

Physical Metallurgical lab



TRINOCULAR METALLURGICAL MICROSCOPE



BELT GRINDER



CUTTING MACHINE



MOUNTING PRESS



LIECA MICROSCOPE



DUAL DISC POLISHER



AUTOMATIC MICROHARDNESS TEST IMAGE ANALYSIS SYST+EM



HIGH PRECISION LOW SPEED DIAMOND SAW



ELECTRO POLISHING ETCHING

Corrosion Lab



VACCUM PUMP



ELECROCHEMICAL WORK STATION



PERISTALTIC PUMP



WATER BATH



HIGH TEMPERATURE OXIDATION FURNACE (1350degree)



VACCUM OVEN



SALT SPRAY CHAMBER



DIGITAL TUBE FURNACE



OXIDATION FURNACE



REGULATED DC POWER SUPPLY

Material Characterization LAB



FOCUS X-RAY DIFFRACTOMETER MODEL: BRUKER -D8 DISCOVER



THIN FILM ATTACHMENT

UNIVERSAL TESTING MACHINE



MODEL ZWICK Z 100

- Maximum Testing Force 100 KN
- Temperature of test room upto 1200°c
- Initial Measurement length of extensometer 11-50 mm



Field Emission Scannig Electron Microscope





Phase Transformation & Heat Treatment Lab



High Temp Microwave Furnace



High Temp Sintering Furnace



Direct Heating Electrical Furnace



Eletrically Heated Salt Furnace



Muffle Furnace



JOMINY END QUENCH HARDENABILITY TESTER



Tubular Furnace



Eletric Oven

Non Destructive & Testing Lab



Da Vinci Alpha

Test Range : 2.5 mm

to 10 m

Velocity: 1000 m/s

to

15000 m/s



Einstein - II DGS

Test Range : 10 mm

to 5 m

Velocity: 1000 m/s

to

9999m/s



Da Vinci Delta

Test Range : 2.5 mm

to

10 m

Velocity: 1000 m/s

to

15000 m/s



MIG Welding

Material Testing lab











Single Level Type Creep **Testing System**

- 3 zone Furnace
- Capacity -50KN
- Temperature-1050
- **Automatic Controler**
- 3 phase AC, 230v

Rockwell Hardness Tester Impact Testing Machine

Brinell Hardness Tester Vickers Hardness Tester

Material Testing lab

HIGH CYCLE FATIGUE TESTING SYSTEM



Model GB5-600

Force Three models including 50 kN

(11,240 lbf), 100 kN

(22,500lbf),300kN(67,400 lbf)

Temperature Up to 900 C (1,650 F)

Higher temperature version available (GB5-700)



LOW CYCLE FATIGUE TESTING SYSTEM



- Up to ±100 kN (22,500 lbf) axial force capacity
- Patented Dynacell load cell features compensation for inertial loads caused by heavy grips and fixtures
- Standard or extra-height frame options Wide range of grips, fixtures, and accessories.

