

Machinery and Equipment List

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Computerized Numerical Control Lathe < 50 units >	φ 550 × 6000L	POWER MASTER	5	YAMAZAKI MAZAK CORPORATION
	φ 550 × 4000L	POWER MASTER	3	
	φ 500 × 460L	MEGA TURN 500	1	
	φ 490 × 2054L	QUICK TURN	2	
	φ 490 × 2102L	QUICK TURN	4	
	φ 380/255 × 1032L	QUICK TURN	2	
	φ 380/255 × 510L	QUICK TURN	1	
	φ 380/212 × 541L	QUICK TURN	3	
	φ 350 × 512L	QUICK TURN	1	
	φ 250 × 1000L	QUICK TURN	1	
	φ 250 × 500L	QUICK TURN , EZ LOADER	1	
	φ 250 × 500L	QUICK TURN	4	
	φ 250 × 264L	QUICK TURN	2	
	φ 280 × 1500L	M-4	8	
φ 340 × 3000L	M-5	12		

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Large Numerical Control lathe < 10 units >	φ 2250 × 6000L	W16L	2	DAINICHI KINZOKU KOGYO CO.,LTD.
	φ 1500 × 6000L	W16L	1	
	φ 1250 × 8000L	DL-167	1	
	φ 1100 × 14000L	DL II 152	1	
	φ 800 × 6000L	DL-120	1	
	φ 630 × 10000L	DL-95W	1	
	φ 630 × 6000L	DL-95	1	
	φ 520 × 4000L	SS	1	
	φ 380 × 8000L	DL-65	1	
Numerical Control lathe < 8 units >	φ 380 × 4000L	DL-65	1	DAINICHI KINZOKU KOGYO CO.,LTD.
	φ 380 × 3000L	DL-65	1	
	φ 380 × 2000L	DL-65 High Power	1	
	φ 380 × 2000L	DL-65	2	
	φ 380 × 1500L	DL-530	1	
	φ 300 × 2000L	DL-530	2	

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Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
General purpose lathe < 19 units >	φ 870 × 6000L	Rex870×6000	2	YAMAZAKI MAZAK CORPORATION
	φ 870 × 4000L	Rex870×6000	1	
	φ 280 × 4000L	MAZAKmark II	1	
	φ 260 × 4000L	MAZAK4000G	2	
	φ 260 × 3000L	MAZAK3000G	1	
	φ 260 × 1500L	MAZAK1500G	1	
	φ 380 × 3000L	TAL-600 L30	2	Takisawa Machine Tool Co., Ltd.
	φ 380 × 3000L	TAL-560	1	
	φ 300 × 1500L	TAL-510	3	
	φ 250 × 1500L	TAL-460	2	
	φ 360 × 3000L	APOC-A620x3000G	3	TSUDA manufacturing Co., Ltd.

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Computerized Numerical Control multitasking machine < 13 units >	φ 820 × 3000L	INTEGREX e-500H (laser processing)	1	YAMAZAKI MAZAK CORPORATION
	φ 1070 × 4000L	INTEGREX e-670H (Coolant 7MPa)	1	
	φ 820 × 4000L	INTEGREX e-500H (Long Boring Bar)	1	
	φ 820 × 3000L	INTEGREX e-500H (Coolant 7MPa)	3	
	φ 820 × 3000L	INTEGREX i-500 (Coolant 5MPa)	3	
	φ 658 × 1500L	INTEGREX i-300 (Coolant 5MPa)	3	
	φ 500 × 1200L	INTEGREX j-300 (Coolant 5MPa)	1	

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
5-face milling machine & machining < 16 units >	5050 × 3100 × 1000(800)	MCR-A5C II	3	Okuma Corporation
	5050 × 2000 × 1000(800)	MCR-A5C II	1	
	1500 × 660 × 660	MB-66VA	6	
	850 × 750 × 2050	MCR-MILLAC 852V II	2	
	762 × 460 × 460	MU-400V II	1	
	φ 760 × 1050L	MU-6300V-L	1	
	600 × 1050L	VCN-600	1	YAMAZAKI MAZAK CORPORATION
	530 × 1050L	VCN-530C	1	

Machinery and Equipment List

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Large Computerized Numerical Control cylindrical grinder < 2 units >	φ 1600 × 6000L	KWA	1	TOSHIBA Corporation
	φ 1200 × 10000L	KWC	1	SHIBAURA MACHINE CO., LTD.

