



Clutch-Brake Application Information

Submit Via Email: engineering@machiii.com, Fax: 859-655-8362
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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:

- | | | | |
|----------------------------------------------------|----------------------------------------------------|-----------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Indoor | <input type="checkbox"/> Indirect Wash-down | <input type="checkbox"/> Clean Room | <input type="checkbox"/> Marine |
| <input type="checkbox"/> Outdoor – Totally Exposed | <input type="checkbox"/> Oil Contamination | <input type="checkbox"/> Medical Mfg. | <input type="checkbox"/> Sub Sea |
| <input type="checkbox"/> Outdoor – Enclosed | <input type="checkbox"/> Particulate Contamination | <input type="checkbox"/> Pharmaceutical Mfg. | <input type="checkbox"/> Food Handling/Grade |
| <input type="checkbox"/> Direct Wash-down | <input type="checkbox"/> Condensation | <input type="checkbox"/> Explosive Substances | |
| <input type="checkbox"/> Other: _____ | | | |

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

4. Clutch-Brake 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" parallel 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 clutch-brake 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 Clutch-Brake: _____

10. Clutch-Brake Configuration: Clutch-Brake will..... ☐ Start & Stop the Shaft ☐ Start & Stop the Sprocket(s)

11. Inertia Started/Stopped: _____ (lb.ft² / kg.m²)

12. Required Clutch Torque: _____ (lb.in / lb.ft / Nm) Required Brake Torque: _____ (lb.in / lb.ft / Nm)

13. Cycle Rate: _____ x Per Minute

14. Operating Air Pressure Restrictions (if any): Minimum _____ PSI Maximum _____ PSI

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