



AT EVERY STEP OF THE WAY

MagSquare 165

P/N: 8100494

Tool Features

Welders and fabricators are raving about the versatility, convenience and time savings that come with Magswitch MagSquares. MagSquares are extremely powerful magnetic blocks with strong holding force available on all sides. Precisely position the MagSquare and material, and then turn the magnet on with a quick 180° twist to fixture work pieces at right angles. Unlike manual clamping, no weld tabs or edges are required. Use the pre-tapped holes on each side for attaching the MagSquare to non-ferrous tools, jigs, and fixtures. Just turn the magnet off to remove magnetic dust and debris.



WARNING!
DO NOT OPERATE UNLESS IN
CONTACT WITH FERROUS TARGET

Specifications

Maximum Breakaway Force ^{1,2}	152.8 lb	69.3 kg
Maximum Shear ^{1,2}	35.3 lb	16.0 kg
Full Saturation Thickness ³	0.197 in	5.0 mm
Side Surface Maximum Breakaway ^{1,2}	93.5 lb	42.4 kg
Net Weight	0.69 lb	0.312 kg
Magnetic Pole Footprint	1.89 " x 1.23 "	48 mm x 31.2 mm

Material Thickness - mm (in)	0.8 (0.031)	1.0 (0.039)	1.5 (0.059)	2.0 (0.079)	3.0 (0.118)	5.0 (0.197)	12.7 (0.500)
Maximum Force ^{1,2,5} - kg (lbs)	10.67 (23.52)	18.20 (40.12)	26.23 (57.83)	36.33 (80.09)	53.53 (118.01)	69.30 (152.78)	69.17 (152.49)

1. Determined in laboratory environment on SAE1018 Steel with surface roughness 63 micro inches. 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.

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.



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MAGSQUARE 165
8100494

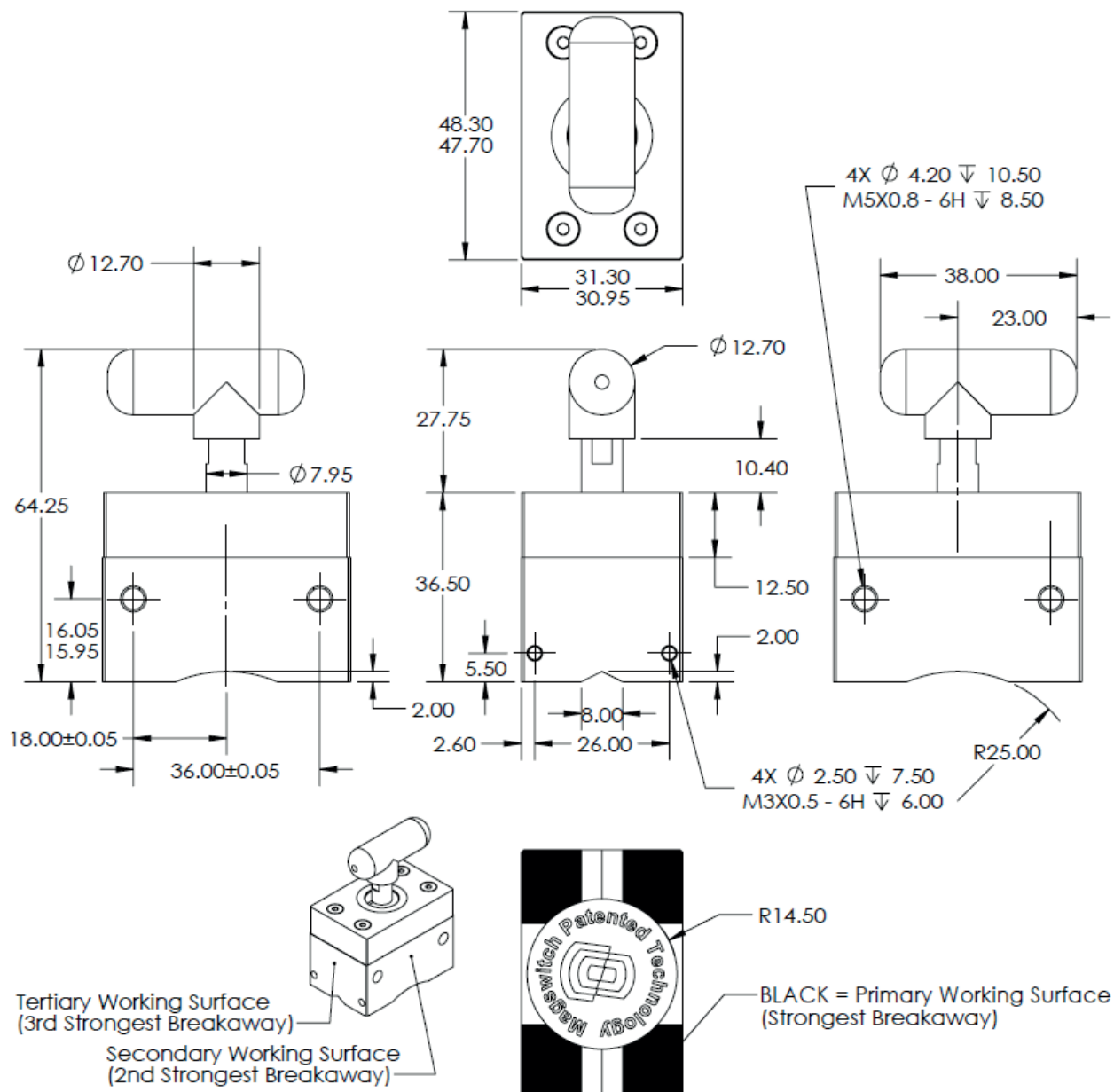
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Drawings



