

Equipment List

2/10/2017

1, Machining

Tokuda Industries Co., Ltd

	Designation		Axis No.	Objectives	Tyoe	Manufacturer	Feed Rate	Feed Rate	Motor	Spindle Speed	Travels			No.	Remarks	Location	Work piece
							(Cutting Feed Rate;	(Fast Feed; inch/min)			X Stroke(inch)	Y Stroke(inch)	Z Stroke(inch)				
1	Super large-sized machining center	HSM-MODAL	5 axes	CFRP/Resin/Duralumin/Steel system	Gantry	EEW	5900	5900	22	24000	670	200	120	1		Kani Plant	Parts
2	5 axes profiler	HPS-4B	5 axes	Duralumin/Steel system	Horizontal	SNK	400	400	30	15000	400	80	30	1		Kani Plant	Parts
3	5 axes profiler	RB-200F	5 axes	Duralumin/Steel system	Double column	SNK	480	480	50	15000	400	80	30	1		Head Office	Parts
3	5 axes profiler	HPS-4B	5 axes	Duralumin/Steel system	Horizontal	SNK	400	400	30	15000	160	80	30	1		Kani Plant	Parts
4	5 axes profiler	HPS120B	5 axes	Duralumin/Steel system	Horizontal	SNK	400	400	55	15000	176	55	30	1		Kani Plant	Parts
5	Machining center	PKM Tricept T805	5 axes	Duralumin/Steel system	Parallel link robot	PKM	3000	3000	107(17000rpm) 60(30000rpm)	30000	※10	※20	※6	1	※max. work size	Kani Plant	Parts
6	Machining center	a-81M	4 axes	Titanium/Steel system Hard cutting materials	Horizontal	Makino Milling Machine	1180	1180	37	8000	36	32	40	1	8 APC	Kani Plant	Parts
7	Machining center	Mycenter-H300SC	5 axes	Duralumin/Steel system	Horizontal	KITAMURA MACHINERY	370	940	9	10000	16	16	16	1	80 AWC	Kani Plant	Parts
8	Machining center	Mycenter-H300SC	5 axes	Duralumin/Steel system	Horizontal	KITAMURA MACHINERY	370	940	9	10000	16	16	16	1	40 AWC	Kani Plant	Parts
9	Machining center	YBM-800N	5 axes	Duralumin/Steel system	Horizontal	YASDA PRECISION TOOLS	400	790	18.5	18000	43	32	32	1	7 APC	Kani Plant	Parts
10	Machining center	AJV-25-404	3 axes	Duralumin/Steel system	Double column	MAZAK	240	470	7.5	6000	40	20	22	1	6 APC	Kani Plant	Parts
11	Machining center	VERTEX	5 axes	Titanium/Steel system Hard cutting materials	Double column	MITSUI SEIKI	1890	1890	7.5	15000	22	24	20	1		Kani Plant	Parts
12	Machining center	MP-2140	5 axes	Duralumin/Steel system	Double column	TOSHIBA	10,000	20,000	37	12,000	4,000	2,100	600	1	2 APC	Kani Plant	Parts
13	Machining center	A55	3 axes	Duralumin/Steel system	Horizontal	MAKIMO	8,000	40,000	18.5	20,000	560	560	560	1	21 AWC	Kani Plant	Parts
14	Machining center	C30U	5 axes	Titanium/Steel system Hard cutting materials	Double column	HERMLE	60,000	60,000	15	18,000	650	600	500	1	20 AWC	Kani Plant	Parts
15	Multitasking machine	INTEGREX e-1060V /8	5 axes	Titanium/Duralumin/Steel system	Double column mill-turn	MAZAK	1575	1575	37	10000	74	41	53	1		Kani Plant	Parts
16	Multitasking machine	INTEGREX 300-IV	5 axes	Duralumin/Steel system	Turn-Mill	MAZAK	1380	1380	22	12000	25	9	43	1		Kani Plant	Parts
17	Multitasking machine	INTEGREX 300-III	5 axes	Duralumin/Steel system	Turn-Mill	MAZAK	1380	1380	18.5	12000	25	9	43	1	60 AWC	Kani Plant	Parts
18	Multitasking machine	INTEGREX 300-IIy	5 axes	Duralumin/Steel system	Turn-Mill	MAZAK	790	790	11	10000	25	9	43	1		Kani Plant	Parts
19	Multitasking machine	INTEGREX I200S	5 axes	Duralumin/Steel system	Turn-Mill	MAZAK	1575	1575	22	12000	24	10	43	1		Kani Plant	Parts
20	5-face machining center	RB-6VM	3 axes	Duralumin/Steel system	Double column	SNK	236	315	22	6000	315 (※433)	138	71	1	※work size	Kani Plant	Parts
21	Machining center	DC-3FSM	3 axes	Duralumin/Steel system	Double column	SNK	236	470	15	6000	130	71	40	1		Kani Plant	Parts
22	Elongated machining tool	PZ-CNC8000	3(+1) axes	Duralumin	Vertical column feed	PRATIC Co. (Customized)	590	1970	7.5	10000	315	18	20	1		Kani Plant	Parts
23	5 axes profiler	MM2600W	5 axes	CFRP/Resin	Double column	SEKITECH	315	400	7.5	12000	158	98	40	1		Head Office	Tooring
24	5 axes profiler	MM2000	5 axes	CFRP/Resin	Double column	SEKITECH	236	400	3.7	20000	138	77	35	1		Head Office	Tooring
25	NC router	NCS-47-1	3 axes	CFRP/Resin	Double column	KIKUKAWA IRON WORKS	236	400	3.7	8000	80	48	28	1		Kani Plant	Parts
26	5 axes NC router	MCS-48-1	5 axes	CFRP/Resin	Double column	KIKUKAWA IRON WORKS	236	400	3.7	8000	114	71	26	1		Kani Plant	Parts
27	NC router	NC145	3 axes	CFRP/Resin	Double column	SHODA IRON WORKS	236	470	3.7	18000	96	63	20	1		Head Office	Parts
28	NC milling machine	FMB-40	3 axes	Duralumin/Steel system	Vertical	OKUMA&HOWA MACHINERY	120	315	5.5	2500	32	16	16	1		Head Office	Tooring
26	Machining center	PCV-40	3 axes	Duralumin/Steel system	Vertical	OKK	200	630	7.5/5.5	6000	20	16	16	1		Kani Plant	Parts

