

MTM– High Load

Introducing the MTM-HL, a modified version of the popular Mini–Traction Machine (MTM2) used for measuring the frictional properties of lubricated and unlubricated contacts under a wide range of rolling and sliding conditions.

The revised loading system can apply up to 1600N enabling 3.5GPa to be achieved using our standard 3/4" AISI 52100 steel ball and disc.

Applications:

- Measurement of EHL fluid traction properties at realistic contact pressures for traction drives
- Scuffing/ Wear
- Study of antiwear tribofilm formation and removal at high pressures
- Impact of high pressures/shear stresses on tribochemistry

Test Parameters

Load	100 to 1600N
Contact Pressure	0 to 3.5 GPa
Speeds	-4 to 4ms ⁻¹
Temperature Range	up to 150°C (below ambient with optional cooler)
Test Sample Volume	35ml (10ml with optional pot filler)

