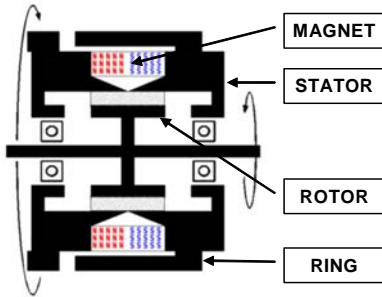


1. INTRODUCTION & PRINCIPLE

Thank you for choosing MEROBEL torque limiter for a clean, reliable and smooth torque control solution. You will obtain an excellent service if sizing has been properly done & installation instructions followed. For selection/sizing, outline dimensions & mounting positions, see our catalog or representative agent.



MEROBEL units are composed of a rotor & a stator hosting a magnet. The powder in between reacts to a permanent magnetic field generated by the magnet. Varying powder's viscosity leads to control torque transmission between rotor & stator.

Unscrew the ring to increase torque transmission

DO NOT LUBRICATE MEROBEL UNIT.
(BEARINGS ARE SELF LUBRICATED WITH GREASE).
NEVER UNSCREW OR DISMOUNT COMPLETELY THE RING.

Maximum operating temperature of torque limiter is 100°C.

DO NOT TOUCH DIRECTLY THE MEROBEL UNIT WHILE RUNNING OR JUST AFTER.
IT MAY CAUSE SEVERE INJURIES.

As temperature affects torque capability of the unit, you may have to readjust the ring to set torque once nominal temperature is reached on the unit.

This unit is designed to work in a clean and non saturated hygrometric environment.

2. LONG TERM STORAGE

MEROBEL units have to be kept for storage in a dry area, between 0° & 40°C and in their original packaging.

3. INITIAL INSTALLATION ON THE MACHINE

- Degrease fixing surface on MEROBEL unit & machine using a cloth with solvent. Slightly grease the shaft.

AVOID POLLUTING SEALS OR BEARINGS WITH SOLVENT OR LIQUID:
IT MAY REDUCE LIFE EXPECTANCY FOR YOUR TORQUE LIMITER.

- fix stator of MEROBEL unit on the machine. Make sure to have no axial run-out between both faces.

TAKE CARE OF THE LENGTH OF THE FIXING SCREWS ON THE STATOR:
IF TOO LONG, IT CAN DAMAGE THE RING (AND ALTER MINIMUM TORQUE SETTING OF THE UNIT)

- Mount MEROBEL unit and make sure not to preload axially bearings of the unit.

4. TROUBLE SHOOTING

Observation	Explanation	Solution
Min slipping torque too important	The ring is not completely screwed	Perfectly clean the air gap between ring and stator and also ring thread to ensure a perfect surface contact (steel dust can be attracted by magnetism in this area) Ensure fixing screws (too long) do not touch the ring
	Preload of the bearings	Check if the mounting on the machine has been done properly with low run-out tolerances.
	Unit is worn	Change the unit
No torque or too low torque	Torque has decrease	Reset the ring position to adjust torque (temperature issue)
	No mechanical connection	Check rotor / stator / coupling mounting
	Unit is worn	Change the unit
Too high operating temperature	Unit overloaded	Ask your Merobel Agent for technical expertise & solution