

■ Major Equipment List

Mar.-11-2023

Vertical CNC Lathes ターニング

Manufacturer	Model	Maximum work size	Remarks
OKUMA	V100R	φ 1000×890L	Vertical CNC Lathe
OKUMA	2SP-V80R	φ 800×840L	Vertical CNC lathes with 2 Spindles
OKUMA	V60R	φ 610×660L	Vertical CNC Lathe
Yamazaki Mazak	MEGA TURN 600M	φ 600×550L	Vertical CNC lathes, multi-tasking
Yamazaki Mazak	MEGA TURN 900MS	φ 920×800L	Vertical CNC lathes, multi-tasking

CNC Lathes NC旋盤

Manufacturer	Model	Swing and center distance	Remarks
OKUMA	LH55-N	φ 685×4000L	CNC Lathe
OKUMA	LU45-M(1)	φ 660×3000L	4 axis control CNC lathe, multi-tasking
OKUMA	LU45-M(2)	φ 660×2000L	4 axis control, multi-tasking
OKUMA	LB45- II-M	φ 660×2000L	Multi-tasking NC lathe
OKUMA	SIMUL TURN LU400-M	φ 420×2000L	4 axis control CNC lathe, multi-tasking
OKUMA	LB45III	φ 660×1000L	CNC Lathe
OKUMA	LB3000EX II	φ 340×1000L	CNC lathes,multi-tasking
OKUMA	LB35- II	φ 490×850L	CNC Lathe
OKUMA	SPACE TURN LB3000EX	φ 410×500L	2 sets (on is multi-tasking)
Yamazaki Mazak	QUICK TURN SMART350	φ 420×614L	CNC Lathe
Yamazaki Mazak	SLANT TURN 500	φ 1040×4000L	CNC Lathe

Multi-Tasking Machines 複合加工機

Manufacturer	Model	Maximum work size	Remarks
Yamazaki Mazak	INTEGREX e-1060V/8	φ 1250×1250L	With 2 automatic pallet changers
Yamazaki Mazak	INTEGREX e-670H	φ 1070×4000L	Simultaneous 5-axis control 2 Spindles
Yamazaki Mazak	INTEGREX e-420H II	φ 670×3060L	2 sets, simultaneous 5axis control
Yamazaki Mazak	INTEGREX i-400S	φ 658×1519L	Simultaneous 5-axis control 2 Spindles
Yamazaki Mazak	INTEGREX i-200S	φ 658×1011L	Simultaneous 5-axis control 2 Spindles

Machining Centers マシニングセンター

Manufacturer	Model	Stroke: X-axis×Y-axis×Z-axis	Remarks
YASDA PRECISION TOOLS	YBM 8T-63TT	1000×1250×1100	Simultaneous 5-axis control with 5-pallet APC
DMG MORI	DMU 80 P duoBLOCK	800×800×800	Simultaneous 5axis control
DMG MORI	DMU 85 FD monoBLOCK	850×850×650	Simultaneous 5axis control with turning function
Yamazaki Mazak	VTC-800/30SR	3000×800×720	Simultaneous 5axis control
Yamazaki Mazak	MTV-655/60	1500×650×650	Vertical
Yamazaki Mazak	VARIAXIS i-700T	630×1100×600	Simultaneous 5-axis control with 10-pallet APC
Yamazaki Mazak	VCN-535C- II	1050×530×560	Robot KUKA KR 60-3
Yamazaki Mazak	VCS-530CLH	1050×530×510	Vertical

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### Machining Centers マシニングセンター

Manufacturer	Model	Stroke: X-axis×Y-axis×Z-axis	Remarks
Yamazaki Mazak	VCN410A-II	560×410×510	Vertical
TOSHIBA MACHINE	BTD200QF	1500×1200×700	Horizontal boaring machine
JTEKT	FH630SX	1000×800×850	With 2 automatic pallet changers, horizontal
MITSUI SEIKI	HU63A	900×800×800	With 6 automatic pallet changers, horizontal
MITSUI SEIKI	HS5A	800×560×560	With 6 automatic pallet changers, horizontal
TSUGAMI	FMA5-II	560×500×350	With 20 automatic pallet changers, horizontal

