

## HORIZONTAL MACHINE CENTERS

	Manufacturer	Name	Technical characteristics	Navigation System		
1	Tsugami (Japan) Year: 1997	Horizontal Machine Center Tsugami FMA3-II	10000 rpm, 64 tools, 10 pallets, 360x330x400	Fanuc FS 18iM	maf	-
2	Tsugami (Japan) Year: 1986	Horizontal Machine Center Tsugami A3.10	10000 rpm, 64 tools, 10 pallets, 330x250x400	Fanuc 11 M	maf	-
3	Tsugami (Japan) Year: 1985	Horizontal Machine Center Tsugami A3.10	10000 rpm, 64 tools, 10 pallets, 330x250x400	Fanuc 11M	maf	-
4	Tsugami (Japan) Year: 1988	Horizontal Machine Center Tsugami MA3.10	10000 rpm, 64 tools, 10 pallets, 330x250x400	Fanuc 6		-
5	Quaser Machine Tools (Taiwan) Year: 2003	Horizontal Machine Center Quaser MK 603H / 15	15000 rpm, 60 tools, 710x610x610 2 pallets	Fanuc 18iM	maf	-
6	Quaser (Taiwan) Year: 2005	Horizontal Machine Center Quaser MK603HP/ 10	10000 rpm, 64 tools, 710x610x610 2 pallets	Fanuc 18iMB	maf	
7	Okk (Japan) Year: 1985	Horizontal Machine Center Okk HM40	14000 rpm, 40 tools, 2 pallets, 620x560x560	Fanuc 16iM	-	-
8	Okk (Japan) Year: 2001	Horizontal Machine Center Okk HM40	14000 rpm, 40 tools, 2 pallets, 620x560x560	Fanuc 16iM	-	-
9	Enshu (Japan) Year: 2006	Horizontal Machine Center Enshu	15000 rpm, 60 tools, 2 pallets, 800x800x800	Fanuc 18iMB	maf	-

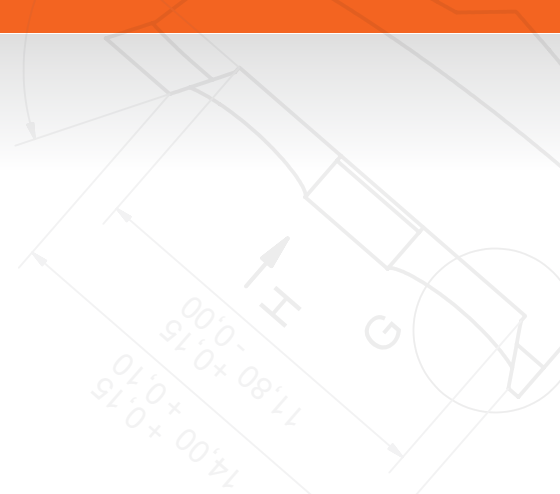


## VERTICAL MACHINE CENTERS

	Manufacturer	Name	Technical characteristics	Navigation System		
10	Enshu (Japan) Year: 1980	Vertical Machine Center Enshu E130	10000 rpm, 12 tools, 2 pallets, 400x300x300	Jasnak 50	maf	
11	Okk (Japan) Year: 1985	Vertical Machine Center Okk PCV-40	10000 rpm, 18 tools, 560x410x410	Fanuc 10M	-	-
12	Okk (Japan) MA40256X Year: 1985	Vertical Machine Center Okk PCV-40	10000 rpm, 18 tools, 560x410x410	Fanuc 10M	-	-
13	Quaser (Taiwan) Year: 2003	Vertical Machine Center Quaser MV204II/15	15000 rpm, 32 tools, 1020x600x560	Fanuc 21i	maf	-
14	Quaser (Taiwan) Year: 2004	Vertical Machine Center Quaser V204IIL / 15	15000 rpm, 32 tools, 1500x660x610	Fanuc 18iMB	maf	-
15	Dah Lih (Korea) Year: 1993	Vertical Machine Center Dah Lih MCV-720	6000 rpm, 16 tools, 720x460x510	Fanuc 0 MATM	-	-
16	Dah Lih (Korea) Year: 1986	Vertical Machine Center Dah Lih	6000 rpm, 16 tools, 10 pallets, 720x460x510	Fanuc 10M		-
17	Hermle (Germany) Year: 1999	Vertical 5 axis Machine Center Hermle C800U	18000 rpm, 32 tools, 800x600x500	Heidenhan	Siming	-
18	Feeler (Taiwan) Year: 2007	Vertical Machine Center Feeler	8000 rpm, 24 tools, 2 pallets, 800x510x505	Fanuc 0i		-

