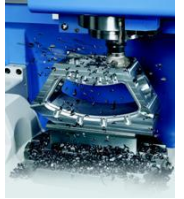


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Milling

Type	X axis	Y axis	Z axis	A axis	B axis	Tool System
Vertical Machining Center CNC – MAZAK Mod. VTC800/30SR – 5 AXIS <i>with automatic A axis by head rotation</i> <i>with automatic C axis by rotatable table</i>	3000	800	720	±110°	±360°	ISO40
Vertical Machining Center CNC – SIGMA Mod. TANDEM 5 – 5 AXIS <i>with automatic double pallets changer</i> <i>+ tandem worktables system</i>	2x1500 1x2100	700	950	±110°	±360°	ISO40
Vertical Machining Center CNC – DOOSAN Mod. DNM750-II <i>with continuous rotary table</i>	1630	762	650	/	±360°	ISO40
Vertical Machining Center CNC – MAZAK Mod. VCS530C	1050	530	510	/	/	ISO40
Vertical Machining Center CNC – DOOSAN Mod. DVF5000 – 5 AXIS <i>with AWC 8 pallet loader</i>	625	450	400	-30° +110°	±360°	HSK63
Vertical Machining Center CNC – MAZAK Mod. VARIAXIS C-600 – 5 AXIS <i>with automatic table changer</i>	650	550	530	-30° +120°	±360°	ISO40



Large format Milling

Type	X axis	Y axis	Z axis	A axis	C axis	Tool System
CNC vertical milling machine – FPT Mod. DINOX350 IAT – 5 AXIS	3500	2500	1300	±185°	±270°	HSK-A100



Turning

Type	Turning Diameter	Turning Length
Lathe CNC – MAZAK – Mod. SL 500 M (2 AXIS + C-AXIS AND MOTORIZED TOOLS)	910	2075
Lathe CNC – MCM – Mod. ATL465x2000 (2 AXIS + C-AXIS AND MOTORIZED TOOLS)	940	1500
Conventional Lathe – MCM – Mod. TC300	600	1500
Lathe CNC – MAZAK – Mod. NEXUS 250-II-MY <i>With motorized spindles, continuous C-axis and Y-axis</i>	350	504
Lathe CNC – MAZAK – Mod. NEXUS 250-II-M <i>With motorized spindles and continuous, controlled C-axis</i>	350	504
Conventional Lathe – SCHAUBLIN	/	/



Turning & Milling

Type	X axis	Y axis	Z axis	B axis	C axis	Tool System
Multi-tasking CNC – MAZAK Mod. INTEGREX i-400 x 1500 – 5 AXIS	615	250	1585	±110°	±360°	CAPTO C6



Grinding

Type	Working size
Horizontal-spindle grinding machine for plane surfaces – ROSA Mod. IRON 12.6	1250 x 610 x 480



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Laser cutting

Type	Working size – Power
Laser cutting system – BYSTRONIC Mod. BYSTAR 3015 With automatic double pallets changer and rotary axis for profiles and tubes	3000 x 1500 – 3000 W (pipes Ø15-315)

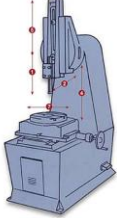


Manual Drill EDM

Type	Working size
Manual EDM Drill Mod. SY3545	450 x 350 x 350 mm (Hole machining Ø0,3 – 3 mm)



Complementary machining processes

Type	Working size
 Slotting machine / Broach machine CAM – Mod. SAC200	/
 Bandsaw CNC machine BTM – Mod. 360 CNC TC	Round Ømax 350 mm
Manual Bandsaw machine WHITE – Mod. 280 M60 SA	Round Ømax 220 mm
Circular saw machine PEDRAZZOLI – Mod. SUPER BROWN SPECIAL	Round Ømax 150 mm
 Chamfering machine OMCA	/
 Hydraulic press 20 Ton OMCN	/
Hydraulic press 100 Ton AEM3	/
 Twist Drill machine EMA	/
Sensitive Drill SERRMAC	/
Tapping machines SARA	/
 Spot Welding machine CEA – NKLP 2.0	/
Wire Welding machine THYROWELD 450+wire loader SECOFIL 4mm	/
TIG Welding machine MIGATRONIC – Mod. PILOT 2400	/
TIG Welding machine LORCH – Mod. T220 DC con unità WVK6	/

