

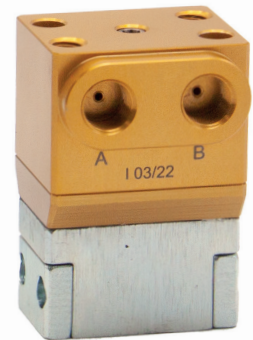
T20

P/N: 81401258

Tool Features

The even more compact T20 is a miniature version of our T30, featuring similar high precision and repeatable mounting and manual override features.

WARNING!
DO NOT OPERATE UNLESS IN
CONTACT WITH FERROUS TARGET



Specifications

Maximum Breakaway Force ^{1,2,4}	333 N	
Maximum Shear Force ^{1,2,4}	22 lbs	10 kg
Minimum Thickness for De-Stack ³	0.118 in	3.0 mm
Overall Height (Max)	2.1 in	54.0 mm
Overall Length	1.4 in	36.0 mm
Overall Width	1.3 in	32.5 mm
Net Weight	0.42 lbs	0.2 kg
Magnetic Pole Footprint	1.4 x 0.8 in	36.0 x 21.0 mm
Max Allowable Pressure	90 psi	0.62 MPa

Material Thickness - mm (in)	0.5 (0.020)	0.6 (0.024)	0.7 (0.028)	0.8 (0.031)	1 (0.039)	1.5 (0.059)	2 (0.079)	3 (0.118)	4 (0.157)
Maximum Force ⁵ - kg (lbs)	4.1 (9.0)	5.1 (11.2)	6.5 (14.3)	8.2 (18.1)	13.2 (29.1)	17.9 (39.5)	25.6 (56.4)	34.2 (75.4)	34.2 (75.5)
Required Air Pressure - bar (psi)	3.0 (44)	3.0 (44)	2.8 (41)	2.8 (41)	2.6 (38)	2.4 (35)	2.2 (32)	2.2 (32)	2.2 (32)

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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T20
81401258 / REV 8

Doc Num 01

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T20

P/N: 81401258

Drawings

Pole shoes are required for operation - Standard kits available:

