



Soft Matter and Tribology

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Pin-on-disc Tribometer Technical Specifications



Model/make: Rtec MFT 2000

Configurations: Reciprocating drive (Ball on flat, flat on flat)

Parameters

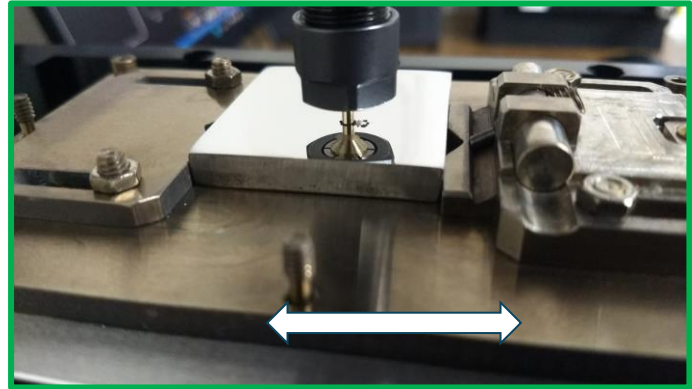
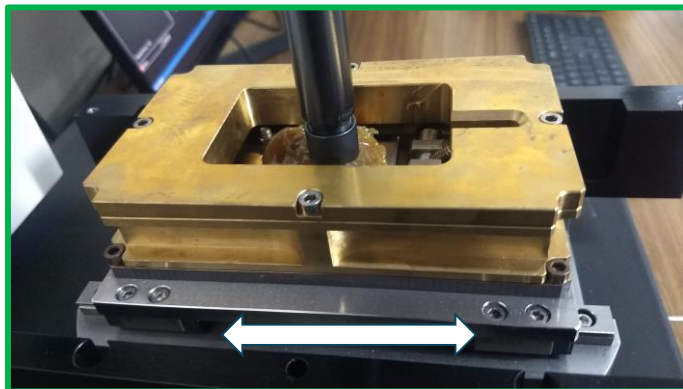
- **Load:** 100 mN to 1 N, 1 to 200 N, **Frequency:** up to 15 Hz, **Stroke:** 1 - 30 mm, **Temperature:** Ambient to 500 °C, **Lubrication:** Yes

Test specimen:

- **Disc:** $\Phi 10 - \Phi 40 \times 3-8$ mm, **Rectangular:** $10-60 \times 10-40 \times 3-8$ mm (dry), $10-50 \times 10-40 \times 3-8$ mm (lubricated)

Countersurface:

- **Balls:** $\Phi 2 - \Phi 7$ mm (load: 1-200 N), $\Phi 3$ mm (load: 100 mN to 1N), **Cylindrical pins:** $\Phi 2 - \Phi 7 \times 25$ mm (load: 1-200 N)



Model/make: Magnum Engineers

Configurations: Rotary drive (Ball on flat, flat on flat)

Parameters

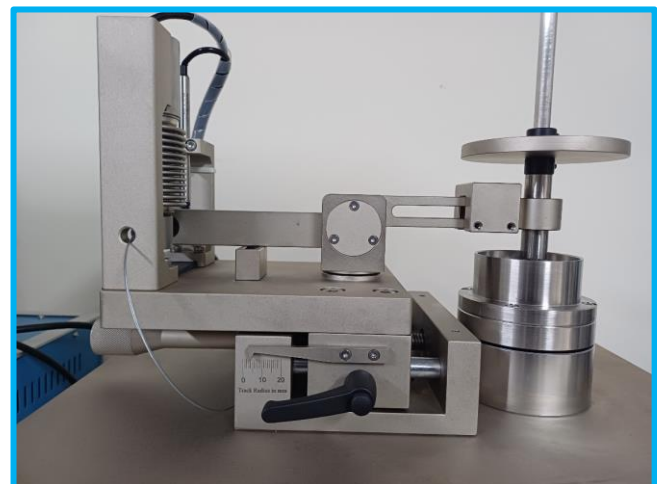
- **Load:** 1-50 N, **RPM:** up to 2000, **Track diameter:** 2-40 mm, **Temperature:** ambient, **Lubrication:** Yes

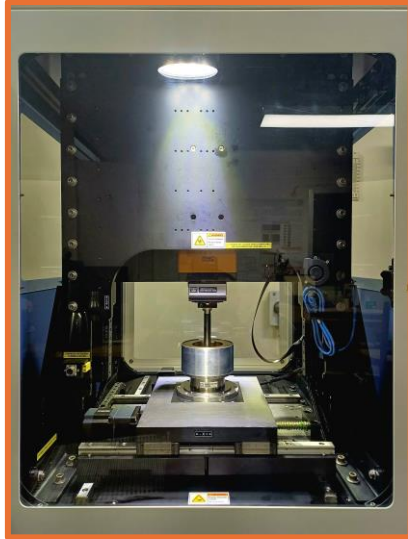
Test specimen:

- **Disc:** $\Phi 15$ to $\Phi 20 \times 3$ to 8 mm, $\Phi 65 \times 8$ mm, **Square:** 15×15 mm to 20×20 mm

Countersurface:

- **Balls:** $\Phi 2, 3, 4, 6, 8$ mm, **cylindrical pins:** $\Phi 2, 3, 4, 6, 8$ mm $\times 12$ mm





Model/make: Rtec MFT 5000

Configurations: Rotary, Reciprocating drive (Ball on flat, flat on flat), **In line profilometer with stitching**

Parameters

- **Load:** 100 mN to 1 N, 1 to 200 N, 200 N-5000 N, **RPM:** up to 5000, **Temperature:** Ambient to 1000 °C, **Lubrication:** Yes

Test specimen:

- **Dry:** Disc: $\Phi 20 - \Phi 50 \times 3$ mm, Rectangular, Square, Lubricated: Disc

Countersurface:

- **Balls:** $\Phi 2 - \Phi 7$ mm (load: 1-5000 N), $\Phi 3$ mm (load: 100 mN to 1N), **Cylindrical pins:** $\Phi 2 - \Phi 7 \times 25$ mm (load: 1-5000 N)

