

PLAY 50X4 | P/N 8140404

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

Nominal Maximum Breakaway Force ^{1,2}	2217.8 lb	1006 Kg
Nominal Maximum Shear Force ^{1,2}	442.2 lb	200.6 Kg
Thickness for De-Stack ³	0.375 in	9.5 mm
Minimum Actuation Pressure	30.46 psi	2.1 Bar
Maximum Actuation Pressure	145.04 psi	10 Bar
Air Port Threads	Rc 1/8	
Net Weight	22.0 lb	10 Kg
Individual Magnetic Pole Footprint	8.78"x2.8"	223mm x 71.1mm
Mounting Options	M8x1.25	



Material Thickness	1.5	1.9	2.7	3	3.5	4.76	6.35	9.53	12.7	19.05
- mm (in)	(0.059)	(0.075)	(0.106)	(0.118)	(0.138)	(0.187)	(0.250)	(0.375)	(0.500)	(0.750)
Maximum Force ^{1, 2, 5}	104.8	146.8	214.9	255.5	310.2	434	592.1	802.6	943	1005.8
- kg (lbs)	(231.04)	(323.64)	(473.77)	(563.28)	(683.87)	(956.81)	(1305.36)	(1769.43)	(2078.96)	(2217.41)

¹ 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.

² All data applies to unit with flat pole shoes installed.

³ Determined with SAE1018 Steel L=200mm W=200mm.

⁴ Values may vary by +/- 5%.

⁵ 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.

$$SWL \text{ (Safe Working Load)} = \frac{\text{Maximum Force}^5}{\text{Safety Factor} (\geq 5)}$$



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Pole shoes required for operation

Standard Kits Available:

PLAY50X4 Standard Pole Shoe Kit	8800308
PLAY50X4 Prox Cap Kit	8800293
PLAY50X4 Mounting Kit	8800719

