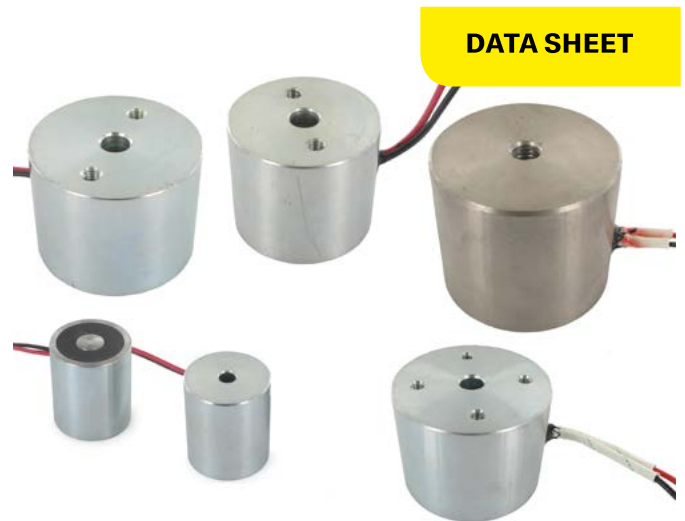


# Work Holding Magnets

## PERMANENT ELECTRO HOLDING MAGNETS – ENERGISE TO RELEASE

Our Permanent Electro Holding Magnets include a permanent magnet, encapsulated in a magnetic housing with an excitation coil wound between the magnet and the housing. Just like an electromagnet the magnetic circuit has to be switched on and off and the permanent magnet within this design means that the magnetic circuit is open in the switched off state and therefore generates a holding force without the need for constant application of current. This means that there is safe holding of workpieces, doors or other components in the event of a power failure or when there is the need for holding components for long periods of time.

When the coil is energised with a DC current the magnetic field from the magnet is negated and the part being held can be taken away with a minimal amount of effort. Some residual pull force will remain, unlike in an electromagnet and this needs to be taken into account when designing the complete system. These Permanent



Electro Holding Magnets are incredibly energy efficient as they only need a brief pulse of energy to switch states.

If you do not see a shape or size or performance of Permanent Electro Holding Magnets that you require, please get in touch as we can design one to suit your needs.

### Range

Part No.	Dimensions		Holding Force		Threaded Hole Mountings	
	Diameter	Depth	Power Off (at 0mm)	Power On (at Working Voltage)	Diameter	Max Depth
XH1720	17mm	20mm	2kg	< 50g	M3	6mm
XH3530	35mm	30mm	10kg	< 500g	M4 x 2	6mm
XH4030	40mm	30mm	16kg	< 500g	M4 x 2	6mm
XH4942	49mm	42mm	40kg	< 2kg	M8	10mm
XH6045	60mm	45mm	60kg	< 5kg	M5 x 4	10mm
XH8050	80mm	50mm	80kg	< 4kg	M8 x 4	12mm
XH10060	100mm	60mm	150kg	< 5kg	M8 x 4	15mm

Part No.	Wire Length	Positive '+'	Negative '-'	Duty Cycle	Max Power ON time	Working Voltage	Rated Power
XH1720	200mm	Red	Black	10%	< 2 Seconds	6VDC	3.4W
XH3530	200mm	Red	Black	10%	< 2 Seconds	24VDC	11W
XH4030	200mm	Red	Black	10%	< 5 Seconds	24VDC	18W
XH4942	300mm	Red	Black	10%	< 10 Seconds	24VDC	20W
XH6045	200mm	Red	Black	10%	< 2 Seconds	24VDC	72W
XH8050		Red	Blue	5%	< 5 Seconds	24VDC	40W
XH10060		Red	Blue	5%	< 5 Seconds	24VDC	55W

### Energise to Release

De-Energised: Max Holding force through integrated permanent Magnet

Energised: Holding Force is compensated