

HIGH-PERFORMANCE MACHINING HIGH-PERFORMANCE CUTTING



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Integrex I200 ST

Control
Mazak Smooth

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed	
<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>RPM</i>	
420	65	1500	615	1585	5000	12000

With automation Robojob Tower

Mazak 200 M

Control
Mazatrol 640T Nexus

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed	
<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>RPM</i>	
380	65	1045	230	1085	5000	

Driven tools

Mazak 200 M

Control
Mazatrol 640T Nexus

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed	
<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>RPM</i>	
380	65	600	230	575	5000	

Driven tools and collets, bar feeders

Mazak Super Quick Turn 10M

Control
Mazatrol T32-3

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed	
<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>Mm</i>	<i>RPM</i>	
110	42	370	55	355	6000	

Driven tools



Mazak Super Quick QTN 100 II

Control
Mazak Matrix Nexus

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
Mm	Mm	Mm	Mm	Mm	RPM
110	42	309	55	355	6000

Collet and bar feeder

Mazak 200

Control
Mazak Matrix Nexus

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
Mm	Mm	Mm	Mm	Mm	RPM
380	65	1045	230	575	5000

Driven tools / counter spindle / Y-axis (100mm)

Mazak Integrex j-200

Control
Mazatrol Matrix Nexus 2

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
Mm	Mm	Mm	Mm	Mm	RPM
230	65	1000	450	1000	Milling spindle: 12000 Fulcrum shaft: 5000

Milling spindle Y-axis 72 tools (capto)

Mazak 200 MSY

Control
Mazak Matrix Nexus

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
Mm	Mm	Mm	Mm	Mm	RPM
380	65	507			4000

Driven tools / counter spindle / Y-axis (100mm)



Mazak QTNX 200II MY

Control
Mazak Matrix Nexus 2

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
<i>Mm</i> 380	<i>Mm</i> 65	<i>Mm</i> 500	<i>Mm</i> 230	<i>Mm</i> 575	<i>RPM</i> 5000

Driven tools, counter spindle, Y-axis 100mm, bar feeder

Mazak QTNX 350 II MY

Control
Mazak Matrix Nexus 2

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
<i>Mm</i> 420	<i>Mm</i> 102	<i>Mm</i> 1500	<i>Mm</i> 260	<i>Mm</i> 1605	<i>RPM</i> 3300

With bezel

Mazak QTN 350II MY

Control
Mazatrol Matrix Nexus 2

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
<i>Mm</i> 420	<i>Mm</i> 102	<i>Mm</i> 1500	<i>Mm</i> 260	<i>Mm</i> 1605	<i>RPM</i> 3300

Without bezel

Mazak QTN 350II MY

Control
Mazak Smooth

Maximum Machining diameter	Passage	Lace Width	Ways		Maximum Speed
<i>Mm</i> 480	<i>Mm</i> 102	<i>Mm</i> 1250	<i>Mm</i> 260	<i>Mm</i> 1355	<i>RPM</i> 3300

Without bezel



Mazak Variaxis I700 with MPP

Control
Hurco Ultimax

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
5	630	1100	600	10000

5-axis milling machine, 205 tool positions and MPP

Mazak Integrex E-1250V/8

Control
Mazak Smooth

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
5	1875	1250	1345	10000

Dxf files readable

Mtcut V130Y-12TH

Control
Heidenhain TNC640

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
3	1300	700	610	12000

Mtcut 220P

Control
Heidenhain iTNC530

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
3	2200	1750	750	14000



Mazak VTC800

Control
Mazatrol Matrix 2

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
4	3000	800	720	18000

GROB 550

Control
Heidenhain iTNC 530

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
5	800	950	1020	16000

5-axis milling machine

WEMAS

Control
Heidenhain iTNC 530

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
5	620	520	460	12000

5-axis milling machine, 120 tool positions

Hurco VMX 30

Control
Hurco Ultimax

Axes	Distances in mm			Maximum Speed
Number	x	y	z	RPM
3	760	510	610	10000



Hurco VMX 50

Control
Hurco Ultimax

Axes	Distances in <i>mm</i>			Maximum Speed
Number	x	y	z	RPM
3	1270	660	610	10000

