

Tooling Equipment List

TYPE	MAKER	NAME	QTY	WORK SIZE	OTHER
Multi Axis Lathe	DMG MORI	NTX 1000 2ndGen	1	ø65, Z400	5-Axis Milling*2
	TSUGAMI	M08SY-II	1	ø65, Z200	*2
	OKUMA	LB-3000 EXII	1	ø65, Z200	*2
	HITACHI SEIKI	Hicell B-65	1	ø65, Z300	
	STAR MICRONICS	SR-20IV	1	ø20	Swiss Type*1
	STAR MICRONICS	SR-20	1	ø20	Swiss Type*1
	CITIZEN	L16	3	ø16	Swiss Type*1
	CITIZEN	L12-VII	2	ø12	Swiss Type*1
Automatic Lathe	OKUMA	LCS-15	2	ø38, Z100	
	TSUGAMI	B0-12	2	ø12, Z40	Swiss Type GB Less
CNC Lathe	TAKAMAZ	XL-100	1	ø80, Z600	
	TAKAMAZ	Mini turn	2	ø60, Z600	
	TAKAMAZ	XC-100	1	ø80, Z600	
3 Axis MC	ROKU-ROKU	CEGA	1	X300, Y200, Z150	
	FANUC	Robodrill	1	X200, Y200, Z150	
Bench Lathe	AKEBONO	Type 5	4	ø12	
	AKEBONO	Type 6	2	ø16	
	KITAMURA	Type 8	2	ø20	
Form Rolling			2		
General Tooling					
Ultrasonic Grinder	MINITOR		1		
Micro Grinder	MINITOR		2		
Centrifugal Barrel	Tipton		1		
Vacuum Wash	TOSEI		1	X300, Y400, Z200	Hydrocarbon Solvent

* Standard work size may be smaller than maker specifications.

*1 Work L length is of machinable length for swiss type.

*2 OD 65mm for bar stock work, 120mm for chuck work.



QC Equipment List

TYPE	MAKER	NAME
CMM	TESA	Micro-Hite3D DUAL
	KEYENCE	VR-5200
Imaging MM	Mitutoyo	MF-U
	KEYENCE	IM-6225T
	KEYENCE	LM-1100
Contour MM	Mitutoyo	CV3100
Roundness MM	TOKYO SEIMITSU	RONDCOM 41C
Projection MM	Mitutoyo	PJ300 NikonV-12A
Digital Height	Mitutoyo	QM-Height 350
Surface MM	Mitutoyo	SJ-410
Tool Microscope	Mitutoyo	TM-501
Spectro-photometer	KONICA MINOLTA	CM-700d

TYPE

Pin Gauge 0.01 Units

Thread Gauge [Metric, UN, UNJ, Pipe, Witt, etc.]

Various Micrometers

Digital Indicator

Cylinder Gauge

Dial Gauge

Stereo Microscope

Magnifying Glass

Materials

We will proactively consider machinable materials not listed here. We can handle materials with specifications in AMS, ASTM, DIN, EN, ISO as well as temper codes for aluminum. Mill certificates available upon request.

