

M10AY ASC | P/N 8140543

Summary

The M10AY ASC may be the smallest of the Magswitch circular array (AY) lineup, but it doesn't disappoint. AY tools utilize field interaction between separate Magswitch units to adjust field shape and depth, optimizing them for thinner materials and increasing grip in shear.

WARNING!
Do Not Operate Unless In Contact With Ferrous Target

Specifications

Maximum Breakaway Force ^{1,2}	56.4 lb	25.6 kg
Maximum Shear ^{1,2}	28.2 lb	12.8 kg
Thickness for De-Stack ³	20 ga	1 mm
Maximum Allowable Pressure	100 psi	6.89 Bar
Off Target Actuation Pressure	46 psi	3.17 Bar
Net Weight	1.2 lb	0.54 kg
Air Port Thread	2x M5x0.8	
Mounting Options	Top: 4x M6x1 P.C.D. 54	
Magnetic Pole Footprint	Ø2.22"	Ø56.5mm



Material Thickness - mm (in)	0.6 (0.02)	0.7 (0.03)	0.8 (0.03)	1 (0.04)	1.5 (0.06)	2 (0.08)
Maximum Force ^{1,2,5} - kg (lbs)	8.17 (18.0)	9.73 (21.5)	12.57 (27.7)	17.17 (37.9)	20.13 (44.4)	25.6 (56.4)
Maximum Shear ^{1,2,5} - kg (lbs)	6.5 (14.3)	7.07 (15.6)	7.83 (17.3)	9.03 (19.9)	10.23 (22.6)	12.77 (28.2)
Required Air Pressure ⁴ - bar (psi)	3.1 (44.5)	3.0 (43.3)	2.9 (42.0)	2.9 (42.0)	2.9 (42.0)	2.9 (42.0)

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.

Pole shoes not required for operation. Working surface shown below in BLACK

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