

# AR50 2.0

P/N: 81401167

## Tool Features

The AR50 2.0 extends our best-selling AR Class by reducing height and weight, while retaining its substantial breakaway force. Featuring precision NAAMS mounting, manual override, and improved ingress protection, the AR50 2.0 is prepared for whatever challenge you create.

**WARNING!**  
DO NOT OPERATE UNLESS IN  
CONTACT WITH FERROUS TARGET



## Specifications

Maximum Breakaway Force <sup>1,2</sup>	2117 N									
Maximum Shear <sup>1,2</sup>	165 lb					75 kg				
Thickness for De-Stack <sup>3</sup>	3/8 in					9.5 mm				
Maximum Allowable Pressure	90 psi					6,2 Bar				
Off Target Actuation Pressure	65 psi					4,5 Bar				
Net Weight	4.9 lb					2,3 kg				
Air Port Thread	2x M5 x 0.8									
Mounting Options	Side - 3x NAAMS Ø8-M8-Ø8									
Magnetic Pole Footprint	2.52" x 2.05"					64mm x 52mm				
Material Thickness - mm (in)	0.5 (0.02)	1 (0.04)	2 (0.08)	3 (0.12)	4 (0.16)	5 (0.20)	6 (0.24)	7 (0.28)	9.5 (0.37)	12.7 (0.50)
Maximum Force <sup>1,2,5</sup> - kg (lbs)	13.2 (29.0)	31.7 (70.0)	58.2 (128)	96.5 (213)	122 (269)	168 (370)	184 (406)	199 (438)	215 (475)	216 (476)
Required Air Pressure <sup>4</sup> - bar (psi)	4.0 (58)	3.0 (44)	2.6 (38)	2.0 (29)	1.8 (27)	1.6 (24)	1.6 (24)	1.4 (21)	1.4 (21)	1.4 (21)

1. Determined in laboratory environment on 2" thick 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 standard tool.

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.

$$SWL \text{ (Safe Working Load)} = \frac{\text{Maximum Force}^5}{\text{Safety Factor} (\geq 3)}$$

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## Drawings

Pole shoes are required for operation - Standard kits available:

**AR50 2.0 Standard Pole Shoe Kit - 8800760**

**Flat/V Combination Pole Shoe Kit - 8800881**

**AR50 2.0 M8 Prox Sensor Bracket Kit - 8800797**

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