### Thread Rolling Machines ねじ転造盤

Manufacturer	Model	Maximum rolling capacity	Remarks
ORT	3RP120	120 tons	
TSUGAMI	R100	100 tons	
PROFIROLL	2-NTR60	60 tons	Computerized Numerically Controlled
TSUGAMI	T-ROL60	60 tons	
TSUGAMI	R30A	30 tons	General purpose
TSUGAMI	R17NC-II	17 tons	Computerized Numerically Controlled

### Grinding Machines 研削盤

Manufacturer	Model	Maximum work size	Remarks
TAIYO KOKI	NVG II-12CT	φ 1200×500L	CNC, vertical Multi-Process Grinding Machine
TAIYO KOKI	CVG-9	φ 900×600L	CNC, vertical Multi-Process Grinding Machine With 2 automatic pallet changers
SHIGIYA	GP-45B	φ 450×3000L	CNC cylindrical grinder with a handle
SHIGIYA	GPH-40・150	φ 325×1470L	CNC cylindrical grinder with a handle
KONDO	CR-1300	φ 200×1300L	Cylindrical grinder
KONDO	GLOSS-1200	φ 200×1200L	Cylindrical grinder
NISSHIN KOKI	GRI-1000N II	φ 500×500L	CNC horizontal internal grinder
Toyo Advanced Technologies	T-123B	φ 300×300L	Internal grinder
HEALD	273A	φ 200×150L	Internal grinder
AMADA WASINO	SS-501	φ 550×190L	Rotary grinder
AMADA WASINO	SG-105A	500×1000L	Surface grinder
Okamoto Machine Tool Works	PSG-6FJA	600×400L	Surface grinder

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**Sawing Machines** のこ盤

Manufacturer	Model	Maximum work size	Remarks
AMADA	ASPC430X	φ 30 × φ 330 × 1500L	With an automatic loader /unloader with automatic marking
AMADA	CMII 100DG	φ 100	Carbide-tipped circular saw machine
AMADA	PCSAW330	φ 330 □ 330 × 330	With RT conveyor
AMADA	H-550E	φ 460 □ 550 × 460	Horizontal Descending Semi-Automatic Metal Cutting Band Saw

**Gun Drilling Machine** ガンドリル

Manufacturer	Model	Available bit sizes	Maximum work length
Techno Kawahara	KS-912 Gun Drilling Machine	φ 11.5 φ 12.5 φ 14.5 φ 15 φ 16 φ 18 φ 19 φ 21 φ 23 φ 24 φ 25 φ 26 φ 28 φ 32	1000L

**Lathes ・ Milling Machines** 旋盤・フライス盤

Manufacturer	Model	Maximum work size	Remarks
NITTO POLYGON	NCP-280	φ 120 × 80L	Polygon machine
Takisawa Machine Tool	TAC-800	φ 820 × 3052L	CNC Manual lathe
Takisawa Machine Tool	TAC-560	φ 300 × 1000L	CNC Manual lathe
Mitsubishi Oerlikon	DMB	φ 400 × 800L	Copying lathe
DAINICHI KINZOKU KOGYO	DLG-SHB	φ 750 × 2000L	General lathe

