

D120 | P/N: 81401457

The D120 is a tool intended for picking sheet metal. Featuring multipole shallow field array technology, it is a mighty pneumatic tool which excels at de-stacking and lifting thin materials when most larger magnets can't get a grip.

WARNING!

Do Not Operate Unless In Contact With Ferrous Target

Specifications

Nominal Maximum Breakaway Force ^{1,2}	1133 N	
Nominal Maximum Shear Force ^{1,2}	296 N	
Thickness for De-Stack ³	0.08 in	2.0 mm
Maximum Allowable Pressure	116 psi	8.0 Bar
On Target Actuation Pressure	60.0 psi	4.1 Bar
Net Weight	2.76 lb	1.25 kg
Air Port Thread	2x G1/8 (1/8 BSP)	
Mounting Options	Top - 2x NAAMS Ø6-M8-Ø6 Side - 2x Ø5-M6-Ø5	
Magnetic Pole Footprint	2.13" x 1.97"	54.0mm x 50.0mm



Material Thickness - mm (in)	0.5 (0.020)	0.6 (0.024)	0.7 (0.028)	0.8 (0.031)	0.9 (0.035)	1.0 (0.039)	1.1 (0.043)	1.2 (0.047)	1.3 (0.051)	1.4 (0.055)	1.5 (0.059)	2.0 (0.079)	3.0 (0.118)	4.0 (0.157)	5.0 (0.197)
Maximum Force ^{1,2,5} - (N)	304	401	471	538	698	843	878	934	1017	1058	1094	1130	1133	1133	1133
Required Air Pressure ⁴ - Bar (psi)	2.4 (35)	2.8 (40)	2.8 (40)	3.1 (45)	3.1 (45)	3.1 (45)	3.4 (50)	3.4 (50)	3.4 (50)	3.4 (50)	3.8 (55)	4.1 (60)	4.1 (60)	4.1 (60)	4.1 (60)

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 Thickness=2mm.

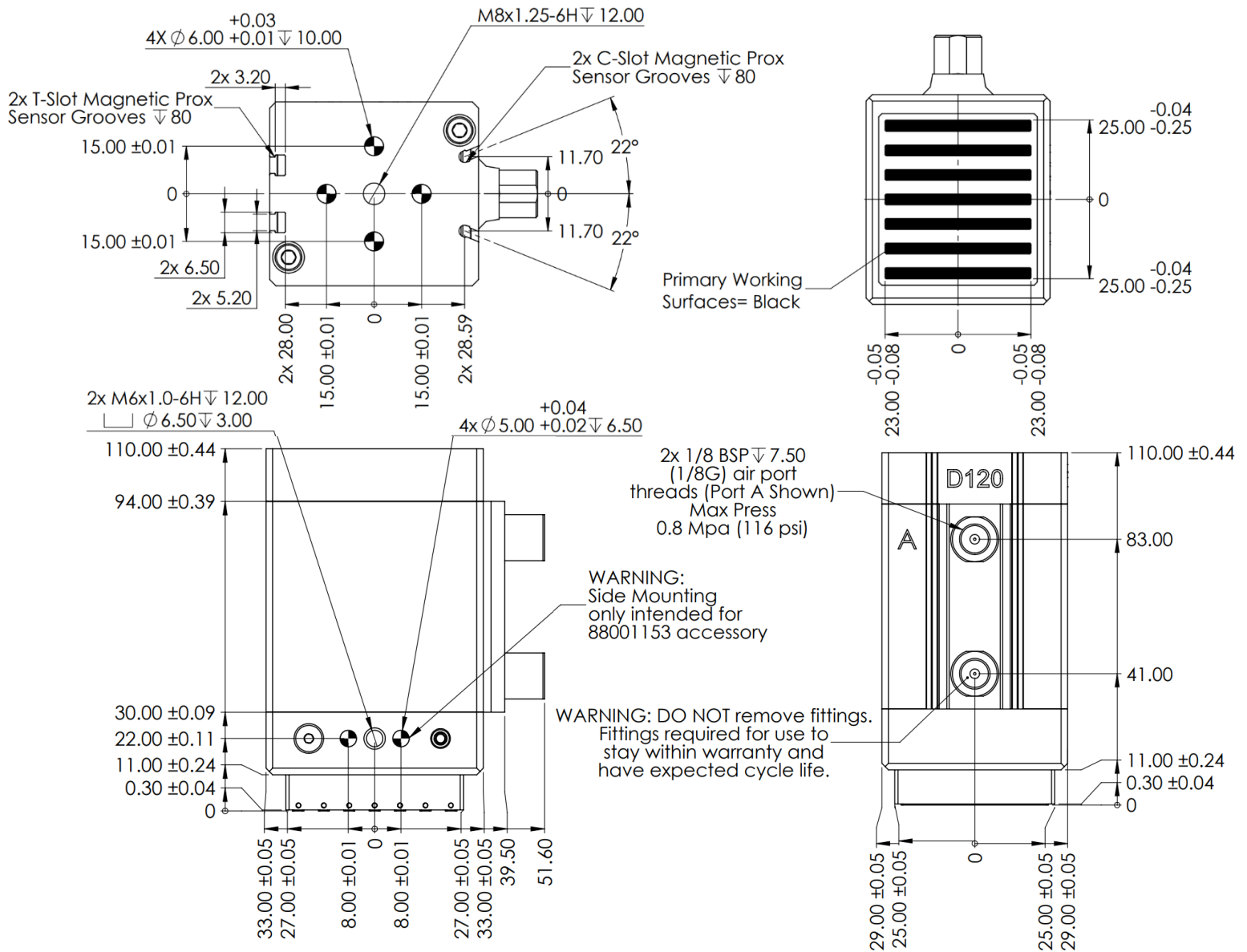
⁴ Values may vary by +/- 5%.

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.

Standard Kits Available:

D120 Compliance Device

88001639



Center of Gravity (COG) Location

