

MACHINE LIST

UP DATE 01/05/2008

TYPE	MODEL	MAKER	QTY	STROKE			TABLE		WORK LOAD(Kg)	CAPACITY
				X	Y	Z	X	Y		
LATHE										
CNC	LCS 15	OKUMA	2	F155	-	320	-	-	640	±0.02
CNC	LB 15 II-M C500	OKUMA	1	F260	-	520	-	-	180	±0.02
CNC	LC - 30 IS	OKUMA	1	F450	-	1000	-	-	100	±0.02
CNC	V60R	OKUMA	1	F640		660			500	±0.02
CNC	LB400-TX300	OKUMA	1	F300		320			200	±0.02
CNC	NEXUS100	MAZAK	1	F170	-	320	-	-	150	±0.02
CNC	NEXUS150	MAZAK	1	F250	-	320	-	-	200	±0.02
CNC	NEXUS 250-II	MAZAK	1	F300		320			200	±0.02
CNC	CL - 253 A	MORI SEIKI	1	F260	-	500	-	-	167	±0.02
CNC	J1 + SR-0(N)	TECHNOWASINO	1	F50	-	200	-	-	5	±0.02
MANUAL	MS - 650	MORI SEIKI	1	F250	-	1075	-	-	100	±0.02
MANUAL	MS - 850	MORI SEIKI	1	F435	-	850	-	-	100	±0.02
		TOTAL	13							
MILLING										
CNC	MAC - 55 P - 3A	HAMAI	3	550	320	350	850	435	300	±0.05
CNC	MAC - 85 P - 3A	HAMAI	2	800	400	400	1000	500	500	±0.05
CNC	A - PRO MILL	NAMSUN	1	700	320	400	1100	280	300	±0.05
CNC	R - 5VN w/FANUK 20i	SHIZUOKA	1	820	520	410	1300	500	500	±0.02
MANUAL	IV - 500 F	INOUE	1	200	150	200	350	180	10	±0.1
MANUAL	HPF - V	HASEGAWA	1	300	120	300	360	260	30	±0.1
MANUAL	KT - 10	KANTO	1	550	300	400	865	250	400	±0.1
MANUAL	ST - BCV	SHIZUOKA	2	600	300	400	1000	250	400	±0.1
MANUAL	STM 2 R	OKUMA	1	710	300	410	1350	310	400	±0.1
ROUGHING	STRONG MILL-2V	HOWA SANGYO JAPAN	1	600	300	410	1350	310	300	±0.1
		TOTAL	14							

MACHINING - CENTER

VERTICAL	TV - 4	IKEGAI	1	560	410	400	700	420	300	± 0.05
VERTICAL	VR - 40 II	OKUMA	1	560	410	450	900	450	350	0.005-0.02
VERTICAL	MB - 46 VBE	OKUMA	1	762	460	460	760	460	700	0.005-0.02
VERTICAL	NV 5000 A / 40	MORI SEIKI	4	800	510	510	1100	600	1000	0.005-0.02
VERTICAL	NV 5000 a1A/50	MORI SEIKI	1	800	510	510	1100	600	1000	0.005-0.02
VERTICAL	VARIAXIS 630 5X - II	MAZAK JAPAN	1	730	510	510	F630	-	500	0.005-0.02
VERTICAL	VM - 4III	OKK	1	630	410	460	800	410	500	0.005-0.02
VERTICAL	BE 130	ENSHU	1	400	300	300	550	350	100	0.002-0.01
HORIZONTAL	M - H5B - S	MITSUBISHI	2	650	650	650	630	630	600	0.005-0.02
HORIZONTAL	MA - 60 HB	OKUMA	1	1000	800	810	630	630	-	± 0.05
		TOTAL	14							

GRINDING

CYCINDRICAL	GUP 32 - 50	TOYODA	3	F320	280	500	-	-	150	± 0.003
CENTERLESS	DC - 20 A	OMIYA	1	F100	-	-	-	-	50	± 0.003
SURFACE	NSG - 515 H	NIKKO	1	520	180	310	450	180	80	± 0.003
SURFACE	PFG - 500 C	OKAMOTO	3	520	180	310	315	110	80	± 0.003
SURFACE	PSG - 63 DX	OKAMOTO	1	750	340	400	605	300	420	± 0.003
SURFACE	ACC-450ST-C	OKAMOTO	1	530	175	-	-	-	-	± 0.003
SURFACE	ACC-84DX	OKAMOTO	1	805	400	-	-	-	700	± 0.003
INTERNAL	IGM-2MB	OKAMOTO	3	F200	-	500	-	-	50	± 0.003
ROTARY	ICB - 603	ICHIKAWA	2	F500	-	260	F700	-	200	± 0.003
SIDE	GX - 192	AMADA	1	F35	-	400	-	-	-	± 0.1
		TOTAL	17							

WIRE CUT

CNC	DWC - 90 C1	MITSUBISHI	1	250	300	160	500	600	150	± 0.02
CNC	FA 10	MITSUBISHI	8	350	250	220	590	514	500	± 0.005
CNC	FA 20	MITSUBISHI	6	500	350	300	780	630	1500	± 0.005
CNC	FA 20VM	MITSUBISHI	1	500	350	300	780	630	1500	± 0.002
CNC	FA 10SM	MITSUBISHI	1	350	250	220	590	514	500	± 0.005
CNC	FA 20SM	MITSUBISHI	3	500	350	300	780	630	1500	± 0.005
CNC	CX - 20	MITSUBISHI	3	500	350	300	740	590	800	± 0.01
CNC	α- OiCe	FANUC	1	320	220	180	650	450	180	± 0.05
		TOTAL	24							