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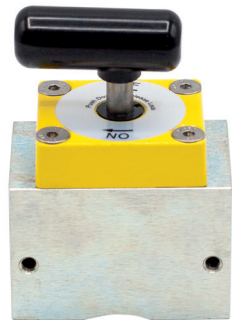
AT EVERY STEP OF THE WAY

MagSquare 400

P/N: 8100238

Tool Features

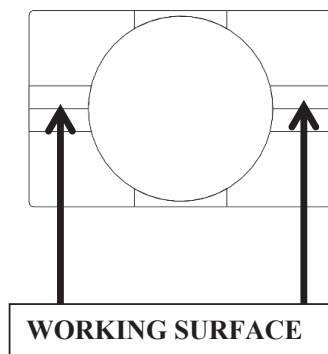
Welders and fabricators are raving about all the uses, convenience and time savings with Magswitch MagSquares. MagSquares are extremely powerful on off magnetic blocks with strong holding force available on all sides. Welders have never enjoyed this complete control over incredibly strong magnets (1,000 lbs (454 kg) on the MagSquare 1000). You can precisely position the MagSquare and material, and then turn the magnet on. MagSquares feature multi-plane workholding capability. It takes away the need for time consuming manual clamping on so many jobs, and works anywhere there is steel; you don't need an edge like you do with C-Clamps. All MagSquares are machined at 90 degrees, have pre tapped holes on all sides for mounting tools, jigs and fixtures. Fast 180 degree turn of the knob turns the MagSquare on and off. When off, nothing sticks to them. Once you understand all the uses, the time savings in set ups, and the ability to control these powerful magnetic blocks – you will want the entire range.



