

Friction Clutch – Air Applied
Through Shaft Bored, Pilot Mount



C5A2R-STH

Minimum Sprocket Sizes

| Chain Size | 40 | 50 | 60 | 80 |
|---------------|----|----|----|----|
| Minimum Teeth | 32 | 26 | 23 | 18 |

Engagement/Disengagement

Air/Spring

Facing Type

High Coefficient

Torque @ 80 PSI – Dynamic

2,587 Pound Inches

Minimum Engagement Pressure

3 PSI

Maximum Operating Pressure

80 PSI

Maximum RPM

1,750

Bore Range with Standard Keyway

1.125 (29) to 1.438 (38) Inches (mm)

Air Volume New

0.75 Cubic Inches

Air Volume Worn

6.82 Cubic Inches

Finish

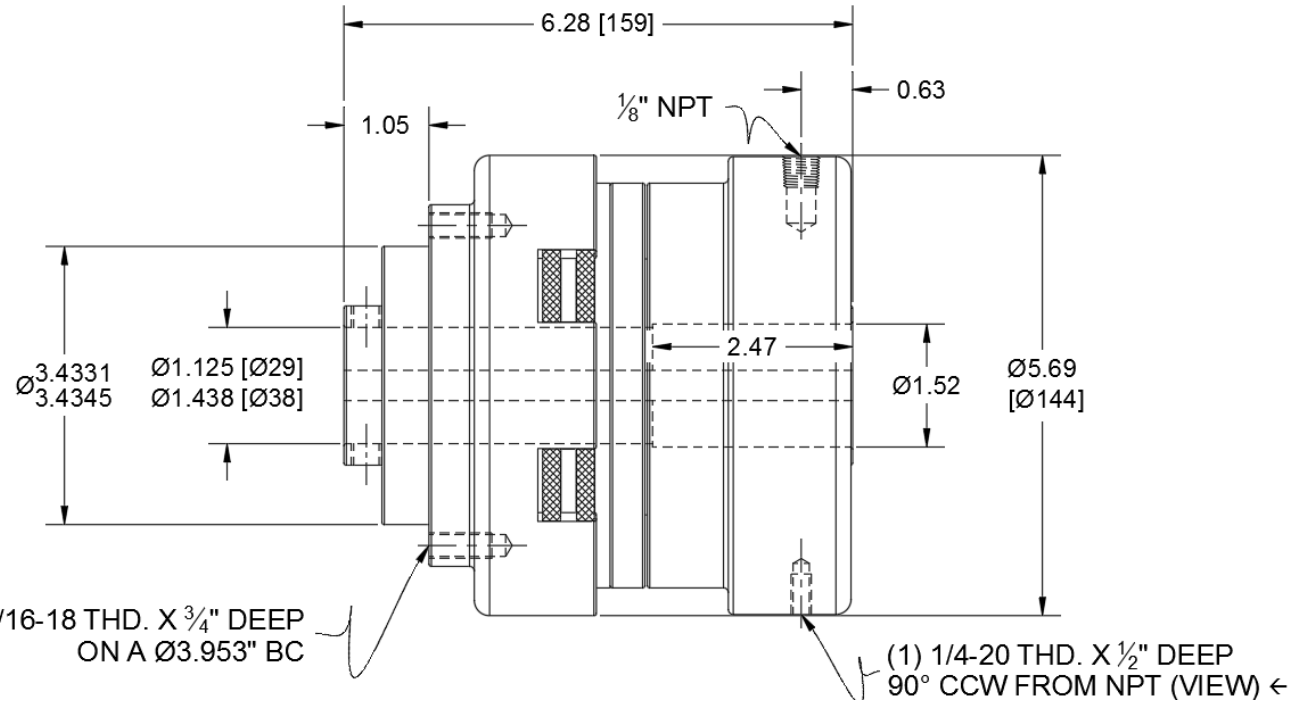
Aluminum

Open or Enclosed Construction

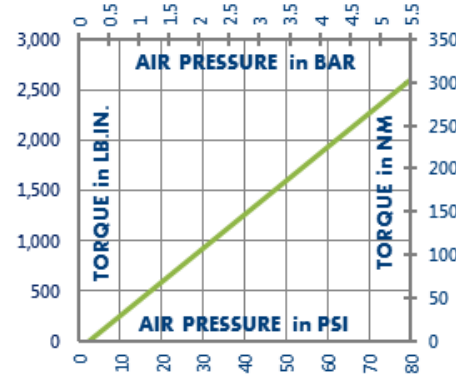
Open

Shipping Weight

19 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.



