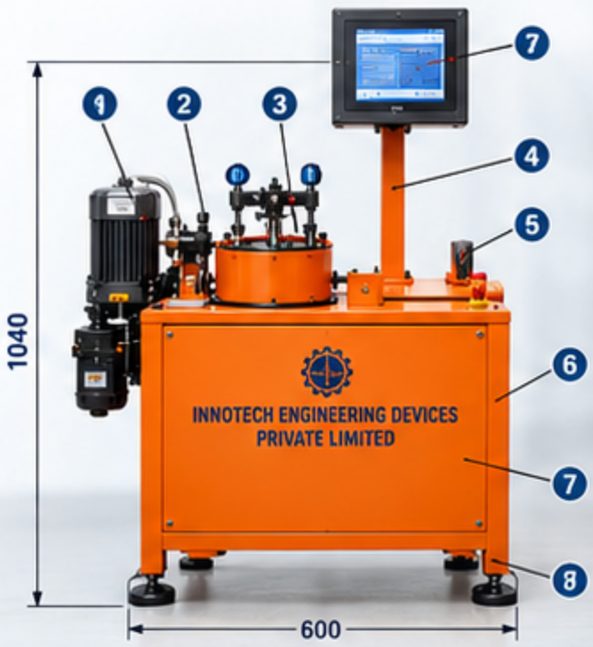
INNOTECH ENGINEERING DEVICES PRIVATE LIMITED