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Specifications

Max Breakaway *	400 lbs	181 kg
Full Saturation Thickness	0.25 in	6 mm
Max Safe Shear *	40 lbs	18 kg
Net Weight	2.0 lbs	0.91 kg
Overall Height	90 mm	
Magnetic Pole Footprint	64 mm x 41.2 6mm	



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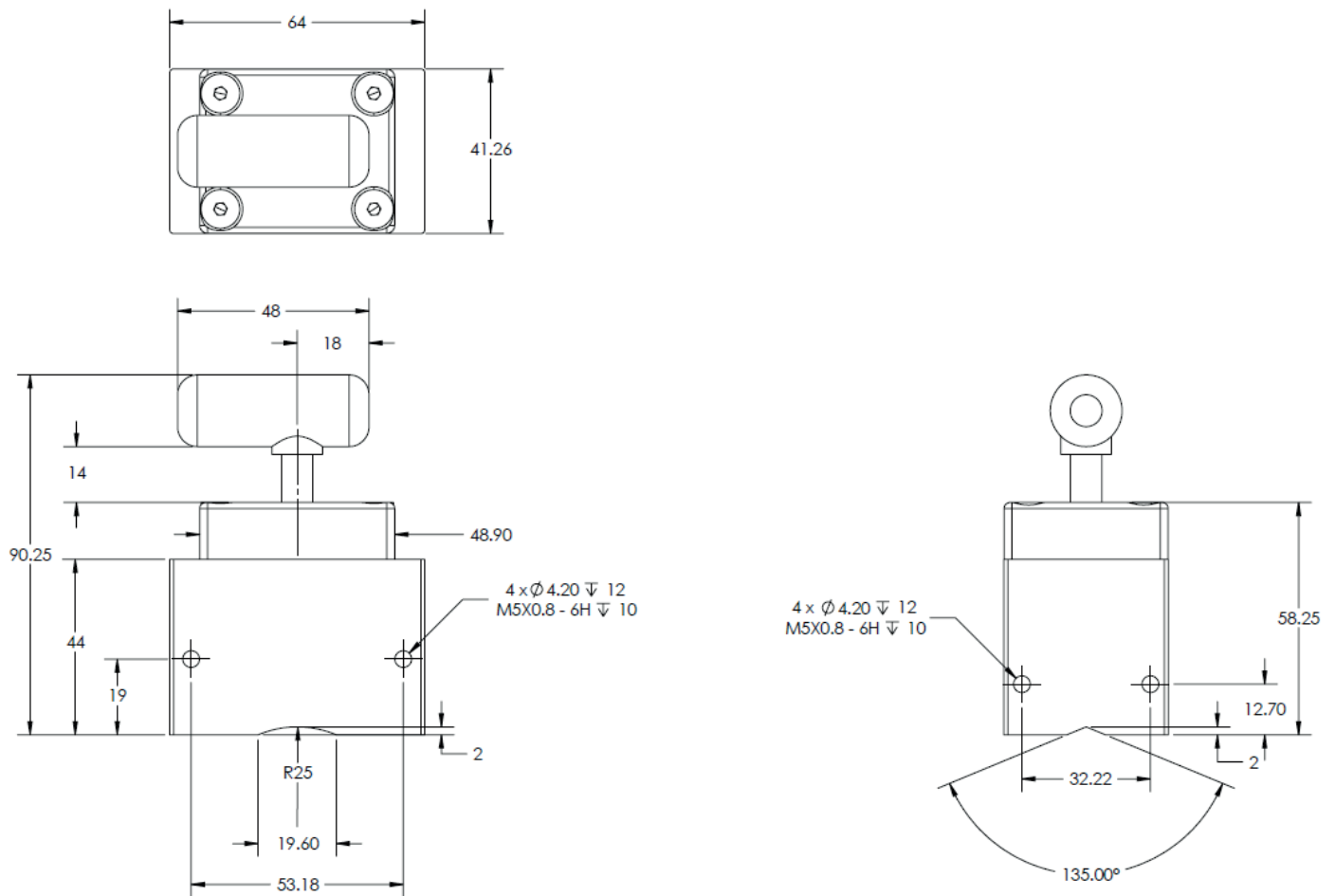
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MagSquare 400

