



B C S   G R O U P   C O M P A N Y   P R O F I L E

A L W A Y S   O N E   S T E P   A H E A D .



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Always one step ahead... Because fulfilling the present is never enough!

We have always worked to meet all the market needs. Everyday we use the knowledge and experience gained during over 70 years of activity to build and improve our products by offering our customers the best possible solutions to meet not only their current expectations, but their future ones as well.

Thanks to constant advances in research, technology and quality, we have been able to build a reliable international organisation based in the same markets in which we operate. That was our dream and it is the project we are working on: to be based where our customers are, helping them to successfully achieve their goals.

**Ing. Fabrizio Castoldi**  
**President of the BCS Group**



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## **ONE GROUP.**

The BCS Group is a leading multinational company in the mechanisation industry.

It designs, manufactures and distributes farming and greens maintenance machinery with the BCS, FERRARI and PASQUALI trademarks, as well as machinery for autonomous generating sets, engine driven welders and lighting towers, embodied by MOSA trademark.

## **FOUR DIFFERENT IDENTITIES.**



**Motor mowers, Two-wheel tractors, Haymaking machines, Tractors.**



**Motor mowers, Two-wheel tractors, Tractors.**



**Two-wheel tractors, Tractors.**



**Engine Driven Welders, Generating sets, Lighting Towers.**

# THE GROUP

# ITALY

**300.000**  
M<sup>2</sup> OF TOTAL SURFACE AREA

Abiategrasso, Milan.



Cusago, Milan.



Luzzara, Reggio Emilia.



Specialised agricultural machines,  
greens maintenance machines,  
generating sets, engine driven welders,  
lighting towers.

## HEADQUARTER

Abbiategrasso - Milan

## R&D CENTRES AND PRODUCTION

Abbiategrasso - Milan

Cusago - Milan

Luzzara - Reggio Emilia

### **One mission, three specialised productions.**

Since 1943, year in which BCS S.p.A. was founded, the heart of the group has been the Headquarter in Abbiategrasso, in the province of Milan. All management departments overseeing the company's various areas of activity are located here: from administration to sales and marketing, from technical assistance to research and development. BCS Group's production

is structured around three manufacturing plants in Italy covering a total surface area of 300,000 square metres and each plant dedicated to a specific product line. All single-axle machinery (two-wheel tractors, motor mowers), professional lawnmowers and haymaking equipment are designed, built and set up in Abbiategrasso; while the designing and production of tractors is based in Luzzara. The division specialised in generating sets, engine driven welders and lighting towers is located in Cusago.

## **THE GROUP**

# WORLDWIDE

## **SPAIN**

### **BCS IBÉRICA, Terrassa**

Founded in 1981, the company handles the marketing of agricultural and greens maintenance machinery, as well as MOSA's products both in Spain and Latin America.

## **FRANCE**

### **FERRARI FRANCE, Saint-Martin-Bellevue**

With the acquisition of the Ferrari trademark in 1988, the Ferrari France subsidiary also became a part of BCS Group, gradually expanding its distribution activities to include BCS, Pasquali and Mosa trademarks.

## **PORTUGAL**

### **BCS PORTUGAL, Benavente**

Since 1990, the company has been marketing farming and greens maintenance machinery in Portugal. Industrial machinery was also included in the company's marketing strategy after a few years.

## **BRASIL**

### **BCS BRASIL, Garibaldi**

This subsidiary, operating in the Brazilian market, was founded in 2012, when the economy of this South American Country was at its peak. The company handles the marketing of farming machinery.



BCS Group's broad knowledge of techniques, traditions and crops makes it the most reliable partner at all latitudes, both for those involved in farming and greens maintenance as well as those using systems for autonomous energy production on construction sites.

The company strategy, aimed at the internationalization and expansion of its business worldwide, has allowed the BCS Group to consolidate its leading position in countries where the company has gained the most experience and to broaden its expansion into developing countries with the greatest need for technology and mechanization.

