

PLAY 20X4 NAAMS | P/N 81401096

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 plate steel.

WARNING!
Do Not Operate Unless In Contact With Ferrous Target



Specifications

Nominal Maximum Breakaway Force ^{1,2}	1284 N	
Nominal Maximum Shear Force ^{1,2}	226 N	
Thickness for De-Stack ³	0.157 in	4.0 mm
Minimum Actuation Pressure	30 psi	2.07 Bar
Maximum Actuation Pressure	145 psi	10.00 Bar
Off-Target Actuation Pressure	56 psi	3.86 Bar
Actuator Volume	0.92 in ³	15 cm ³
Air Port Threads	2x M5x0.8	
Net Weight	2.62 lb	1.19 kg
Individual Magnetic Pole Footprint	3.8"x1.2"	96.2mmx31.12mm
Mounting Options	2x Side: Ø6-M8-Ø6 1x Back: Ø6-M8-Ø6 1x Front: M6-M6	

Material Thickness - mm (in)	0.5 (0.020)	0.8 (0.031)	1.0 (0.039)	1.5 (0.059)	2.0 (0.079)	3.0 (0.118)	4.0 (0.157)	5.0 (0.197)	6.0 (0.236)	7.0 (0.276)
Maximum Force ^{1,2} - Newton (N)	111	210	256	547	711	909	1134	1280	1284	1284

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

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 (8800172) installed.

³ Tested and Determined with Two SAE1018 Steel Sheets L=200mm W=200mm Thickness=4mm.

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.

Pole shoes required for operation

Standard Kits Available:

PLAY20X4 Combination Pole Shoe Kit	8800172
PLAY20X4 Teeth Pole Shoe Kit	8800832
PLAY20X4 NAAMS 32mm Ball Mount (3-hole)	8800500
PLAY20X4 NAAMS 28.5mm Ball Mount (3-hole)	8800501