POSmill H 800 U

Control
Hurco Ultimax

Axes	Distances in <i>mm</i>			Maximum Speed
Number	x	y	z	RPM
3	670	820	600	18000



Eroding

Mitsubishi

Wire EDM machine

Distances in mm

x	y	z
600	400	310

Pressing

Hidro Alfa

Hydraulic, up to 100t

Berg & Schmid (3x)

Toggle press

Grinding

TURI SpanTec

Type: 4080 AH - RIC

Distances in mm

x	y	z
800	400	350

Bending

Yellow Bender Mobi

Flat 100 x 15 (10t)

Assembly

Aluminum Profiles

Thanks to our in-house assembly, individual customer requirements can be implemented.



Horizontal Band Saw G-320 NC

Cutting area 320 x 320 mm

Type
Band Saw
High-performance fully automatic band saw

Bauer HS 200

Cutting area 400 x 200 mm

Type
Band Saw
Semiautomatic

Horizontal strip bars C.420 NC

Cutting area 420 x 420 mm

Type
Band Saw
High-performance fully automatic band saw

Bauer 400 V

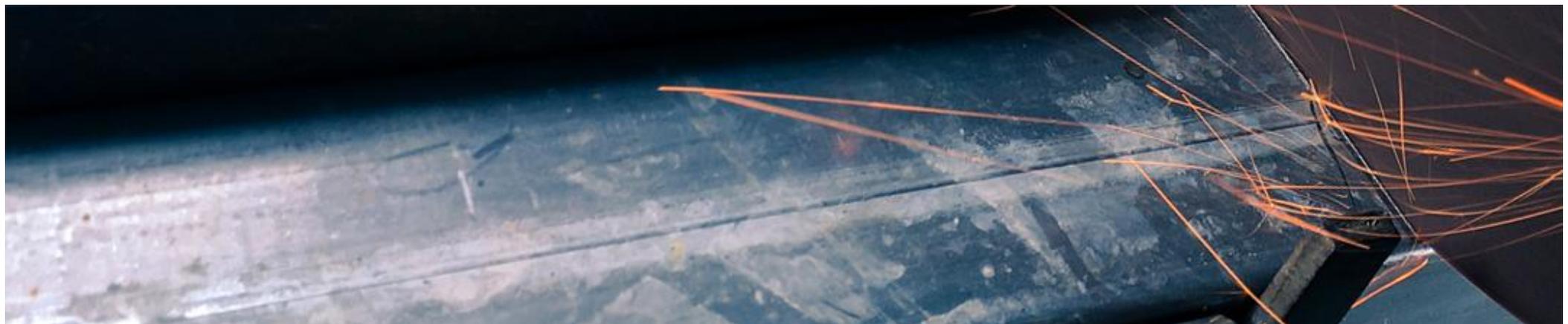
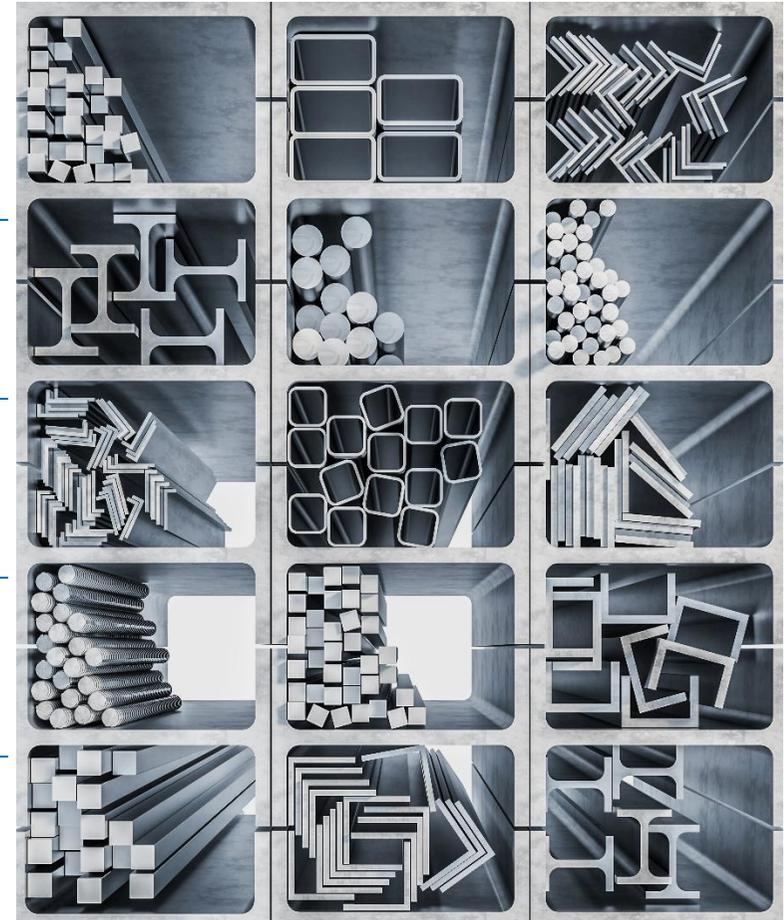
Cutting area 210 x 290 mm

