



BERSANO CARLO S.p.a.



CERT-05939-2000-AQ-TRI-SINCERT

COMPANY PROFILE

**Via Case Massucco, 54
10084 Forno Canavese (TO) ITALY
Tel. ++39 0124 707611
Fax ++39 0124 707603
E-mail: info@bersanocarlo.com**

BERSANO CARLO S.p.a.

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Handed out to:

Managing Director of Bersano Carlo S.p.a. : Piergianni Bersano

Quality Assurance Manager: Danilo Doglio

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
A	INDEX OF CONTENTS	

SECTION	CONTENT	Reference to Std. UNI EN ISO 9001
A	INDEX OF CONTENTS	
B	QUALITY SYSTEM	
B.1	Reference Standards	
B.2	Plants in use	
C	GENERAL INFORMATION ON THE COMPANY	
1.0	ROLE AND RESPONSIBILITY OF THE MANAGEMENT	4.1
1.1	PURPOSE AND DECLARATION OF COMPANY QUALITY POLICY	4.1.1
1.2	INTERNAL ORGANIZATION	4.1.2

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
B	QUALITY SYSTEM	

B.1 REFERENCE STANDARDS

The Company Quality System is developed according to the European standard UNI EN ISO 9001:2008 and is applied to production systems for the manufacture of hot pressed steel parts for applications in industrial and agricultural applications, earth moving machines, etc.

B.2 PLANTS IN USE

The Company Quality System is applied to the systems operating in our two production plants located in:

- Forno C.se

Via Case Massucco, 54/58

- Acceptance of goods
- Dies and tools manufacturing
- Hot pressing production lines
- Sizing
- Shot-blasting
- Final inspection and tests
- Raw and machined parts warehouse
- Shipment

- Busano C.se

Via XXV Aprile, 17 (E.S.A.B. GROUP Plant)

- Steel warehouse
- Cold shearing of steel bars and billets
- Dies and tools manufacturing
- Hot pressing production lines

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
C	GENERAL INFORMATION	

FIRM'S NAME

Bersano Carlo Officina Meccanica e Stampaggio S.p.a.

COMPANY HEADQUARTERS AND OPERATING SITE PLANT 1

Via Case Massucco, 54 10084 Forno Canavese (TO)
Total surface: 3,700 sq.m.
Covered surface: 2,500 sq.m.
Products range: gear wheels, hubs, shafts, bearings, forks, levers, etc, from 1 Kg to 20 Kg.

RAW AND MACHINED PARTS WAREHOUSE

Via Case Massucco, 58 10084 Forno Canavese (TO)
Total surface: 2,300 sq.m.
Covered surface: 1,000 sq.m.

PLANT 2 (E.S.A.B. GROUP)

Via XXV Aprile, 17 10080 Busano Canavese (TO)
Total surface: 5,700 sq.m.
Covered surface: 2,500 sq.m.
Products range: gear wheels, hubs, shafts, bearings, forks, levers, pinions, etc, from 1 Kg to 35 Kg.

COMMERCIAL OFFICE (BERSANO CARLO POLAND SP. Z O.O.)

Ul. Barona 30 (lokal 201) 43-100 Tychy (Poland)

EMPLOYEES (YEAR 2011)

Total Employees: 75
Workers: 61
Administration staff and engineers: 14
Workshifts: 2

SHARE CAPITAL

€ 1,000,000,00(FULLY PAID UP)

TURNOVER TREND

YEAR	ITALY	EXPORT	TOTAL
2008	42.828.199 €	9.128.995 €	51.957.194 €
2009	14.437.007 €	4.039.416 €	18.476.423 €
2010	30.085.041 €	5.143.672 €	35.228.713 €
2011	40.599.487 €	7.474.119 €	48.073.606 €

