



MICRO-GRINDINGS AND MECHANICAL GRINDINGS

SINCE 1964 ON YOUR SIDE

LOOKING TO THE FUTURE





SINCE 1964 SPECIALISTS IN MICRO-GRINDINGS

AND MECHANICAL GRINDINGS

Founded in 1964, Bombardi Rettifiche is the engineering company of Cadelbosco Sopra (Reggio Emilia) specialised in the mechanical grinding sector.

It performs, on account of third parties, micro-grindings, flat machining and lapping of components, using the latest technologies to keep up with market developments.

For over 50 years, the company looks to the future by investing in technology, quality and people.

The goal of the last decade has been to re-launch on the market by completely renewing its machinery fleet to offer customers a better and more adhering service to new market requirements.

It currently appears as a modern reality, equipped with cutting-edge equipment and machinery enabling the realisation of multiple processes in the field of micro-grindings and significantly increasing the company's production capacity.

2018 marked a very important investment for the commissioning of the first operational AUTOMATED plant in the Italian market of: Micro-grinding + Brushing + Ultrasonic cleaning.

Since the end of the 1990s, the Bombardi Rettifiche's high precision technologies have been presented at the most important trade fairs in Italy and abroad, including Mecspe in Parma, Medtec Italy in Modena, Bi-mu / Sfortec in Milan, Hannover Messe and Agritecnica in Hanover.



OUR FIRST 50 YEARS OF HISTORY



- 1964** The first sole proprietorship led by the President Amilcare Bombardi is established
- 1981** Production is established in the current headquarters in Cadelbosco Sopra (Reggio Emilia)
- 1989** The company becomes A. Bombardi & Figlio S.n.c. with the appointment of the General Manager Claudio Bombardi
- 1995** The plant is expanded up to the current 2,900 square meters of total area
- 2000** On 17 February A.Bombardi & Figlio snc certifies its Quality system according to the UNI EN ISO 9002: 1994
- 2003** The company name becomes Bombardi Rettifiche srl. It fulfils requirements of UNI EN 9001:2000
- 2005** The lapping department is strengthened and that of Micro-grindings is inaugurated
- 2010** It fulfils requirements of the UNI EN ISO 9001:2008 standard
From 2010 to 2013 it sponsors Reggiana Calcio in the C1 championship
- 2013** From 2013 to date it sponsors Pallacanestro Reggiana in the Serie A championship
- 2014** On 7 April 2014, it celebrated the 50th anniversary of its foundation
- 2015** Installation of the 4th and 5th Micro-grinding Plants
- 2016** Installation of the 6th Micro-grinding Plant
- 2017** It fulfils requirements of the UNI EN ISO 9001: 2015
- 2018** Installation of First Linear Plant Lap Master Peter Wolters Micro-grinding AC 1000 + Brushing BD300-L + Automated Washing System Meg.
Since 2018, it supports the cycling team of Bike Innovation Focus Rosti of Imola



EXPERIENCE, RIGOUR AND TECHNOLOGY

WITH HIGH PRECISION

Thanks to more than 50 years of experience, Bombardi Rettifiche has acquired a specific know-how in the Microgrinding sector, flat machining and lapping of hydraulic components, gears, large plates, hydroguide components, earth-moving machines and in the Automotive sector.

The company is equipped with cutting-edge technologies, an advanced robotic system and an automated linear system consisting of Micro-grinding, Brushing and Washing to ensure superior performance: measuring machines and instruments with very high precision to meet every production requirement, even thanks to an array of automatic numerical controls, robotised areas, parallel flat lapping machines and multi-level grinding machines.

As regards Bombardi Rettifiche the environment, safety, social responsibility, energy management, privacy, etc. are related to the specific context in which it operates and refer to the various “stakeholders”.

In 2000 it obtained the first issue of the [UNI EN ISO 9002:1994 Quality Certificate](#) while DNV-GL considered it fulfilled requirements of the UNI EN ISO 9001: 2015 standard in December 2017.

All machines and equipment comply with the CE regulations while the Production and Stock departments comply with current safety regulations.



OUR PRODUCTION PROCESS



Planning and control of production processes adopted by Bombardi Rettifiche Srl guarantee correct work execution as regards Customer's needs.

■ Analysis

Definition of the technical - financial bid and timing

■ Pre-production

Work cycle processing

■ Customer requirements

It's possible to handle extra control documentation given the standard provided by the company.

We are able to carry out:

- ISIR
- Psw
- PPAP
- Flow Chart of the Product Process
- Process FMAE
- XR card

■ Production

Choosing the most suitable machine in relation to processing
Product traceability

■ Check

In-Process control of the Product and quantity during the production process

■ Stock

Storage of the finished lot and shipment within the agreed time



MICRO-GRINDINGS: MACHINES, TOOLS

AND WORKABLE DIMENSIONS

The production unit, specialised in micro-grindings, of Bombardi Rettifiche is unique in its kind.

