

Company Major Equipment List

EDM CNC Wire Cutting

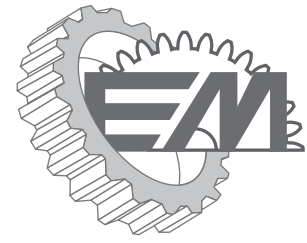
Model	M.F.G	Start-up	Capacity axis "X"	Capacity axis "Y"	Capacity axis "Z"	Cone	Electrical condition	Machine Code
Mitsubishi FA30V Capacity 5 axis Serial Number: J30M0061A	n/a	2005	29.50"	19.60"	26.00"	0-15@10.25"	13.50 kw	211
Charmilles-Robofil 440C Capacity 5 axis, Serial number: 121000, 11002410	n/a	2005	21.00"	13.00"	16.00"	0-45	5.00 kw	209
Mitsubishi FA30 Capacity 5 axis Serial Number 02A3M065	n/a	2003	29.50"	19.60"	26.00"	0-15@10.25"	13.50 kw	206
3 Charmilles- Robofil 500 Capacity 5 axis Serial number: 42045, (500A) Serial number: 42054, (500B) Serial number: 500012, (500C)	1994 1994 1994	1997 1994 1993	28.00"	16.00"	16.00"	0-45	12.00 kw	204 208 201
3 Charmilles- Robofil 300 Capacity 5 axis Serial Number: 300032, 300A Serial Number: 300054, 300B Serial Number; 300032, 300C	1992 1992 1992	1995 1994 1992	16.00"	10.00"	16.00"	0-45	12.00 kw	202 203 215
Charmilles- Robofil 290 Capacity 5 axis Serial Number: 330063	1995	1995	16.00"	10.00"	10.00"	0-30	12.00 kw	205
Charmilles- Robofil CF 600 Capacity 5 axis Serial Number: 91016/80118	n/a	1988	25.00"	15.00"	10.00"	0-30	5.00 kw	212

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

CNC EDM Sinking

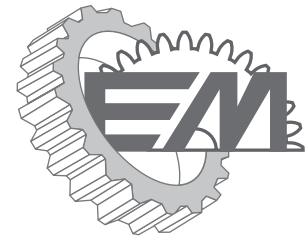
Model	M.F.G	Start-up	Capacity axis "X"	Capacity axis "Y"	Capacity axis "Z"	Electrical condition	Machine Code
Agie-CNC agie Mondo Star 50 Capacity 4 axis Serial Number: 2PM-001011	n/a	1998	20"	14"	14"	30 kW	251
Charmilles – Roboform C200 Capacity 4 axis Serial Number: 25298	1993	1993	9"	6"	9"	3 kW	253
Sodick A6CR Mark 5, FS A6CR with changer of tools Capacity 4 axis Serial Number: 440-184	n/a	1991	20"	16"	20"	15 kW	252
Sodick A3CR with changer of tools MODEL FS-A3C Mark 7 Capacity 4 axis Serial Number: M7RK233/SAC4266	1985	1990	12"	8"	10"	4 kW	255
Sodick A3C with changer of tools Mark 3, capacity 3 axis Serial Number: SA3C-163	1983	1989	12"	8"	10"	4 kW	254
Charmilles-Roboform 350 Capacity 4 axis Serial Number: 642930	2008	2008	13.78"	9.84"	11.81"	7.5 kW	256

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

CNC Milling

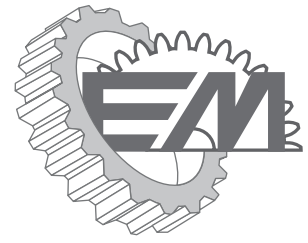
Model	M.F.G	Start-up	Capacity axis "X"	Capacity axis "Y"	Capacity axis "Z"	Electrical condition	Machine Code
Takumi Complete machining with 3 axis 10000 RPM Serial Number: k0133	2005	2006	126"	42"	30"	n/a	409
4 Hass VF-4 vertical machining center Complete machining with 5 axis 10000 RPM Serial Number: 1054532 Serial Number: 133506 Serial Number: 1050195 Serial Number: 1050783	2006 2003 2005 2006	2006 2006 2006 2006	50"	20"	20"	14.9 kW	420 405 414 415
Vertical centre machining Hass VF-5B/40 Complete machining with 4 axis complete 10 000 RPM Serial Number: 1073695	2008	2009	50"	26"	20"	n/a	404
Parpas HS-324 Complete machining with 6 axis 16000 RPM Serial Number: 32423	n/a	2005	95"	39"	38"	n/a	410
Horizontal center machining Mazak PFH-5800 Complete machining with 4 axis with switch of pallet, 15000 RPM Serial Number: 171593	2004	2004	28"	28"	29"	n/a	401
Vertical centre machining Hass VF-2 Complete machining with 5 axis complete 10000 RPM Serial Number: 27414	2001	2002	30"	16"	20"	n/a	407

