

# Combination Clutch-Brake

Through Shaft, Stop & Start the Pilot



## W4A2H-STH

### Minimum Sprocket Sizes

Chain Size	35	40	50	60
Minimum Teeth	36	30	25	21

### Clutch Engagement/Brake Engagement

Air/Spring

### Facing Type

High Coefficient

### Clutch Torque @ 80 PSI (max) – Dynamic

712 Pound Inches

### Brake Torque @ Spring Pressure (fixed)

128 Pound Inches

### Brake Release Pressure

20 - 25 PSI

### Maximum RPM

1,750

### Bore Range with Standard Keyway

0.688 (17) to 1.250 (31) Inches (mm)

### Air Volume New

0.47 Cubic Inches

### Air Volume Worn

1.63 Cubic Inches

### Finish

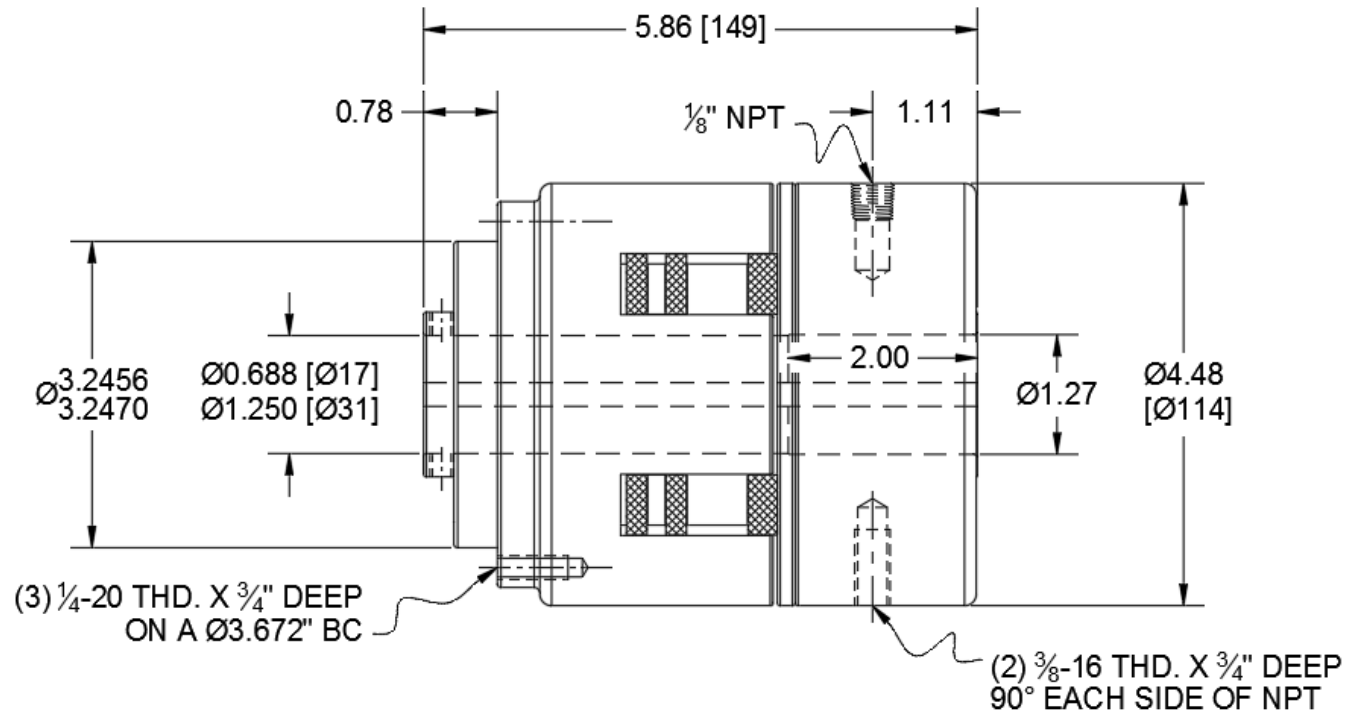
Aluminum

### Open or Enclosed Construction

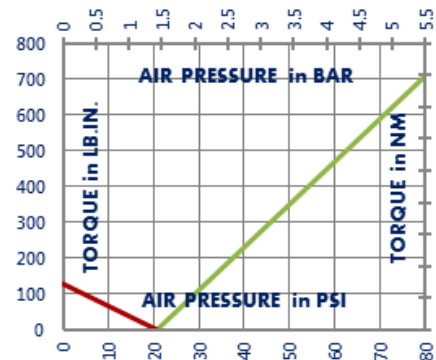
Open

### Shipping Weight

12 Pounds



### TORQUE vs. AIR PRESSURE



### NEW vs. BURNISHED TORQUE

New clutch or brake torque is approximately 40% less than rated design torque until the friction and drive discs are worn in (lapped, burnished). The length of time for wear-in to occur varies by application.