**Powder Plasma Transferred Arc Welding ・ Others** 粉体プラズマ肉盛溶接機・その他

Manufacturer	Model	Specification	Classification
NIPPON STEEL WELDING & ENGINEERING	NW-350AH-III	With a robot positioner	Powder Plasma Transferred Arc Welding
Seibu Electric	M750S	Maximum work size: 900 × 700 × 250	wire electric discharge machine
EASTAR MACHINE TOOLS	CNC-350	Travel of ram: 350 mm with CNC rotary index (Table diameter: φ 560)	Slotter
OSG	OZT-3 600		Tool pre-setter
NIHON TOKUSHU KOUGYO	NCR-1500MM	work size: φ 16 ~ φ 130 work length: 150L ~ 1500L	Centering machine
OSAKA JACK	500KNC	Pressing capacity: 100 ~ 500KN	Straightening machine
DAIHEN	Almega AX-MV6 & AXPE301-JC		Welding robot & positioner
DAIHEN	INVERTER ELECON 500P	Can weld aluminium	TIG welding machine
TechnoCoat	TL-150N		YAG Laser Welder
KEYENCE	MD-F5200	Marking area : 125 × 125 × 42mm	Fiber laser marker
AMADA	SPH-30	30tons Stroke 100mm	Machine hydraulic press
AMADA	V-400		Contour machine

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Painting Equipment 塗装設備

Manufacturer	Equipment type	Specifications	Remarks
NIHON PARKERIZING	Painting booth	W4100×H3050×L3450	
NIHON PARKERIZING	Baking booth	W2425×H2500×L1300	
NIHON PARKERIZING	Baking booth	W2200×H2500×L3500	

Testing Equipment 検査機器

Manufacturer	Model	Specifications	Classification
TOKYO SEIMITSU	CONTURA10/12/6	Measuring range: 1200×1000×600 With rotating scanning probe	Coordinate measuring machine
Mitutoyo	SJ-310	Measuring range : 360 μ m (-200 μ m ~ +160 μ m)	Surface roughness tester
Mitutoyo	CV-1000	Measuring range : X-axis: 50mm Z-axis: 25mm	Contour measuring instrument
KEYENCE	VHX-7000	20 x to 200 x, 100 x to 1000 x	Digital microscope
KEYENCE	IM-7030T	200mm×200mm ±1um	Image dimension measurement system
KEYENCE	XM-5000	2000×1200×1000mm	Handy Coordinate measuring machine
RYOSHO	UI-27	Flaw detection frequency : 2 4 5 MHZ	Ultrasonic flaw detector
Eishin Kagaku	SA-40H	Output power : DC4000A AC3000A	Magnetic particle flaw detector
Proceq	Echo Chip 3	Measuring range (D-type impact tester) HB81~654	Headness testing machine
JFE Advantech	SH-22-S004	Measuring range: Vickers hardness: 400 to 1000 HV	Hand-held hardness tester
Nakai Precision Machinery Mfg	NBH-3	Test Force: 4903N~29420N	Brinell hardness tester
Mitutoyo	HM-210	Test Force: 98.07mN~9807mN	micro Vickers Headness testing
Rigaku Corporation	Niton XL5 Plus	alloy • for Pure Metal	portable fluorescence

Accuracy Measuring Device For Machine Tools 工作機械精度計測装置

Manufacturer	Model	Specification	Classification
RENISHAW	XL-80 Laser measuring System	Positioning : ±0.5ppm (0°C ~ 40°C)	Accuracy measurement device for machine
RENISHAW	QC20-W Ball Bar System	Ball Bar measuring accuracy : ±1 μ m	Roundness measuring machine
RENISHAW	XR20-W Rotation axis indexing angle measurer	Measurement accuracy : ±5 μ m/m	Indexing angle measuring device

Computer Aided Design & Computer Aided Manufacturing CAD/CAM

Manufacturer	Software	Specification	Remarks
CG-Tech	VERICUT	a cutting simulation software	
OPEN MIND	hyper MILL	3D CAD/CAM 5-axis : 2sets, 5-axis + lathe : 1set	CAD/CAM software
MYC	CAMBASE	3D CAD/CAM	CAD/CAM software
TACTEX	WinMAX	CAD/CAM	CAD/CAM software
OKUMA	ADMIC-Parts	CAD/CAM	CAD/CAM software
Solid Works	Solid Works 2018	3D CAD	CAD software
AutoCAD LT	AutoCAD LT 2015	2D CAD	CAD software
CNC Software	Mastercam	3D CAD/CAM	CAD/CAM software