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
C	GENERAL INFORMATION	

MAIN PRODUCTION PROCESS CONTROL EQUIPMENT

Q.ty	TYPE	MANUFACTURER
1	Spectrometer for chemical analysis of materials (14 elements) Q 90 S	Baird / Assitest
1	Portable spectrometer Port S	Spectro
1	Metalloscope for part integrity checks	Magnaflux
1	Durometer HB 10/3000	Heckert WPM
1	Durometer for HRC / HRB hardness test mod. 2499 MIM	MIM
1	Magnatest S	Foerster Institute
1	Laboratory for Jominy hardenability test	Forno Matic
1	Portable infrared optical pyrometer Cyclops 62	Minolta
10	Stationary infrared optical pyrometer series SOLO 1	Land Infrared
1	Bridge type CMM for dimensional checks	MESA Engineering

MACHINES USED IN THE PRODUCTION PROCESS

No. 2 Machine for cold shearing FICEP mod. Caddy 100;

No. 1 Sawing machine FICEP mod. S35

MACHINE/OPERATIONS	PRESSING LINE B1	PRESSING LINE B2	PRESSING LINE B3
Heating	Induction furnace CEFI KW 600	Induction furnace CEFI KW 800	Induction furnace CEFI KW 400
Preforming	Press IMV Ton. 300	Press IMV Ton. 600	Press IMV Ton. 200
Pressing	Screw press VACCARI Ton. 900	Screw press VACCARI Ton. 900	Screw press VACCARI Ton. 600
Punching	Press IMV Ton. 150	Press IMV Ton. 200	Press IMV Ton. 150
Clipping	Press IMV Ton. 100	Press IMV Ton. 150	Press IMV Ton. 100

MACHINES/OPERATIONS	PRESSING LINE B4		
Heating	Induction furnace CEFI KW 600		
Preforming	Press IMV Ton. 300		
Pressing	Screw press FICEP DD85 (Direct Drive) assisted by KUKA anthropomorphic robot mod. KR60-3F		
Punching	Press IMV Ton. 200		
Clipping	Press IMV Ton. 100		

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
C	GENERAL INFORMATION	

MACHINES/OPERATIONS	PRESSING LINE B5	PRESSING LINE B6	PRESSING LINE B7
Heating	Induction furnace/gas SIEM-ELIND with hydraulic shear for hot shearing	Induction furnace CEFI KW 600	Induction furnace CEFI KW 1200
Preforming	Press Mod. KA4590 Ton. 1600 assisted by FANUC anthropomorphic robot mod. 2000iA	Press COLOMBO Ton. 400	Press A.GALLI Ton. 600
Pressing	Screw press FICEP PVM400 T. 3200	Screw press FICEP DD85 (Direct Drive)	Screw press VACCARI Ton. 1200 assisted by KUKA anthropomorphic robot mod. KR60-3F
Punching	Press KB2535 Ton. 315	Press IMV Ton. 200	Press IMV Ton. 400
Clipping	Press KB9534 Ton. 250	Press IMV Ton. 100	Press IMV Ton. 400

MACHINES/OPERATIONS	PRESSING LINE B8	PRESSING LINE P1	
Heating	Induction furnace CEFI KW KW 600 partial heating	Induction furnace CEFI KW 800	
Preforming	Press IMAC Ton. 220-250 assisted by FANUC anthropomorphic robot mod. 2000iA	-----	
Punching	Screw press FICEP DD85 (Direct Drive) assisted by FANUC anthropomorphic robot mod. 2000iA	Press Innocenti Clearing Ton. 2000	
Clipping	Press IMAC Ton. 100 assisted by FANUC anthropomorphic robot mod. 2000iA	Press IMV Ton. 400	

AUXILIARY MACHINES FOR PRESSED PART MACHINING

No. 2 O.M.S.G. shot-blasting machines No. 1 Screw press VACCARI (Ton. 150) for sizing.