Marking solutions



Type	Technical Features:
CNC Laser marking machine AUTOMATOR – Mod. L-REGINA-20W	Marking area: 110 x 110 mm
Micro-percussion marker FLEXMARK – Mod. COMBINATA	Marking area: 110 x 50 mm
Mechanical Impact marking machine BERMA – Mod. MC60M	/
Electric Engraver BRENNENSTUHL – SIGNOGRAPH 25	/
Electric pen for metal writing LTF – Mod. 298	/

Surface finishing machines



Type	Technical Features:
Circular vibrators NICEM – Mod. VIB.180.SM	Working size: width 280 mm x depth 450 mm
Sandblasting machine NORBLAST – Mod. FN31	Working size: 1000 x 600 mm
Orbital sanders RUPES – Mod. SS70	/
Belt grinding & polishing machine ACETI – Mod. 05	/
Sanding / satin finishing machine VOLPATO – Mod. LBO-60/G	2500 x 1000 x 680 mm

Devices for measuring and recording tools



Type	Technical Features:
Tool presetting and measuring systems SPERONI – Mod. STP Magis 500	Measuring range: Ø350 x 500 Spindle concentricity: 0,001 mm T.I.R. @300 mm: < 0,005 mm (T.I.R. = Total Indicator Reading)
Motorized profile projector PIAZZA	Measuring range: Ø 500 x 650 Magnification: 50x Resolution: 0,01 mm

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Vertical storage systems (mechanical and commercial components)

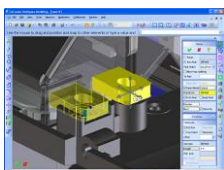
Type	Technical Features:
Automatic vertical storage machine SYSTEM LOGISTICS – Mod. MODULA F500	Nr. 82 trays dim. 2580 x 680 Load capacity: 500 kg/tray
Automatic vertical storage machine KARDEX – Mod. SHUTTLE	Nr. 70 trays dim. 3000 x 700 Load capacity: 250 kg/tray
Automatic vertical storage machine FERRETTO – Mod. VERTIMAG EF	Nr. 50+50 trays dim. 3050 x 840 Load capacity: 800 kg/tray

Vertical storage systems (hardcopy archive)

Type	Technical Features:
Automatic vertical storage machine BERTELLO – mod. EUROT 5406	Nr. 26 trays dim. 1710 (520 binders) Load capacity: 100 kg/tray

Machines for distributing tools to the production department

Type	Technical Features:
Automatic warehouse DAINT – mod. TOOLMAT24	Nr. 432 boxes q.ty 2 machines
Automatic warehouse CRIBMASTER – mod. ProStock	Nr. 504 boxes q.ty 1 machine



Computers: Hardware e Software

Type	Technical Features:
Network Server	Windows Server 2016 Platform
Antivirus Software	Symantec© EndPoint Protection
Management Software for Administration	Prodware (Elabora)
Management Software for Production	Crono (Briasoft)
CAD 3D Software	SOLIDWORKS (Dassault Systèmes©) CREO ELEMENTS/DIRECT MODELING (PCT©)
CAD 2D Software	CREO ELEMENTS/DIRECT DRAFTING (PCT©) DRAFTSIGHT (Dassault Systèmes©)
CAM 3D Software With option to work blades and impellers	HYPERMILL / HYPERTURN (Open Mind©)
CAM 2½D Software	PACW (S.A. Informatica)
Estimating Software	LeanCOST (Hyperlean)