Machines and tools allow you to work simultaneously on two special surfaces made of cast iron, iron, steel, aluminium and bronze with:

- Ø 292 mm
- flatness and parallelism tolerances less than 0.002 mm
- roughness less than 0.4 RA



MACHINE	DESCRIPTION	WORKABLE DIMENSIONS	TOOL
Micro-grindings ELC 800	Melchiorre Piani Paralleli (Parallel Planes) 120 RPM Power 30 Kw	Workable Ψ 227 mm	Millesimal Comparators, Roundness Meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes
		Toll. <0.003 mm Roughness <0.4 RA	
Micro-grindings ELC 800	Melchiorre Piani Paralleli (Parallel Planes) 120 RPM Power: 22 Kw	Workable Ψ 227 mm	Millesimal Comparators, Roundness Meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes
		Toll. <0.003 mm Roughness <0.4 RA	
Micro-grindings ELC 800	Melchiorre Piani Paralleli (Parallel Planes) 200 RPM Power 37 kW	Workable Ψ 227 mm	Millesimal Comparators, Roundness Meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes
		Toll. <0.003 mm Roughness <0.4 RA	
Micro-grindings ELC 800	Melchiorre Piani Paralleli (Parallel Planes) 200 RPM Power 37 kW	Workable Ψ 227 mm	Millesimal Comparators, Roundness Meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes
		Toll. <0.003 mm Roughness <0.4 RA	
Micro-grindings AC700 - F	Peter Wolters Parallel Planes 120 rpm Power: 15 kW	Workable Ψ 227 mm	Tesa Tronic TT80, with two probes, connected to Pc Panel to check error of Drift, Roundness Meter, Roughness Meter, Blocks for Ceramic Parallel Planes
		Toll. <0.002 mm Roughness <0.4 RA	
Micro-grindings AC700 - F	Peter Wolters Parallel Planes 300 rpm Power 46 kW	Workable Ψ 227 mm	Tesa Tronic TT80, with two probes, connected to Pc Panel to check error of Drift, Roundness Meter, Roughness Meter, Blocks for Ceramic Parallel Planes
		Toll. <0.002 mm Roughness <0.4 RA	
Micro-grindings AC1000 - F	Peter Wolters Parallel Planes 150 rpm Power 48 Kw	Workable Ψ 292 mm	Tesa Tronic TT80, with two probes, connected to Pc Panel to check error of Drift, Roundness Meter, Roughness Meter, Blocks for Ceramic Parallel Planes
		Toll. <0.002 mm Roughness <0.4 RA	



FLAT MACHINING: MACHINES, TOOLS AND WORKABLE SIZES



MACHINE	DESCRIPTION	WORKABLE DIMENSIONS	TOOL
Lapidelli C.N	Camut Power 130 Hp	3100 x 700 x 650	Centesimal Micrometer, Comparator, Depth Gauge, Roughness Meter
C.N.C. tangentials	Rosa Silver	2200 x 850 x 650	Roundness Meter, Altimeter, Roughness Meter, Millesimal Micrometers, Comparators
	Rosa Steel	1400 x 500 x 500	Roundness Meter, Altimeter, Roughness Meter, Millesimal Micrometers, Comparators
	Favretto Rotary Table	Ψ 800	Roundness Meter, Altimeter, Roughness Meter, Millesimal Micrometers, Comparators
	Camut Mini 415	1500 x 400 x 300	Roundness Meter, Altimeter, Roughness Meter, Millesimal Micrometers, Comparators



LAPPINGS: MACHINES, TOOLS AND WORKABLE DIMENSIONS

	MACHINE	DESCRIPTION	WORKABLE DIMENSIONS	TOOL
Lapping		Lui Parallel Planes	ψ 1200	Roundness meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes, Millesimal Micrometer, Vision Swift Digital Profile Projector of 150x100 mm
		Lui Mono - Table	ψ 800	Roundness meter, Roughness Meter, Blocks for Ceramic and Steel Parallel Planes, Millesimal Micrometer, Vision Swift Digital Profile Projector of 150x100 mm

ACCESSORIES AVAILABLE FOR MACHINES AND PROCESSES

	ACCESSORIES	DESCRIPTION
Washing System No. 3		Meg F-SG Robotic Solvent Washing System
		Ultrasound Washing Station
RRRobotica		Anthropomorphic Robot of Mod. ATOM10 on Microrettifica
Tumble blast machines		Rosler Tecnomatic ST 14 TRH
		Tecnomatic TMD 11k tumble dryer
		Pre-dewatering drum Mod. Rollwash - Mod. Rwosa220
Brushing CNC		BD 300L Peter Wolters Ψ 270

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
CERT-05748-2000-AQ-BOL-SINCERT

Initial certification date:
17 February 2000

Valid:
16 February 2021 – 15 February 2024

This is to certify that the management system of

BOMBARDI RETTIFICHE S.r.l. - Sede Legale ed Operativa

Via Augera, 13 - 42023 Cadelbosco Sopra (RE) - Italy

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Working on customer's drawing for mechanical, automotive, hydraulics and earth-moving components, on sub-contractor and complete supply, including flat grinding, fine-grinding, lapping, brusching and washing (IAF 17)

Place and date:
Vimercate (MB), 18 January 2021



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 M
SCR N° 004 F

EMAS N° 009 P
PRD N° 003 B
PRS N° 094 C
SSI N° 002 G

Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, ISP, GHG, LAB e LAT, di MLA IAF
per gli schemi di accreditamento SGQ, SGA, SSI, FSM
e PRD e di MRA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP

For the issuing office:
**DNV GL - Business Assurance
Via Energy Park, 14, - 20871 Vimercate
(MB) - Italy**

Zeno Beltrami
Management Representative



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