AUXILIARY MACHINES FOR THE MANUFACTURE OF DIES AND TOOLING

MACHINES/OPERATIONS	MODELS	
Turning	Lathe CNC ECOCA 300	Lathe CNC PUMA 350
	Lathe CNC URSUS/ELCON	Lathe CNC PUMA 400
	Lathe CNC PUMA 300	
	Lathe OMG 300 (N° 7)	Lathe GIANA 300 (N° 1)
Milling	Milling machine Rambaudi V2/V3 N° 5	Milling machine TOS N° 1
	High speed milling machine CNC FIDIA HS644	High speed milling machine CNC FIDIA HSK63A
Drilling	Radial drilling machine Super Valmer N°1	Drilling machine N° 2
Electroerosion	Charmilles Eroda 401 N° 1	
Heat treatment	Muffle furnace mod. MR 6 for dies heat treatment	
Cutting	Sawing machine Kasto N° 2	

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
1.0	ROLE AND RESPONSIBILITY OF THE MANAGEMENT	

1.1 PURPOSE AND DECLARATION OF COMPANY QUALITY POLICY

With the purpose of pursuing continuous improvement in Quality, the General Management of BERSANO CARLO S.p.a., reconfirms its commitment to maintain and improve the Quality Warranty process in compliance to std. UNI EN ISO 9001:2008, that has already been implemented in the company plants for some years.

The Quality improvement shall be taken in its broadest meaning as involving all levels, and shall have customer full satisfaction as its final aim.

The General Management asks everybody to co-operate to the extent of their responsibility and role to the achievement of top quality products in compliance with contractual requirements and applicable standards, supplied within the expected delay and modes, and with assurance that the best service is provided.

To achieve such goals, the General Management is ready to provide adequate resources in terms of suitably trained personnel, as detailed below, and purchasing of production and control machines and equipment as required by the market and requested by customers.

Every area manager has the power and liability to implement the requirements stated in the Quality Manual within his/her range of action and to involve in the process his/her collaborators and subordinates.

The company employees shall not be assessed based on sex, race or religion but exclusively in consideration of their attitude, behavior and contribution to Quality.

THE GENERAL MANAGEMENT
Bersano Piergianni

Bersano Carlo S.p.a.	COMPANY PROFILE	ISSUE No. 19
		DATE: 01/01/2012
1.0	ROLE AND RESPONSIBILITY OF THE MANAGEMENT	

1.2 INTERNAL ORGANIZATION

Bersano Carlo S.p.a. internal organization is founded on the concept of distribution of responsibilities according to the role and position of a person within the company, this way assuring the achievement of the highest quality standards.

GENERAL MANAGEMENT

The General Management is responsible for the development and improvement of Quality policies and company achievements in terms of revenues.

PERSONNEL (QUALIFICATION AND TRAINING)

Human Resources Management is responsible for the planning, development and implementation of training for those employees involved in activities associated in the application of this Quality Manual, and is expected to:

- 1) Develop a training plan as required
- 2) Appoint trainers (employees or external advisors).
- 3) Define the contents of training courses
- 4) Keep a record of the training courses with indication of topics, names of participants, date and period of time, and name of the trainer

The training program on Quality Assurance shall include the contents of this Quality Manual and the application of its requirements for the different positions in the company.

TRAINING COURSES

Human Resources Management shall plan training courses every time that substantial changes are made and whenever considered necessary as a result of an *audit*.

PERSONNEL QUALIFICATION

All personnel performing special activities mentioned in this Quality Manual shall be qualified based on educational level, training and experience with reference to the requirements established by a special procedure approved by the Human Resources manager.

DOCUMENTED EVIDENCE OF QUALIFICATION

Educational attainments, training and experience shall be documented in an EDUCATION, TRAINING AND EXPERIENCE REPORT.

This document shall be produced and filed by the Human Resources manager and the results of any examinations shall be fully documented.

COMMERCIAL DEPARTMENT

The Commercial Department shall establish relations with customers and provide constant follow-up. Its main function is to prepare quotations to be submitted to the customer with the assistance of all departments involved.