



Plant	Assembly ressources	number of employees
HQ	Production Methods development	3
HQ	Welding & Mounting	3



Plant	Machine & Equipment	Working Dimensions	Other features	Quantity
1	Hydraulic Round Bending Machine (HRBM50)			1
1	Forming machine			1
1	Stainless steel wire bending machine			1
11	AMADA RGM2 1003	3000 mm	100 tons	1
13	AMADA RG-80	2000 mm		1
17	CINTREUSES AUTOMATIQUES		CN 6 axes diametre 60 mm	2
17	CINTREUSES MANUELLES			2
17	PLIEUSE CN		4 metres / 320 Tonnes	6
17	ROULEUSE TUBES		diametres 139 mm	1
HQ	Cylinder			1
21	AMADA - CNC Bending 3 axis	3 000 x 2 000 mm		4
21	AMADA - CNC Bending 3 axis	2 000 x 1 000 mm		2



Plant	Machine type	Brand	Working Dimensions	Quantity
20	V1200 Vacuum casting machine	FPS	1 200 x 1 000 x 1 000 mm	5
20	V650 Vacuum casting machine	FPS	650 x 600 x 600 mm	8
21	Die-casting machine	LK	88 Tons	4
21	Die-casting machine	LK	150 Tons	4
21	Die-casting machine	LK	220 Tons	6
21	Die-casting machine	LK	280 Tons	3
21	Die-casting machine	LK	350 Tons	2
22	Casting machine	NAGAZAWA TNM 32 AX		1



Plant	Axis	Machine & Equipment	Working Dimensions	RPM Spindle speed	Quantity
1	Lathe Machine 3 Axis (X,Z,C)		Ø500		1
1	Lathe Machine 3 Axis (X,Z,C)		Ø500		4
1	Lathe Machine 3 Axis (X,Z,C)		Ø1000		4
2	Lathe Machine 2 Axis (X,Y)	DMG-MORI CL 1500T	Ø245 x 570	6000	1
2	Lathe Machine 2 Axis (X,Y)	TAKISAWA TCN2600L6	Ø235 x 495	3200	1
2	Lathe Machine 2 Axis (X,Y)	MAZAK QUICK TURN 6T	Ø80 x 200	7000	1
2	Lathe Machine 2 Axis (X,Y)	MIYANO BNC-42C7	Ø135 x 235	5000	1
2	Lathe Machine 2 Axis (X,Y)	CITIZEN CINCOM B12	Ø12 x 135	6000	1
2	Lathe Machine 2 Axis (X,Y)	MORI SEIKI NL2000Y	Ø230x 430	5000	1
2	Lathe Machine 2 Axis (X,Y)	WASINO LE-19K	Ø230x 430	1500	1
2	Lathe Machine 3 Axis (X,Z,C)	MORI SEIKI SL200MC	Ø260 x 700 Axis Y: 100 Axis C: 360°	4000	1
2	Lathe Machine 3 Axis (X,Z,C)	MORI SEIKI NLX2500/700	Ø260 x 590 Y : 100 C : 360°	Main spindle: 4000; Milling axis: 10 000	1
4	Lathe Machine	OKUMA			1
4	Lathe Machine	OKUMA			1
4	Lathe Machine	OKUMA			1
4	Lathe Machine	FUJI SEIKI			1
5	ENVIRONMENT TEMPERATURE CONTROLLED Lathe Machine	OKUMA GENOS L250 II-e	Ø290 x 160 mm	4 500 tr/min	1
5	ENVIRONMENT TEMPERATURE CONTROLLED Lathe Machine	OKUMA GENOS L400	Ø310 x 500 mm	3 000 tr/min	1
6	CNC Turning machine	GURUTZPE	Ø650, length 3 500 mm		1
6	CNC Turning machine	TOS TRENS	Ø710, length 4 000 mm		1
8	Lathe machine	Tuda Myler 860G			1
11	CNC Turning machine	HISON TC-25	Ø350x500		1
11	CNC Turning machine	MAZAK NUXUS350-II	Ø450x1500		1
11	CNC Turning machine	TAKIZAWA TX-20	Ø250x300		1
11	CNC Turning machine	MORISEIKI CL-200A	Ø250x30		1
11	CNC Turning machine	FANUC Robocut	500x400x300		1
11	CNC Turning machine	ENSHU	600x300		1
11	CNC Turning machine	MAZAK	400x1500		1
13	Turning Machine	TUDA TIPL-4	Ø400x600		1
13	Turning Machine	WASINO LR-55A	Ø300x500		1
13	Turning Machine	MORISEIKI HA-850	Ø150x250		1
13	Turning Machine	TAKISAWA TE-1500	Ø1200x2000		1
13	Turning Machine	TUDA	Ø800x1500		1
13	CNC Turning machine	TAKAMAZ X-15	Ø150x300		1
13	CNC Turning machine	OKUMA & HOWA ACSP-2	Ø200x200		1
13	CNC Turning machine	TSUGAMI TMA-6	Ø300x600		1