## GERMANY



### **MOSA GMBH, Allershausen**

Incorporated in 1995, the company initially handled the marketing of industrial machinery in all German-speaking European countries and went on to support the distribution of agricultural products under the Ferrari and Pasquali trademarks.

## INDIA



### **BCS INDIA, Ludhiana**

It was founded in 2005 for the distribution of the Group's farming machinery in India. Subsequently, the company commenced its own production with specific equipment dedicated to the needs of that market.

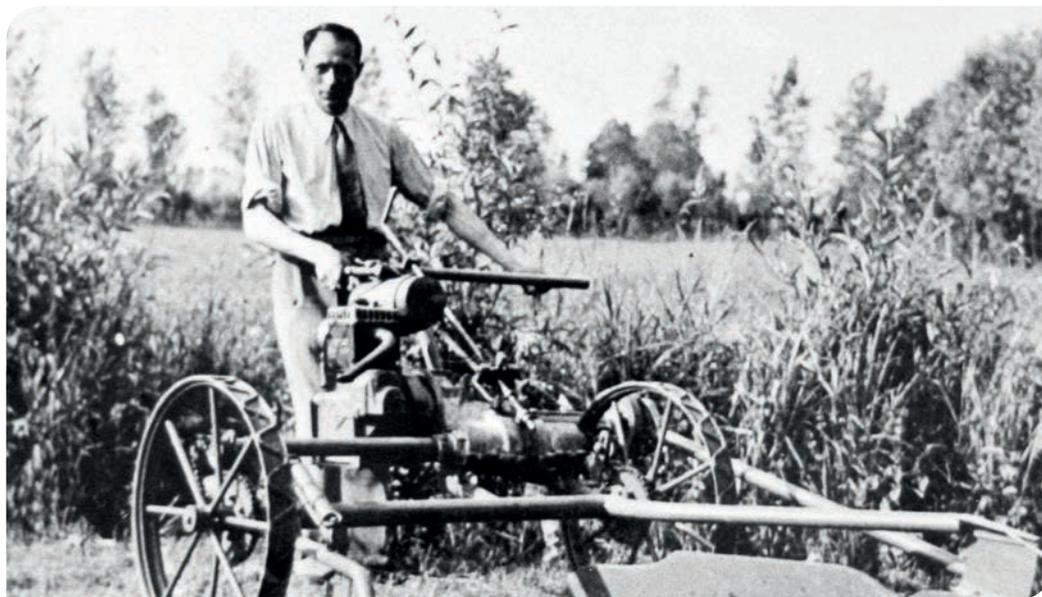
## CHINA



### **BCS CHINA, Changzhou**

The Chinese subsidiary was established in 2011 for the distribution of the Group's agricultural machinery on that market with extraordinary potential. Previously, in 2005, a joint venture had been set up for the production and marketing of engine driven welders and generating sets.

## **YESTERDAY**



# 1943

**BCS'S ORIGIN IS FRUIT OF THE INTUITION OF ITS FOUNDER, ENGINEER LUIGI CASTOLDI, WHO IN 1943 DESIGNED AND MANUFACTURED ONE OF THE FIRST AND MOST EFFICIENT SELF-PROPELLED MOTOR MOWERS IN THE WORLD.**

### **At the onset of agricultural mechanisation history.**

The history of BCS coincides, for the most part, with the evolution of agricultural mechanisation. It all started with the intuition of its founder, Engineer Luigi Castoldi, who in 1943, after designing and manufacturing a small range of generating sets driven by the gravity irrigation used in water meadows, designed and manufactured one of the world's first and most efficient self-propelled motor mowers.

It is a real breakthrough, which increases

productivity while reducing farming workloads. Since then, BCS's unceasing research activity has characterised and guided the Group's growth and the development of farming technology. Early 1960s, BCS expands its product range to include, alongside the motor mowers, reaper-binders at first and then "lightweight" two-wheel tractors, small and dynamic single-axle machines. At the same time, Mosa was founded, a company specialised in the production of engine driven welders, generating sets and lighting towers.