## CNC LATHES

	Manufacturer	Name	Technical characteristics	Navigation System		
19	Daewoo (Korea) Year:	CNC Lathe Daewoo Ecoturn 250HC	4000 rpm, 10 tools, max diameter for long bars 70mm	Fanuc 0T	-	-
20	Hardinge (USA) Year: 2000	CNC Lathe Hardinge Cobra 42	4000 rpm, 12 tools, max diameter for long bars 42mm	Fanuc 16i		-
21	Okuma (Japan) Year: 1985	CNC Lathe Okuma LB15	4000 rpm, 12 tools, max diameter for long bars 33mm	OSP5000L-G		-
22	Mori Seiki (Japan) Year: 1988	CNC Lathe Mori Seiki ZL-15S	4000 rpm, 18 tools, 2 spindles	Fanuc 11T		
23	Dyna Mechtronics (Sweden) Year: 1982	CNC Lathe Dyna Myte 3300	4500 rpm, 8 tools, max diameter for long bars 38mm	Micubisi	-	-
24	Mecatec Co (Korea) Year: 2002	CNC Lathe Doosan	4000 rpm, 10 tools, max diameter for long bars 102mm	Fanuc 21iTB		
25	Ikegai (Japan) Year: 1991	CNC Lathe Ikegai TUR15	4000 rpm, 12 tools, C-axis, max diameter for long bars 46mm	Fanuc 00T	maf	
26	Takisawa (Japan) Year: 2003	CNC Lathe Takisawa TMM-250	4000 rpm, 2x 15 tools, 2x C-axis, y- axis, max diameter for long bars 77mm	Fanuc 21i		
27	Mori Seiki (Japan) Year: 1985	CNC Lathe Mori Seiki AL-2.BTM	4000 rpm, 8 tools	Fanuc 10TE		
28	Takisawa (Japan) Year: 1984	CNC Lathe Takisawa TP3	4000 rpm, 10 tools, max diameter for long bars 65mm	Fanuc 3T	-	
29	Okuma (Japan) Year: 1995	CNC Lathe Okuma LB15 II	4500 rpm, 12 tools, max diameter for long bars 35mm			
30	YCM (Taiwan) Year: 2007	CNC Lathe YCM	3000 rpm, 12 tools	Fanuc txp-200e		
31	Hardinge (USA) Year: 1995	CNC Lathe Hardinge Conquiste T42	4000 rpm, 12 tools, C-axis, max diameter for long bars 42mm	Fanuc 18T		
32	Takisawa (Japan) Year: 1980	CNC Lathe Takisawa TS15	4000 rpm, 12 tools, max diameter for long bars 33mm	Fanuc 6T		
33	Ikegai (Japan) Year: 1991	CNC Lathe Ikegai TCR-15	4000 rpm, 8 tools	Fanuc 0T		



## CNC LATHES

	Manufacturer	Name	Technical characteristics	Navigation System		
34	Star (Japan) Year: 2010	CNC Swiss type Automatic Lathe Star SR-20jc	Dia.23mm, 7Axis I 10000 rpm II 8000 rpm Lmax = 205mm	Fanuc 18i-TB	-	-
35	Hyundai Kia (Korea) Year: 2006	CNC Lathe Hyundai Kia SKT 21L	4000 rpm, max diameter for long bars 65mm, 12 tools	Fanuc 21i-TB	-	-
36	Hyundai Kia (Korea) Year: 2005	CNC Lathe Hyundai Kia SKT 21	4000 rpm, max diameter for long bars 65mm, 12 tools	Fanuc 0i-TC		-
37	Hyundai Kia (Korea) Year: 2006	CNC Lathe Hyundai Kia SKT 21L	4000 rpm, max diameter for long bars 65mm, 12 tools	Fanuc 21i-TB		-
38	Tornos (USA) Year: 1994	CNC Swiss type Automatic Lathe Tornos ENC 264	Dia. 25,4	Fanuc 0TT-c		
39	Star (Japan) Year: 2011	CNC Swiss type Automatic Lathe Star SR-323	Dia. 32mm, 7 Axis I 7000 rpm II 7000 rpm Lmax = 310mm	Fanuc 18i-TB		



## OTHER MACHINES

	Manufacturer	Name	Technical characteristics	Navigation System		
40	Baublys (Germany) Year: 2001	Laser Engraving Machine Baublys BL150S/ NC500	Laser output = 150W. Material removal rate up to appx. 45mm <sup>3</sup> /min			
41	Agie (Switzerland) Year: 1990	Wire Erosion Machine Agie-AGIECUT 100D	Table travel: 300x580x200 Maximal Workpiece: 800x580x250	Agiematic Control System		
42	Hurco (Great Britain) Year: 1989	Spark Erosion Machine Hurco 900M	Table size 550x350mm Head Longitudinal travel:220mm Head Cross travel: 175mm Head Vertical travel: 280mm			-
43	Raskin (Switzerland) Year: 1993	Sheet Metal CNC Press Raskin RT312-20	30T press		-	
44	Raskin (Switzerland) Year: 1994	Sheet Metal CNC Press Raskin RT210-12	20T press		-	
45	Mitutoyo (Japan) Year: 2001	Coordinate Measuring Machine Mitutoyo EURO-C-A574	3 Coordinate 505x705x405-travel (2,9+0,3L/100)mm-sensibility		-	
46	Raskin (Switzerland) Year: 1994	Sheet Metal CNC Press Raskin RT210-12	20T press			
47	Fanuc (Japan) Year: 1999	Wire Erosion Machine Robocut α-OiA Fanuc	X 320/ 900mm/min Y 220/ 900mm/min Max: 25kg workpiece	Fanuc 18i-W		
48	Durma (Turkey) Year: 2011	Hydraulic Guillotine Shears Durma VS3010	Cutting capacity: 10mm Cutting length: 3080mm Cutting angle: 0°30'-2° Holddown force: 4-20T	Dalem DAC 350		
49	LVD (Belgium) Year: 2011	Precise Press Brake LVD	80T press L = 1500mm	CADMAN 3D Touch Screen		