Plant	Axis	Machine & Equipment	Working Dimensions	RPM Spindle speed	Quantity
13	CNC Turning machine	IKEGAI TUR-25	Ø300x600		2
13	CNC Turning machine	BND-20	Ø150x250		1
13	CNC Turning machine	TAKAMATSU EX-15	Ø150x400		1
13	CNC Turning machine	MIYANO 8IN	Ø205x250		1
13	CNC Turning machine	MORISEIKI DL150-236	Ø150x250		1
13	CNC Turning machine	GFIR TF8	Ø150x250		1
13	CNC Turning machine	DOOSAN 2100MB	Ø250x350		1
13	CNC Turning machine	DOOSAN 2100B	Ø250x351		1
13	CNC Turning machine	CITIZEN A-20	Ø25		2
13	CNC Turning machine	OKUMA GENOS L250 II-e	Ø200x250		2
15	Lathe Machine	MORISEKI SL4 T10	Ø430x650		1
15	Lathe Machine	MORISEKI SL15 T10	Ø220x500		1
15	Lathe Machine	MORISEKI SL15 OT (SUP)	Ø300x350		1
15	Lathe Machine	MORISEKI AL20 T10	Ø250x500		1
15	Lathe Machine	NAKAMURA TMC 20	Ø430x650		1
15	Lathe Machine	OKUMA HOWA	Ø350x450		1
17	TOUR CN		diametre 250 mm, length 400 mm		2
18	Turning Machine	OKUMA-L250	Ø300x200		3
18	Turning Machine	MORISEIKI-SL25	Ø400x510		1
18	Turning Machine	TECNO WASINO	Ø200x150		1
18	Turning Machine	FUJI-TNW30T	Ø200x200		1
18	Turning Machine	OKUMA HOWA NU4Y-II	Ø200x200		1
18	Turning Machine	MIYANO-BNJ51	Ø51x3000		1
18	Turning Machine	CITIZEN-CINCOM-E32	Ø32x3000		1
18	Turning Machine	CITIZEN-CINCOM-B12	Ø12x2000		1
18	Turning Machine	CITIZEN-CINCOM-A20	Ø20x3000		8
18	Turning Machine	CITIZEN-CINCOM-A25	Ø25x3000		3
18	Turning Machine	TSUGAMI-B0205-III	Ø20x3000		2
18	Turning Machine	NAKAMURA-TOME-TW-8	Ø25x3000		1
18	Turning Machine	CITIZEN-A20	Ø20x3000		1
18	Turning Machine	CITIZEN-B12	Ø12x2000		2
18	Turning Machine	TAKISAWA CNC360	Ø200x400		1
18	Turning Machine	NAKUMARA TMC20	Ø200x350		1
19	CNC Turning machine	Jyoti + ACE			10
19	CNC Turning machine	Hyundai WIA + ACE			6
19	CNC Turning machine	Jyoti			2
19	CNC Turning machine	BFW + LMW			3
19	CNC Turning machine	LMW			2
19	CNC Turning machine	Hyundai KIA			1
19	CNC Turning machine	ACE			1
21	Traditional Lathe machine	Hangzhou	D500 x 800 mm		3



Plant	Axis	Machine & Equipment	Working Dimensions	RPM Spindle speed	Quantity
21	CNC Turning machine 3 axis	Hangzhou	D500 x 800 mm		8
22	CNC Turning machine	MAZAK 860	Φ250X850 mm		1
22	CNC Turning machine	YAMAZAKI 9375	Φ200X800 mm		1
22	CNC Turning machine	KEYOSEIKI KS550A	Φ200X1000 mm		1
22	CNC Turning machine	TRENS TRENCHIN SN500SA	Φ300X2000 mm		1
22	CNC Turning machine	OKUMA	Φ500X3000 mm		1
22	CNC Turning machine	IKEGAI A20	Φ240X1000 mm		1
22	CNC Turning machine	TOS-HOSTIVAR - SN40A	Φ220X950 mm		1
22	CNC LATHE	MORI SEIKI - SL-3A	Φ350X450 mm		1
22	CNC LATHE	MAZAK - QUICK TURN SMART 200	Φ250X1000 mm		2
22	CNC LATHE	MAZAK - QUICK TURN SMART 200	Φ1000X200 mm		1
22	CNC lathe	MAZAK - SMART 300	400X600 mm		1
22	CNC LATHE	MAZAK - QUICK TURN 15N	220X510 mm		1
22	CNC LATHE	MAZAK - M4N			1
22	CNC LATHE	MAZAK - SUPER QUICK TURN 200M			1
22	CNC LATHE	MAZAK - QUICK TURN 150 SG			1
22	CNC LATHE	MAZAK - QUICK TURN 300			1
22	CNC LATHE	MAZAK - SUPER QUICK TURN 250			1
22	CNC LATHE	MAZAK - QUICK TURN ECONOMY 200 SG			2
22	CNC LATHE	MAZAK - INTERGREX200-2Y			1
22	CNC LATHE	MAZAK - QUICK TURN 20H-P			1
22	CNC LATHE	MAZAK - QUICK TURN 300L			1
22	CNC LATHE	MAZAK - QTE-200 SG			5
22	CNC LATHE	MAZAK - QUICK TURN 200			2
22	CNC LATHE MAZAK QUICK TURN 40	MAZAK - QUICK TURN 40			1
22	TAKISAWA CNC LATHE	TAKISAWA - NT-2000			1
22	CNC LATHE	TAKISAWA - TX1 - MII	Φ1000X200 mm		1
22	CNC LATHE	MAZAK - INTEREX 100SY			1
22	CNC LATHE	MAZAK - MAZATROL 640 PC-FUSION-CNC			1
22	CNC LATHE	SUPPER QUICK TURN 15MS-Y			1
22	CNC LATHE	MAZAK - QTN-2002	Type: Quick Turn Nexus 200-II		1
22	CNC lathe	FEELER - FTC20	Φ350X300		1
22	CNC lathe	HAWACHEON - Hi - Tech200	Φ200X450		1
22	CNC LATHE	T32-2			1
22	CNC LATHE	MAZAK - QUICK TURN 10N	220X510		3