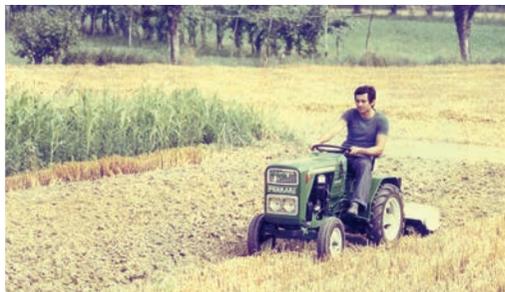


Another significant step in the BCS Group's development took place at the end of last century, when its more consolidated product lines were joined by tractors.

**The acquisition of Ferrari and Pasquali completes the range.**

The turning point takes place initially in 1988, with the acquisition of the company Ferrari of Luzzara, in Reggio Emilia and, then, in 1999, with the acquisition of the company Pasquali of Calenzano, in the province of Florence. Thanks to these integrations, BCS becomes a real industrial

group, able to operate on a global level through a production that, in the farming sector, ranges from specialised tractors to self-propelled single axle machines, up to equipment for mowing grass and greens maintenance. The company starts producing also generating sets, engine driven welders and lighting towers to meet the many requirements of the industry and construction sectors.



## MILESTONE

## COMPANY

1963

MOSA S.p.A. is founded and produces the first engine-driven welders.

MOSA

FERRARI

1988

BCS acquires FERRARI, historic trademark manufacturer of specialised tractors and two-wheel tractors.

1994

MOSA S.p.A. obtains the **Quality Certification** in all company sectors.

1998

BCS S.p.A. is born as a single entity. MOSA and FERRARI become its divisions.

PASQUALI

1999

BCS acquires PASQUALI, historic trademark manufacturer of specialised tractors and two-wheel tractors.



2000

Abbategrasso Headquarters receives the **Quality Certificate** in all company sectors.

Engineer Fabrizio Castoldi, son of the founder, becomes the new **President** of the Company.

2005

Luzzara Headquarters receives the **Quality Certificate** in all company sectors.

2012

BCS Group is created as a new denomination that includes the BCS, FERRARI, PASQUALI, and MOSA trademarks.

BCS GROUP



1943

Engineer Luigi Castoldi founds BCS S.p.A.



1963

First engine driven welders MOSA MS-150 series.



1970

First two-wheel tractors and first BCS motor mowers with central movement cutter bar. First BCS disk motor mowers for tractors, 404 and 405 series.



1943

First motor mowers BCS MF 243.

## PRODUCTION

1980

MOSA starts generating sets production.



1982

First MOSA TS series engine driven welders: they weld and generate electricity simultaneously.



1993

First series of BCS isodiametric tractors with central articulation and steering wheels.



2005

New patented BCS tractor steering system (Dualsteer<sup>®</sup>) which allows steering angles of up to 70°.



2007

New patented hydro-mechanical drive control system for BCS motor mowers (EasyDrive<sup>®</sup>).



2004

New Magic Weld MOSA, a portable engine driven welder with permanent magnet alternator.



2009

New patented hydraulic clutch Powersafe<sup>®</sup> for BCS two-wheel tractors.



2011

First BCS 660 HYWS mower with hydrostatic drive and assisted hydraulically controlled steering.



2012

New lighting towers range MOSA.



2016

BCS introduces into the market the isodiametric tractors K105 series with electronic management and Tier 3B emission engines.

2017

MOSA streamlines the entire range of generating sets and presents the new TS EVO Multi4<sup>®</sup> engine driven welder.



# INTERNATIONAL VOCATION



The distribution activity in Italy is delegated to more than 700 dealers and retailers. The BCS Group is present throughout the world with a broad structure comprised of a representative office in Russia and a distribution and service network covering over 100 countries, as well as its sales subsidiaries in Spain, Portugal, France, Germany, India, China and Brazil.

