



Categories of Used Machines

Electronics - Energy - Electricity (>700)		
	Electricity - Generator sets	289
	Electricity - Transformers	23
	Energy	25
	Inspection equipment	13
	PCB - Cleaning machines	16
	PCB - Dispensers	8
	PCB - Drilling and routing machines	6
	PCB miscellaneous	12
	PCB - Pick-and-place machines	44
	PCB - Reflow ovens	53
	PCB - Screen printing machines	31
	PCB - Selective soldering	23
	PCB - Test and rework machines	16
	PCB - Wave soldering	11
	PCB - Winding machines	11
	Semiconductor miscellaneous	16
	Semiconductor - Test and measurement equipment	76
	Semiconductor - Wafer equipment	17



Example of Generator Set



Categories of Used Machines

Handling - lifting - forklifts (>800)		
	Conveyors - Belt conveyors	4
	Conveyors - Other conveyors	6
	Conveyors - Rolls conveyors	7
	Cranes - Bridge cranes / hoisters	88
	Cranes - Tower cranes - gantry	98
	Forklifts - Diesel forklifts	95
	Forklifts - Electric forklifts	89
	Forklifts - Gas forklifts	66
	Handling tractors	18
	Miscellaneous Handling - Lifting	103
	Pallet lifting	5
	Pallet racks - storage units - Kardex	18
	Pallets forklift	5
	Road sweepers - cleaning trucks	9
	Sideloaders	25
	Telescopic handlers	44



Example of Crane



Categories of Used Machines

Industrial robots (>300)		
	ABB Robots	93
	Asea Robots	0
	Cloos Robots	2
	CMA Robots	0
	Comau Robots	4
	Fanuc Robots	34
	IGM Robots	3
	Janome Robots	1
	Kawasaki Robots	15
	Kuka Robots	77
	Mitsubishi Robots	0
	Motoman Robots	5
	Other robots	29
	Reis	0
	Robotica Atom	0
	SEF	0
	Staubli	5



Example of Robot



Categories of Used Machines

Metal - foundry / presses (>1800)		
	Cold forging machines	45
	Forging hammers	56
	Forging presses	160
	Forging rolls	6
	Induction heaters / Furnaces	29
	Manipulators	11
	Screw presses	48
	Upsetters	16
	Metal - Eccentric presses / crank presses	467
	Metal - Hydraulic / Mechanical presses	701
	Metal - Knuckle-joint stamping presses	45
	Metal - Preforming - trimming - calibrating presses	77
	Metal - Stamping presses	86
	Miscellaneous	46
	Wire drawing machines	18
	Wire nail presses	5



Example of Hydraulic Press



Categories of Used Machines

Metal - machine tools (page 1) (>14000)		
	Bar feeders	77
	Borers - deep hole boring / drilling machines	155
	Borers - floor type boring machines	156
	Borers - floor type boring machines CNC	77
	Borers - jig boring machines	357
	Borers - table type boring machines	246
	Borers - table type boring machines CNC	40
	Broaching machines	81
	Drilling - floor type drilling machines (column, pillar)	102
	Drilling - miscellaneous	36
	Drilling - multispindle / gang drilling machines	222
	Drilling - radial drilling machines	188
	Edm - die sinking machines	203
	Edm - fast hole drilling machines	16
	Edm - wire cutting machines	176
	Facing and centering machines	33
	Finishing - honing machines	17
	Finishing - lapping machines	28



Example of Boring Machine

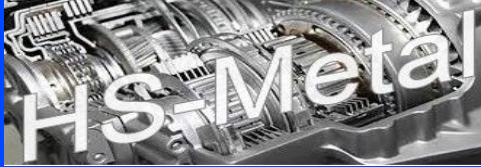


Categories of Used Machines

Metal - machine tools (page 2)		
	Finishing - polishing / deburring machines	19
	Finishing - washing / tumbling / vibratory machines	136
	Gear grinding machines	61
	Gear hobbing cnc machines	62
	Gear hobbing manual machines - Horizontal	166
	Gear hobbing manual machines - Vertical	244
	Gear machines - others (milling, testing, inspection..)	143
	Gear shaping machines	149
	Grinding machines - cylindrical centerless grinders	410
	Grinding machines - cylindrical external / internal grinders	355
	Grinding machines - miscellaneous (crankshaft, sharpening, tool grinders ...)	417
	Grinding machines - surface grinders	503
	Lathes - 0 - 3000 mm	822
	Lathes - > 3001 mm - heavy duty lathes	457
	Lathes - cnc lathes	2270
	Lathes - facing lathes	25
	Lathes - horizontal turret lathes	26
	Lathes - Multispindle automatic lathes	170



Example of Lathe CNC



Categories of Used Machines

Metal - machine tools (page 3)		
	Lathes - Swiss type lathes	166
	Lathes - vertical turret lathes	89
	Lathes - vertical turret lathes with cnc	422
	Machining centers - 5 axis	268
	Machining centers - high-speed (18000+ rpm)	133
	Machining centers - horizontal	13
	Machining centers - palletized	557
	Machining centers - vertical	164
	Milling - cnc horizontal milling machines	1443
	Milling - cnc universal milling machines	158
	Milling - cnc vertical milling machines	307
	Milling - horizontal milling machines	322
	Milling - miscellaneous machines	121
	Milling - portal / gantry milling machines	157
	Milling - universal milling machines	162
	Milling - vertical milling machines	47
	Others	177
	Planing machines	46



Example of Machining Center High Speed



Categories of Used Machines

Metal - machine tools (page 4)		
	Rotary transfers	26
	Saws - band saws	267
	Saws - circular / slitting saws	67
	Saws - hacksaws	22
	Saws - miscellaneous	89
	Shaping - vertical / horizontal shaping / slotting machines	72
	Spring machines - multislide / formers / coilers	46
	Thread rolling machines	67



Example of Slotting Machine



Categories of Used Machines

Metal - sheetmetal machines (page 1)		
	Complete unwinding units	33
	Cutting machines - Laser	378
	Cutting machines - Plasma / gas	133
	Cutting machines - Waterjet	34
	Deburring machines	1
	Leveling / straightening machines	78
	Mechanical benders for horizontal profiles	68
	Mechanical benders for vertical profiles	41
	Notching machines	0
	Others sheetmetal machinery	144
	Plate folding machines	103
	Plate rolling machines	211
	Plate rolling machines - 4 rolls	65
	Press brakes	610
	Press brakes cnc/nc	540
	Profile bending machines cnc	56
	Punching machines / nibbling machines	142
	Punching machines / nibbling machines with	378



Example of Plasma Cutting Machine



Categories of Used Machines

Metal - sheetmetal machines (page 2)		
	Shears / guillotines CNC	55
	Shears - hydraulic guillotines	443
	Shears - mechanical guillotines	210
	Slicers	46
	Slitting line	20
	Welding machines	120
	Welding positioners	44



Example of Welding Machine



Categories of Used Machines

Other Categories		about
	Miscellaneous industrial equipment	1500
	Packaging - conditioning	3300
	Pharmaceutical - Chemical	1100
	Plastic - rubber	2500
	Printing machines	5200
	Textile machines (Texapro)	2000
	Wood machines	2200
	Food processing machines	2200

All quantities subject to prior sale!

Thank you very much for your
interest

Please send your inquiry to my E-mail-Adress:

hartkopf@hs-metal.de

Add as much parameters as possible, so that
I can offer most possible matching.