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Precision Numerical Control grinder < 25 units >	φ 610 × 5000L	KT-650C	1	SHIBAURA MACHINE CO., LTD.
	φ 610 × 4500L	KT-650C	1	
	φ 500 × 4000L	GR7i ULTIMATE 01	1	JTEKT Corporation
	φ 500 × 4000L	GR7i-400 ULTIMATE	1	
	φ 550 × 4000L	GE 6i	1	
	φ 550 × 4000L	GE 6P (Crowning software)	4	
	φ 550 × 3200L	GE 6P (Crowning software)	4	
	φ 550 × 2500L	GE 6P (Crowning software)	4	
	φ 300 × 2000L	GE 4Pi	1	
	φ 300 × 1500L	GE 4Pi (Crowning software)	5	
	φ 430 × 5000L	GP-45D	2	SHIGIYA MACHINERY WORKS LTD.

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Cylindrical Mirror Grinding Machine < 6 units >	φ 1300 × 6000L	MR-4H-6000	1	Mirac corporation
	φ 650 × 4000L	MR-2H-4000-SP	2	
	φ 400 × 4000L	MRS-1H-4000-GP	2	
	φ 350 × 3000L	MR-1H-4000	1	
Buffing machine	φ 350 × 3000L	MR-1HSB-3000	1	

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	名称	Number of units	Manufacturer
Cylindrical grinding machine	φ 400 × 3200L	GP-40	2	Okuma Corporation
Linear combined grinding machine	φ 800 × 500L	Vertical Mate 85 (Coolant 4.1MPa)	2	TAIYO KOKI
Horizontal Internal Grinding Machine	φ 400 × 850L	IGHL-20N (Coolant 4.1MPa)	1	TAIYO KOKI
Internal Grinding Machine	φ 6~200 × 200	IGM-2M	1	Okamoto Machine Tool Works,Ltd.
Computerized Numerical Control Surface Grinding Machine	3000 × 500	SP II 305	1	
Surface Grinding Machine	1000 × 500	PSG105DX	1	
	1000 × 600	PSG106CA1	1	

Machinery and Equipment List

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Ultra-precision grooved rotary disk < 6 units >	Φ 600 × 2995L	ULR-628	3	SHIBAURA MACHINE CO., LTD.
	Φ 500 × 1500L	ULR-515C (piezoelectric unit)	3	

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Dynamic balancer < 8 units >	Φ 2400 × 9000	H60	1	NAGAHAMA SEISAKUSHO LTD.
	Φ 1600 × 9000	H40UB	1	
	Φ 1600 × 9000	HA4UB	1	
	Φ 800 × 3000	H20BK	5	

Equipment Machine Tools	Specifications (Outer diameter x core-to-core (mm))	Name	Number of units	Manufacturer
Linear milling machine		M-800	1	YAMAZAKI MAZAK CORPORATION
	820 × 300 × 420	SV-CH	3	SHIZUOKA machine tool.

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Radial drilling machine	Vertical 1600L	1	Ohya Seisakujo
	Horizontal type (All-purpose type)	2	Aichi Tokei Denki Co., Ltd.

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Sewing machine	Φ 300 × 300H	2	AMADA Co., Ltd.
	Φ 250 × 250H	2	

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Electric welding machine	MIG Soldering, TIG Soldering, AC Soldering	3	Panasonic Holdings Corporation
	NC	1	MATSUMOTO SANGYO Co., Ltd.

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Crane	10t / 15t	3	Nippon Hoist Corporation
	2.8t / 4.8t	37	

Machinery and Equipment List

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Compressor	Screw compressor 20HP	10	HOKUETSU INDUSTRIES Co., Ltd.
	Screw compressor 7.5HP	2	Mitsui Seiki Kogyo Co., Ltd.

Equipment Machine Tools	Specifications/Name	Number of units	Manufacturer
Roll caliper	φ 500 × 1450	1	Mitutoyo Corporation
	φ 250 × 600	1	
	φ 100 × 450	1	
The display snap gauge	φ 0 × 25	1	Mahr (Germany)
	φ 25 × 60	1	
	φ 100 × 150	2	
	φ 150 × 200	2	
	φ 200 × 250	2	
	φ 250 × 300	1	
	φ 300 × 350	2	
	φ 350 × 400	2	
	φ 400 × 450	1	
	φ 450 × 500	1	
Micro Denshi Co.	Resolution 0.1μ	3	Mahr (Germany)
Microscope	500x Magnification	1	KEYENCE CORPORATION
Laser microscope	Three-dimensional analysis	1	
Ultrasonic Thickness Measuring Instrument		1	Precision Watch Tokyo Co., Ltd.
Film Thickness of Percurrent Type & Electromagnetic Type	DUALSCOPE MPOR-FP	1	Fisher
Digital Surface Thermometer		1	ANRITSU CORPORATION
Surface Roughness Measuring Instrument	Pedometer M2	2	Mahr (Germany)
	SJ-210	1	Mitutoyo Corporation
		1	TOKYO SEIMITSU Co., Ltd.