## **SUBSIDIARIES**

Terrassa - Spain  
Saint-Martin-Bellevue -  
France  
Benavente - Portugal  
Allershausen - Germany  
Ludhiana - India  
Changzou - China  
Garibaldi - Brasil

## **DISTRIBUTORS**

### **AFRICA**

Algeria  
Angola  
Burundi  
Cameroon  
Congo  
Egypt  
Eritrea  
Ethiopia  
Gabon  
Ghana  
Kenya

Lybia  
Morocco  
Nigeria  
Rwanda  
Senegal  
Sudan  
South Africa  
Tanzania  
Tunisia  
Zambia

### **AMERICA**

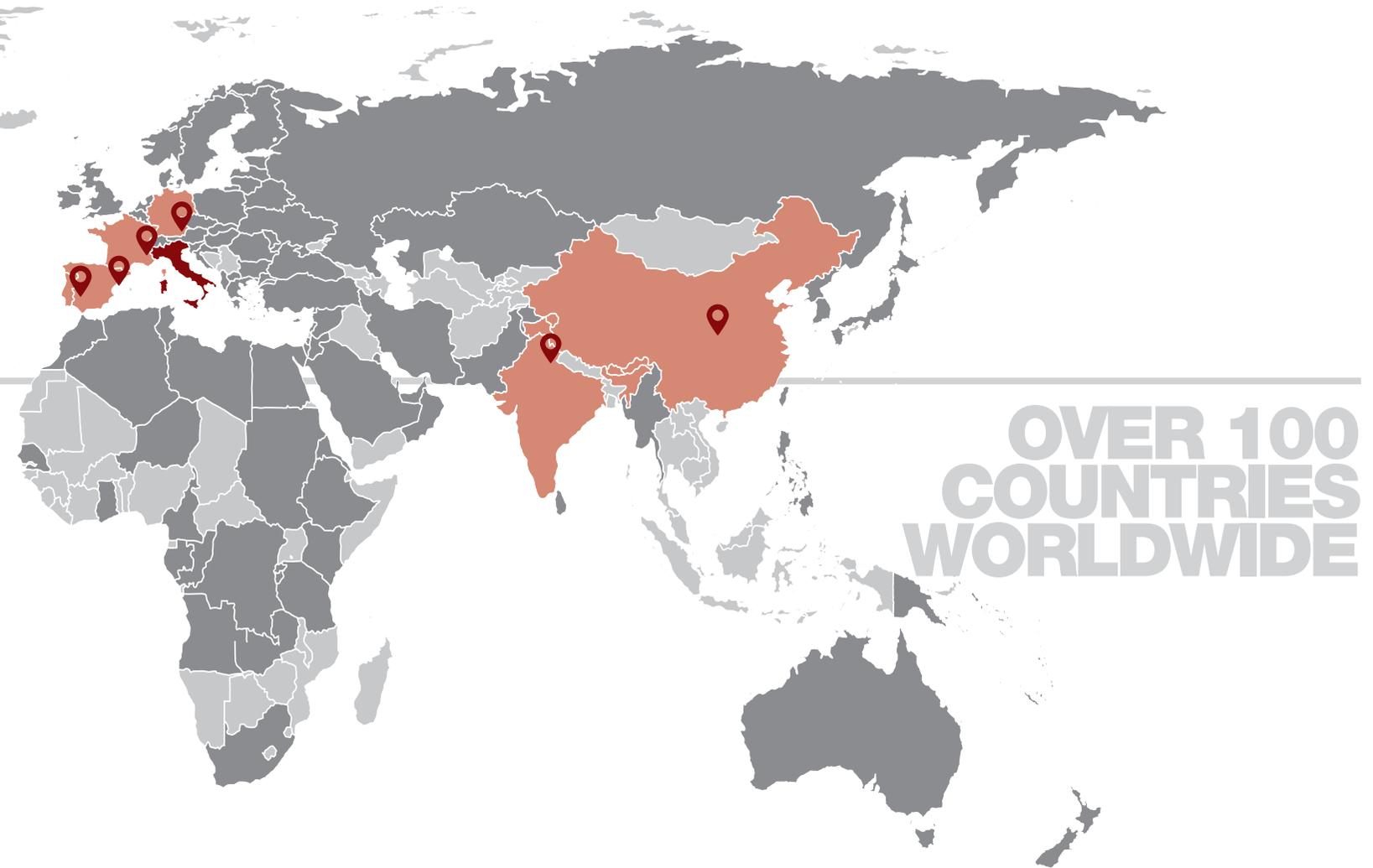
Argentina  
Antilles  
Barbados  
Canada  
Chile  
Colombia  
Ecuador  
Guadeloupe  
Maldives  
Mexico  
Panama