Type
Vertical Band Saw
Manual

Macc NTM

Cutting area 60 mm

Type
Metal Circular Saw
Manual



Fronius Magic Wave 3000		Type TIG welding
Welding performance	300 A	
Fronius Magic Wave 4000		Type TIG welding
Welding performance	400 A	
Lorch ACI 10		Type TIG welding
Welding performance	220 A	
Rehm RD 250		Type MIG/MAG welding
Welding performance	250	
Rehm Megapuls 350		Type MIG/MAG welding
Welding performance	350 A	
Rehm Megapuls 500		Type MAG welding
Welding performance	500 A	
BTH Tech LBH 710		Type Stud Welding Machine
Welding performance	680 A	
Tecna		Type Spot Welder
Welding performance	80 KVA	



Trowling Mass finishing	Part size up to 300 mm
Glass bead blasting Ceramic blasting	Part size up to 1500 x 900 mm
Sand blasting	Part size up to 700 x 900 mm
Lacquer	Handling by our long-standing partners
E-polishing	Handling by our long-standing partners
Galvanize	Handling by our long-standing partners
Anodizing, electroless nickel plating	Handling by our long-standing partners
Hard Coating Hardanadosing Harden	Handling by our long-standing partners
Burnishing Glow Nitriding Engraving	Handling by our long-standing partners
Colsterizing Pickling Annealing Teflon coating	Handling by our long-standing partners



Mitutoyo Crysta-Apex S122010

Coordinationmeasurement

Parts Weight	Measurement in <i>mm</i>			Resolution
<i>Kg</i>	<i>x</i>	<i>y</i>	<i>z</i>	μm
2.500	1200	2000	1000	0,1

Mitutoyo Crysta-Apex S776

Coordinationmeasurement

Parts Weight	Measurement in <i>mm</i>			Resolution
<i>kg</i>	<i>x</i>	<i>y</i>	<i>z</i>	μm
800	700	700	600	0,1