PRECISION | INNOVATION | RELIABILITY

COMPUTERIZED PIN – ON – DISK TRIBOMETER

ENGINEERING DRAWING



FRONT VIEW



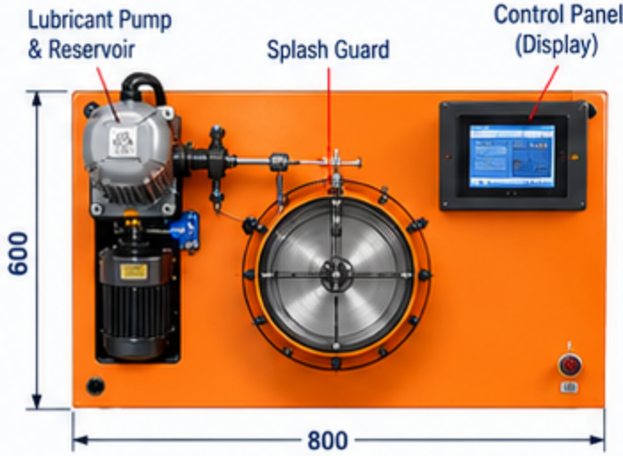
RIGHT SIDE VIEW



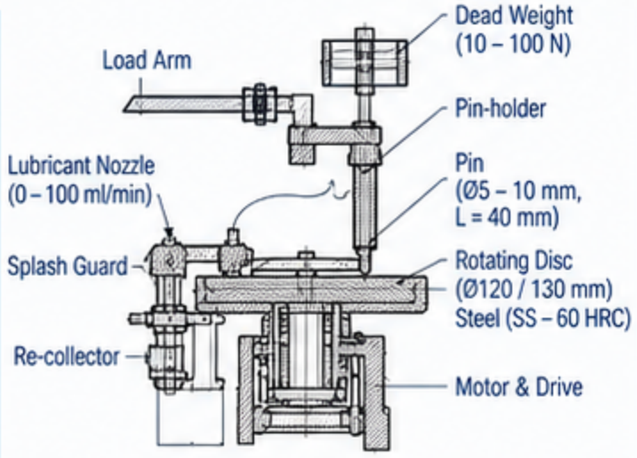
ISOMETRIC VIEW

TECHNICAL SPECIFICATIONS

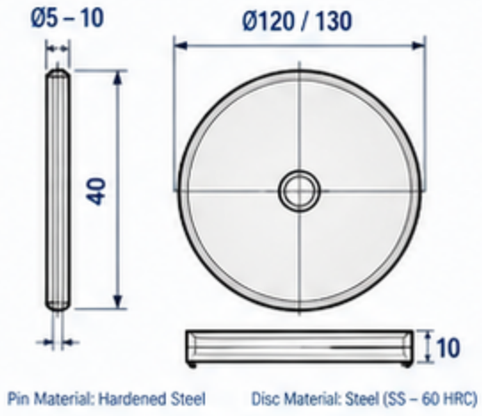
Parameter	Specification
Rotating Disc Diameter	120 / 130 mm
Disc Material / Hardness	Steel (SS – 60 HRC)
Normal Load Range	10 – 100 N
Sliding Speed (RPM)	150 – 1500 RPM
Sliding Velocity	100 – 150 m/min
Pin Diameter	5 – 10 mm
Pin Length	40 mm
Disc Orientation	Horizontal
Sample Piston	Vertical
Frictional Force Range	0 – 100 N
Wear Range	0 – 100 N
Preset Timer	999 min
Power Supply	230 V, Single Phase, 50 Hz
Lubricant Flow Rate	0 – 100 ml/min
Discharge Rate	0 – 100 ml/min
Display Parameters	Wear, Time, Speed, Frictional Force
Data Logging	Continuous recording with multiple graphs (online)
Software	Provided (graphical analysis)
Computer & Accessories	Buyer's scope



TOP VIEW



SECTION A-A (Through Disc & Pin)

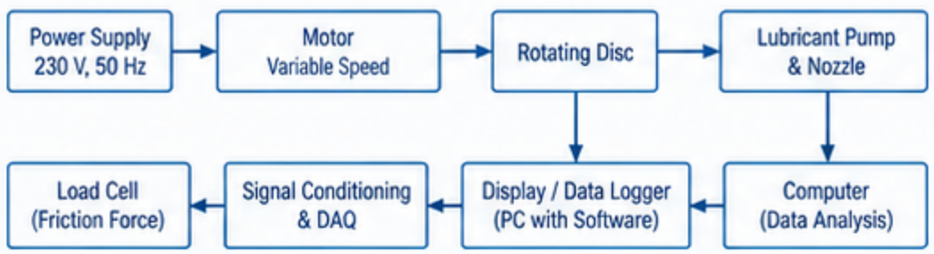


PIN & DISC DETAILS

FEATURES

- Motorized rotating disc with speed control (150–1500 RPM)
- Dead weight / lever loading system (10–100 N)
- Friction force measurement with load cell (0–100 N)
- Wear measurement (0–100 N)
- Lubricant pump, nozzle, splash guard and re-collector (adjustable, 0–100 ml/min)
- Preset timer (0–999 min)
- Digital display for wear, time, speed and frictional force
- Online multiple graphs with continuous wear rate recording
- Modern software for graphical analysis (provided)

SCHEMATIC DIAGRAM



All dimensions are in millimeters (mm) unless otherwise specified.

BILL OF MATERIALS (Main Parts)

Sl. No.	Part Name	Material / Specification	Qty.
1	Motor	230 V, 50 Hz, Single Phase	1
2	Lubricant Pump	0 – 100 ml/min (Adjustable)	1
3	Splash Guard	SS / Transparent	1
4	Load Arm	MS / Steel	1
5	Load Weight	10 – 100 N	1 set
6	Column	MS	1
7	Control Panel (Display)	PC Based Control	1
8	Loading Unit	Digital Touch / LCD	1
9	Indexing Ring	Rubber / Steel	1
10	Pin Holder	Hardened Steel	1
11	Pin	5 – 10 mm (Standard)	1 set
12	Disc	Ø120 / 130 mm (Steel – 60 HRC)	1
13	Lubricant System	Pump, Nozzle, Re-collector	1 set

INNOTECH ENGINEERING DEVICES PRIVATE LIMITED

PIN – ON – DISK TRIBOMETER
ENGINEERING DRAWING

DRAWING NO.	POD-001		
SCALE	1:5 (Unless Specified)	UNITS	mm
DRAWIe	--	SHEET	1 OF 1
DRAWN BY	--	DATE	2025-06-02
CHECKED BY	--	APPROVED BY	--