Peru  
Dominican Republic  
United States  
Uruguay  
Venezuela

### **ASIA**

Cambodia  
China  
South Korea  
Philippines  
Japan

Hong Kong  
Indonesia  
Kazakhstan  
Myanmar  
Pakistan  
Singapore  
Sri Lanka  
Thailand  
Taiwan  
Uzbekistan



#### **EUROPE**

Albania  
Austria  
Belgium  
Belarus  
Bulgaria  
Cyprus  
Croatia  
Denmark  
Estonia  
Russian Federation  
Finland  
Georgia

Germany  
Great Britain  
Greece  
Ireland  
Faroe Islands  
Latvia  
Lithuania  
Luxembourg  
Macedonia  
Malta  
Moldova  
Montenegro  
Norway

Netherlands  
Poland  
Czech Republic  
Romania  
San Marino  
Serbia  
Slovakia  
Slovenia  
Sweden  
Switzerland  
Turkey  
Ukraine  
Hungary

#### **MIDDLE EAST**

Saudi Arabia  
United Arab Emirates  
Jordan  
Iran  
Israel  
Kuwait  
Lebanon  
Oman  
Qatar  
Syria

#### **OCEANIA**

Australia  
New Caledonia  
New Zealand  
Papua New Guinea  
Tahiti

# **RESEARCH, DESIGN AND INNOVATION**





An endless push towards progress is expressed in the company's constant commitment to research and development.

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**A never-ending commitment.**

The BCS Group has always been oriented towards ongoing product innovation across all its business sectors. Every location of the BCS Group has a dedicated research and development centre, where a team of experts operates with corresponding specialisations and are supported in the designing phase by state-of-the-art three-dimensional software.

Each new product is configured as an evolved combination between close attention to market needs, the BCS Group's exclusive wealth of experience

and the in-depth human resource skills dedicated to this process.

Each research centre is connected to an experimental prototype production department, subjected to structural, dynamic, power and noise tests as well as electrical, electronic and hydraulic systems tests, thus laying the foundations for the products' homologation.

A special mechatronic laboratory develops electronic drive and control devices for tractor operation. In Luzzara, there is a tractor test track that simulates the main land conformations and crop characteristics on which the Group's tractors will be used.



# PRODUCTION PROCESSES

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MECHANICAL  
MANUFACTURING

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SHEET METAL  
MANUFACTURING

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THERMAL  
TREATMENTS

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PAINTING  
PROCESS

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ASSEMBLY

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QUALITY CONTROL

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A Group that integrates all critical processes and treatments internally, aiming to guarantee high-quality products in all aspects.

