

Pin-on-disc Tribometer

Specifications

Tribometer TR20LE -PHM400 - CHM600
Load Range: Up to 200 N
Rotational Speed: 200 to 2000 rpm
Frictional Force Measurement: 0 to 200 N
Compound Wear Measurement: 0 to 1200 μm



Metallurgical Microscope

Specifications

OLYMBUS BX53M
Vertical stage movement: 25 mm
Optical system: UIS2
Min adjustment gradations 1 μm
Servo stabilizer 7.5 kVA
Illuminator 12 V, 100 W halogen bulb



Salt Spray (fog) Tester - 250 lit

Specifications

Presto KORROX-III corrosion chamber
Construction: FRP-Fibre Reinforced Polymer
Temp. Range: Ambient to 45°C
Temperature Control: Solid State Digital Programmable Zero Corrosion PT 100 Sensor
Size: 800 x 500 x 550mm



Major Equipments for Consultancy and R&D



Wire EDM Machine

Specifications

Sparkonix ZNC 50A

X/Y/Z/ Axis Travel : 300 mm/
200mm/20mm
Max. Job Height : 275 mm
Max. Job Weight : 300 Kg
Max. Electrode Weight: 70 Kg



Planetary Ball Mill

Specifications

NTS 0.4L

Jars: Stainless Steel,
Tungsten Carbide
250 ml
Balls: Stainless Steel,
Tungsten Carbide
 ϕ 5/7/10/12/15



Programmable Tubular Furnace

Specifications

Max. Temperature: 1450°C
Working Temperature: 1300°C-1350°C
SiC heating elements
Zirconia Fiber Board
PLC HMI controlled

Surface Roughness Tester

Specifications

Mitutoyo Surftest SJ-210

Measuring range: X axis - 17.55 mm
Evaluation parameters: Ra, Rz, Rq
Filters: Gaussian, 2CR75, PC75



Welding Lab

Equipment Available:

MMA/SMAW unit -3
OXY-Acetylene gas welding unit - 1
Gas cutting unit - 1
TIG/GTAW unit - 2
MIG/MAG/GMAW unit - 2
PPE unit - 1
Grinding unit -1



CNC Lathe Machine

Specifications

LMW Smarturn CNC Lathe

Swing Over bed: 480 mm
Chuck dia. Max 169 mm
Max. Turning Diameter 200 mm
Max. Turning Length 262 mm



CNC Milling Machine

Specifications

LMW JV55 CNC Centre

Table Size: 900mm x 430mm
Table Loading Capacity: 400kg
Spindle speed: 8000 rpm
No. of tools: ATC 20 (nos)
Axis Travel: 575 x 410 x 460
X/Y/Z (mm)