When calculating required torque always use a service 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. Insure that you will have right product for the job by contacting our engineering department for application review and selection assistance.



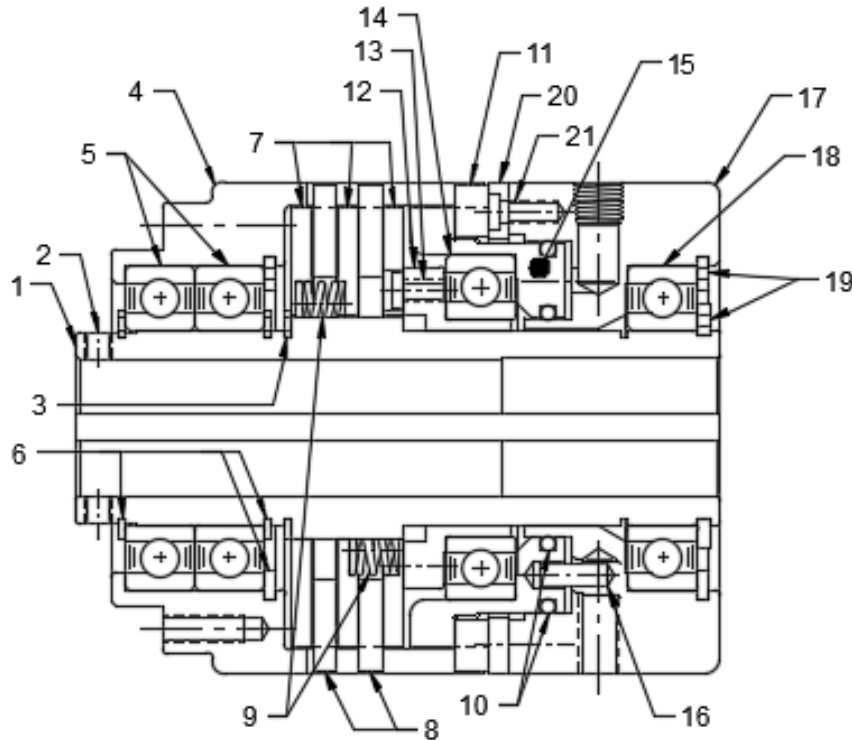
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# W4A2H-STH

## Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
	<b>DRIVE HUB KIT</b>		<b>C4A2H-STH-HUBK</b>
1	Drive Hub	1	<i>Specify Bore Size When Ordering</i>
2	Set Screw	2	
3	Retainer Ring	1	
	<b>SLEEVE KIT</b>		<b>W4A2H-STH-SLVK</b>
4	Sleeve	1	
5	Bearing	2	
6	Retainer Ring	3	
	<b>DRIVE DISC KIT</b>		<b>W4A2H-STH-DRDK</b>
7	Drive Disc	3	
	<b>REPAIR KIT</b>		<b>W4A2H-STH-RPRK</b>
8	Friction Disc	2	
9	Spring	12	
10	O-Ring	2	
11	Brake Friction Disc	1	
	<b>PISTON KIT</b>		<b>W4A2H-STH-PSTK</b>
12	Cone	1	
13	Screw	1	
14	Bearing	1	
15	Piston	1	
	<b>CYLINDER KIT</b>		<b>W4A2H-STH-CYLK</b>
16	Pins	6	
17	Cylinder	1	
18	Bearing	1	
19	Retainer Ring	2	
20	Brake Steel Disc	1	
21	Screw	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](mailto:orders@machiii.com)

### ADDITIONAL PRODUCT INFORMATION

Click on the links below or copy and paste into your web browser.

To view the Installation & Maintenance Manual for this product:

[http://www.machiii.com/PDF/Product-Manuals/CLUTCHBR PILOT BALLBRG MANUAL.pdf](http://www.machiii.com/PDF/Product-Manuals/CLUTCHBR_PILOT_BALLBRG_MANUAL.pdf)

For information about the application and use of this and other Mach III products:

<http://machiii.com/Application/Default.asp>



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