**A comprehensive supply chain management.**

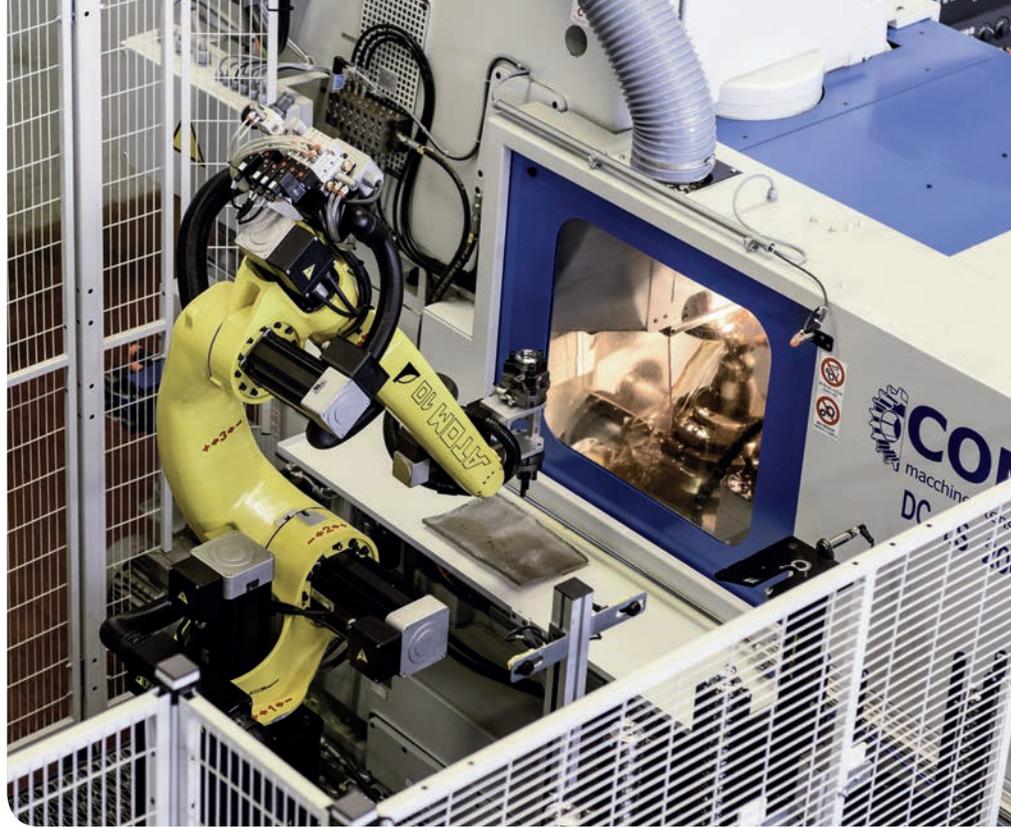
The production process, entirely developed in the Group's manufacturing units, is structured vertically to enable a complete management of the supply chain, from the raw material to the finished product. This integration between the various production centres facilitates a virtuous mutual exchange of skills. The objective is to achieve an optimal QCD (Quality Cost Delivery): or rather, to produce a high-quality product. An integrated ERP information system, interfaced with a scheduler, provides the most suitable sequence of individual orders, to facilitate the most rational and efficient work plan.

**Lean production and steady progress.**

Minimising waste by encouraging constant improvement of the production process: this is the philosophy guiding the BCS Group's production centres. This is achieved by involving and motivating the Group's human resources, aiming towards constant improvement in outcomes, by following the most advanced principles of corporate governance.

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## MECHANICAL MANUFACTURING



### High precision, total reliability.

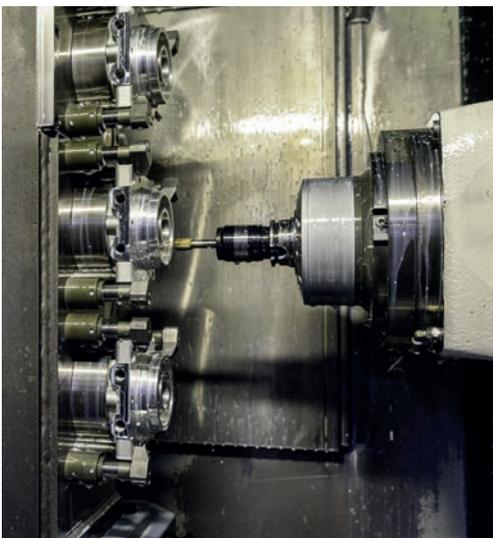
The quality of the BCS Group products is largely based on mechanical manufacturing: state-of-the-art Computer Numerical Control machines are used to manufacture gearboxes, axles, gears, transmission axles and all the main components of the Group's products.

Some plants can operate in continuous cycle, unattended and remotely controlled.

The high productive versatility allows the Group to adapt quickly and effectively to the needs of the market, guaranteeing the highest standards of reliability.

