

Z4A1R-001

Shaft to Shaft Mount
Combination Air Engaged Friction
Clutch, Air Engaged Friction Brake,
Stop & Start the Output Shaft



Clutch Engagement/Brake Engagement

Air/Air

Facing Type (Clutch & Brake)

Low Coefficient

Clutch Torque @ 80 PSI (max) – Dynamic

407 Pound Inches

Brake Torque @ 80 PSI (max) – Dynamic

407 Pound Inches

Maximum RPM

1,750

Bores with Standard Keyway (Input Bore / Output Bore)

1.250 / 1.125

Air Volume New (Clutch & Brake)

0.31 Cubic Inches

Air Volume Worn (Clutch & Brake)

1.60 Cubic Inches

Finish

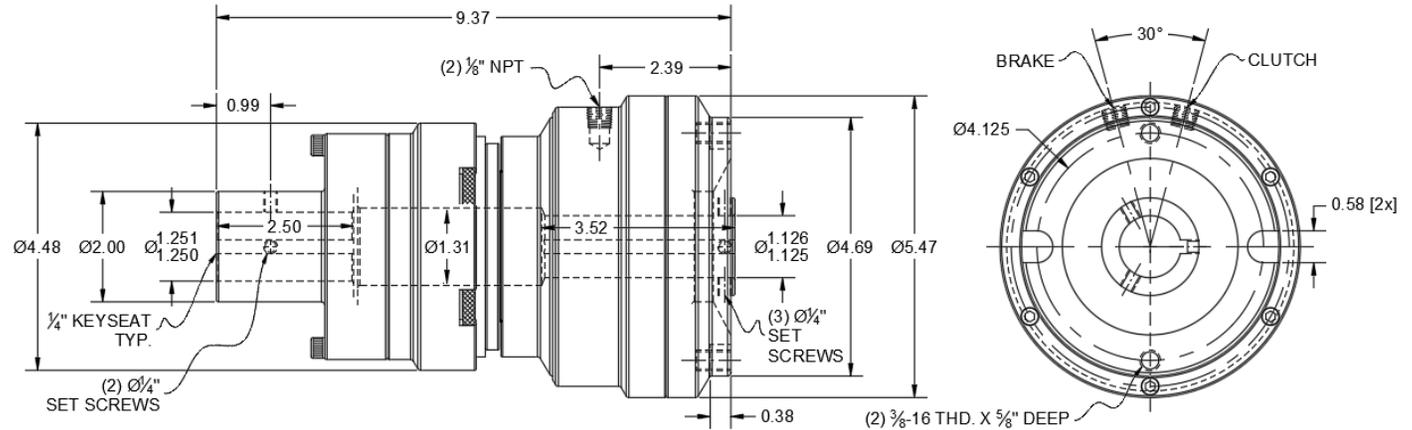
Aluminum

Open or Enclosed Construction

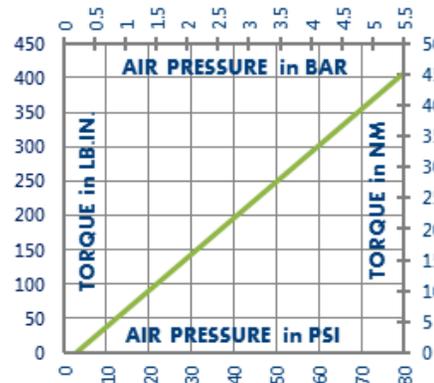
Open

Shipping Weight

17 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.



