

## <List of main facilities and machines>

As of the end of March 2019

	Facility name	Main facility	Total
Cutting machines	Multi-tasking CNC lathe (with automatic material supply device)	Citizen Cincom M32/C16	668
	Multi-tasking CNC lathe	Okuma LB-300MY	
	CNC lathe	Okuma LB3000 EX	
	CNC lathe (with automatic material supply device)	Citizen A32-VII / A-16 IP	
	5-axis Multi-tasking machine	DMG MORI NTX2000, NTX1000	
	5-axis Machining center	Yasda YMC-430	
	Machining center	Makino IQ500, IQ300, V22, V33	
	Jig borer	Yasda YBM640V-PC, YBM640V Ver.IV	
	NC milling machine	Yamasaki Giken YZ-352R	
	Milling machine	Makino KSJP-55	
	Gun drill machine	Hi-tak TGS-500DR-2SS	
Other cutting machine	Lathes, band saws, engraving machines, drilling machines		
Grinding machines	CNC profile grinder	Waida SPG-Wi	1,149
	CNC centerless grinder	Micron machinery MD-450SP-CNC	
	CNC forming grinder	Amada machine tools TECHSTER D3	
	CNC DedTru grinder	Amada machine tools MEISTER G3	
	CNC surface grinder	Kuroda precision GS-45PFNC	
	CNC cylindrical grinder	Jtekt GE4Ai-50	
	CNC internal surface grinder	Taiyo Koki IGH-2HT	
	CNC polygon grinder	Shigiya GPES-30B•25	
	Centerless grinder	Micron machinery MD-600III-SP	
	Cylindrical grinder	Shigiya GP-30B. 40A	
	Special cylindrical grinder	ROLLOMATIC SharpSmart NP5	
	Internal surface grinder	Yamada Koki YIG-20-M	
	Forming grinder	Okamoto PFG-500DXAL II	
	Surface grinder	Okamoto PSG-63DX	
	DedTru grinder	Amada machine tools TF-M1	
	Punch tool grinder	ANCA PGX+	
	Precision universal tool grinder	EWAG WS-11	
Other grinder	Toyo Kenmazai Kogyo SMAP-II		
Electrical discharge machines	CNC die sinking electrical discharge machine	Makino EDAF3	203
	CNC wire electrical discharge machine	Sodick ALN600Q	
	CNC fine hole electrical discharge machine	Sodick K3HN	
Heat treatment facilities	Vacuum heat treatment furnace	IHI NQC-40/40/65	79
	Vacuum tempering furnace	IHI NVPT-42/40/65	
	Tempering furnace	Thermal RBA-60	
	Sub-zero treatment tank	Taiyo Nippon Sanso CMS-175	
	Washing equipment	Aqua chemical CONCEPT-V	
Surface treatment equipments	PVD equipment	NACHI-FUJIKOSHI SS-2-8N	22
	Radical nitriding equipment	Japan Electronics Industry JRN-4040VS	
	Hard chrome plating equipment	Hard chrome plating equipment	
Inspection and measuring instruments	3-dimensional measuring instrument	Carl Zeiss CONTURA 700 7/7/6 G2 AKTIV	878
	Roundness measuring instrument	Mitutoyo RA-2200AH	
	Surface-property measuring instrument	Mitutoyo SV-C3200H4	
	Contour measuring instrument	Tokyo Seimitsu SURFCOM NEX	
	CNC Video Measuring System	Nikon NEXIV VMR3020 type 2	
	Projector	Mitutoyo PV-600A	
	Measuring microscope	Mitutoyo MF-A3017D	
	Stereo microscope	Nikon SM5	
	Metal structure microscope	Union Optical VERSAMET3	
	Hardness meters	Shimadzu HMV-1ADW	
	High precision micro measuring instrument	Union Tool DS-2000	
	Length measuring instrument	Nikon MF-1001	
	Digital microscope	Keyence VHX-1000/1100	
Desktop Scanning Electron Microscope	JEOL JCM-6000		
X-ray fluorescence analyzer	JEOL JSX-3100R II		