

■ Major Equipment List

Vertical CNC Lathe ターニング

Manufacturer	Model	Maximum work size	Remarks
OKUMA	V100R	φ 1000×890L	
OKUMA	2SP-V80R	φ 800×840L	2 Spindles
OKUMA	V60R	φ 610×660L	

CNC Lathe 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	Complex NC lathe
OKUMA	LB35-2-M ATC-Y	φ 450×2000L	NC lathe with ATC
OKUMA	SIMUL TURN LU400-M	φ 420×2000L	4 axis control CNC lathe, multi-tasking
OKUMA	LC40	φ 450×1000L	
OKUMA	LB300-M	φ 340×1000L	
OKUMA	LB35-II	φ 490×850L	
OKUMA	SPACE TURN LB3000EX	φ 410×500L	2 sets (on is multi-tasking)
Yamazaki Mazak	QUICK TURN SMART350	φ 420×614L	

Multi-Tasking Machine 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-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 Center 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	1300×1000×1100	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 w/ cutting function
Yamazaki Mazak	VTC-800/30SR	3000×800×720	Simultaneous 5axis control
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
Yamazaki Mazak	VCN410A-II	560×410×510	Vertical

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Machining Center マシニングセンター

Manufacturer	Model	Stroke: X-axis×Y-axis×Z-axis	Remarks
Ohtorikiko	BMV-500ANC	1200×500×500	Vertical
Enshu	VMC530-II	1000×530×560	Vertical
TOSHIBA MACHINE	BTD200QF	1500×1200×700	Horizontal boaring machine
JTEKT	FH630SX	1000×800×850	With 2 automatic pallet changers, horizontal
NITSUI SEIKI	HU63A	900×800×800	With 6 automatic pallet changers, horizontal
NITSUI SEIKI	HS5A	800×560×560	With 6 automatic pallet changers, horizontal
TSUGAMI	FMA5-II	560×500×350	With 20 automatic pallet changers, horizontal
TSUGAMI	MA5-5FP	360×400×330	With 10 automatic pallet changers, horizontal

Thread Rolling Machine ねじ転造盤

Manufacturer	Model	Maximum rolling capacity	Remarks
ORT	3RP120	120トン	
TSUGAMI	R100	100トン	
PROFIROLL	2-NTR60	60トン	Computerized Numerically Controlled
TSUGAMI	T-ROL60	60トン	
TSUGAMI	T-ROL25	25トン	
TSUGAMI	T-ROL15D	15トン	

Grinding Machine 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	T-123B	φ 300×300L	Internal grinder
HEALD	273A	φ 200×150L	Internal grinder
AMADA	SS-501	φ 550×190L	Rotary grinder
AMADA	SG-105A	500×1000L	Surface grinder
Okamoto Machine Tool Works	PSG-6FJA	600×400L	Surface grinder
ohmiya-machinery	18BR-200	φ 60×200L	Centerless grinder

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Sawing Machine のこ盤

Manufacturer	Model	Maximum work size	Remarks
AMADA	HFA-400LCNC	φ 30～φ 280×1300L	W/ automatic loader/ under w/ automatic puncheon
AMADA	CM100-AN	φ 15～φ 100、□15～□95	Chip saw
AMADA	PCSAW330	φ 330、□330×330	With RT conveyor

Gun Drilling Machine ・ Boring&Trepannig Association Machine ガンドリル・BTA

Manufacturer	Model	Available bit sizes	Maximum work length
Techno Kawahara	KS-912	φ 11.5、φ 12.5、φ 14.5、φ 15、φ 16、φ 18、φ 19	1000L
	Gun Drilling Machine	φ 21、φ 23、φ 24、φ 25、φ 26、φ 28、φ 32	
WEI HONG	TPA-1000	φ 20～φ 140、φ 200、φ 220、φ 240	500L
	Boring&Trepannig Association Machine	φ 250、φ 260、φ 270、φ 280、φ 300	

Lathe ・ Milling Machine 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 engine lathe
Takisawa Machine Tool	TAC-560	φ 300×1000L	CNC engine lathe
Mitsubishi Oerlikon	DMB	φ 400×800L	Copying lathe
DAINICHI KINZOKU KOGYO	DLG-SHB	φ 750×2000L	General lathe
WADA KIKAI	WHN-400NCR	400×400×130	Double-headed side milling lathe
SHIZUOKA MACHINE TOOL	VHR-A	820×300×450	Vertical milling lathe

Wire-Electrical Discharge Machine ・ Other Equipment ワイヤ放電加工機・その他

Manufacturer	Model	Specification	Classification
Seibu Electric	M750S	Maximum work size: 900×700×250	wire electric discharge machin
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 alminium	TIG welding machine
TechnoCoat	TL-150N		Lather welcing mechine
KEYENCE	MD-V9920		KVO4 laser marker
AMADA	SPH-30	30tons, Stroke 100mm	Machine hydraulic press
AMADA	V-400		Contour machine
AMADA	SCP-100H	Pressing capacity: 980KN	Automatic compressor of turnings

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Painting Equipment 塗装設備

Manufacturer	Equipment type	Specifications	Remarks
NIHON PARKERRIZING	Painting booth	W4100×H3050×L3450	
NIHON PARKERRIZING	Baking booth	W2425×H2500×L1300	
NIHON PARKERRIZING	Baking and drying furnace	W2200×H2500×L3500	

Inspection 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 $\mu\text{m}(-200\mu\text{m}\sim+160\mu\text{m})$	Surface roughness tester
Mitutoyo	CV-1000	Measuring range : X-axis:50mm Z-axis:25mm	Contour measuring instrument
Proceq	Echo Chip 3	Measuring range (D-type impact tester) HB81~654	Headness testing 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
KEYENCE	LS-7070MT	Measuring range: 0.5~65mm, Resolution : $\pm 0.2\mu\text{m}$	Digital measurement device
JFE Advantech	SH-22-S004	Measuring range: Vickers hardness 400 to 1000 HV	Hand-held hardness tester

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

Manufacturer	Model	Specification	Classification
RENISHAW	XL-80 Laser measuring System	Positioning : $\pm 0.5\text{ppm}(0^{\circ}\text{C}\sim 40^{\circ}\text{C})$	Accuracy measurement device for machine
RENISHAW	QC20-W Ball Bar System	Ball Bar measuring accuracy : $\pm 1\mu\text{m}$	Roundness measuring machine
RENISHAW	XR20-W Rotation axis indexing angle measurer	Measurement accuracy : $\pm 5\mu\text{m}/\text{m}$	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 : 2setx, 5-axis + lathe : 1set	CAD/CAM software
MYC	CAMBASE	3D CAD/CAM	CAD/CAM software
TACTEX	WinMAX	CAD/CAM	CAD/CAM software
OKUMA	ADMAC-Parts	CAD/CAM	CAD/CAM software
Solid Works	Solid Works 2018	3D CAD	CAD software
AutoCAD LT	AutoCAD LT 2015	2D CAD	CAD software