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Measurement of Tribological Properties
of Dry and Lubricated Contacts

TRIBOMETER "PIN ON DISK" with Linear reciprocating moving



- ▶ Reliable
- ▶ Wide Load and Speed ranges
- ▶ Easy to Operate and Maintain
- ▶ Modern Measurement Setup
- ▶ Low Cost



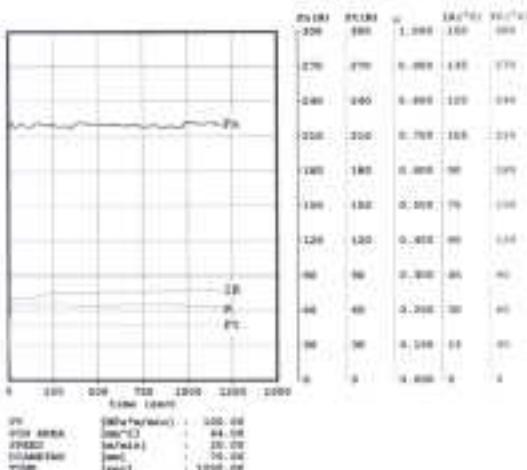
TPD '04



Tribometer "Pin on Disk" - TPD'04 with Linear

Reciprocating Movement has modern design, contemporary electronic devices and very useful Measurement Software for Windows application. The main elements of this tribology machine are made of stainless steel and Al alloys.

The test materials can be used for making Pins (it is better solution) or Disks. The second contact elements are making of different materials.



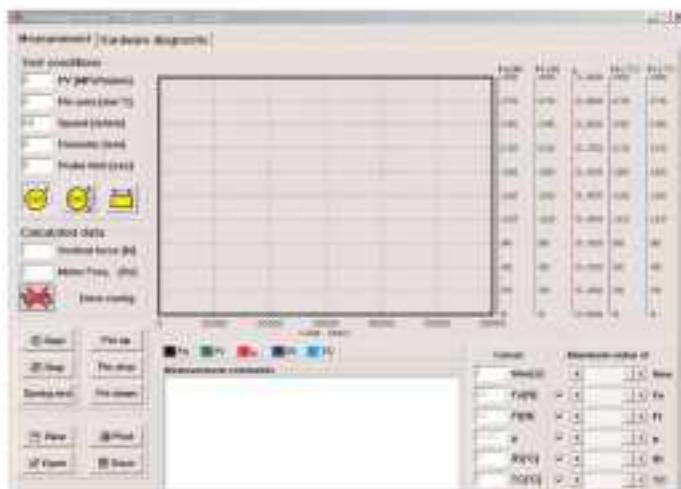
Three types of tribological test can be obtained on this machine:

- Pin on Disk test
- Linear reciprocating moving test
- Pin on Disk test in oscillation motion.

Measurement procedure corresponds ASTM D and G and ISO standard

Pin on Disk test

1. Normal Load 5 - 450 N
2. Sliding speed 1,8 - 240 m/min (0,03 - 4m/s)
3. Motor Power 750 W
4. Disk diameter: 50 - 100 mm
5. Pin diameter : 2 - 10 mm or square 2x2 - 10x10 (it can be used other dimensions)

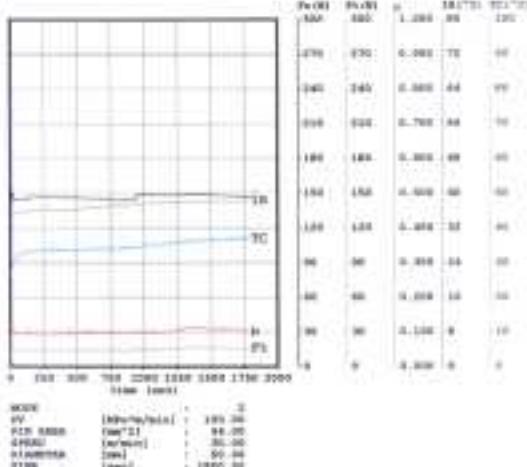


Linear Reciprocating test (dry or with grease)

6. Moving range 60 - 100 mm
7. Number of Cycles: 20 - 300 min $^{-1}$

Software (Windows applicable) gives possibility for:

1. Selection of PV (Normal load) and Sliding speed
2. Recording and printing measurement of Normal load; Friction force; Friction coefficient, contact zone temperature and Pin temperature (measurement by thermocouple).



Overall dimensions: ~60x50x130 cm

Weight: ~90 kg

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