

O.T.I. S.r.l. Officina Toscana Ingranaggi	MACHINES LIST	Updated at 14/09/09

CUTTING

BRAND	MODEL	YEAR	
FORTE	FORTEMAT SBA 241/S	1998	Band saw Machine
RIBONI	TSUNE TK5C 101 GL	2006	Circular Sawing Machine

CNC LATHES

BRAND	MODEL	YEAR	CAPACITY
OKUMA	LB 15 II	1995	Ø 340 x 500
OKUMA	LB 400 C	2004	Ø 420 x 675
OKUMA	LB 25	1998	Ø 500 x 800
PONTIGGIA	VEGA	1990	Ø 500 x 800
PONTIGGIA	COSMOS	1990	Ø 300 x 450

PARALLEL LATHES

BRAND	MODEL	CAPACITY	
PASQUINO	PF 250	Ø 500 x 1500	FROM TOOLROOM
ANSELMI	MONOFAP 180 E A	Ø 320 x 1000	FROM TOOLROOM

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VERTICAL MACHINING CENTERS

BRAND	MODEL	AXIS	INSTALLED POWER	CONE	YEAR
OLIVETTI	AUCTOR 400	X 500 Y 550 Z 350	9 KW	ISO 40	1990
SIGMA	VC 600	X 600 Y 420 Z 450	18,5 KW	ISO 40	1990

UNIVERSAL MILLING MACHINES

BRAND	MODEL	TABLE DIMENSION	CONE
SIMPLON	UF	1550 x 310	ISO 50
SAIMP	FU/1	1100 x 250	ISO 40
HECKERT	FW 400-VI	1600 x 470	ISO 50
HURT	Spline Milling Machine LF32	800 x 100	ISO 40

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GEAR HOBBING MACHINES

BRAND	MODEL	MAX. DIAM.	MAX. MODULE	TRAVEL	YEAR
STAEHEL	SH280	Ø 260	Mod. 4	150	
PFAUTER	P160 OR 12	Ø 100	Mod. 3	150	
PFAUTER	RA100	Ø 100	Mod. 3	80	
PFAUTER	PA300	Ø 300	Mod. 6		
PFAUTER	PA210 CN	Ø 340	Mod. 10		
PFAUTER (N° 2)	PA180	Ø 180	Mod. 4		
LIEBHERR *	LC 382 CN	Ø 380	Mod. 8		2001
SAMP	S300	Ø 300	Mod. 7	550	2007
SAMP	S300	Ø 300	Mod. 7	550	2008

A) It's equipped with a ring loader

B) It's fully automated with a robot and it works in combination with a chamfering machine Picco

GEAR SHAPERS

BRAND	MODEL	MAX DIAM.	MAX MODULE	TRAVEL
LORENZ (N° 2)	LS 400 CN With slant 0° - 15°	Ø 400	Mod. 6	75
LORENZ	SN5	Ø 500	Mod. 5	70
LORENZ *	SJV00 *	Ø 40		
DEMM	SRI 180	Ø 180	Mod. 3 (7°)	42

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*** dentature DIN Equipped for internal clutches with toothing DIN**

BROACHING MACHINES

BRAND	POWER	BROACHES MAX. DIAM.	BROACHES LENGHT
MAGNAGHI	15 TON	Ø 80	1850 mm
MARCHELLO	15 TON	Ø 80	1850 mm

SHAVING MACHINES

BRAND	MODEL	MAX DIAM.	MAX MODULE	
HURTH	ZSA 220	Ø 220	Mod. 6 also with crowning	Plongee Diagonal Underpass
RED-RING	GEAR SHAVER	Ø 250	Mod. 6 also with crowning	Diagonal Underpass
SICMAT	NRSU 310	Ø 300	Mod. 6 also with crowning	Plongee Diagonal Underpass

ROUNDING MACHINES and CHAMFERING MACHINES

BRAND	MODEL	
PICCO	K15 ROUNDING MACHINE	

DEBURRING MACHINES

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BRAND	MODEL		YEAR
PICCO	WN 500	Automatically loaded through a robot system QUICK LOAD	2007
PICCO	WN 500	Automatically loaded through a robot system QUICK LOAD i combination with the Hobbing machine SAMP	2008

INTERNAL/EXTERNAL GRINDING CENTRES

BRAND	MODEL	MAX DIAM.	YEAR
MORARA	INTERMATIC 1000 CNC NUM 750 R	Ø 500 x 1000	1991
MORARA	GC - I/E CNC NUM 1040	Ø 500 x 1000	1998
MORARA	MULTIMATIC I/E CNC WITH PORTAL LOADER	Ø 350 x 1000	2003
JONES & SHIPMAN	Horizontal surface grinding machine TECHMASTER 844 EASY	Table 800 x 400 mm	2006
FAMAR	Turning centre for hard turnings ERGO 260 G right		2008

UNIVERSAL GRINDING MACHINE

BRAND	MODEL	MAX DIAM.	
TACHELLA	612 U/A	Ø 255 x 600	FROM TOOLROOM

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GEAR GRINDING MACHINES

BRAND	MODEL	MAX DIAM	MAX MODULE	YEAR
REISHAUER	GEAR GRINDING RZS CN With profiling device wheel SPA-S	Ø 360	Mod. 7	2000
REISHAUER	GEAR GRINDING RZS362A READY FOR PORTAL LOADER WITH PROFILING DEVICE WHEEL SPA-S	Ø 360	Mod. 7	2003
SAMPUTENSILI	GEAR GRINDING S375G	Ø 600	Max height profile. With dressable wheel 1,0 – 35 mm With electroplated wheel 0,5-50 mm	2005
REISHAUER	RZ 400 with profiling device wheel RP 160-2	Ø 400	Mod. 7	2006

We have also:

- ◆ Some sharpening machines
- ◆ N° 4 deburring machines GRATOMAT
- ◆ Washing and oiling plant PASSAPONTI 400HD
- ◆ Sandblasting machine NORBLAST S9
- ◆ Balancing machine CEMB RE100/G/GV/B10

Every machining is controlled and certified in the testing room, which includes also :

- 1 Coordinate Measuring Machine “MITUTOYO CRISTA PLUS 544”
- Involute tester ”KLINGELNBERG PFSU 640” with writing “MAKROGRAPH”
- N° 2 Involute tester “KLINGELNBERG P40 CNC”

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- Roundness Measuring Machine MITUTOYO ROUNDTEST RA2100
- 1 mating and center distance testing machine GOULDER MIKRON
- Gear Noise under Load Testing Machine “HURTH ZP 300”
- 1 Roughness measuring machine mod. SURFTEST 301 MITUTOYO.
- Surface plate POLI P800
- Instrument for hobs checking KLINGELNBERG
- Rolling testing machine HOMMELWERKE