

# LOW TEMPERATURE TORQUE of GREASE

- Conforms to ASTM D1478, D4693
- Lowest Operating Temperature of -73°C
- Temperature Stability of  $\pm 0.3^{\circ}\text{C}$
- Models for One or Two Test Positions

## Also for Methods:

ASTM	D1478, D4693
FTM	791-334

The cold air chambers and the included bearing test rigs conform to the requirements of ASTM D1478 Low Temperature Torque of Ball Bearing Greases as well as ASTM D4693 Low Temperature Torque of Grease Lubricated Wheel Bearings test methods.

The top-opening, well insulated cold air chamber is mechanically refrigerated by two hermetically sealed, maintenance-free compressors, arranged in a cascade configuration. Air chamber temperature stability of  $\pm 0.3^{\circ}\text{C}$  is maintained by a digital indicating controller. The digital display shows air chamber temperature to  $0.1^{\circ}\text{C}$  resolution. Additional digital displays are provided for measuring test bearing temperature in the case of ASTM D4693.

For both test methods the torque is measured by a strain gauge and is digitally displayed.

Models can be configured with one or two independently operated electric drive systems, operating at 1 rpm, externally mounted on either side of the air chamber. A thermally insulated

drive shaft is used to reduce heat gain by the test bearing. A torque safety limit, stops the electric drive motor if the torque exceeds a preset limit, thus protecting the test rig and the drive shaft from damage (available only with option -V).



▲ Model 64-21

## ► AVAILABLE MODELS

Model No.	Number of Test Positions	Test Method	Dimensions Inches (cm)	Ship Weight lbs/cu.ft
64-10	1	ASTM D1478	35 x 36 x 36 (89 x 91 x 91)	725/43
64-11	2	ASTM D1478	48 x 36 x 36 (122 x 91 x 91)	925/58
64-20	1	ASTM D4693	35 x 36 x 36 (89 x 91 x 91)	725/43
64-21	2	One for each test ASTM D1478 & D4693	48 x 36 x 36 (122 x 91 x 91)	925/58
64-22	2	ASTM D4693	48 x 36 x 36 (122 x 91 x 91)	925/58

## ► ACCESSORIES

Part No.	Description
K	Single conversion kit, from D4693 to D1478 offers additional test flexibility by converting the bearing tester rig from one method to the other.
F	Single conversion kit, from D1478 to D4693 offers additional test flexibility by converting the bearing tester rig from one method to the other.
V	Six channel video display, data capture, and recorder allows easy determination of the peak torque. It visually plots the torque, the air chamber temperature, and temperature of the sample (for D4693 only). Data capture is adjustable as frequently as once every 250 milli-seconds. The data can be either captured on diskette, printed, or simultaneously downloaded to a Windows based PC. It replaces the digital torque and temperature displays.
SC	2 Pen strip chart recorder
SCP	Strip chart paper (10 pack)