Auxiliary machinery and systems



Type	Technical Features:
Workplace air conditioning system (production department)	CARRIER / SABIANA
Workplace air conditioning system (measurement room)	DAIKIN



CNC 3D measuring machine

Type	ZEISS ACCURA II 9/16/8
Measuring range:	900 x 1600 x 800 mm
Maximum workpiece dimensions:	1260 x 2340 x 864 mm (kg 1500)
Measurement accuracy:	MPE _E (ISO 10360/2) : 1,2 + L/350 µm MPE _P (ISO 10360/2) : 1,4 µm
Repeatability:	MPL R0 (ISO 10360/2) : 1,2 µm
Software:	CALYPSO (Measurement) PiWeb (Statistics)



Portable Arm Coordinate Measuring Machine

Type	ROMER ABSOLUTE ARM RA-7525-2
Measuring range:	2,5 m / 8,2 ft.
Point repeatability:	± 0,020 mm / 0,0008 in
Volumetric accuracy:	± 0,029 mm / 0,0011 in
Software:	PCDMIS CAD++ PROBING

All specifications according to B89.4.22 and VDI/VDE 2617-9



Vertical measuring equipment - Altimeter

Type	Technical Features:	
TESA Mod. MICRO-HITE PLUS M 600	Measuring Range:	615 mm
	Measurement Accuracy:	$U (\mu m) = 2 + 3 * L(mm) / 1000$
	Resolution:	0,001 mm
MITUTOYO Mod. LH-600E	Measuring Range:	600 mm
	Measurement Accuracy:	$U (\mu m) = 1,1 + 0.6 * L(mm) / 600$
	Resolution:	0,001 mm



Hardness measuring equipment - Durometer

Type: ERNST AT 130 AR-T	Technical Features:
Measuring Range:	HRC – HRB – HB – HV scale
Resolution:	1 (analog dial)

Roughness measuring instrument - Roughness meter



Type: Mitutoyo SJ-210	Technical Features:
Measuring range (X-axis):	17,5 mm
Measuring range:	-200 µm / +160 µm
Measuring range / resolution:	360 µm / 0,02 µm; 100 µm / 0,006 µm; 25 µm / 0,002 µm
Permitted measurements:	Ra, Rc, Ry, Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Rsk, Rku, R _{Pc} , R _{sm} , R _{max} , R _{z1max} ed altre

Coating thickness measurement - thickness gauge

Type	Technical Features:	
Mod. CM 8826FN	Measuring Range:	0~1250 µm
	Measurement Accuracy:	± 1~3% _n (min. ±2,5 µm)
	Resolution:	0,1 µm (0~99,9 µm) - 1 µm (>100 µm)



Vacuum level measurement - vacuum gauge

Type	Technical Features:	
WIKA Mod. CPH6200	Measuring Range:	sensor n.1 = 0 - 400 mbar sensor n.2 = 0 - 1000 mbar
	Measurement Accuracy:	sensor n.1 = 0,4 mbar sensor n.2 = 1,0 mbar
	Resolution:	sensor n.1 = 0,1 mbar sensor n.2 = 1,0 mbar
TESTO Mod. 552	Measuring Range:	Da 0 a 26,66 mbar
	Measurement Accuracy:	±(10 micron + 10% del v.m.) (100 a 1000 micron)
	Resolution:	1 micron (0 a 1000 micron) / 10 micron (1000 a 2000 micron) / 100 micron (2000 a 5000 micron)
SMC Mod. PPA100	Measuring Range:	Da -1 a 10 bar
	Measurement Accuracy:	±0,22 bar
	Resolution:	0,1 bar



Measuring instrumentation



Type	
Vernier Calipers	Plain gauges
Depth gauges	Threaded gauges
Surface plates	Bore gauges
Goniometers	Johanson parallel plane blocks
Micrometers (internal/external)	Dial gauges