

List of Equipment

Sl. No.	Name of the Measuring and Testing Equipment	Machine ID	Make/Model/ Serial No.	Range/Capacity	Reference photographs
1.	Profile Projector (For thread laps)	UTL/PJT/010	DYNASCAN/PH300E/ 0313057	Range: X- Axis = 200 mm, Y' Axis=100 mm / 360°	
2.	Spectrometer (For chemical composition testing)	UTL/SST-007	GNR/Solaris CCD Pius /12006SCPO1	Range: 0.000001 - 100% (Element: C%, Si%, Mn%, S%, P%, Cr%, Mo%, B%, Ni%, Cu%, Al%, Sn%, Ti%, V%, Zr%, Zn%, W%, Te%, Sb%, Pb%, Nb%, Co%, Ca% % As%)	
3.	Digital Rockwell Hardness Tester	UTL/RHT-011	FIE/RASNE-1/ 07- 2013-2884	Range: 20 - 70 HRC Range: 20 - 100 HRBW	
4.	Micro Vickers Hardness Tester (For Surface Hardness HV0.3)	UTL/MHT-003	JPTE/HXD- 1000TMC/ 130501	Load Range: HV0.1, HV0.2, HV0.3, HV0.5 & HV1	
5.	Vickers Hardness Tester	UTL/VHT-004	FIE/VM-50/ 05/2013-1393	Load Range: HV5, HV10 & HV30	

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6.	Electronic or dial torque wrench	-	/TL-5B/191561	Range: 200 to 500 Nm	
7.	Universal/Tensile Testing Machine	UTL/UTM-001	JINON/WAW-1000E/131040	Range: up to 1000 KN	
8.	Universal/Tensile Testing Machine	UTL/UTM-002	JINON /WAW-600E/1112407	Range: up to 600 KN	
10.	Digital Impact testing Machine		jinon Precision /JBDW-150/141058	Range: 150 Joules	
11.	Metallurgical Microscope (For measurement of decarburization)	UTL/MMS-006	DEWINTER/DG Victory/D0303136	Magnification Range: 5X, 10X, 20X & 50X,100X	

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12.	MPI (Magni Flux for crack detection)	MPI-01	Magkraft / MK-40-C-400-S/3347103	Range: 0 – 1000A/75mV	
13.	Digital Vernier Caliper	DFL/DVC-01	Insize/1112-200/2205182077	Range: 0 - 200 mm	
14	Surface roughness testing machine	DFL/SRT/01	Mitutoyo/SJ-210/610991910	Z Axis Travel Range 160 µm	
15.	Digital Micrometer	UT/DM/01	ES/NSCING/242854	Range: 0 - 25 mm	
16.	Micrometer	DFL/MM/02	INSIZE/161254783	Range: 25 - 50 mm	
17.	Thread Pitch Gauge	PTG-01	Matrix/--/--	Range: 0.25 – 6 mm	

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18.	Ring Gauge (GO, NO-GO gauges)	--	DIG/N/01, DIG/N/01, etc.	Range: M5 – M64	
19.	Plug Gauge (GO, NO-GO gauges)	--	DFL/M/01, DFL/M/02, Etc.	Range: M5 – M64	
20.	Plunger Dial Gauge	DFL/PDG/01	MITUTOYO/PXL391	Range: 0 - 1mm	
21.	Electronic Weighing Balance	DFL/WB/01	Phonix/NLB-2003/M504956	Range: 0 - 200 gm	
22.	Coating Thickness Tester (Elcometer)		Yuyutsu/--/15390	Range: 0 - 1250 µm	
23.	Torque Wrench	DFL/TW/05 DFL/TW07	Tohnichi/DB200N Britool/EO24767	Range: 0-200-Nm, 140-500Nm	

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24.	Torque Testing Machine		NCW-8000SE/24072902	Range: - 0- 1000N & 0-8000NM	
25.	Temperature Indicator with sensor (Automatic Temperature Control Cooling Chamber)	DFL/DTC-01	Universal/UTF-F1/1710	Range: 0°C to 1200°C	
26.	Salt Spray Chamber	DFL/SSM-01	Maship IndustriesNSS./13121	As per Inst.	
