## W4A2H-STH

Combination Air Engaged Friction Clutch, Spring Engaged Friction Brake, Stop & Start the *Ball Bearing Pilot* (Sprocket)



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**

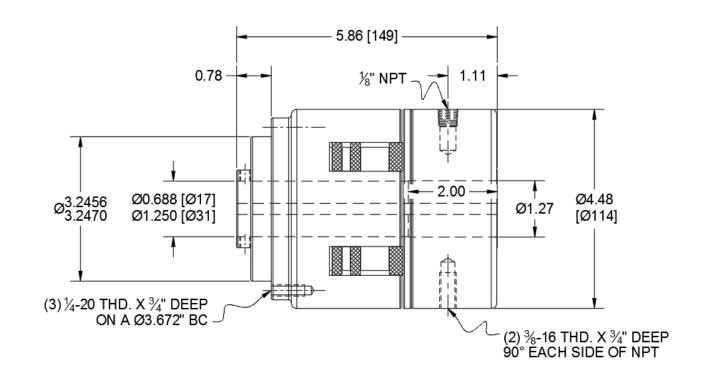
Aluminum

## **Open or Enclosed Construction**

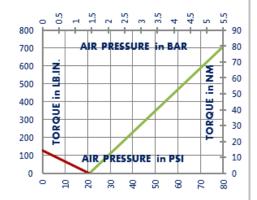
Open

## **Shipping Weight**

12 Pounds



#### TORQUE vs. AIR PRESSURE



### **NEW vs. BURNISHED TORQUE**

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.

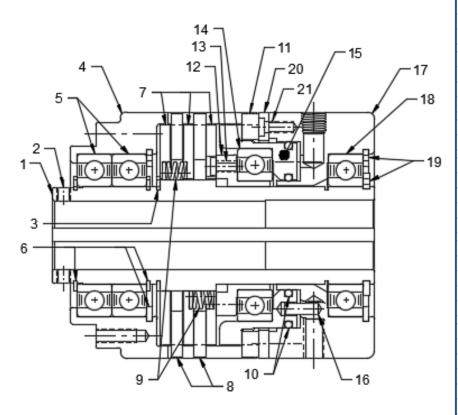


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# W4A2H-STH

# Parts Diagram



REF#	DESCRIPTION & PARTS INCLUDED	QUANTITY	KIT NUMBER
TCET III	DRIVE HUB KIT	acr attiti	C4A2H-STH-HUBK
1	Drive Hub	1	
2	Set Screw	2	Specify Bore Size When Ordering
3	Retainer Ring	1	
3	Retainer King		
	SLEEVE KIT		W4A2H-STH-SLVK
4	Sleeve	1	
5	Bearing	2	
6	Retainer Ring	3	
	DRIVE DISC KIT		W4A2H-STH-DRDK
7	Drive Disc	3	W-MEII-STII-BROR
	REPAIR KIT		W4A2H-STH-RPRK
8	Friction Disc	2	
9	Spring	12	
10	O-Ring	2	
11	Brake Friction Disc	1	
	PISTON KIT		W4A2H-STH-PSTK
12	Cone	1	
13	Screw	1	
14	Bearing	1	
15	Piston	1	
	CYLINDER KIT		W4A2H-STH-CYLK
16	Pins	6	WAZII-JIII-CIEN
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

## 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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