

LIST OF MACHINES IN PRODUCTION SECTION

SR. NO.	DESCRIPTION	MAKE MODEL	Qty	SPECIFICATIONS
01	CNC 5 AXIS MILL TURN	HERMLE C62 MT	01	X 1200 Y 1300 Z 900 MM MAX MILLING TABLE LOAD 2500 KG. MAX TURNING TABLE LOAD 1500KG SWIVELING RANGE +/- 130 DEG TABLE CLEARANCE 1100 MM COLLISION CIRCLE DIA 1400 MM MAX.
02	CNC 5 AXIS MACHINING CENTRE	HERMLE C32 MT	01	X 650 Y 650 Z 500 LATEST CONTROLLER: HEIDENHAIN ITNC 640. MAX VERTICLE TABLE CLEARANCE 600/635 MM SWIVELING RANGE: +/- 130 DEG MAX TABLE LOAD 1000 KG
		HERMLE B-300 U	01	X 800 Y 600 Z500 MM RPM 15000 HEINDENHAIN TNC 415. NC CONTROL SWIVEL +120°-30° ROTARY TABLE 280 MM
		HAAS UMC-500 SS	01	X 610 Y 406 Z 406 MM RPM 15000 HAAS CONTROL SWIVEL +120°-35° ROTARY TABLE 400 MM
03	CNC MACHINING CENTRE	DECKEL- MAHO DMC 100V	01	X 1000, Y 800, Z 550 MM RPM 15000 FEED 10000 MAX. LOAD 1000 KG HEIDENHAIN TNC – 426
		DECKEL- MAHO DMC 70V	01	X 700, Y 550, Z 500 MM RPM 15000 MAX LOAD 800 KG, HEIDENHAIN TNC – 426 PB
		DECKEL- MAHO DMC 70V hi-dyn	01	X 700, Y 550, Z 500 MM RPM 18000 MAX LOAD 800 KG HEIDENHAIN TNC – 530
		MAKINO – V 33	01	X 600, Y 400, Z 350 MM RPM 20000 MAX LOAD 300KG FANUC CONTROL 16i
		HARTFORD HB2150 SG	01	Working Surface = X 2100, Y1500, Z 800 MAX. TABLE LOAD = 7000 KG SPEED 40 ~ 4000 RPM FEED – 10 M / MIN FANUC CONTROL 18i
		HASS VM6	01	X 1626, Y 813, Z 762 MM RPM 12000 FEED 10000 MAX. LOAD 1814 KG HASS CONTROL
		HASS VF2SS	03	X = 762 MM, Y = 406, Z 508 MM MAX SPEED 12000 RPM HAAS CONTROL
		HASS – TM 1	01	X 762 MM. Y 305 MM, Z 406MM MAX. SPEED 0 – 4000 RPM HAAS CONTROL
		HASS – VF- 1D	02	X 508 MM. Y 406 MM, Z 508 MM MAX. SPEED 0 – 15000 RPM HAAS CONTROL TABLE SIZE 660 X 356 MM
04	CNC MILLING	MIKRON – UME 710	01	X 710, Y 630, Z 500 MM RPM 5000 MAX LOAD 500 KG HEIDENHAIN TNC - 415 B
		MIKRON – WF 52D	01	X 710, Y 560, Z 500 MM RPM 5000 MAX LOAD 1000 KG HEIDENHAIN TNC – 415
		ACE MCV 350	03	X 400 Y 350 Z 480 MM MAX. SPEED 0-6000 RPM TABLE SIZE 650 * 350 MM POSITIONING ACCURACY 0.01
05	CNC LATHE	HONOR VL 100 C	01	X 1100 MM, Z 700, FANUC CONTROL MAX SPEED 1500 RPM
		GILDEMEISTER CTX 400 E	01	X 250 Z 635 HEIDENHAIN MAX. SPEED 5000 RPM
		HAAS – SL-20 T	02	Dia. 262 MM RPM 5000 MAX. CUTTING LENGTH 508 MM HASS CONTROL
06	HIGH PRECISION CNC LATHE CENTRE	SCHAUBLIN CCN 125	01	MAX TURNING DIA 125 MM MAX TURNING LENGTH 265 MM SPINDLE SPEED 5000 RPM X 190 Z 370 MM
07	CNC WIRE CUT	CHARMILLES ROBOFIL CL400 SP	01	X 1450, Y 900, U800 , V550, Z 510 MM MAX LOAD 3000 KG , INTEGRATED TAPER COLLISION
		CHARMILLES ROBOFIL CL440CCS	01	X 550, Y 350, U550 , V350, Z 400 MM MAX LOAD 1500 KG, TAPER ± 30 DEG.
		CHARMILLES ROBOFIL 300	01	X 400, Y 250, U 400, V 250, Z 400 MM MAX LOAD 500 KG, TAPER ± 30 DEG.
		CHARMILLES ROBOFIL 510	01	X 700, Y 400, U 400, V 400, Z 400 MM MAX LOAD 1000 KG, MAX. TAPER ± 30 DEG.
		ELECTRONIC ULTRACUT S1	01	X 300, Y 400, U 80, V 80, Z 250 MM MAX LOAD 400 KG, MAX. TAPER ± 30 DEG.
		CHARMILLES ROBOFIL 290	01	X 300 Y 250 U 250 V 125 Z 200 MM MAX LOAD 1000 KG MAX TAPER 30 DRG
		ELECTRONICA ULTIMA 2S	01	X 600 Y 400 Z 350 MM MAX. LOAD 1000 KG MX TAPER +/- 30 DEG
08	CNC SPARK EROSION	CHARMILLES ROBOFORM 20	01	X 300, Y 250, Z 250 MM, C 360°, MAX. LOAD – 200 KG
		CHARMILLES ROBOFORM 40	01	X 500 Y 350 Z 350 MM C 360 DEG MAX LOAD 1000 KG MAX. EL LOAD 100 KG S
		AGIETRON ADVANCE	01	X 500, Y 350, Z 350 MM, C 360°, MAX. LOAD - 1818KG.
		MITSUBISHI EA 30	01	X 700 Y 500 Z 350 MM C 360 DRG MAX LOAD 2000 KG