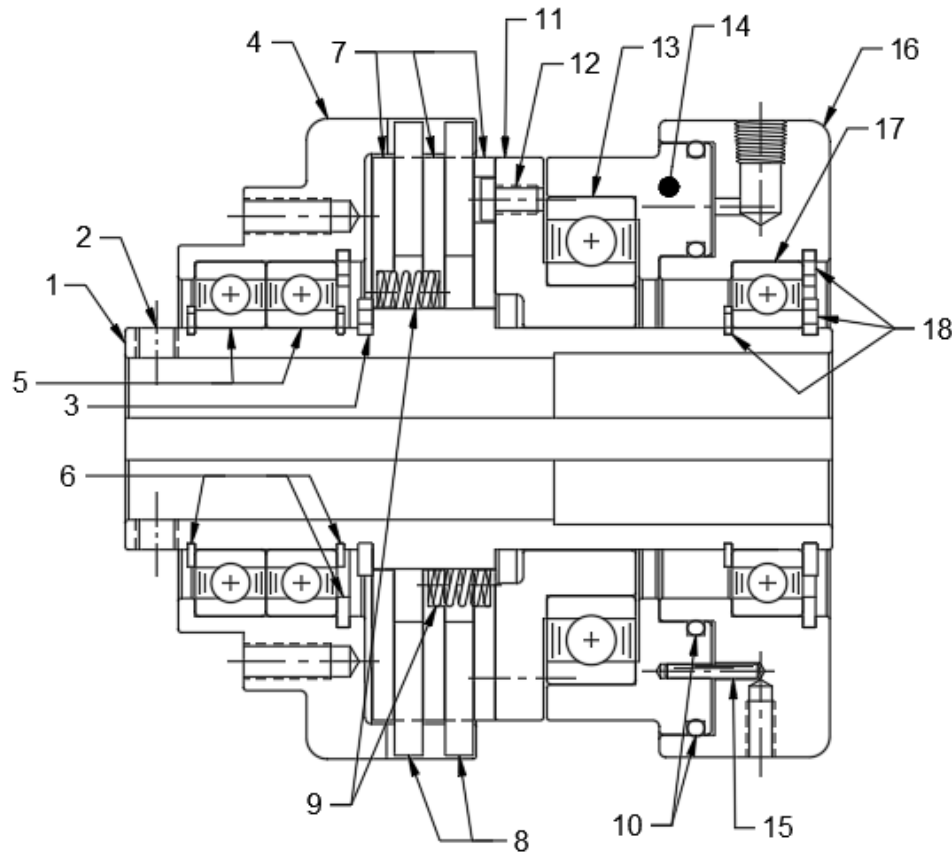
859-291-0849

engineering@machiii.com

www.machiii.com

C5A2R-STH

Parts Diagram



| REF# | DESCRIPTION & PARTS INCLUDED | QUANTITY | KIT NUMBER |
|-----------------------|------------------------------|----------|--|
| DRIVE HUB KIT | | | C5A2R-STH-HUBK |
| 1 | Drive Hub | 1 | <i>Specify Bore Size When Ordering</i> |
| 2 | Set Screw | 2 | |
| 3 | Retainer Ring | 1 | |
| SLEEVE KIT | | | C5A2H-STH-SLVK |
| 4 | Sleeve | 1 | |
| 5 | Bearing | 2 | |
| 6 | Retainer Ring | 3 | |
| DRIVE DISC KIT | | | C5A2R-STH-DRDK |
| 7 | Drive Disc | 3 | |
| REPAIR KIT | | | C5A2R-STH-RPRK |
| 8 | Friction Disc | 2 | |
| 9 | Coil Spring | 6 | |
| 10 | O-Ring | 2 | |
| PISTON KIT | | | C5A2H-STH-PSTK |
| 11 | Cone | 1 | |
| 12 | Screw | 1 | |
| 13 | Bearing | 1 | |
| 14 | Piston | 1 | |
| 15 | Pin | 2 | |
| CYLINDER KIT | | | C5A2H-STH-CYLK |
| 16 | Cylinder | 1 | |
| 17 | Bearing | 1 | |
| 18 | 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

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/CLUTCH_THRUSHAFT_BALLBRG_AIR_RD_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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