

X3A2H-STH

Combination Air Engaged Friction Clutch, Spring Engaged Friction Brake, Stop & Start the Shaft – *Ball Bearing Pilot*



Minimum Sprocket Sizes

Chain Size	35	40	50	60
Minimum Teeth	30	23	20	17

Clutch Engagement/Brake Engagement

Air/Spring

Facing Type

High Coefficient

Clutch Torque @ 80 PSI (max) – Dynamic

275 Pound Inches

Brake Torque @ Spring Pressure (fixed)

19 Pound Inches

Brake Release Pressure

15 - 20 PSI

Maximum RPM

1,750

Bore Range with Standard Keyway

0.500 (13) to 0.625 (16) Inches (mm)

Air Volume New

0.19 Cubic Inches

Air Volume Worn

0.69 Cubic Inches

Finish

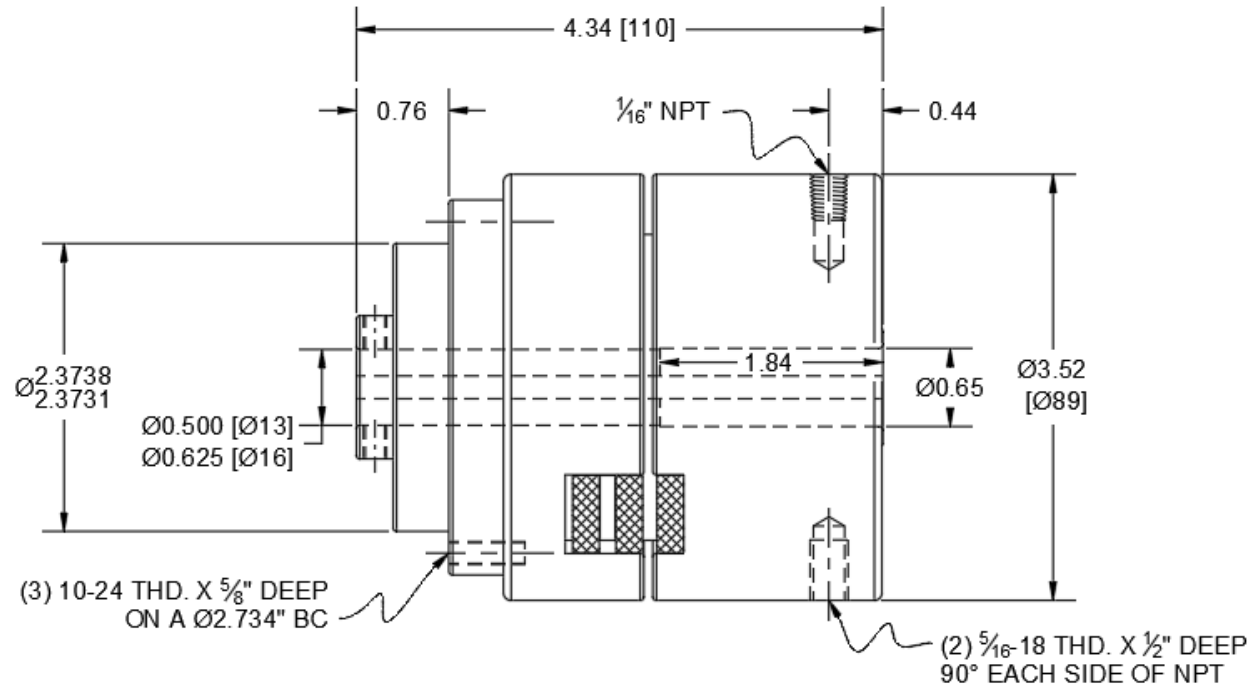
Aluminum

Open or Enclosed Construction

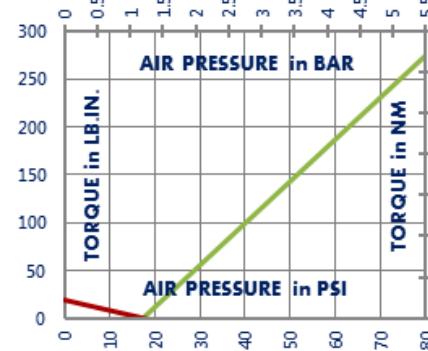
Open

Shipping Weight

6 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.

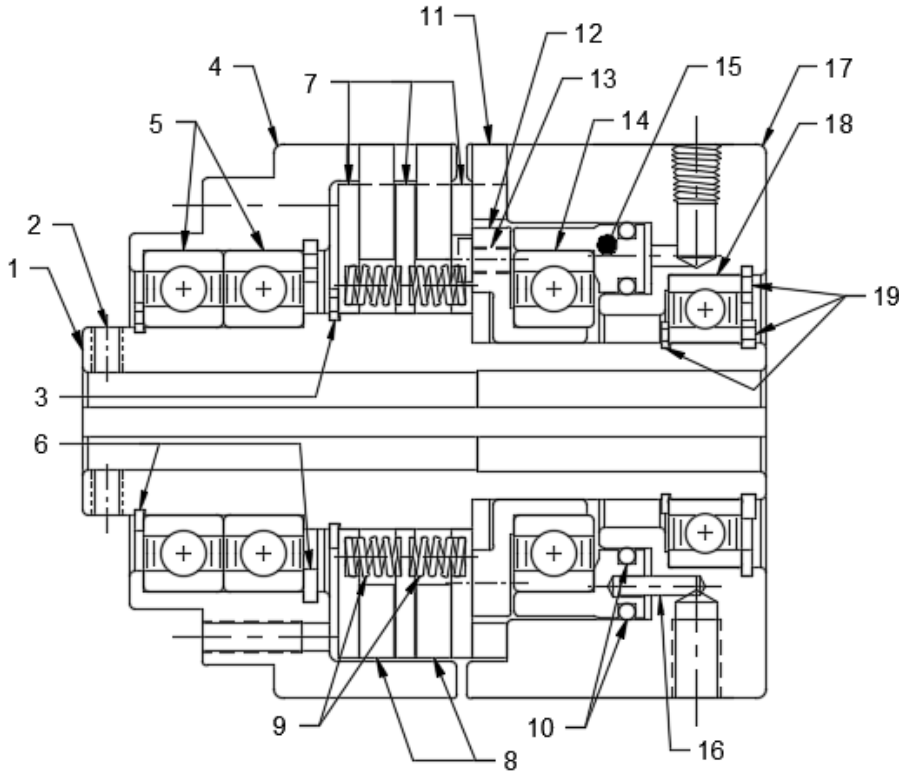


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Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	DRIVE HUB KIT		W3A2H-STH-HUBK
1	Drive Hub	1	<i>Specify Bore Size When Ordering</i>
2	Set Screw	2	
3	Retainer Ring	1	
	SLEEVE KIT		X3A2H-STH-SLVK
4	Sleeve	1	
5	Bearing	2	
6	Retainer Ring	2	
	DRIVE DISC KIT		W3A2H-STH-DRDK
7	Drive Disc	3	
	REPAIR KIT		X3A2H-STH-RPRK
8	Friction Disc	2	
9	Spring	12	
10	O-Ring	2	
11	Brake Friction Disc	1	
	PISTON KIT		X3A2H-STH-PSTK
12	Cone	1	
13	Screw	1	
14	Bearing	1	
15	Piston	1	
	CYLINDER KIT		X3A2H-STH-CYLK
16	Pins	6	
17	Cylinder	1	
18	Bearing	1	
19	Retainer Ring	3	

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, and 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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