MACH III
Clutches • Brakes • Torque Limiters

Friction Torque Limiter Application Information

Submit Via Email: engineering@machiii.com, Fax: 859-655-8362
or Click Here to Submit Online

Please provide as much information as known and, if possible, submit a sketch of the drive system.
For Engineering Assistance: US Toll Free 866-291-0849, Outside USA +1 859-291-0849

Name: _____ Date: _____

Title: _____ Phone: _____

Company: _____ Email: _____

1. Unit is needed For: ☐ New Machinery ☐ Retrofit - to replace (Mfg., Model): _____

   If Retrofit, why is current model being replaced? _____

2. Environmental Conditions - Check ALL that apply:

☐ Indoor	☐ Indirect Wash-down	☐ Clean Room	☐ Marine
☐ Outdoor – Totally Exposed	☐ Oil Contamination	☐ Medical Mfg.	☐ Sub Sea
☐ Outdoor – Enclosed	☐ Particulate Contamination	☐ Pharmaceutical Mfg.	☐ Food Handling/Grade
☐ Direct Wash-down	☐ Condensation	☐ Explosive Substances	

   ☐ Other: _____

3. Temperature Range of the destination environment: Minimum _____ (°F / °C) Maximum _____ (°F / °C)

4. Torque Limiter Mounting:

   ☐ End of Shaft . . . . . Shaft Size _____ (in / mm) Keyway: Standard or Other: _____ (in / mm)

   ☐ Thru Shaft . . . . . Shaft Size _____ (in / mm) Keyway: Standard or Other: _____ (in / mm)

   ☐ Coupling Two Shafts . . . . . Select One: ☐ Rigid (zero angular or parallel misalignment)

   ☐ Flexible Coupling (Maximum 3° angular, 0.040" parallell offset)

   Drive Shaft Size _____ (in / mm) Keyway: Standard or Other: _____ (in / mm)

   Driven Shaft Size _____ (in / mm) Keyway: Standard or Other: _____ (in / mm)

   ☐ NEMA or IEC Frame . . . . Size/Type _____

5. Orientation of the shaft on which the torque limiter will be mounted: ☐ Horizontal ☐ Vertical

6. Pulley or Sprocket Requirements: ☐ None ☐ Pulley: Type _____

   ☐ Sprocket . . . . Circle One: Single / Double; Chain Size _____ # of Teeth _____

   ☐ V Belt Sheave: # of Grooves _____ Belt Type _____

7. Is a low backlash drive required? _____ If yes, state the maximum tolerance _____ Degrees

8. Motor Specs: HP _____ RPM _____ If not electric, please specify type here: _____

9. RPM at Torque Limiter: _____ RPM 10. Required Torque _____ (lb.in / lb.ft / Nm)

11. Space Restrictions: Maximum Length _____ (in / mm) Maximum OD _____ (in / mm)

Friction torque limiters continue to transmit torque while overloaded and slipping. To prevent overheating and failure of the device, a means of sensing and disengaging the drive is required when in overload.

1. How will overload (slippage) be detected? _____
2. Will the drive be shut down when overload is detected? Y / N
3. If yes, how? _____