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

CNC Milling (Cont'd)

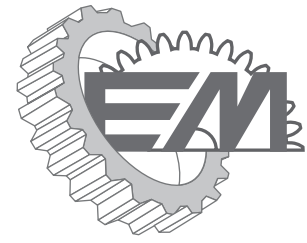
Model	M.F.G	Start-up	Capacity axis "X"	Capacity axis "Y"	Capacity axis "Z"	Electrical condition	Machine Code
Vertical centre machining Hass VF-6/40 Complete machining with 4 axis complete 10,000 RPM Serial Number: 23520	2001	2001	64"	32"	30"	n/a	406
Horizontal centre machining Toshiba With switch of pallet, 1,0000 RPM Serial Number: 212665 / 416033	n/a	1998	30"	24"	24"	n/a	402
Vertical machining Centre Matsura Model MC1000VF 1,0000 RPM Serial Number: 970212340	1997	1996	30"	16"	20"	15.80 kW	408
Mori-Seiki machining centre Complete machining with 4 axis complete, 6,000 RPM Serial Number: 29370S1N	1990	1990	16"	10"	16"	n/a	403

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

CNC Turning

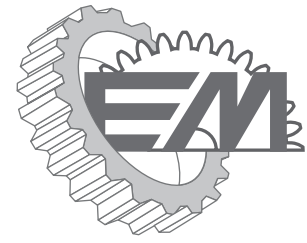
Model	M.F.G	Start-up	Chuck capacity with flexible collets	Chuck dia.	Diameter admitted above	Diameter admitted below	Diameter of max turning	Length of max turning	Electrical condition	Machine code
4 Lathe centre Nakamura-Tome SC 250M Complete capacity 3 axis, 2 spindles, 4,500 RPM Serial Number: 204402 Serial Number: 201106 Serial Number: 204401 Serial Number: 205004	1999 1999 1999 1999	2006 2006 2006 2006	2.5"	8"	18"	n/a	12"	18"	18 kw	116 111 112 113
Lathe centre Haas SL 20 Complete Capacity with 3 axis 4,000 RPM Automatic feeding attachment Serial Number: 65607	2002	2003	2"	8"	20"	9.5"	9.5"	20"	18 kw	101
Lathe centre Nakamura-Tome SC150S FANUC 21 I-Ta, bar LNS (automatique power), 2 spindles, 5,000 RPM Serial Number: 51500909	n/a	2000	2"	6"	26"	n/a	9"	26"	12 kw	115
Lathe centre Nakamura-Tome CNC SC-150M Complete capacity with 3 axis 5,000 RPM Provision of automatic feeding Serial Number: 150209	n/a	1999	2"	6"	26"	n/a	9"	26"	12 kw	114

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

CNC Turning (Cont'd)

Model	M.F.G	Start-up	Chuck capacity with flexible collets	Chuck dia.	Diameter admitted above	Diameter admitted below	Diameter of max turning	Length of max turning	Electrical condition	Machine code
Turning centre Nakamura-Tome SC 300M 3,500 RPM Serial Number: C21194	1997	1998	3"	10"	22"	18"	14"	22"	22 kw	110
Lathe centre Moi-Seiki Complete Capacity with 2 axis, 3,500 RPM Model: SL25 B5 Serial Number: 4479	n/a	1990	8" of Diameter x 18"							102
Nakamura Superturn Complete Capacity with 2 axis, 4,500 RPM Model: ST 2 Serial Number: C21714	1985	1990	8" of diameter x 18"							103

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

EDM Drilling

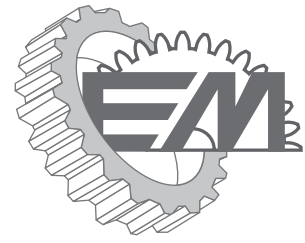
Model	M.F.G	Start-up	Minimum diameter	Capacity Axis "X"	Capacity Axis "Y"	Electrical condition	Machine Code
Drilling machine with small holes Japax SD-IM Super Drill 18" thickness Capacity Serial Number: 040550692/J	n/a	1997	.011"	14"	12"	n/a	311
Drilling machine with small holes Sodick NC K I CN Serial number: M029	1996	1997	.011"	14"	12"	n/a	301
Drilling machine with small holes Sodick NC KICN Serial number: 91111282	n/a	1992	.011"	10"	8"	n/a	302
HAAS Servo Controller S5C Serial number: 2523	n/a	1997	n/a	360	360	n/a	303