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
1	Vertical milling machine 3 axis (X,Y,Z)	HAAS VF-4	1270 x 508 x 635	12000	1
1	Vertical milling machine 3 axis (X,Y,Z)	HAAS VF2SS	762 x 406 x 508	12000	1
1	Vertical milling machine 3 axis (X,Y,Z)	AGMA VMC-168	1600 x 800 x 700	8000	1
1	Vertical milling machine 4 axis		600 x 400		2
1	Vertical milling machine 3 axis (X,Y,Z)	TOSHIBA JRV-40	600 x 410 x 460	6000	2
1	Vertical milling machine 3 axis (X,Y,Z)	NEWWAY	750 x 420		1
1	Vertical milling machine 3 axis (X,Y,Z)	MAKINO	750 x 400		1
1	Vertical milling machine 3 axis (X,Y,Z)	NC Enshu SEV-VX	1000 x 450		2
2	CNC Milling Machine	FANUC Robodrill T21	700x500x500 B360		2
2	CNC Milling Machine	BROTHER R450	450x350x350		1
2	CNC Milling Machine	FANUC Robodrill T14	500x350x500		5
2	CNC Milling Machine	FANUC Robodrill T15	350x250x300		2
2	CNC Milling Machine	OKUMA & HOWA Millac 8VA	1500x820x800		1
2	CNC Milling Machine	OKUMA & HOWA MILLAC 45V	950x450x700		1
2	CNC Milling Machine	OKUMA & HOWA Millac 415V	500x350x500		2
2	CNC Milling Machine	OK Mycenter 2Xi	600x450x400		1
2	CNC Milling Machine	OKK VM40	600x450x400		1
2	CNC Milling Machine	ENSHU EV450	600x450x400		1
2	CNC Milling Machine	TOYAMA 40V	800x450x400		1
2	CNC Milling Machine	TOYAMA 300V	600x450x400		1
2	CNC Milling Machine	TOYAMA 40H	600x450x400		1
2	CNC Milling Machine	MORI SEIKI Accumill 4000	400x550x400		1
2	CNC Milling Machine	HISON VMU1100	400x550x401		2
2	CNC Milling Machine	NEWAY PM2040HA	4200x3200x1200		1
2	CNC Milling Machine	OKUMA & HOWA 3V-NC	600x400x400		1
2	CNC Milling Machine	OKUMA & HOWA 3R-RAMCON	850x5100x400		1
2	CNC Milling Machine		12000x3000x2000		1
4	Milling Machine	OKUMA	1100x600x610 mm		1
4	Milling Machine	OKUMA	830x460x530 mm		1
4	Milling Machine	OKUMA	600x400x510 mm		1
4	Milling Machine	OKK	1260x640x640 mm		1
4	Milling Machine	OKK	1060x520x590 mm		1
4	Milling Machine	OKK	800x415x540 mm		1
4	Milling Machine	MORISEIKI	560x450x450 mm		2
4	Milling Machine	TOYOSK	550x440x500 mm		1



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
5	ENVIRONMENT TEMPERATURE CONTROLLED Milling Machine	OKUMA MU-400VII	762 x 460 x 460 x 360 mm	15 000 tr/min	1
5	ENVIRONMENT TEMPERATURE CONTROLLED Milling Machine	DMG MORI CMX 800 Vi	800 x 560 x 510 x 360 mm	12 000 tr/min	1
5	ENVIRONMENT TEMPERATURE CONTROLLED Milling Machine	BROTHER H550Xd1	550 x 400 x 400 x 360 mm	12 000 tr/min	1
5	ENVIRONMENT TEMPERATURE CONTROLLED Milling Machine	OKUMA M560 VE	1 050 x 560 x 460 mm	15 000 tr/min	1
6	4 axis machining center	Hardford Machining Center-Fixture Core			
8	Vertical milling machine 3 axis (X,Y,Z)	MAKINO KSAP-55	500 x 200 x 300	4000	1
8	Milling Machine	KF5600	1100x560x520	8000	1
11	5 Axis milling machine	DMG-MORI DMU 75 monoBLOCK	750 x 650 x 560 Axis: +120° ~ -120° C Axis: 360°	20000	1
11	5 Axis milling machine	DMG-MORI NVX5080	800 x 530 x 510 B Axis: +110° ~ -110° C Axis: 360°201	1500	1
11	5 Axis milling machine	OKUMA MILLAC 468VII	820 x 460 x 450 A Axis: +110° ~ -30° C Axis: 360°	15000	1
11	Vertical milling machine 3 axis (X,Y,Z)	DMG-MORI NVX5080	800 x 530 x 510	15000	7
11	Vertical milling machine 3 axis (X,Y,Z)	DMG-MORI NVX5060	600 x 530 x 510	20000	1
11	Vertical milling machine 3 axis (X,Y,Z)	DMG-MORI NVX5100	1050 x 530 x 510	15000	1
11	Vertical milling machine 3 axis (X,Y,Z)	OKUMA MILLAC 44VII	560 x 410 x 410	20000	4
11	Vertical milling machine 3 axis (X,Y,Z)	OKUMA MILLAC 468VII	820 x 460 x 450	15000	3
11	Vertical milling machine 3 axis (X,Y,Z)	OKUMA MILLAC 761VI	1540 x 760 x 660	15000	1
11	Vertical milling machine 3 axis (X,Y,Z)	OKUMA MILLAC 611VII	1300 x 610 x 560	15000	1
11	Vertical milling machine 3 axis (X,Y,Z)	MORI SEIKI DURA-VERTICAL 5100	1050 x 530 x 510	10000	1
11	Vertical milling machine 3 axis (X,Y,Z)	MORI SEIKI DURA-VERTICAL 5100	800 x 510 x 510	12000	1