P/N: 8100238

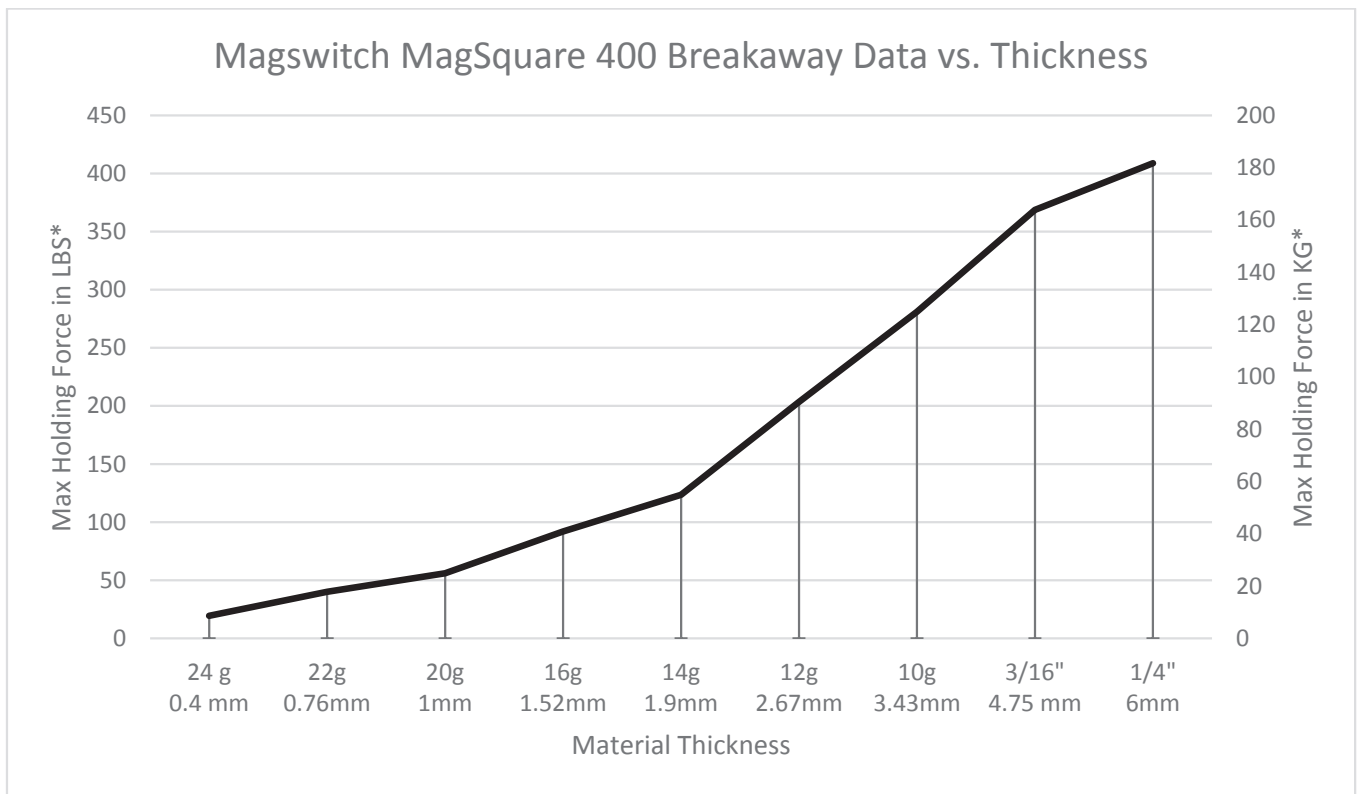
Drawings



MagSquare 400

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Breakaway Data



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AT EVERY STEP OF THE WAY

MagSquare 600

P/N: 8100106

Tool Features

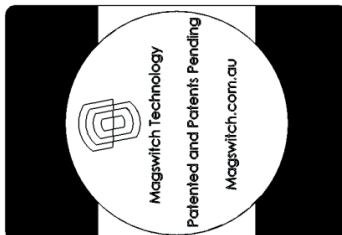
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Specifications