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Conventional Machinery

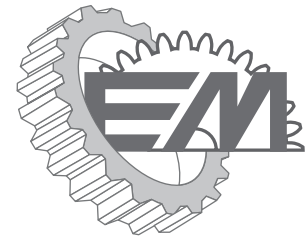
Model	Capacity	Electrical condition	Machine Code
Radial Drill Z I J Automatic Feed Model: Z3050x16 Ser: 04085069	Diameter 2" & 62 inch Arm length	n/a	312
Drill Press Strand S68	Diameter .03 to .50 inch 8 inch length stroke	0.9 kW	313
Micro drill press Serial Number TRW 1012	Diameter 0.02 in to .125 in	n/a	321
Dril Press FREDK POLLARD 1 axis, model 9FX Serial Number: 10333C	Diameter 0.02 in to .125 in	n/a	322
Drill Press CLAUSING, 4 axis Serial Number: 15-535704/5/6/7	Diameter de 1/8 in to 1/2 in		323
Drill Press Pollard with 6 axis Model 150A/6 Serial Number: 31485A	Diameter de 1/8 in to 1/2 in	n/a	324
Coronato 2 axis drill press Serial Number: 65988F7	Diameter 1/8 in to 1/2 in	n/a	325
BCLN horizontal drill press	Diameter .09 to .50 inch 8 inch length stroke	n/a	326
Graziano lathe – SAG 14 Serial number: 69288	Dia. of 20 Inch., diam of 14 Inch & 60 inch length table of the chuck: 8 Inch dia, & boring: 1-3/4 Inch.	3.9 kw	711
Schaublin Lathe Type 13 Type 102-80	Diameter of 8 inch & 8 inch length	n/a	712

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Conventional Machinery (Cont'd)

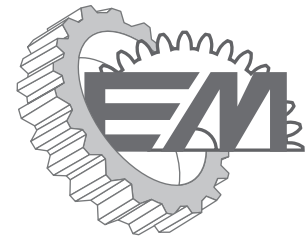
Model	Capacity	Electrical condition	Machine Code
Graziano SAG 14 lathe Serial number : 42201	Diameter 14" & 60" de length	3.9 kw	713
Percimaster DY 410 Serial Number: 860704	Dia, de 14 in & 40 in count length, Chuck capacity with flexible collet: 3 in Dia., boring Dia. : 3"	3.7 kW	715
Lathe Warnjer & Swarsey Microcut Serial Number: 2437222	Diameter 6" Max. and 10" max. length	n/a	733
Lathe : Harding HC Serial Number: LR-7039	Dia. 8" & 8" lg	2 & 3 kW	751
2 Précision Lathe Harding, Model HLV-H Serial Number: 14337-T Serial Number: 14892-T	Diameter de 8" & 20inch de longueur. Flexible Chuck collet Capacity : diam from 1/16" to 1-1/16"	n/a	704 703
Vertical Milling Bridgeport J 1 Serial Number: 460521288Y	X- 27", Y -13, Z- 16".	n/a	611
Vertical milling First 5 H.P. 60-4,500 r/min Model LC-205VHDX Serial Number: 60200131	X- 32", Y -14", Z- 16".	5.3 kW	653
Horizontal milling Niigata Model 24MC Serial Number: 62113	X- 34", Y -14", Z- 12".	n/a	613
Laguna vertical milling FTV, 23 H.P 4,500r/min Serial Number : 16296 SE-60	X- 27 in, Y -13 in, Z- 16 in.	2.8 kW	654

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Conventional Machinery (Cont'd)

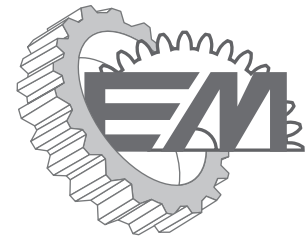
Model	Capacity	Electrical condition	Machine Code
Vertical milling Precimaster V5 300/1568 3.7 H.P., 80-3,800 R.P.M	X- 39", Y -24", Z- 16"	3.7 kW	608
Vertical milling Precimaster Model 4 VS, 5- 2098, 3 h.p., 80, 3,800 R.P.M.	X- 3", Y-24", Z- 16"	3.7 kW	601
Horizontal Milling Schaeublin Serial Number: 186603, year 1968	X- 34", Y -14", Z- 12"	n/a	612
Hydraulic Band Saw -S-20 Série II Serial Number: 60998846	Diameter : 14"	1.3 kW	906
Power shear Di-Acro #36	Thickness: 1/8" x 36" width	1 kW	917
Vertical Saw - KV-50 Serial Number: V50451, year 1995	12" size	1 kW	920
Stritrite JH 225 ribbon saw	Diameter : 10"	0.9 kW	921
Dry scourer sand blast Model 4836-7 Serial Number: GB84120342 Serial Number: 10187	n/a	n/a	966 964
O.D Grinding Strudel	n/a	n/a	910
Radial Driling Z I J Model 3050 4 axis 1/16 & 16 Max. drilling Serial Number: 04085069	n/a	n/a	312
Honing machine	n/a	n/a	912
I D Grinding 3 Bryant	n/a	n/a	913

