

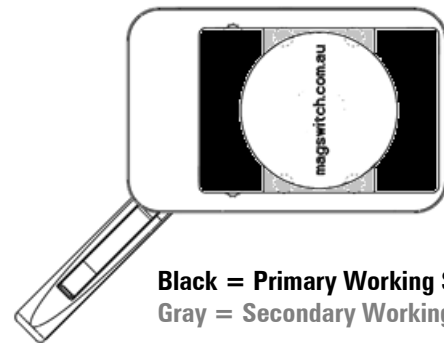
**MagMount 600 | P/N: 8100580**

## Summary

The Magswitch MagMount is a single lever operation switchable magnet that allows for easy movement and placement of a tool. Each features multiple threaded holes for attaching fixtures and supporting loads. The flat working faces grip tightly on flat steel, while the curved surfaces contact round or uneven shapes.

## Specifications

|  |                                |
|--|--------------------------------|
| Maximum Breakaway Force <sup>1,2</sup> | 521 lb / 237 kg                |
| Full Saturation Thickness              | 0.375 in / 10 mm               |
| 2:1 Shear Working Load*                | 52 lb / 24 kg                  |
| Net Weight                             | 3.4 lb / 1.5 kg                |
| Overall Height                         | 2.8" / 72 mm                   |
| Magnetic Pole Footprint                | 3.0" x 2.0"<br>75 mm x 51.5 mm |



**Black = Primary Working Surface**  
**Gray = Secondary Working Surface**

|  |                       |                       |                       |                       |                        |                        |                        |                       |                        |                        |                        |                        |
|--|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| <b>Material Thickness</b><br>- mm (in) | <b>0.4</b><br>(0.016) | <b>0.8</b><br>(0.031) | <b>1.5</b><br>(0.059) | <b>2.7</b><br>(0.106) | <b>3.5</b><br>(0.138)  | <b>4.76</b><br>(0.187) | <b>6.35</b><br>(0.250) | <b>9.5</b><br>(0.374) | <b>12.7</b><br>(0.500) | <b>19.5</b><br>(0.768) | <b>25.4</b><br>(1.000) | <b>50.8</b><br>(2.000) |
| <b>Maximum Force</b><br>- kg (lbs)     | <b>8.9</b><br>(20)    | <b>12.07</b><br>(27)  | <b>35.67</b><br>(79)  | <b>72.17</b><br>(159) | <b>106.83</b><br>(236) | <b>144</b><br>(317)    | <b>211.5</b><br>(466)  | <b>217.5</b><br>(480) | <b>219.33</b><br>(484) | <b>232.33</b><br>(512) | <b>237</b><br>(522)    | <b>237</b><br>(522)    |

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

<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>4</sup> Values may vary by +/- 5%.

<sup>5</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.

<sup>6</sup> Typical surface field strengths are measured between and around feet of MagYoke when attracted to flat SAE1018 steel substrates in "standing" position shown on dimensional drawing on next page. Higher field strengths can be attained if the feet are moved closer together, used on a more magnetically permeable material, or if defects, gaps, porous regions, etc are present in the material resulting in concentration of magnetic flux.