Max Breakaway *	600 lbs	272 kg
Full Saturation Thickness	3/8"	10 mm
Max Safe Shear *	61 lbs	27 kg
Net Weight	3.0 lbs	1.36 kg
Overall Height	106 mm	
Magnetic Pole Footprint	75 mm x 51.5 mm	



WORKING SURFACE
BLACK=BEST

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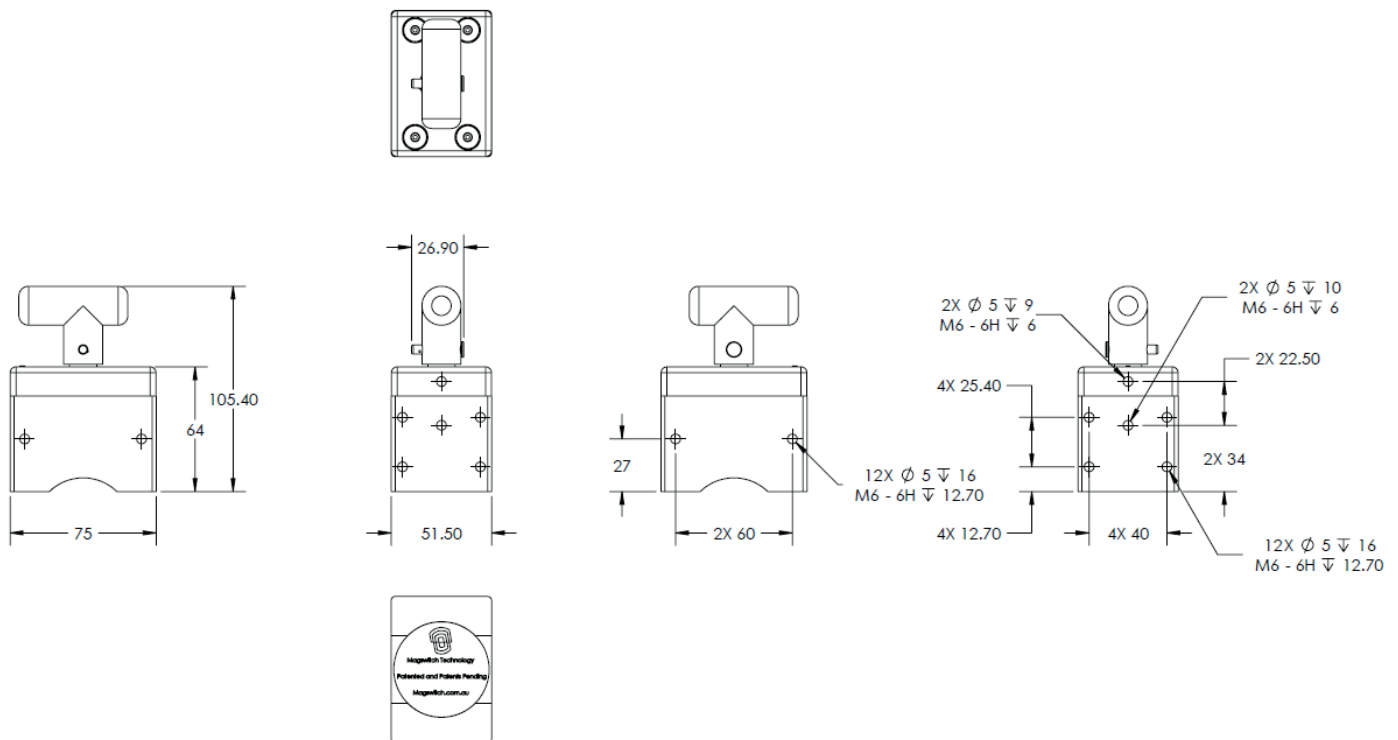
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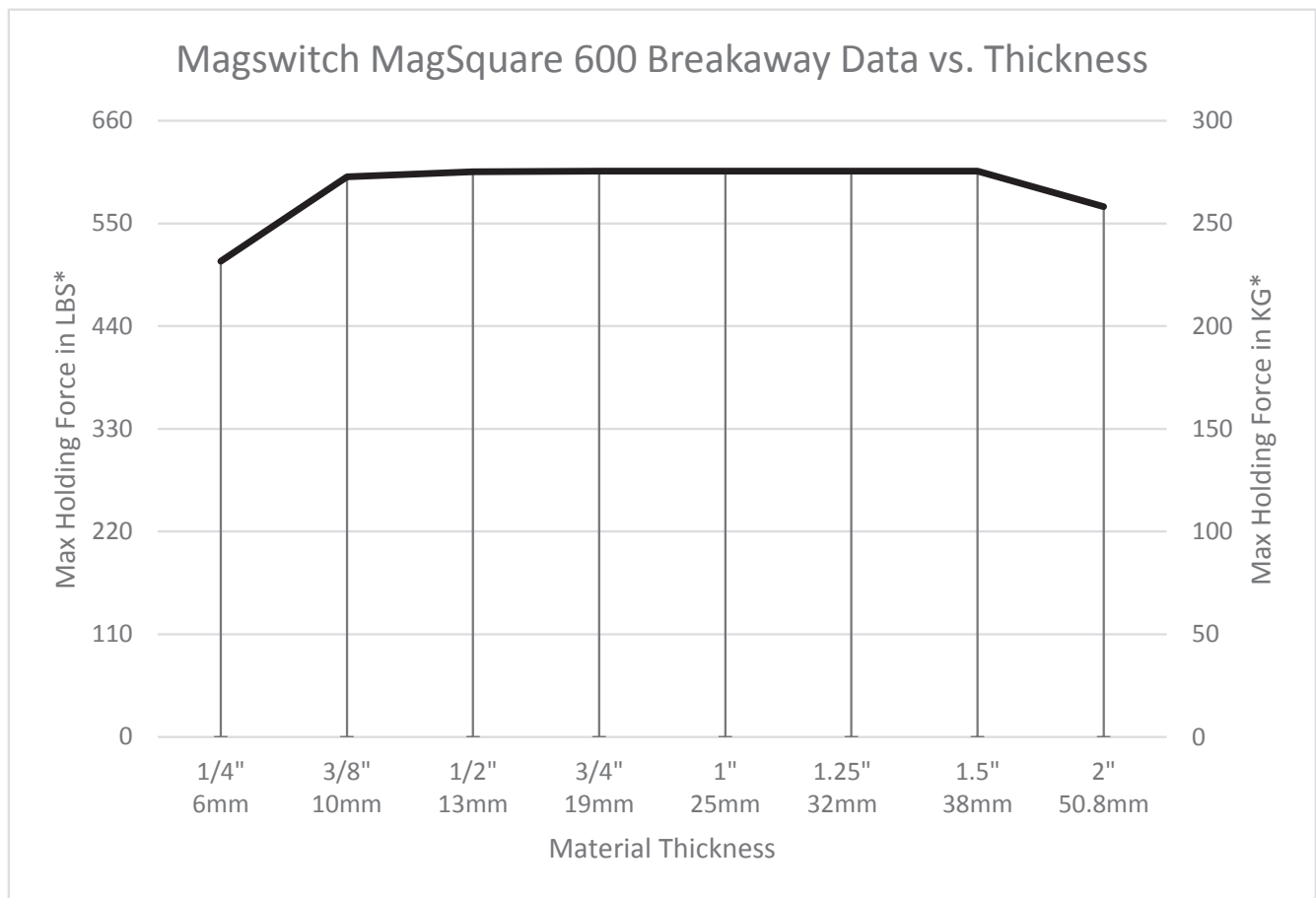
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Breakaway Data



