CAD3K-STH

Air Engaged Friction Clutch
End of Shaft Bored, Pilot Mount

Minimum Sprocket Sizes

Chain Size	60	80	100	120
Minimum Teeth	38	29	24	21

Engagement/Disengagement
Air/Spring

Facing Type
High Coefficient

Torque @ 80 PSI – Dynamic
30,795 Pound Inches

Minimum Engagement Pressure
3 PSI

Maximum Operating Pressure
80 PSI

Maximum RPM
1,100

Bore Range with Standard Keyway
2.500 (64) to 2.875 (77) Inches (mm)

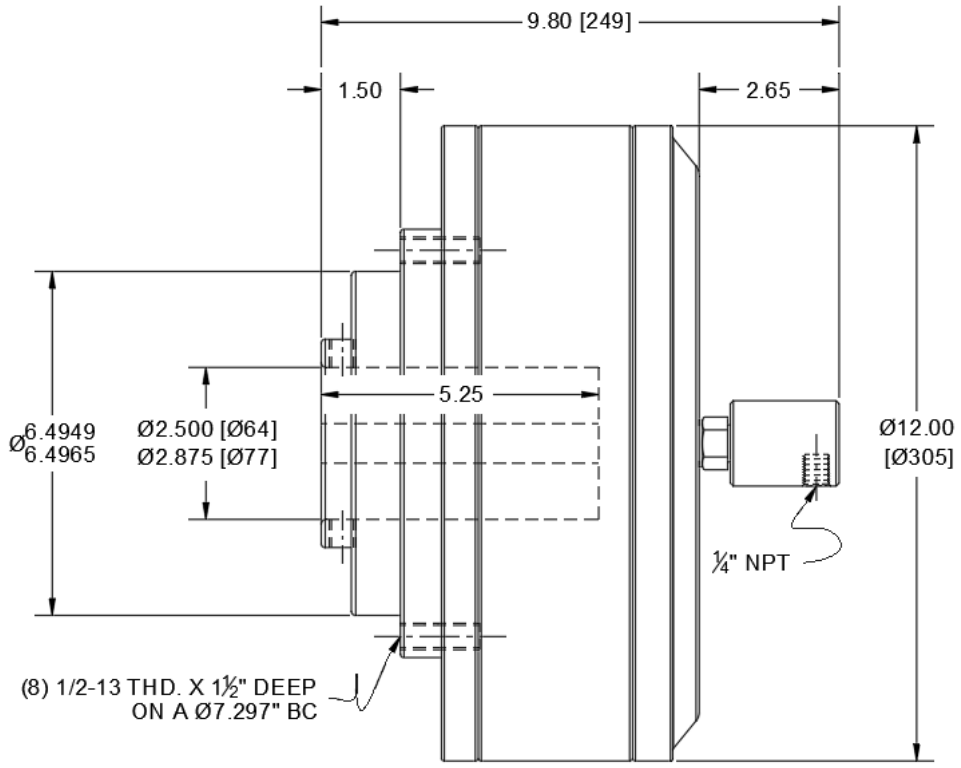
Air Volume New
9.46 Cubic Inches

Air Volume Worn
20.34 Cubic Inches

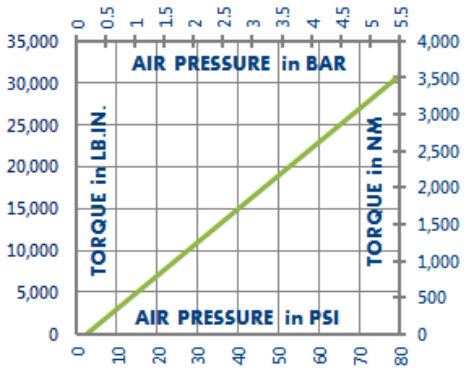
Finish
Aluminum

Open or Enclosed Construction
Enclosed

Shipping Weight
89 Pounds



TORQUE vs. AIR PRESSURE



NEW vs. BURNISHED TORQUE

The torque output of a new friction brake or clutch can be up to 40% less than the published torque rating. To achieve full design torque, a unit must be cycled under load to burnish the friction surfaces. The exact number of cycles varies by application.