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
11	Vertical milling machine 3 axis (X,Y,Z)	Sv403	600 x 430 x 460	12000	1
11	Vertical milling machine 3 axis (X,Y,Z)	Sv400	600 x 430 x 460	12000	1
11	Vertical milling machine 3 axis (X,Y,Z)	FM2/40	800 x 410 x 510	8000	2
11	Vertical milling machine 3 axis (X,Y,Z)	FRONTIER-MI	600 x 410 x 460	8000	1
11	Vertical milling machine 3 axis (X,Y,Z)	MV-40M	560 x 400 x 450	8000	1
11	Vertical milling machine 3 axis (X,Y,Z)	F-M2	800 x 410 x 510	6000	1
11	Vertical milling machine 3 axis (X,Y,Z)	MV-40	560 x 410 x 460	8000	1
11	Vertical milling machine 3 axis (X,Y,Z)	MAKINO S33	650 x 500 x 450	20000	1
11	Vertical milling machine 3 axis (X,Y,Z)	HAAS VF2SS	762 x 406 x 508	12000	1
11	Vertical milling machine 3 axis (X,Y,Z)	YAMAZAKI YZ-90	1200 x 500 x 500	1500	1
11	Vertical milling machine 3 axis (X,Y,Z)	OKUMA HOWA STM-2V	700 x 300 x 300	1800	3
13	Milling Machine	IWASHITA NK-IR	300x500		1
13	Milling Machine	MAKINO HA6-8636	300x500		1
13	Milling Machine	HITACHI SEIKI MS-V	300x400		2
13	Milling Machine	HITACHI SEIKI MS-P	300x400		2
13	NC Milling Machine	YAMASAKI NZ-8N	1200x600		1
13	NC Milling Machine	OKK MHA-300	900x400		1
13	NC Milling Machine	OKUMA & HOWA FM-2W	900x400		1
13	NC Milling Machine	MAKINO AGIINC-85	1000x500x400		1
13	CNC Milling Machine	MORISEIKI MV-40	800x400x450		4
13	CNC Milling Machine	MITSUISEIKI VS-3A	800x400x450		1
13	CNC Milling Machine	OSAKAKIKO MHA-800II	2000x900x900		1
13	CNC Milling Machine	KASAHARA M-00067	700x400x450		1
13	CNC Milling Machine	MATSUURA MC-600VF	800x400x400		1
13	CNC Milling Machine	DMG MORI EcoMILL 600V	600x560x510		4
13	CNC Milling Machine	DMG MORI EcoMILL 800V	800x560x510		1
13	CNC Milling Machine	OKUMA GENOS M560-V-e	1050x600x600		1
13	CNC Milling Machine	VTECH NF-5226	5000x2450x900		1
13	CNC Milling Machine	FANUC MNC-34	600x400x450		2
13	CNC Milling Machine	MORISEKI M-300L2	1800x450x500		1
13	CNC Milling Machine	TSUGAMI M5	630x600x630		1
13	CNC Milling Machine	OHTORIKIKO OSU-545	400x400x350		1
13	CNC Milling Machine	BROTHER M140x2	200x200x200		2



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
13	CNC Milling Machine	MORISEIKI ACCUMILL 4000	400x800x500		2
13	CNC Milling Machine	NEWAY PM1220HA	2000x1200x1000		1
13	Compact Machining Center	BROTHER S1000X1	1000x500x300		1
13	Compact Machining Center	BROTHER W1000Xd1	1000x500x300		1
15	CNC Milling Machine (4 axis)	MAKINO A55 horizontal	560x560x560 (8 pallets)	12000	1
15	CNC Milling Machine (4 axis)	METRON MTV-T351	600x350x400	12000	1
15	CNC Milling Machine (4 axis)	BROTHER TC-S2B	600x350x400	12000	1
15	CNC Milling Machine (4 axis)	TOYAMA NTC	650x400x550	9000	1
15	CNC Milling Machine (4 axis)	OKUMA 40 VA	650x400x550	7000	1
15	CNC Milling Machine (5 axis)	MAKINO MS5A	650x400x550	12000	1
15	CNC Milling Machine (5 axis)	MAKINO V55	900x500x450	14000	1
15	CNC Milling Machine (3 axis)	ROKU ROKU	650x400x550 (2 pallets)	9000	1
15	CNC Milling Machine (3 axis)	MATSUURA RA-IIF	650x400x550 (2 pallets)	14000	1
15	CNC Milling Machine (3 axis)	OKUMA 40 VR11	650x400x550	7000	1
15	CNC Milling Machine (3 axis)	ROBO-DRILL	550x350x450	9000	1
15	CNC Milling Machine (3 axis)	ROKU VR-4011	600x400x500	9000	2
15	CNC Milling Machine (5 axis)	NIKKEN TRUNNION 5AX-130FA-M			2
17	MACHINING CENTER		1000 x 600 x 600 mm		2
17	MACHINING CENTER		750 x 450 x 450 mm		1
17	TRADITIONAL MILLING	HURON			1
18	MILLING MACHINE	MAKINO SLIM 3N	500 x 400 x 400 mm		1
18	MILLING MACHINE	BROTHER S500x1	500 x 400 x 300 mm		3
18	MILLING MACHINE	BROTHER S1000	1000 x 600 x 400 mm		2
18	MILLING MACHINE	BROTHER R450x1	300 x 250 x 400 mm		1
18	5 AXIS MILLING MACHINE	BROTHER 05 AXIS M140	200 x 400 x 305 mm A axis: 5-95 degrees C Axis: 360 degrees		2
18	5 AXIS MILLING MACHINE	BROTHER 05 AXIS M140x2	200 x 440 x 305 mm A axis: 120-30 degrees C Axis: 360 degrees		1
18	MILLING MACHINE	HURCO VNX24	610 x 508 x 610 mm		1
18	MILLING MACHINE	HURCO VNX10	600 x 406 x 508 mm		3



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
18	MILLING MACHINE	AKIRA SEIKI V4XP	815 x 540 x 560 mm		1
18	MILLING MACHINE	DACOR 242	800 x 400 x 510 mm		1
18	MILLING MACHINE	ROKU ROKU V-O	500 x 400 x 350 mm		1
18	MILLING MACHINE	TOYOSK T30	250 x 250x 300 mm		1
19	CNC Milling Machine	BFW	3 axis		1
19	CNC Milling Machine	BFW	4 axis		1
19	CNC Milling Machine	BFW	3 axis		1
19	CNC Milling Machine	VMC	3 axis		4
20	CNC Milling Machine	Zhenhui	850 x 450 x 350 mm		15
20	CNC Milling Machine	MIR	850 x 600 550 mm		6
20	CNC Milling Machine	FANUC	600 x 400 x 300 mm		5
20	CNC Milling Machine	JT500	500 x 400 x 300 mm		2
20	CNC Milling Machine 4 axis	TOPZEN	850 x 450 x 350 mm		2
20	CNC Milling Machine 5 axis	TOPZEN	850 x 450 x 350 mm		5
20	CNC Milling Machine	XQSK	2 200 x 1 800 x 300 mm		1
20	CNC Milling Machine	XQSK	1 500 x 1 000 x 250 mm		3
20	CNC Milling Machine	XQSK	1 200 x 800 x 250 mm		4
20	CNC Milling Machine	XQSK	1 000 x 800 x 200 mm		20
20	CNC Milling Machine	XQSK	850 x 600 x 200 mm		12
20	CNC Milling Machine	XQSK	600 x 600 x 100 mm		14
21	CNC Milling Machine 3 Axis	JYD	400 x 600 x 400 mm		4
21	CNC Milling Machine 3 Axis	Brother	500 x 600 x 500 mm		12
21	CNC Milling Machine 5 Axis		500 x 600 x 500 mm		12
21	CNC Milling Machine 3 Axis		1 000 x 800 x 600 mm		2
22	MILLING MACHINE	HECKERT - 31428813	870X270X320 mm		1
22	Horizontal milling machine	OKK - MDH5P	1 600X480X580 mm		1
22	MILLING MACHINE		1 800X450X630 mm		1
22	MILLING MACHINE	USSR - 6P12	780X260X450 mm		1
22	MILLING MACHINE	HOWA - SANG YO - 1H67047	500X220X200 mm		1
22	MILLING MACHINE	SEIKI - MS-VBEA3-60	550X280X200 mm		1
22	4T CNC MILLING MACHINE	EUMACH - MC1050PB	1 050X610X610 mm		1
22	4T CNC MILLING MACHINE	AKIRA SEIKI - HV6	4 300 x 3 525 x 2 000 mm		1
22	CNC MILLING MACHINE	URAWA - UB710	700 x 1 000 x 400 mm		1
22	CNC milling machine	HARTFORT - PRO1000	3 000 x 2 350 x 2 400 mm		1
22	4 T CNC Milling Machine	OKK - VB53	2 495 x 2 490 x 2 910 mm		1
22	CNC milling machine	OKK - VB53	2 300 x 2 200 x 2 000 mm		1
22	4 T CNC Milling Machine	KASUGA - HV70	2 100 x 2 660 x 2 445 mm		1
22	CNC MILLING MACHINE	KASUGA - V70X	700 x 430 x 460 mm		1