OTHERS										
ELECTRODE MAKING	EMM 30	JAPAX	2	300	200	50	900	300	300	-
ELECTRODE MAKING	ZEM - 35 A	HSK	1	350	250	120	900	400	300	-
ELECTRODE MAKING	QT5640	GOLD SAN CHINA	1	300	200	50	900	300	300	-
ELECTRODE MAKING	QTK 5620G	GOLD SAN CHINA	1	300	200	50	900	300	300	-
HEAT TREATMENT	203620 - E 6 R	KOYORLNDBERG	3	400	400	400	-	-	200	-
HEAT TREATMENT	NVFCC - 450 PT	IHI	1	400	400	400	-	-	600	-
SLOTTER	NSP - 110	NAGABO	1	200	130	265	F240	-	-	-
SUPER DRILL	ST - 300	ELENIX	1	300	200	300	300	300	300	±0.1
SUPER DRILL	MEM - H8	MITSUBISHI	1	300	200	300	300	300	300	±0.1
CNC	3240T6H40	GOLD SAN CHINA	9	680	460	160	320	400	200	±0.015
CNC	GS 10A 4050 T6 H 40	GOLD SAN CHINA	2	360	460	150	200	250	1000	-
ROLL & FORM	R - 10A	TSUGAMI	1	100	-	300	-	-	50	-
PRESS M/C	TS - 603134	TAKSIN	1	-	-	160	750	500	PRESS : 60t	-
PRESS M/C	C1 - 8	AIDA	1	-	-	200	800	500	PRESS : 80t	-
		TOTAL	26							
DRILLING										
UPRIGHT	KDT - 360	KITAGAWA	2	F360	-	357	F275	-	50	±0.1
UPRIGHT	KDT - 410	KITAGAWA	1	F410	-	491	F325	-	50	±0.1
UPRIGHT	KUD - 550 FP	KIWA	1	F500	-	500	F500	-	200	±0.1
UPRIGHT	TPR-1100	TAILIFT TAIWAN	1	635	520	415	-	-	500	±0.1
		TOTAL	5							
EDM										
CNC	M 35 J	MITSUBISHI	1	350	250	250	700	500	500	±0.01
CNC	EA 12 ME	MITSUBISHI	8	400	300	300	700	500	700	±0.01
CNC	VX - 20	MITSUBISHI	1	500	350	350	750	600	1000	±0.01
CNC	EA - 22ME + FP60EA	MITSUBISHI	2	500	400	350	950	680	300	±0.01
CNC	EA-8M	MITSUBISHI	1	350	250	250	700	500	500	±0.01
CNC	JM322 + AZ50R + D320	JOEMARS TAIWAN	4	400	300	170	655	350	750	±0.05
CNC	JMNC60 + P100 + D60	JOEMARS TAIWAN	1	600	400	350	900	650	2000	±0.05
CNC	JMNC43A + P75 + D43	JOEMARS TAIWAN	1	400	300	350	650	400	800	±0.05
CNC	AQ55L + LN-1	SODICK	1	500	400	350	950	680	300	±0.01
MANUAL	DMR - 40	OKAMOTO	3	400	300	170	655	350	750	±0.1
		TOTAL	23							

HIGH SPEED MILLING

VERTICAL	MC 180 L	SODICK	1	300	400	300	400	500	100	±0.002
VERTICAL	MC 430 L	SODICK	1	420	350	200	600	400	60	±0.002
		TOTAL	2							

MEASURING

PROFILE	VT - 300 E	SHINKO SEIKI	1	200	200	200	350	350	50	±0.02
CMM	MH30D	HEXAGON	1	460	510	420	680	850	227	±0.001
CMM	F 604	MITUTOYO	1	600	450	300	830	550	350	±0.001
CMM	BH - V 504	MITUTOYO	1	500	400	400	680	850	160	±0.001
BEARING MEASUREMENT	TM249D - 2003	TOKYO MICRON	1	-	-	-	-	-	-	-
		TOTAL	5							

SAWING

VERTICAL	VA - 400	AMADA	2	-	-	400	500	695	50	±1.0
HORIZONTAL	C - 300 NC	COSEN	2	F300	-	300	-	-	300	±1.0
HORIZONTAL	C - 420 NC	COSEN	1	F450	-	450	-	-	450	±1.0
		TOTAL	5							

NC PROGRAM

FOR MC	IMX - A	SOFTECH	1	-	-	-	-	-	-	-
FOR MC	H - 1	HSK	1	-	-	-	-	-	-	-
FOR W/C	JAPT - 2 L	JAPAX	2	-	-	-	-	-	-	-
FOR W/C	Z - ONE	HSK	8	-	-	-	-	-	-	-
		TOTAL	12							

CAD-CAM

UG FOR MC	VERSION - 18	UNIGRAPHICS	4	-	-	-	-	-	-	-
UG FOR MC	VERSION - 19	UNIGRAPHICS	3	-	-	-	-	-	-	-
ADVANCECAD	VERSION - 14.2	CTC	1	-	-	-	-	-	-	-
WORK NC	VERSION - 15	SESCOI	2	-	-	-	-	-	-	-
TOPCAM	VERSION - 6.3	TOP CAD	2	-	-	-	-	-	-	-
TOPSOLID	VERSION - 6.3	TOP CAD	6	-	-	-	-	-	-	-
NC VERIFY	VERSION - 15	DATA DESIGN	7	-	-	-	-	-	-	-
PC HARDWARE	Z-ONE (WINDOWS)	HSK	6	-	-	-	-	-	-	-
PC HARDWARE	Z-ONE	YONEZAWA	2	-	-	-	-	-	-	-
		TOTAL	33							
		TOTAL MACHINE	193							

