

## LIST OF MACHINES IN PRODUCTION SECTION

SR. NO.	DESCRIPTION	MAKE MODEL	Qty	SPECIFICATIONS
1	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 VF2SS	03	X = 762 MM, Y = 406, Z 508 MM MAX SPEED 12000 RPM HAAS CONTROL
2	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
		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
3	CNC LATHES	HONOR VL 100 C	1	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 HAAS CONTROL
4	CNC WIRE CUT	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.
5	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 400, Z 450 MM, C 360°, MAX LOAD – 1000 KG. MAX EL. LOAD – 100 KG
		AGIETRON ADVANCE	01	X 500, Y 350, Z 350 MM, C 360°, MAX. LOAD - 1818KG.
6	HIGH SPEED EDM DRILLING	CHARMILLES ROBODRILL SH2	01	X 350, Y 250, Z100 MM
7	JIG BORING	HAUSER B-3 DR	01	X 400, Y 250, Z 450, MAX. LOAD – 300 KG
8	UNIVERSAL MILLING	MIKRON WF 3 SA	01	X 500, Y 500, Z 380 MM
		MIKRON WF 2 SA	01	X 450, Y 250, Z 340 MM
9	PRECISION SURFACE GRINDER	ELB OPTIMAL 8550 ND	01	GRINDING AREA 800 X 550 X 400MM MAX LOAD 850 KG.
		ELB OPTIMAL 4250 ND	01	GRINDING AREA 400 X 250 X 300 MM MAX LOAD 400 KG.
		KENT WM2 71S Series	01	TABLE SIZE = 1500 X 700 MM KENT CONTROL
		JUNG JF 520	01	WORKING AREA 600X 200MM MAX LOAD 100 KG.
		KENT WM2 63 SERIES	1	WORKING AREA 650X300 MM MAX LOAD 420 KG SPINDLE SPEED 1450 RPM
10	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
11	CENTRE LATHE	WEILER COMMODER	01	SWING DIA 185 MM X 1000 MM
		WEILER CONDOR	01	SWING DIA 170 MM X 750 MM
12	ECCENTRIC PRESS	ZEULENPODA 1250 KN	01	PRESS CAP. 125 T. SHUT HT 483 MM
13	HYDRAULIC PRESS	DUNKES TYPE HZS 63	01	PRESS CAP. 63 T. SHUT HT 250 MM
14	INJECTION MOULDING M/C	L & T DEMAG DL 250 – 1340 NC4K	01	1250 KN, MAX. SHOT WT. 575 GMS
15	INJECTION MOULDING M/C	BATTENFELD BA 1000/500 T	01	1000 KN, MAX. SHOT WT. 160.6 GM

## LIST OF HEAT TREATMENT EQUIPMENTS

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>MAKE MODEL</b>	<b>Qty</b>	<b>SPECIFICATIONS</b>
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 <sup>L</sup> UPPER CHAMBER 730X W 400 X H 300 TEMP. 1400°C <sup>L</sup>
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

<b>SR. NO.</b>	<b>DESCRIPTION</b>	<b>MAKE MODEL</b>	<b>Qty</b>	<b>SPECIFICATIONS</b>
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**