Plant	Machine type	Brand	Working Dimensions	RPM spindle speed	Quantity
22	CNC milling machine	HAAS - VF4	3 098 x 2 794 x 2 985 mm		1
22	5T CNC MILLING MACHINE	ENSHU - E450	3 300 x 2 400 x 2 800 mm		1
22	CNC milling machine	MORI SEIKI - ACCUMILL 4000	1 600 x 2 000 x 2 600 mm		1
22	CNC milling machine	MAZAK - VTC-160A	1 800 x 2 400 x 2 600 mm		1
22	CNC milling machine	MAZAK - MAZATECH FH480	4 400 x 3 300 x 2 700 mm		1
22	CNC milling machine	HAAS - VF4	3 098 x 2 794 x 2 985 mm		1
22	4T CNC MILLING MACHINE	PC25-AKIRA SEIKI-SV760	2 400 x 2 200 x 2 640 mm		2
22	CNC milling machine	OKUMA - MILLAC 435V			
22	CNC MILLING MACHINE	MORI SEIKI - MV-55	3 600 x 3 400 x 3 000 mm		
22	CNC HORIZONTAL MILLING	OKUMA - MILLAC 525H (M-525H)			
22	CNC milling machine	MAZAK - VCN510C-II			
22	CNC MILLING MACHINE	MORI SEIKI - FM22-262	3 000 x 2 300 x 2 150 mm		
22	CNC milling machine	URAWA - UB710	700 x 1 150 x 400 mm		
22	CNC milling machine	OKK VB53α#215	2 495 x 2 490 x 2 910 mm		
22	CNC milling machine	HARTFORT - VMC1020S	1 000 x 510 x 510 mm		
22	CNC MILLING MACHINE	MORI SEIKI - HR3C			
22	CNC MILLING MACHINE	DMG - DMC 635V	2 050 x 2 530 x 2 650 mm		



Plant	Cutting type	Machine & Equipment	Working Dimensions	Power (watt)	Quantity
4	Wire cutting machine	DATIE	600x400x300 mm		1
8	Band sawing machine	KS220R			1
8	Circular sawing machine	C370-2A			1
8	Band sawing machine	H-250-D			1
8	Sawing machine				1
8	Hydraulic Shearing	Amada S-2565	2500		1
8	Shearing Machine	AAA			1
8	Plasma cutting Machine	Plasma cutting 100A			1
8	Laser cutting Machine		6000x2000	3000	1
8	Stainless steel wire NC cutting machine				1
8	Plasma cutting Machine	KINETIC K3000 260A	12573x3175		1
11	Wire cutting Machine (Zinc)	SODICK SL400G	400 x 300 x 250		1
11	Wire cutting Machine (Zinc)	SODICK VZ300L	350 x 250 x 220		1
11	Wire cutting Machine (Brass)	GOLDSUN GS2532B	250 x 320 x 250		1
11	Wire cutting Machine (Brass)	GOLDSUN GS4050B	400 x 500 x 300		1
11	Wire cutting Machine (Brass)	GOLDSUN GS4050AZ	400 x 500 x 250		1
11	Wire cutting Machine (Brass)	GOLDSUN GS5063	500 x 630 x 300		1
13	Saw Machine	AMADA OS-101	Ø200		1
13	Saw Machine	AMADA 250-350	Ø350		1
13	Saw Machine	AMADA V-400	200 mm		1
13	Laser cutting Machine	AMADA FO-3015NT	3500x1500		1
13	Plasma cutting Machine	SON VU SV-17	3500x1500		1
13	Wire cutting Machine	FANUC AW-2	650x350		1
13	Wire cutting Machine	FANUC ALPHA-C400iA	370x270x255		1
13	Wire cutting Machine	FANUC ALPHA-C600iA	600x400x310		1
13	Wire cutting Machine	VAN SU LOI DK-7763	630x800		1
13	Wire cutting Machine	VAN SU LOI DK-7725	300x500		1
13	Gear cutting Machine	GOTOKIKAI FKB5-516-1	Ø200x150		1
17	LASER TUBES		254 mm fluopercage		2
17	LASER TÔLES		4000 x 2000 mm	8000	4
17	GUILLLOTINE		3 metres, 8 mm		1
20	Laser cutting Machine	MITSUBISHI ML3015eX-35CF-R	3 300 x 1 550 mm		2
21	Wire cutting Machine	Sadiq	500 x 600 x 500 mm		5
21	Laser cutting Machine	M.K	3 000 x 1 500 mm	3000	3
22	CNC Wire cutting Machine	KINGRED - KD500ZL			1