09	HIGH SPEED EDM DRILLING	CHARMILLES ROBODRILL SH2	01	X 350, Y 250, Z100 MM
10	JIG BORING	HAUSER B-3 DR	01	X 400, Y 250, Z 450, MAX. LOAD – 300 KG
11	CNC JIG GRINDING	HAUSER H45	01	X 700 Y 5000 MM MAX. WORKPIECE WT. 500 KG TAPER GRINDING MAX. 90 DEG
12	UNIVERSAL MILLING	MIKRON WF 3 SA	01	X 500, Y 500, Z 380 MM
		UNION MILLING	01	X 1220, Y 450, Z 410 MM
		HMT M1 TR	01	X 600, Y 250, Z 300 MM
		BPW VF 3.5	01	X 600, Y 250, Z 250 MM
		BFW UF 2, 3.5	01	X 700, Y 300, Z 300 MM
13	CNC TURN MILL CENTRE	HAAS ST 20 SSY	01	X 254 Z 521 Y+/- 50.8 MM SPINDLE SPEED 5000 RPM
		ELB OPTIMAL 8550 ND	01	GRINDING AREA 800 X 550 X 400 MM MAX LOAD 850 KG.
		ELB OPTIMAL 4250 ND	01	GRINDING AREA 400 X 250 X 300 MM MAX LOAD 400 KG.
		KENT WM2 715 Series	01	TABLE SIZE = 1500 X 700 MM KENT CONTROL
		JUNG JF 520	01	WORKING AREA 600X 200 MM MAX LOAD 100 KG.
14	PRECISION SURFACE GRINDER	KENT WM 263 SERIES	01	WORKING AREA 650X300 MM MAX LOAD 420 KG SPINDLE SPEED 1450 RPM
		BLOHM PLANOMAT 408 HP	01	GRINDING LENGTH 400 * 800 MM TABLE LOAD 100 KG FEED RATE 40,000 MM/MIN Y AXIS 550 MM
		STUDDER S 33	01	φ 350 MM X 650 MM
15	CNC CYLINDRICAL GRINDER	STUDDER S 33	01	φ 350 MM X 650 MM
		SCHLEIF SA 5/2 U x 1000	01	φ 275 MM X 1000 MM
16	CYLINDRICAL GRINDER	SCHLEIF SA 5/2 U x 1000	01	φ 275 MM X 1000 MM
		SCHLEIF SA 5/2 U x 630	01	φ 275 MM X 630 MM
17	CENTRE LATHE	WEILER COMMODER	01	SWING DIA 185 MM X 1000 MM
		WEILER CONDOR	01	SWING DIA 170 MM X 750 MM
		GEEDEE WEILER	01	SWING DIA 150 MM X 550 MM
		HMT NL 22	02	SWING DIA 120 MM X 400 MM
18	ECCENTRIC PRESS	ZEULENPODA 1250 KN	01	PRESS CAP. 125 T. SHUT HT 483 MM
19	HYDRAULIC PRESS	DUNKES TYPE HZS 63	01	PRESS CAP. 63 T. SHUT HT 250 MM
20	INJECTION MOULDING M/C	L & T DEMAG DL 250 – 1340 NC4K	01	1250 KN, MAX. SHOT WT. 575 GMS
21	INJECTION MOULDING M/C	BATTENFELD BA 1000/500 T	01	1000 KN, MAX. SHOT WT. 160.6 GM
22	MECH. PRESS MACHINE	NARENDRA	01	PRESS CAP. 300 T. SHUT HT 550 MM

