

AR70 NAAMS | P/N 8140681

Summary

The AR70 spans the gap between our best-selling AR50 Classic and the AR110 behemoth. Featuring precision NAAMS mounting on top and side faces, it's a well-rounded tool designed for part pick and place, with a bit of extra "oompf" for those tricky applications. Note: separate pole shoes (shown) are required.

WARNING!

Do Not Operate Unless In Contact With Ferrous Target

Specifications



Maximum Breakaway Force ^{1,2}	4070 N	
Maximum Shear ^{1,2}	556 N	
Thickness for De-Stack ³	1/2 in	12.7 mm
Maximum Allowable Pressure	145 psi	10 Bar
Off Target Actuation Pressure	70 psi	4.8 Bar
Net Weight	14.9 lb	6.8 kg
Air Port Thread	2x G1/8 (1/8 BSP)	
Mounting Options	Side: Ø8-M10-Ø8-M10 Top (THRU): Ø8.0- Ø11.0-Ø8.0- Ø11.0	
Magnetic Pole Footprint	4.25in x 2.85in	108mm x 72.3mm

Material Thickness - mm (in)	1.0 (0.04)	1.5 (0.06)	1.9 (0.07)	2.7 (0.11)	3.0 (0.12)	3.5 (0.14)	4.76 (0.19)	6.35 (0.25)	9.52 (0.37)	12.7 (0.50)
Maximum Force ^{1,2,5} - Newton (N)	433	592	845	1250	1366	1650	2651	3527	4017	4070
Required Air Pressure ⁴ - bar (psi)	4.1 (60)	3.8 (55)	3.4 (50)	3.0 (44)	2.8 (40)	2.5 (36)	2.2 (32)	2.0 (29)	2.0 (29)	2.0 (29)

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.

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

