

# MANUFACTURING RESEARCH LAB

Name of Lab In charge I/II: Dr. Amrinder Singh Pannu/ Er. Gulraj Singh

Name of Lab Technician: Sh. Puran Singh

Name of Lab Attendant: Sh. Shingara Singh

List of Major Equipments:

1. Air jet erosion tester
2. Pin On Disk setup
3. Cryogenic ball milling system
4. Melt flow index tester
5. Metallurgical microscope
6. Tool Maker's microscope
7. Ultimaker 3D printer
8. Universal testing machine
9. Vacuum Oven
10. Vertical milling machine
11. Single screw extruder
12. Vapor Smoothing system
13. Abrasive Cut off machine
14. Shieve Shaker
15. Vibratory Finishing machine
16. Vacuum oven with pump
17. Metallurgical sample saw
18. Double disk polishing machine
19. Micro Vickers hardness tester
20. Ultrasonic cleaning tank
21. U-print 3D printer
22. Twin screw extruder
23. Differential scanning calorimetry (DSC)

## 24. Fourier transform infrared spectrometer (FTIR)

Floor Area: 40×50 sq. foot



**Manufacturing Research Lab**



**Air Jet Erosion Tester**



**Pin-on-disk testing unit**



**U-Print 3D printer**



**Ultimaker 3D printer**