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AT EVERY STEP OF THE WAY

MagSquare 1000

P/N: 8100099

Tool Features

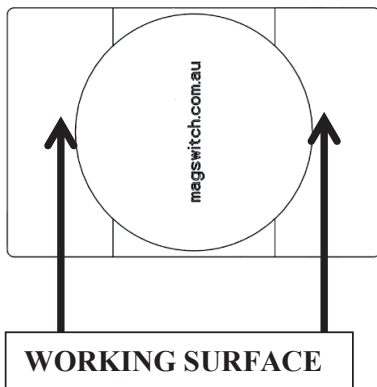
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Specifications

Max Breakaway *	1000 lbs	454 kg
Full Saturation Thickness	0.5"	13mm
Max Safe Shear *	148 lbs	67 kg
Net Weight	7.4 lbs	3.36 kg
Overall Height	147 mm	
Magnetic Pole Footprint	72 mm x 108 mm	



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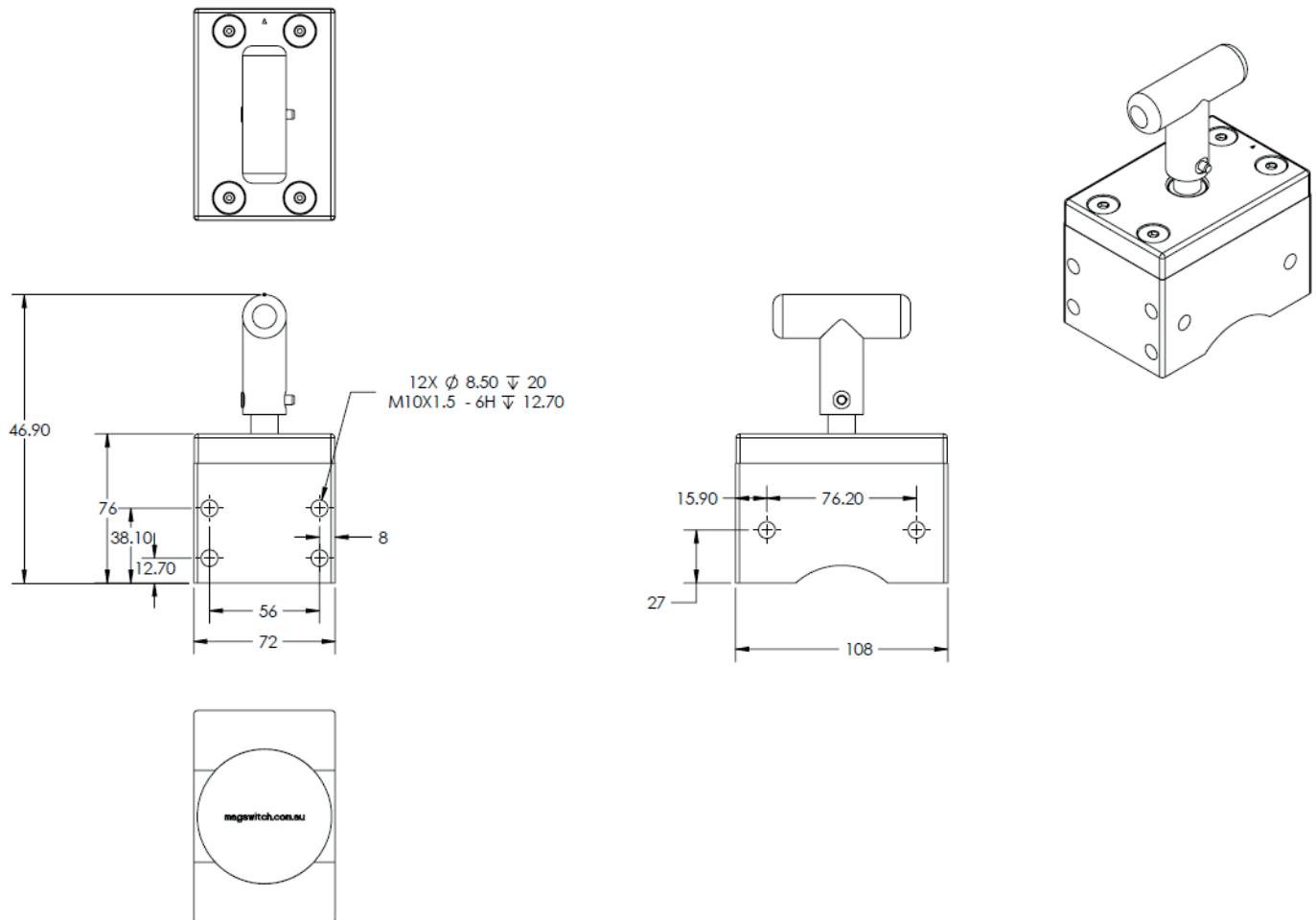
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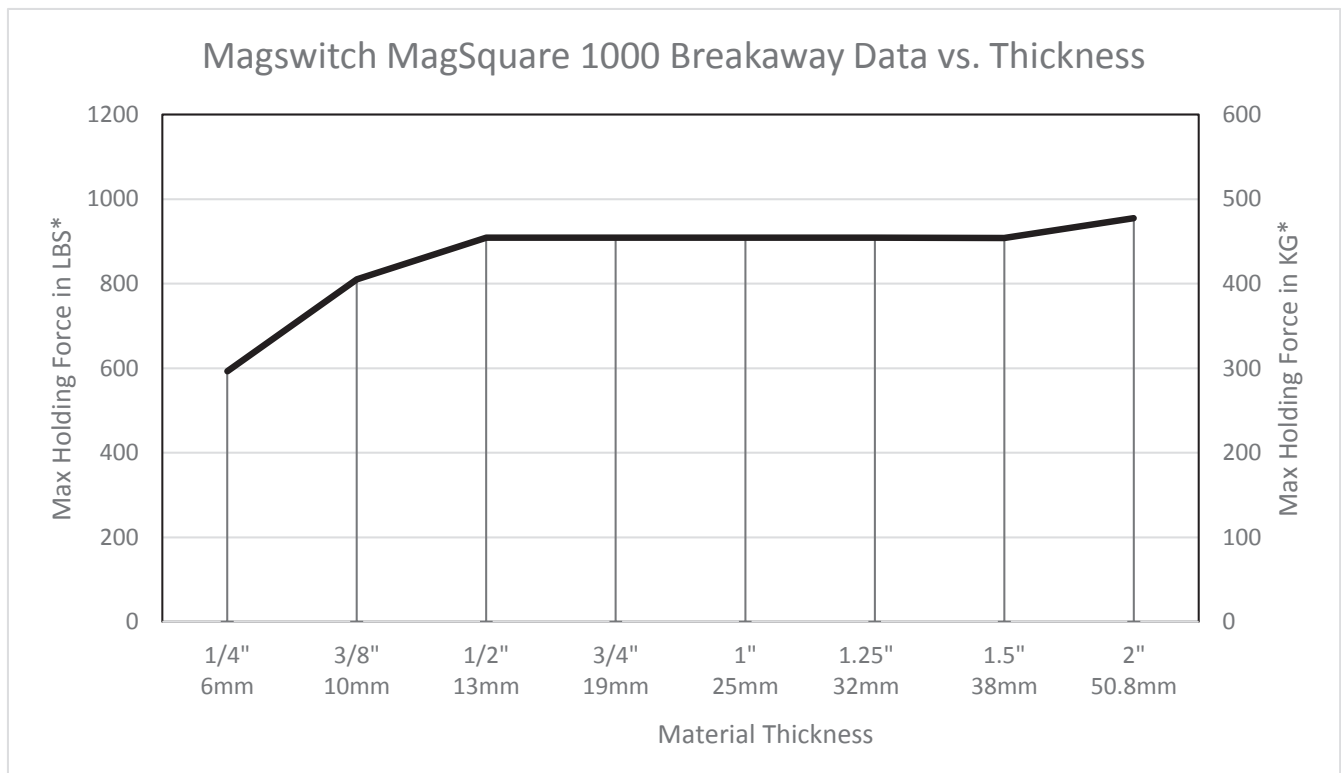
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