

# PLAY50X4 | P/N: 81401488

## Summary

Magswitch LAY series utilizes field interaction between individual magnets to increase depth of field and spread the attractive force over a larger footprint. This allows for greater working loads and increased control over larger work pieces. With customizable pole shoes to fit almost any application, the LAY is a great all around tool that is perfect for picking pipe and round as well as large plate steel.

**WARNING!**

**Do Not Operate Unless In Contact With Ferrous Target**

## Specifications

Maximum Breakaway Force <sup>1,2,4</sup>	9750 N	
Maximum Shear <sup>1,2,4</sup>	2334 N	
Thickness for De-Stack <sup>3</sup>	0.37 in	9.50 mm
Maximum Allowable Pressure	145.04 psi	10 bar
Off Target Actuation Pressure	75 psi	5.17 bar
Net Weight	24.91 lbs	11.3 kg
Air Port Threads	Rc 1/4	
Mounting Options	M8x1.25	
Magnetic Pole Footprint	2.76 x 9.41 in	71 x 239 mm



Material Thickness - mm (in)	1.5 (0.06)	1.9 (0.07)	2.70 (0.11)	3.00 (0.12)	3.50 (0.14)	4.76 (0.19)	6.35 (0.25)	9.53 (0.37)	12.70 (0.5)	19.05 (0.75)
Maximum Force <sup>4</sup> - N (Newtons)	1031	1459	2113	2476	3011	4241	5818	7897	9154	9750
Required Air Pressure <sup>4</sup> - bar (psi)	3.45 (50.00)	3.10 (45.00)	2.76 (40.00)	2.76 (40.00)	2.41 (35.00)	2.07 (30.00)	2.07 (30.00)	2.07 (30.00)	2.07 (30.00)	1.93 (28.00)

<sup>1</sup> Determined in laboratory environment on 2" thick SAE1018 Steel with surface roughness 63 micro inches with optimized pole shoes. Many factors contribute to the actual breakaway force and safe working load in each application. Consult a Magswitch Applications Engineer and test the Magswitch in each application before deployment.

<sup>2</sup> All data applies to unit with flat pole shoes installed.

<sup>3</sup> Values may vary by +/- 5%.

<sup>4</sup> Maximum forces listed above are not safe lifting forces. Designer must take into account safety factor when specifying tool. Magswitch recommends SWL = 5:1 for most applications.

### Magswitch PLAY50X4 Drawing

**Pole shoes required for operation**

#### Standard Kits Available:

PLAY50X4 Standard Pole Shoe Kit	88001372
PLAY50X4 Prox Cap Kit	8800293
PLAY50X4 Mounting Kit	8800719
PLAY50X4 EOAT Bracket	88001727