101 Cummings Drive
Walton, KY 41094 USA

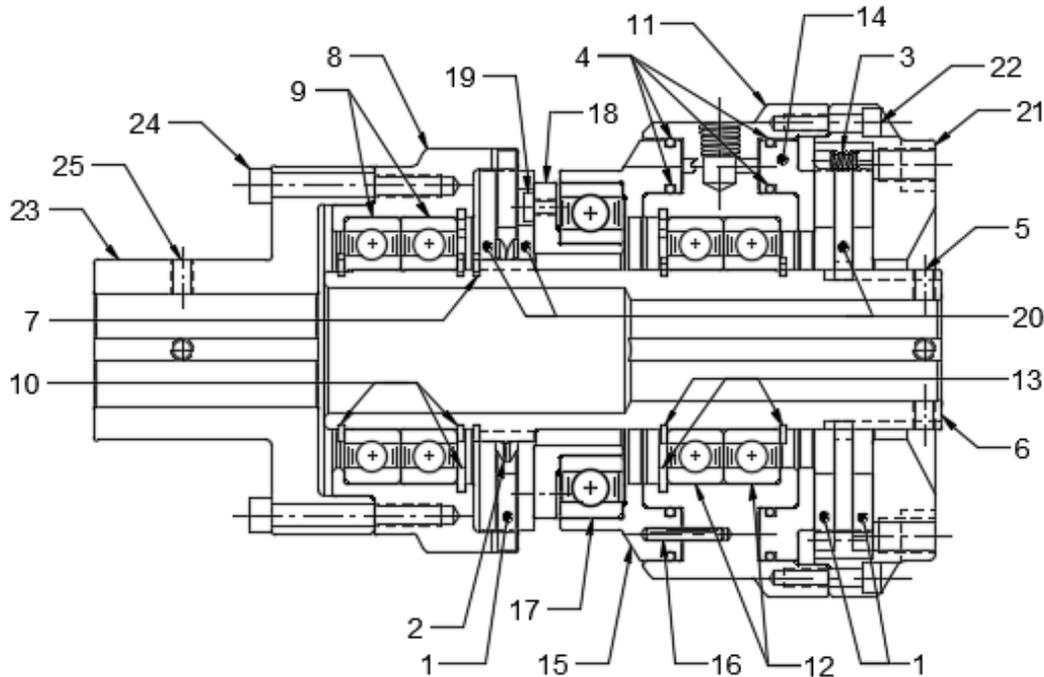
859-291-0849

machiii.com

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Z4A1R-001

Parts Diagram



| REF# | DESCRIPTION & PARTS INCLUDED | QUANTITY | KIT NUMBER |
|----------------------------|------------------------------|----------|-----------------------|
| REPAIR KIT | | | Z4A1R-001-RPRK |
| 1 | Friction Disc | 3 | |
| 2 | Wave Spring - Clutch | 1 | |
| 3 | Coil Spring - Brake | 6 | |
| 4 | O-Ring | 4 | |
| DRIVE HUB KIT | | | Z4A1R-001-HUBK |
| 5 | Set Screw | 3 | |
| 6 | Drive Hub | 1 | |
| 7 | Retainer Ring | 1 | |
| SLEEVE KIT | | | Z4A1R-001-SLVK |
| 8 | Sleeve | 1 | |
| 9 | Bearing | 2 | |
| 10 | Retainer Ring | 3 | |
| CYLINDER KIT | | | Z4A1R-001-CYLK |
| 11 | Cylinder | 1 | |
| 12 | Bearing | 2 | |
| 13 | Retainer Ring | 3 | |
| 14 | PISTON - BRAKE | 1 | Z4A1R-001-P0B4 |
| PISTON KIT - CLUTCH | | | Z4A1R-001-PSTK |
| 15 | Piston | 1 | |
| 16 | Pin | 2 | |
| 17 | Bearing | 1 | |
| 18 | Cone | 1 | |
| 19 | Screw | 1 | |
| DRIVE DISC KIT | | | Z4A1R-001-DRDK |
| 20 | Drive Disc | 3 | |
| ADAPTER KIT | | | Z4A1R-001-ADPK |
| 21 | Brake Adapter | 1 | |
| 22 | Screw | 6 | |
| COUPLING KIT | | | Z4A1R-001-CPLK |
| 23 | Coupling | 1 | |
| 24 | Screw | 6 | |
| 25 | Set Screw | 2 | |

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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