When calculating required torque always use a safety factor of 1.5 to 2. It is not recommended to select a product for use at its maximum rated torque for continuous duty.

PRODUCT SELECTION

Torque capacity is only one factor to consider when making a product selection. Ensure that you will have the right product for the job by contacting our engineering department for application review and selection assistance.

MACH III
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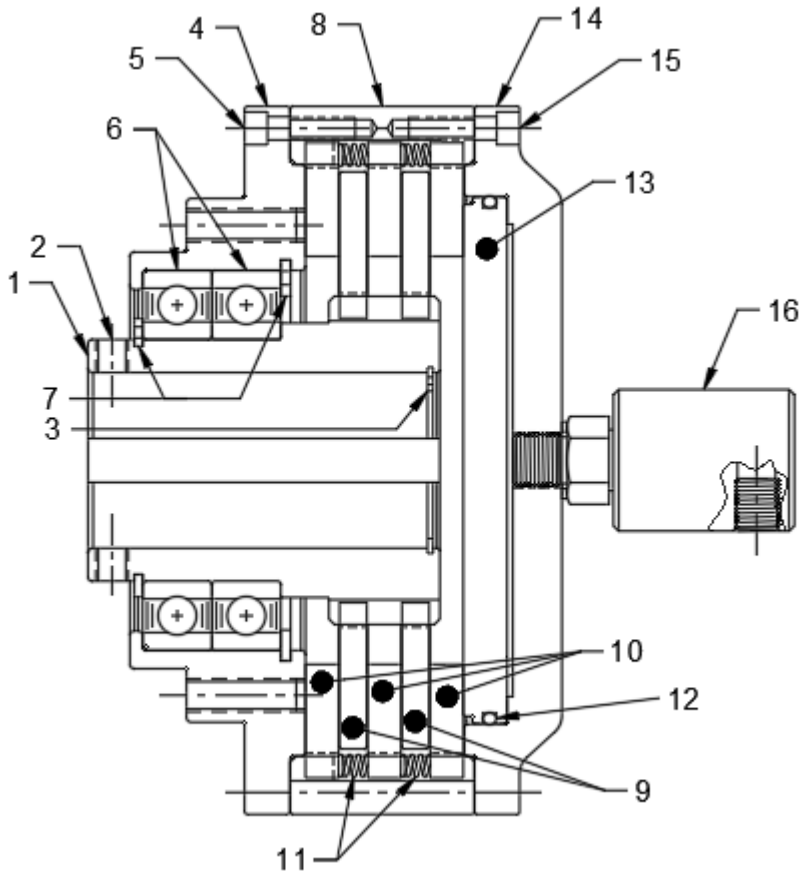
CAD3K-STH

Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	DRIVE HUB KIT		**CAD3K-STH-HUBK**
1	Drive Hub	1	*Specify Bore Size When Ordering*
2	Set Screw	2	
3	Retainer Ring	1	
	SLEEVE KIT		**CAD3K-STH-SLVK**
4	Sleeve	1	
5	Screw	9	
6	Bearing	2	
7	Retainer Ring	2	
8	Ring Gear	1	
	DRIVE DISC KIT		**CAD3K-STH-DRDK**
9	Drive Disc	2	
	REPAIR KIT		**CAD3K-STH-RPRK**
10	Friction Disc	3	
11	Coil Spring	12	
12	O-Ring	1	
13	PISTON	1	CAD3K-STH-P004
	CYLINDER KIT		**CAD3K-STH-CYLK**
14	Cylinder	1	
15	Screw	9	
16	ROTATING SEAL	1	RSEAL-029

PARTS KITS

The *Repair Kit* contains common wear items for this product. Users are encouraged to stock one or more repair kits considering the number of units installed and the potential downtime if machinery on which the unit is installed is critical equipment. To obtain current pricing and lead time for parts kits, contact customer service.

orders@machiii.com

ADDITIONAL PRODUCT INFORMATION

For illustrated guides showing how Mach III products work, selection guidelines, product manuals, installation and use recommendations:

https://machiii.com/resources/how-our-products-work

For information about how to order, return policy and warranty information:

https://machiii.com/resources/how-to-order

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