Steel

Steels / Stainless Steels / Alloys

15-5PH	SKD61	ASK-3200	SUS347	X7CrNiAl17-7
17-4PH	SKH2	ASK-500F	SUS403	X7CrS17
DC53	SKH51	ASTM F899	SUS416	NCF 600
HAP40	SKH55	Custom465	SUS420F	NCF 625
HPM38	SKS3	DIN 2.4066	SUS420J	NCF 718
KRN-1	SKS31	DIN 2.4068	SUS420J2	NCF 750
M50	SNC415	EN1,4028	SUS430	NW 2200
MAS1C	SNC815	EN1.4005	SUS430F	NW 2201
ME-1F	SNCM420	EN1.4016	SUS440C	Ni-201
NAK55	SNCM439	EN1.4021	SUS630	Ni-Fe
NAK80	SNCM630	EN1.4029	SUS631	UNS N02200
S10C	SS400	EN1.4307	SUS904L	UNS N02201
S20C	SS41	EN1.4401	SUSY347	UNS N06600
S25C	STKM13A-S	EN1.4404	UNS S41600	UNS N06625
S35C	STPT410	EN1.4542	UNS S42020	UNS N07718
S45C	SUH31	EN1.4568	UNS SS40300	UNS N07750
S55C	SUJ2	EN1.4301	X10CrNiS18-9	UNS N10276
SACM645-QT	SUM23	EN1.4325	X110Cr17	Inconel 600
Sandvik 20AP	SUM24	SF20T	X12CrS13	Inconel 625
SCM415	SUM24L	SR430F	X20Cr13	Inconel 718
SCM420	SUM32	SR6F	X2CrNi18-9	Inconel X750
SCM435	SUM32L	S-STAR	X2CrNiMo17-12-2	Invar
SCM440	AISI403	SUS303	X30Cr13	Kobar
SGD3	AMS5639	SUS304	X33CrS13	Permalloy
SGP6A	AMS5643	SUS304L	X5CrNi18-10	Hastelloy C-276
SK3	AMS5645	SUS316	X5CrNiCuNb16-4	
SK4	AMS5647	SUS316L	X5CrNiMo17-12-2	
SKD11	ASK-2300	SUS321	X6Cr17	

Non-Ferrous Materials

Aluminum / Copper / Titanium

A1050	C1011	C5341	W70 / Cu30	Copper Alloy Castings
A1070	C1020	C5441	Oiles #600	Oxygen-free Copper
A1100	C1100	C6161	Aluminum Bronze	Nickel Brass
A2011	C1220	C6191	Chrome Copper	AMS4928
A2017	C14500	C63000	Oxygen Free Copper	ASTM F136
A2024	C1720	C6801	Terellium Copper	TB340
A5052	C17510	C7941	Naval Brass	Ti-6Al-4V
A5056	C2700	CAC403 [BC3]	Beryllium Brass	TP340
A6061	C2801	CAC502C [BC6C]	Phosphor Bronze	TW340
A6063	C3602	CAC703C [ALBC3C]	Phosphorus Deoxidized Copper	Pure Titanium
A7075	C3604	CrCu	Lead-free Brass	Ti6Al4V
AMS4640	C4641	OFC	Brass	
BeCu25	C5191	MCZ	Free-cutting Phosphor Bronze	
BeCu50	C5212	Tungsten Copper Alloy	Free-cutting Brass	

Others

Resins

ABS	POM	Oiles #80	Delrin	Polycarbonate
MC Nylon	PPS	Duracon	Valfron	ReNy
PEEK	PTFE	Daifron	Bearee FL3000	Bakelite
PK450-GF	Acrylics	Teflon	Vespel SP-1	

Surface Processes and Heat Treatment

We offer surface process and heat treatment as required utilizing our partners for specialized processes. The list below is an example of treatments we have handled so far. We will consider treatments beyond this list by working with appropriate partners. Certified Processes are also possible upon request.

Processes

Anodizing [aluminum, hard anodizing, titanium anodizing]

Chemical Conversion Coating [Alodine, Iridite, Palcoat]

Plating [Ni, Cu, Au, Ag, In, Pd, Rn, Zn, Cr, Sn]

Surface Finish [MCF, electropolish, chemical mechanical polishing, buff polish, shot blast]

Heat Treatment [quenching, tempering, carbonization, nitriding, aluminum temper, stress relief]

Standardized Processes

Anodizing

MIL-A-8625 TypeI Class 1, MIL-A-8625 TypeI Class 2, MIL-A-8625 TypeIB Class 1, MIL-A-8625 TypeIB Class 2, MIL-A-8625 TypeII Class1, MIL-A-8625 TypeII Class2, MIL-A-8625 Type-III Class 1, MIL-A-8625 Type-III Class 2

Chemical Conversion Coating

MIL-DTL-5541F TypeI Class 1A/MIL-C-5541E Class 1A, MIL-DTL-5541F TypeI Class 3/MIL-C-5541E Class 3

Passivation

QQ-P-35, AMS QQ-P-35, AMS2700

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