LIST OF HEAT TREATMENT EQUIPMENTS

SR. NO.	DESCRIPTION	MAKE MODEL	Qty	SPECIFICATIONS
1	FLUIDISED BED FURNACE	HD 1050 45/75 FLUIDTHERM	01	DIA 450 MM, DEPTH-750 MM, TEMP. 1050°C, CAPACITY – 125 KG
2	FLUIDISED BED FURNACE	HD 650 45/75 FLUIDTHERM	01	DIA 450 MM, DEPTH-750 MM, PRE-HEATING TEMP. 650°C, CAPACITY – 125 KG
3	SINGLE CHAMBER FURNACE	NOLZEN (GERMANY)	01	CHAMBER SIZE 600 X 250 X 260 TEMP. 1200°C MAX 1050°C
4	DOUBLE CHAMBER FURNACE	NOLZEN (GERMANY)	01	LOWER CHAMBER 730 X W 400 X H 300 TEMP. 1200°C ^L UPPER CHAMBER 730X W 400 X H 300 TEMP. 1400°C ^L
5	HARDENESS TESTER	BRINAL & VICKERS	01	Brinel / Vickers
6	HARDENESS TESTER	WALL PORT	01	Rockwell
7	CARBON ANALYSOR	ELTRA METALYT – 90	01	RANGE 0.5 ACCURACY 0.002 MM

LIST OF QUALITY CONTROL EQUIPMENTS

SR. NO.	DESCRIPTION	MAKE MODEL	Qty	SPECIFICATIONS
1	CNC CO-ORDINATE MEASURING MACHINE	CARL – ZEISS PRISMO 5, VAST	01	RANGE 700 X 900 X 500 MM UNCERTAINTY 1.5+L/350 μ m
		Hexagaon Metrology Global Performance 05x07x05	01	RANGE 500 X 700 X 500 MPEE 1.9 + L/333 μ m MPEE 2.0 μ m
2	LINEAR HEIGHT MASTER (ELECTRONIC)	MITUTOYO	01	RANGE 0 - 600 MM RESOLUTION 0.0005 MM
3	TOOL MAKER'S MICROSCOPE	CARL – ZEISS (10 X, 30 X)	01	RANGE 150 X 50 X 150 MM. RESOLUTION 0.001 MM
4	PROFILE PROJECTOR	BATTY (10X, 20X, 50X)	01	150 X 50 RESOLUTION 0.002 MM
5	SURFACE FINISH TESTER	HOMMEL	01	LC 0.02 μ
6	PRECISION COMPARATOR STAND	SYLVAC	01	RANGE 200 X 300 200 MM
7	SLIP GAUGES (CARBIDE)	KOLB + BAUMAN	01	GRADE 'O'

Apart from above, other instruments for calibration like Caliper checker, Mucchecker & Master Gauges, Optical Flat etc. are also available

LIST OF 3D PRINTING MACHINE

SR. NO.	DESCRIPTION	MAKE MODEL	Qty	SPECIFICATIONS
01	3D MANUFACTURING (METAL)	EOSINT M-280 DMLS	01	BUILDING VOLUME 250* 250 * 300 MM 400 W FIBER OPTIC LASER
02	3D MANUFACTURING (PLASTIC)	P-396 SLS	01	BUILDING VOLUME 340 *340 * 600 MM
03	3D MANUFACTURING (DLP)	Figure 4 Standalone	01	BUILDING VOLUME 124.8 *70.2 * 196 MM
04	3 D SCANNER	STEINBICHLER COMET L3D	01	CAMERA RESOLUTION 2448*2050