### The accurate management of the hobbing process.

The complete verticalisation of the production cycle allows the BCS Group to manage the delicate hobbing process in-house, combining maximum productivity and accuracy. Every year about 500 thousand gears are produced in the Group's factories using state-of-the-art robotic equipment. Each batch is tested to verify the gear tooth profile with 3D control instruments, ensuring the highest quality and repeatability standards. Guaranteed reliability and component durability as well as low noise levels of the transmission.



## PRODUCTION PROCESSES

### SHEET METAL MANUFACTURING



#### **Robot systems to ensure constant high-quality.**

A Finn-Power laser and punch sheet metal cutting system is used for multiple and accurate processing of the sheet metal used in the structural steel works of the Groups products, operating on a wide range of thickness and shapes. The system uses state-of-the-art servo-electric technology integrated with an automatic bending cell, to produce various types of bends and curved profiles. High productivity is combined with consistent production quality.

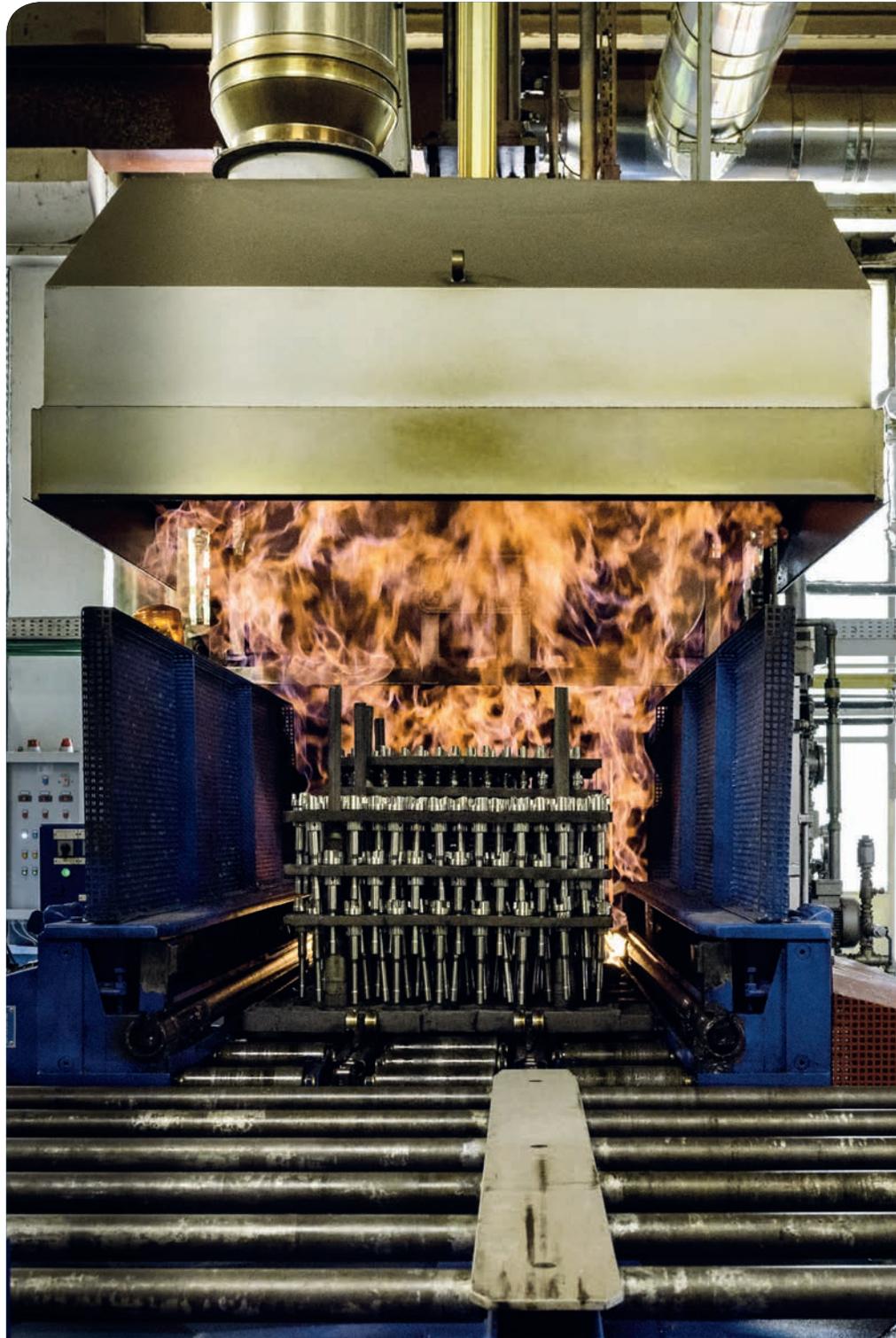


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## THERMAL TREATMENTS

**Selected and thoroughly processed raw material.**

The thermal treatment of materials is an essential process to guarantee the quality of the mechanical components manufactured by the Group. This is why the company has set up a state-of-the-art department for thermally treating, under a controlled atmosphere, the materials used to manufacture the wide range of machine components. Operating 24 hours-a-day, the unit is fully automated and programmable. It also includes a materials testing laboratory, equipped with sophisticated analysis equipment, and a centre of excellence for metallurgical and metallographic analysis.



## **PRODUCTION PROCESSES**



## **PAINTING PROCESS**

**Each piece is painted  
to ensure its durability.**

The BCS Group's plants are equipped with advanced automated painting equipment, where all parts are prepared and painted before passing on to the firing process, in order to guarantee the colour fastness, brightness and scratch resistance. The painting process is carried out in compliance with the strictest safety parameters for workers. The powder coating used, developed in compliance with the strictest specifications, is based on polyester resins with very high resistance to atmospheric agents and UV radiations and on pigments selected for their high thermal resistance and lightfastness.