Laserstation Sic Marking

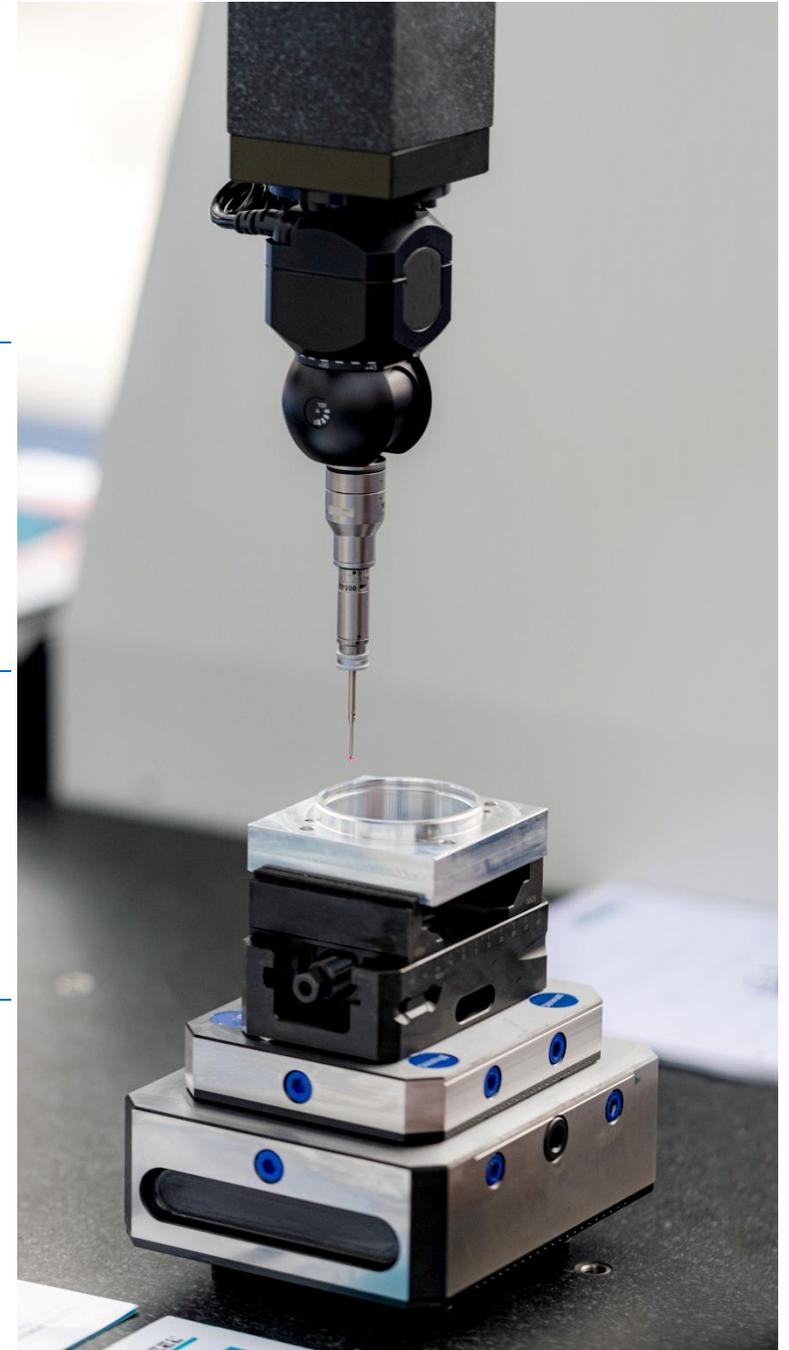
Lasermarking

Marking Area	Measurement in <i>mm</i>			Wavelength
<i>mm</i>	<i>x</i>	<i>y</i>	<i>z</i>	<i>nm</i>
100x100	400	350	195	1064

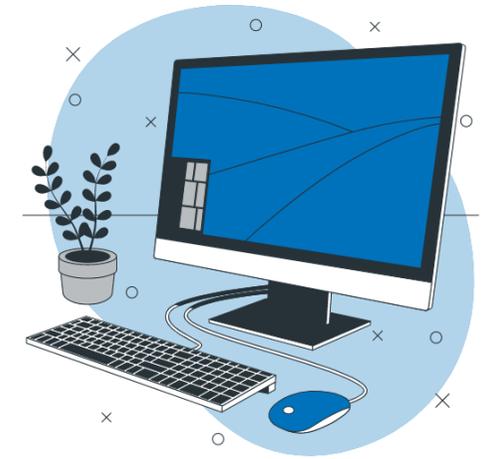
Ivesta 3 Leica System

Stereomikroskop

Zoom	Zoom range		Resolution
Factor	<i>min</i>	<i>max</i>	<i>lp/mm</i>
9:1	6-times	55-times	500



Mastercam	Typ CNC-Milling
Solid Works	Typ Construction
MazaCAM	Typ CNC-Turning
Smooth CAM	Typ CNC-Control
TDM Systems	Typ Tool Preparation
abas ERP	Type ERP system



Operating system



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Makron Portfolio

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