Plant	Cutting type	Machine & Equipment	Working Dimensions	Power (watt)	Quantity
22	Wire cutting Machine	SEIBU M75A	750 x 500 x 320 mm		5
22	COPPER WIRE CUTTING MACHINE	SEIBU M75B			1
22	COPPER WIRE CUTTING MACHINE	SEIBU MM50UP			1
22	CNC wire cutting machine	GOLDSAN - GS4050T6H40B	500X400X400 mm		1
22	CNC wire cutting machine	UY-80120	800X1 200X500 mm		1
22	CNC wire cutting machine	UY-4050A	550X450X400 mm		1
22	CNC wire cutting machine	UY-63100	1 000X630X500 mm		1
22	COPPER WIRE CUTTING MACHINE	CHMER - CW530F	500X350X250 mm		1
22	COPPER WIRE CUTTING MACHINE	CHMER - CW64GF	600X400X300 mm		1
22	CNC copper wire cutting machine	CHMER - G32F	320X250X200 mm		1
22	CNC copper wire cutting machine	SODICK - AG600L			1



Plant	Drilling type	Machine & Equipment	Working Dimensions	Quantity
6	Deep hole drilling		Ø30-110, length 4000 m	1
1	CNC Drill machine		Ø3-30, length 1000 mm	1
19	Rapid Drill			1
19	Deephole Drill			2
19	Deephole Drill			1
19	Rapid Drill			1
8	Manual Screwdriver	Makita		1
8	Manual Drill	Makita		2
8	Drill Rod Machine	OOYA RE2-1300		1
8	Bench drilling machine			1
13	Handle Drill machine	BOSCH B23Y	Ø13	1
13	Handle Drill machine	KIRA B15Y	Ø14	3
13	Handle Drill machine	KITAGAWA KDT-40	Ø19	2
13	Drill machine	OOYA N71-2442	Ø200	1
13	Drill machine	ASHINA AUD-550	Ø23	1
13	CNC Drill machine	FANUC DRILL MATE	400x250x400	2
13	CNC Drill machine	MIYANO TSV-23	400x250x400	1
13	Magnet Drill Machine	MAGNETIC CORE SMD-502	M3-M12	4
21	Drilling Machine 3 axis	Hangzhou	500 x 600 x 500 mm	8
21	Deep hole drilling 3 axis	Hangzhou	800 x 800 x 400 mm	6
22	Coordinate drilling machine		600 x 400 mm	3
22	Vertical drilling machine			7
22	Horizontal Boring Machine		1000X800X800 mm	1
22	LATHE-DRILLING-CENTER	TONGIL TIP L-4	Φ220X800 mm	1



Plant	Drawbench type	Machine & Equipment	Working Dimensions	Quantity
21		HuanHui	1500 x 800 mm	2



Plant	EDM Type	Machine & Equipment	Working Dimensions	Quantity
11	EDM Machine	SODICK AG40L	400 x 300 x 270	1
13	EDM Machine	SODICK X-EMD	400x450x350	1
13	Hole EDM Machine	ASTEC CDM-3AM	Ø0.6~Ø3	1
20	EDM Machine	CHAOSHIJI	800 x 500 x 600 mm	7
21	EDM Machine	Sadiq	500 x 600 x 500 mm	5
22	CNC EDM Machine	GOLDSAN GS430B	400 x 280 x 410 mm	1
22	CNC EDM Machine	SODICK		1
22	CNC EDM Machine (hole drilling)	EMATCH - MEMH43S		1
22	CNC EDM Machine	GOLDSAN - GS430B	400X280X410 mm	1
22	CNC EDM Machine	Aristech 350	380X280X410 mm	1
22	CNC EDM Machine	KINGSPARK 450D	450X350X280 mm	1
22	CNC EDM Machine	CHMER CM434C	400X300X350 mm	1
22	CNC EDM Machine	GOLDSAN - GS750	700X550X500 mm	1
22	CNC EDM Machine	SODICK - AG40L	400X300X270 mm	1
22	CNC EDM Machine	SODICK - AG55L	600X400X400 mm	1



Plant	Grinding type	Machine & Equipment	Working Dimensions	Speed	Quantity
2	Shaft grinding	NISEI	Ø1100x400		1
4	Surface grinding machine	NICCO	600x350x280 mm		1
6	CYLINDRICAL GRINDING		Ø480 mm- length 4 000 mm		1
6	CYLINDRICAL GRINDING	STANKO			1
6	CYLINDRICAL GRINDING	SCHAUDT			1
6	SURFACE GRINDING		Ø500 mm		1
6	INTERNAL GRINDING	WMW	Ø500 mm		1
6	HONING		Ø300 mm - length 2 000 mm		1
8	Angle grinding	Bosch GWS 7-125 . Angle Grinder			17
8	Angle grinding	METABO DW 10-125 QUICK . PNEUMATIC ANGLE GRINDER			2
8	Surface grinding machine	PROTH			1
8	Surface grinding machine	PSGS 3060AH			1
8	Grinding machine				1
11	Centerless grinding	NISSIN HI-GRIND1	75Ø	2700 m/min	1
11	Surface grinding machine	OKAMOTO ACC105DX	(X:Y:Z) : 1000 x 500 x 500	35 m/s	1
11	Surface grinding machine	OKAMOTO ACC63DX	(X:Y:Z) : 600 x 300 x 300	35 m/s	1
11	Cylinder grinding machine	OKAMOTO OGM250	(X:Z) : 250 x 400	35 m/s	1
13	Profile grinding	WASINO ALS - 135 AS	130x250		1
13	Profile grinding	WASINO Machine GLS-130 AS	130x250		2
13	CNC Shaft Grinding	SHIGIYA G-30ND	Ø300x600		
13	CNC Surface Grinding	DIAPET	Ø3x300		2
13	NC Centerless grinding Machine	NIPPEI	Ø6x300		1
13	Hole grinding machine	MITSUISEIKI J2GB	Ø300x200		1
13	Cutter grinding machine	DIAPET	M3-M30		1
13	Cutter grinding machine	STUGAMI 3470/2905RPM	M3-M30		3
13	Cutter grinding machine	KIDA	M3-M30		3
13	Cutter grinding machine	OKAMOTO	M3-M30		2
13	Cutter grinding machine	MARUEI PUG-50A	Ø80x500		1
13	Cutter grinding machine	DIAPET 730NC3	M3-M30		1
13	Shaft grinding machine	TOYODA R5524	Ø100x500		1
13	Cylinder grinding machine	TOYODA GU28-5/LG141-4	150x600		1