Flat Pole Shoe Kit - 8800840

Sensor Cap Kit - 8800864

Thin Target Pole Shoe Kit - 8800878

Extended Thin Target Pole Shoe Kit - 8800874

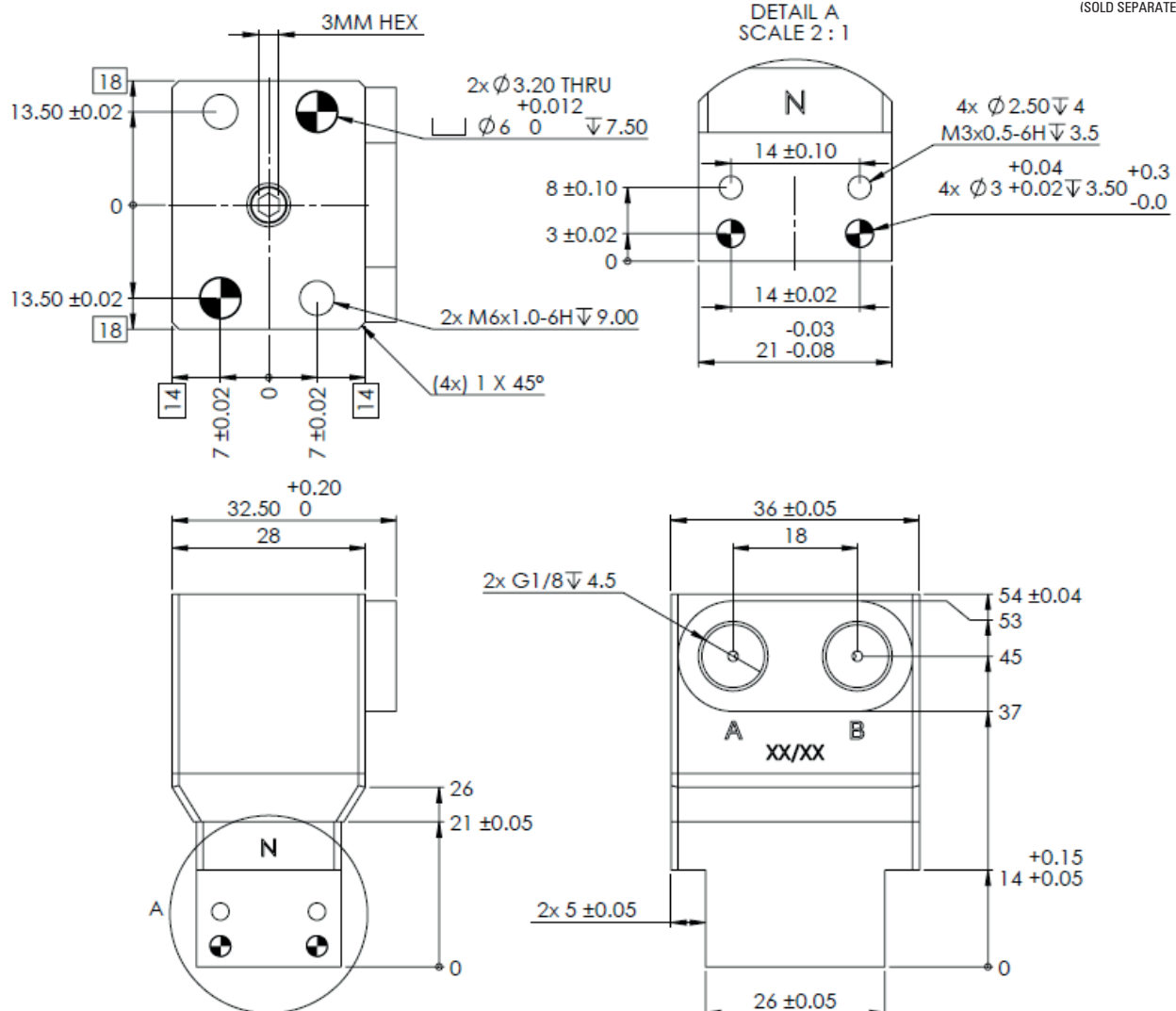
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NO POLE SHOES



POLE SHOES ATTACHED
(SOLD SEPARATELY)



T30

P/N: 81401124

Tool Features

The Magswitch T30 is compact and powerful, boasting cutting edge technology enhancements and precision mounting interfaces. These tools are great for fixtures, pin locating and thin part material handling. Additional custom pole shoe geometry allows for extreme flexibility in applications. This tool is a precision fit for your next project!

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Specifications

Maximum Breakaway Force ^{1,2}	715 N							
Maximum Shear Force ^{1,2}	38.8 lb					17 kg		
Minimum Thickness for De-Stack ³	0.197 in					5.0 mm		
Minimum Actuation Pressure	21.76 psi					1.5 Bar		
Maximum Actuation Pressure	89.92 psi					6.2 Bar		
Air Port Threads	2x G 1/8							
Net Weight	1.3 lb					0.6 kg		
Individual Magnetic Pole Footprint	8.78" x 2.8"					54 mm x 31 mm		
Mounting Options	TOP: Ø8-M8-Ø8-M8 Side: 2x Ø6-M8-Ø6							
Material Thickness - mm (in)	0.5 (0.020)	1 (0.039)	2 (0.079)	3 (0.118)	4 (0.157)	5 (0.197)	6 (0.236)	50.8 (2.000)
Maximum Force ^{1,2,5} - kg (lbs)	6.63 (14.62)	18.23 (40.20)	34.03 (75.03)	54.60 (120.37)	62.87 (138.60)	70.63 (155.72)	73.07 (161.08)	73.03 (161.01)
Actuation Pressure - bar (psi)	3.90 (57)	2.75 (40)	1.80 (26)	1.50 (22)	1.50 (22)	1.50 (22)	1.50 (22)	1.50 (22)

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T30
81401124 / REV 3

Doc Num 01

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T30

P/N: 81401124

Drawings

Pole shoes are required for operation - Standard kits available:

T30 Pin Clamp Pole Shoe Kit - 8800747

T30 Standard Pole Shoe Kit - 8800696

T30 Thin Target Pole Shoe Kit - 8800756

T30 Pole Shoe Kit w/ 20mm Pin - 8800761

T30 Sensor Cap Kit - 8800699

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