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Specialized Inspection Equipment

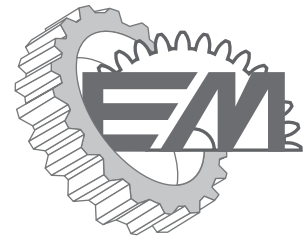
Model	Capacity	Machine Code
Numerical planimeter with co-ordinates Mitutoyo Model: BRIGHT A 710 Serial Number:1626102	40" x 26" x 20"	501
Numerical planimeter with co-ordinates Mitutoyo Model: CMM B 504B serial number: meter: 809005, counter: 809005	18" x 20" x 16"	512
Numerical planimeter with co-ordinates Mitutoyo FN905 Serial Number: 8103523, Serial Number counter: 200001	20" x 20" x 22"	513
Optical comparator Mitutoyo PH-350A Serial number 8377	Screen: 14" Diameter Magnification: 50 X	504
Optical comparator Mitutoyo PH 361. A	Screen: 14" Diameter Magnification: 30 X	515
Optical comparator Mitutoyo PH A 14 Serial Number: 512001	Screen: 14" Diameter Magnification: 30 X	506
Ultrasonic Thickness gauge of precision Novascope 400 Serial Number: 550503	n/a	507
System of inspection and tools measurement Parsetter TMM 900	Cone 40 & 50	510
Digital Mahr Fédéral air gauge	.025 in to 1.50 in Diameter interior	511
Hardness test System Rockwell Model HR-150A Serial Number: 0602	n/a	518
Vaillant Brown & Sharp Serial Number: 700-81002161	X - 26", Y - 24 ", Z -18"	519
Digital Mahr Fédéral air gauge – double (qty 9)	.025 in to 1.50" interior diameter	530
Parsetter Model: TMM 900 Serial Number: 132350-0197	Tool length 1.0" to 12.0" Lg.	520
Mitutoyo 9106 Crystapex C CMM	18" x 20" x 16"	517

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Special Equipment

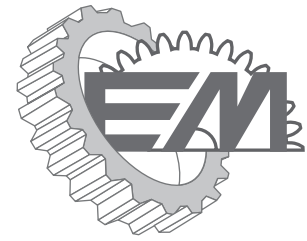
Model	Capacity	Machine Code
Generator of induction G.E.	n/a	969
Ultrasonic cleaning equipment Branson OMNI 2000 Serial Number: 1Y01-06	n/a	961
Vibra Matic befuring	24" Diameter x 10" depth	970
Vibra Matic befuring	32" Diameter x 14" depth	971
Air test infiltration liquid	3,000 P.S.I	972
Air test infiltration pneumatic	100 P.S.I	973

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series



Company Major Equipment List

Finishing Machinery

Model	Capacity	Electrical condition	Machine Code
Brown & Sharp surface grinder Serial Number: 5236182-6319	6 inch x 18 inch	n/a	861
Jones & Shipman surface grinder (qty 2) Serial Number: 549936	6 inch x 18 inch	n/a	815
Fritz Studer cylindrical grinder Serial Number: 145587	5 inch Diameter x 14 inch	n/a	816
Universal Studer cylindrical grinder Serial Number: 835-56, Type RH4-400 Serial Number: 1538-73, Type RHU 500 Serial Number: 145587, Type S30-12	Dia. .125 to 9.50 max. X 20" Lg.	n/a	845 847 846
B & S # 587 HD cylindrical grinder	8 in Diameter x 16 in	n/a	817
Briyant internal grinder Serial Number: J15982 Model: 1109 Serial Number: n/a Model: 1109W Serial Number: n/a Model: 1109	Dia. .187 to 1.50 max. X 2.50" Lg.	n/a	824 825 826
Excello center horn Serial Number: 1401	6 in Diameter x 36 in of width	n/a	818
Sunnen honing machine MBC804 Serial Number: 11217	Diameter 1/8 in to 1 in	n/a	814
Sunnen honing machine MBC804-A Serial Number: 11264	Diameter 1/8 in to 2 in	n/a	812
Chevalier Grinding machine planes Model FSG-1632A Serial Number: g3857003	C/W 3 axis 32 in x 16 in	7.3 kW	819
Chevalier Grinding machine planes Model FSG-3A1020 Serial Number: 387A003	C/W axis 10 in x 20 in	7.3 kW	811
Chevalier surface grinder precision Model FSG-3A 1224H Serial Number: P387C001	C/W axis 12 in x 24 in	7.3 kW	821

Legend:

CNC Lathe = 100 series
Wire & Sinking = 200 series
EDM Drilling & Drill Press = 300 series

CNC Milling = 400 series
Quality Control Equipment= 500 series
Milling = 600 series

Lathe = 700 series
Grinding = 800 series
Finishing & Other = 900 series