Plant	Grinding type	Machine & Equipment	Working Dimensions	Speed	Quantity
13	Draft Grinding machine	ICHIKAWA ICB-603	500x500		1
13	Surface grinding machine	HITACHI GHL-B406	600x400		2
13	Surface grinding machine	OKAMOTO	600x400		1
13	Surface grinding machine	NIKKO	200x400		1
13	Double-head grinding machine	TOAKIKAI	Ø200		3
13	Double-head grinding machine	OSAKA KG-8	Ø150		2
13	Surface grinding machine	OKAMOTO PS6-20B	2400x500x550		1
13	Shaft grinding machine	OKUMA	Ø150x2000		1
18	CENTRELESS GRINDING		Ø5-Ø30*300		4
18	CYLINDRICAL GRINDING		Ø5-Ø30*300		2
20	Surface grinding machine	WANGPAN	400 x 160 x 250 mm		5
21	Surface grinding machine	WP	300 x 600 x 300 mm		8
22	Knife sharpener				3
22	End mill grinder				1
22	2-stone grinder				2
22	JIG Grinder	WAIDA JG-35			1
22	Hole grinding machine	USSR - 3K227BT	Φ200X100 mm		1
22	Hole grinding machine	USSR - 3K227BT	Φ300X280 mm		1
22	Surface grinding machine	3E711BO1	200X800X300 mm		1
22	NC Surface grinding machine	HYFAIR - HF-3060	300x600 mm		1
22	NC Surface grinding machine	PALMARY - PSG-D4080AH	400x800 mm		1
22	CNC Flat grinding	NICCO - F-63AC-CNC			1
22	CNC Surface grinding	NAGASEI - SGE515 LD2-PCNC			1
22	Surface grinder	PSGO-75150AHR	750X1500 mm		1
22	Surface grinder	3TL722B	1250X350X420 mm		1
22	Surface grinder	3080	800x300x360 mm		1
22	Thread grinding machine	DKE			1
22	Cylindrical grinder	TOS-HOSTIVAR - ZUD750			1
22	Cylindrical grinder	TOYODA - RC-0951	Φ300X1200 mm		1
22	NC CYLINDER GRINDING MACHINE	TOYODA - GPD154			1
22	Cylindrical grinder	TOYODA - R2488	Φ300X1500 mm		1
22	NC CYLINDER GRINDING MACHINE	PALMARY GU32x60NC			1



Plant	Grinding type	Machine & Equipment	Working Dimensions	Speed	Quantity
22	NC CYLINDER GRINDING MACHINE	JANNHER - JHU-706NC			1
22	NC CYLINDER GRINDING MACHINE	KONDO			1
22	Cylindrical grinder	Ponar - Tarnow	Ø250x700 mm		1
22	Circular Grinding Machine	KONDO - UGK-450			1
22	Circular Grinding Machine	KONDO - UGK-450 H			1
22	Circular Grinding Machine	OKAMOTO - MAX390.OD			1
22	PROFILE GRINDING MACHINE	UTSUNOMIYA - SGP-030-16i			1
22	NC CYLINDER GRINDING MACHINE	PALMARY - GU32x100-2NC			1
22	MINDLESS GRINDING	SINKO SEIKI - SKS-N250			1



Plant	Machine type	Brand	Working Dimensions	Material type	Quantity
20	DKM double-color injection machine	Haitian	250 Tons / 180 T / 160 T	ABS, PA, PA+GF, LDPE, HDPE, PC, PEEK, PMMA, POM, PPS, PEI, PBT. PVC. ULTEM, TPU, TPE, etc	8
20	injection machine	Haitian	250 Tons / 160 T / 120 T / 90 T		13
20	injection machine	Zhengxiong	150 Tons / 120 T / 80 T		5
22	injection machine	CHUN SHIN FT140			1
22	injection machine	SUMITUMO SH220A			1



Plant	Measuring type	Machine & Equipment	Working Dimensions	Quantity
2	3D Coordinate Measuring Machine (CMM)	MITUTOYO	700x500x400	1
2	2D Coordinate Measuring Machine (CMM)	TAIWAN	200x300	1
5	Coordinate Measuring Machine (CMM) XYZAX Axis 9/10/6/ PH C6	ACCRETECH	1000 x 850 x 600 mm	1
5	Roughness measuring device	ACCRETECH	Measuring range: -210 - +160 microns	1
11	Coordinate Measuring Machine (CMM)	NIKON Altera 8.7.6	800 x 700 x 600	1
11	Optical Instrument	NIKON Inexin VMA-4540V	450 x 400 x 200	1
11	Profilometer	MITUTOYO CV-3200H4	(X:Z) : 100 x 60	1
13	3D Measuring Machine	X-CITE 564	550x600x420	1
13	Profile Machine	MITUTOYO BJ-A300	300x300	3
13	Profile Machine	SLOKAIVIS ORAMA	400x400	2
13	Projector Machine	MITUTOYO PJ-300H	200x200	1
13	Projector Machine	MITUTOYO PH-3500	200x200	1
13	Hardness Testing Machine	FUTURE TECH FR-e Series	50x100x100	1
13	Smart Scope	MICRO SCOPE FLASH 200 SRL-11	50x100x100	1
13	Roughness measuring Machine	MITUTOYO SJ-310		1
13	Roughness measuring Machine	TOKYO SEIMITSU RONDCOM-41C	Ø50x350	1
13	Height Gauge	MITUTOYO 518-352E-21 (LH-600EG)	600 mm	1
13	CNC Surface Texture and Contour profile Measuring Machine	ACCRETECH Surfcom NEX 031 SD-13	600x450x450	1
18	Coordinate Measuring Machine (CMM)	MITUTOYO	300x300x300	1
18	HARDNESS Testing Machine	MITUTOYO	Rock well	1
18	SURFACE ROUNDNESS	MITUTOYO	Ø25x3000	1
18	PROFILE PROJECTOR		200x200x150	1
18		RONDCOM NEX 200 SD2	Ø300x500	1
20	Coordinate Measuring Machine (CMM)	MITUTOYO Crysta-Apex 9166	1 600 x 900 x 600 mm	3
21	Coordinate Measuring Machine (CMM)	Hexagon	400 x 500 x 300 mm	2
21	Projector	Hexagon	400 x 500 x 300 mm	6



