**MAGSWITCH PLAY50X4 2.0**
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# PLAY50X4 2.0 | 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 [1,2,4] | 9750 N | |
| Maximum Shear [1,2,4] | 2334 N | |
| Thickness for De-Stack [3] | 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 [4,5] - N (Newtons)** | 1031 | 1459 | 2113 | 2476 | 3011 | 4241 | 5818 | 7897 | 9154 | 9750 |
| **Required Air Pressure [4] - 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) |

[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.

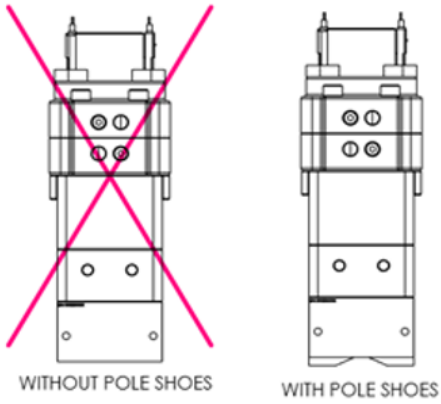
$$SWL\ (Safe\ Working\ Load) = \frac{Maximum\ Force^{5}}{Safety\ Factor\ (\geq 5)}$$

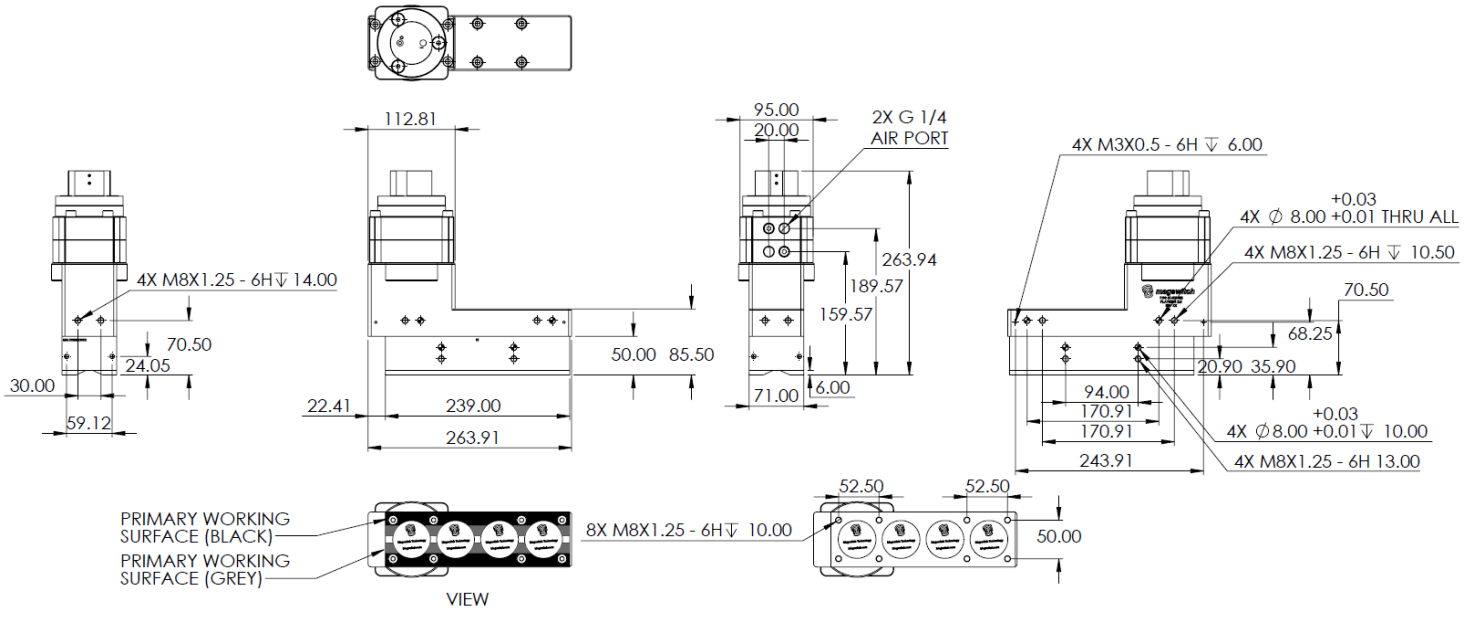
# Magswitch PLAY50X4 Drawing

***Pole shoes required for operation***

**Standard Kits Available:**

| | |
|---|---|
| PLAY50X4 Standard Pole Shoe Kit | 88001372 |
| PLAY50X4 Prox Cap Kit | 8800293 |
| PLAY50X4 EOAT Bracket | 88001727 |
| PLAY50X4 135Deg V Pole Shoe Kit | 88001529 |
| PLAY50X4 155Deg V Pole Shoe Kit | 88001530 |
| PLAY50X4 Flat with Teeth Pole Shoe Kit | 88001699 |



# Center of Mass (COM)