Equipment List

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[URL://http://www.tokuda.co.jp/en](http://www.tokuda.co.jp/en)

2, Measuring

	Designation		Specifications						Remarks
				Tyoe	Manufacturer	Measuring Range			
						X (inch)	Y (inch)	Z (inch)	
1	Three Coordinate Measuring machine	MDX-2000# 1		Gantry	SNK	120	80	40	with Laser Scanning
2	Three Coordinate Measuring	MDX-2000# 2		Gantry	SNK	160	80	40	
3	Noncontact Laser measuring Tool	Laser Tracker		I O N	F A R O				
4	Layout machine				Tokyo Boeki Group etc.				

3, Others

	Designation		Specifications						Remarks
			Performance	Tyoe	Manufacturer	Size (inch)			
						X	Y	Z	
1	Plasma cutter		6,613 Lbs to 11,0231 Lbs (4,409 Lbs to 22,0462 Lbs at rights)			410	130		
2	Automatic welding machine			Auto TIG	DAIHEN Corporation	410	130	59	
3	Die Spotting Press	CDS-2015	Lifting: 26,455 Lbs Pressure: 44,092 Lbs		Abe Precision Inc	80	60	63	slide stroke 55.11 inch
4	Die Spotting Press	CDS-2818-50S/180	Lifting: 26,455 Lbs Pressure: 44,092 Lbs	Reversal	Abe Precision Inc	110	71	63	slide stroke 76.74 inch
5	Hot-air-circulating homothermal dry oven	SM-202-LC	40 to 300℃ (MAX)		SHINHO KAGAKU KIKAI	72	60	47	
6	Hot-air-circulating homothermal dry oven	SM-203-MC	40 to 300℃ (MAX)		SHINHO KAGAKU KIKAI	100	90	47	

6/25/2012'

4, Software

Tokuda Industries Co., Ltd

CAD system

	名称	License
1	CATIA V4	1
2	CATIA V5 R22	3
3	Tebis 3.4R4	1
4	ThinkDesign	8
5	CaelumⅢ	1

CAM system (5 axes machining)

	名称	License
1	CATIA V5 R22	2
2	SURF CAM V5	3
3	Tebis 3.4R4	1
4	Mastercam X2MR2	1
5	hyperMILL SP11	1
4	IMSpot Post making 7.2h	1

CAM system (3 axes machining)

	名称	License
1	CaelumKKen 4.5	5
2	WorkNC V20	1

Simulation

	名称	License
1	DELMIA V5 (DPM Assembly) R18	1
4	VERICUT Routing Simulation 7.1.2	1

CAT Reverse Engineering

	名称	License
1	CaelumCAT	3
3	Tebis 3.4R4	1
4	Metrolog V5 Measuring	1
5	RapidFormXOV2 2.1.5.0	1

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