Plant	Measuring type	Machine & Equipment	Working Dimensions	Quantity
22	3d vision measurement	VMA-2520		1
22	Coordinate Measuring Machine (CMM)	WENZEL LH87-1000 - Germany		1
22	Coordinate Measuring Machine (CMM)	WENZEL XO55-700 - Germany		1
22	AD Measuring Equipment	UNLONG		1
22	Profile measuring Equipment	MITUTOYO CV2100		1
22	Roughness tester	MITUTOYO SJ 410		1
22	ROCKWELL METER	MATSUZAWA - MOGURa-D1		1
22	VICKER METER	MATSUZAWA - MMT-X3B		1
22	Microscopes	STECH - SMZ45-B1W		1



Plant	Machine type	Brand	Working Dimensions	Material	Quantity
20	3d printer 450	UNIONTECH	450 x 450 x 300 mm	Somos 14120, PMMA, ABS	10
20	3d printer 600	UNIONTECH	600 x 600 x 400 mm		9
20	3d printer 800	UNIONTECH	800 x 800 x 800 mm		2
20	SLA 3d printer G1400	UNIONTECH	1 400 x 700 x 500 mm	ABS, Somos 14120	1
20	SLS 3d printer	UNIONTECH	340 x 340 x 420 mm	PA, PA+GF	2
20	SLM Metal 3d printer	RENISHAW	250 x 250 x 300 mm	Inox 316L, CoCr, Ti-6Al-4V, etc	1



Plant	Polishing type	Machine & Equipment	Working Dimensions	Other features	Quantity
2	Surface polishing	OKAMOTO	600x400 /300x100		2
2	Surface polishing	OKAMOTO	1000x500		1
2	Shaft polishing	MIYAMOTO	Ø150x350		1
13	Sand Blasting Machine				
13	Polishing (Buffing) Machine				
17	DEBURRING MACHINE				1
21	Surface polishing machine				5
22	Extrusion polishing machine				5
22	Vibration polishing machine 300				5
22	Rotary polishing machine				5
22	Vibration polishing machine 150				5



Plant	Pressing type	Machine & Equipment	Working Dimensions	Other features	Quantity
8	Hydraulic Press Brake	Dener Puma XL 30135			1
8	Hydraulic Pressing Machine	YCT250.			1
8	Pressing Machine	AMADA		110 Tons	1
8	Pressing Machine	AMADA		80 Tons	1
11	Hydraulic-Press Brakes Machine	AMADA SPH30	300 x 100 x 100		1
13	Pressing Machine	AMADA PEGA-357	3000x1500		1
13	Pressing Machine	SANKEI LP-150		30 Tons	1
13	Hydraulic-Pressing Machine	SANKEI PRS-5		250 mm/s	1
21	Stamping machine	LK		10-200 Tons	10
22	Punching machine	DKE J23-16			5



Plant	Tapping type	Machine & Equipment	Working Dimensions	Other features	Quantity
8	CNC Hydraulic Punching Machine	PM120LT			1
8		Iron worker - IW 125SD			1
13	Screw making Machine	NISSEI FA-55	M3-M18		1
13	Air tapping	GSD GS128F	M3-M18		1
18	Roll threading machine		M3-M30*1000 mm		1



Plant	Treatment type	Machine & Equipment	Working Dimensions	Quantity
6	Hard chrome plating		Diametre 1 000 mm, length 4 000 mm	1
6	Nickel plating		1 500 x 1 000 x 1 000 mm	1
13	Heat treatment	YAMASHI YS23-V5	400x400x350	1
13	Tempering machine	THERMO PLUS	1000x800x800	1
13	Vaccum heat treatment	SIMADZU VHO-30	500x600x500	1
22	AXE FURNACE			1
22	Volumetric quenching furnace			3
22	Sintering Furnace			1



Plant	Welding type	Machine & Equipment	Working Dimensions	Other features	Quantity
HQ	Manual Laser Welding				1
HQ	Manual Tig Welding				1
HQ	Manual Mig Welding				1
8	MIG Welding Machine	Panasonic Welder Mig 350A		350A	4
8	MIG Welding Machine	Panasonic Welder Mig 500A		500A	6
8	TIG Welding Machine	Welder Tig Machine			1
8	Robot welding	Panasonic VR-006AL			2
8	Spot welding machine				2
13	Electric Welding Machine	HITACHI AWL-250		250A	4
13	CO2 Welding Machine	JASIC MIG350		350A	2
13	CO2 Welding Machine	CPXD-500(S-1)		500A	1
13	CO2 Welding Machine	KRII-350		350A	3
13	CO2 Welding Machine	MIG ALL350		350A	1
13	MIG Welding Machine	TTC253I		10 KVA	1
13	MIG Welding Machine	MIG-300		9.5 KVA	1
13	TIG Welding Machine	NERTABLOC TH-260P		500A	1
13	TIG Welding Machine	ECOPOWER WS-200		200A	1
13	TIG Welding Machine	JASIC TIG-315P		315A	1
13	TIG Welding Machine	PANASONIC WS-300		300A	1
13	Welding Robot	DAIHEN DR-4000		100A	2
17	SOUDURE LASER				1
17	SOUDURE PAR POINTS				1
21	Tig Welding			380V	2
21	Butt-welding			380V	8
22	Laser Welding Machine	SISMA SWA150			1
22	MIG Welding Machine				1
22	TIG Welding Machine	HERO F20P			3