## ASSEMBLY

### Assembly lines and production isles.

The components of a wide range of machine models manufactured by the Group are assembled in a series of assembly lines and dedicated production islands by highly experienced and qualified personnel. During this phase, the Group uses the principles of "lean production" and "kaizen", aiming towards constant improvement. The assembly lines are served by islands manned by warehouse operators who pick up the kits sent for assembly. This makes the assembly of each machine more efficient and precise. All products are subjected to specific inspections and functional tests before being placed on the market, as a guarantee to customers.

## QUALITY CONTROL

### A certified system at all stages.

The quality control of materials, production cycles and finished products is one of the aspects to which the BCS Group has always paid the utmost attention.

Employees, within their departments, use self-control systems for their respective processes. All the BCS Group's production centres are certified in compliance with ISO 9001 standards. Certified procedures, besides guaranteeing the quality of the product during the design and manufacturing phases, they also protect employees and the environment.



## **LOGISTICS & SUPPORT**

The BCS Group's spare parts warehouse is organised to meet the daily demands of a vast range of operating machines.

### **Spare parts warehouse.**

In order to increase the verticalisation of all processes, a single spare parts warehouse has been set up for all BCS, FERRARI, PASQUALI and MOSA machine components. Automated vertical warehouses offer an effective and rapid service to the subsidiaries and, through them, to dealers and retailers. On a logistical level too, the various production centres are integrated with each other, both through a single information system that plans and manages deliveries and through a fleet of vehicles dedicated to supplies within the Group.





### **A capillary network.**

Through its dealers, located in more than 100 Countries where the BCS Group's products are sold, an after-sales service ranging from routine maintenance to extra-ordinary assistance is guaranteed to ensure the best performance of machines used in the farming or energy sector.

### **Ongoing training and development.**

The pre- and post-sales consulting and assistance relationship between the BCS Group and its sales and distribution network is also reflected through the organisation of recurring training and refresher courses for technical personnel, as well as workshops and meetings on the most important legislative changes.



## COMMERCIAL TRADEMARKS



**MOTOR MOWERS, TWO-WHEEL  
TRACTORS, HAYMAKING MACHINES,  
TRACTORS.**

Since the invention of the first self-propelled mower in 1943, the BCS trademark has established itself worldwide for the superior characteristics of its vehicles, as well as their quality and constant innovation. BCS machines are truly unique on the international scene. The extreme versatility of the motor mowers, the extraordinary lightness and compactness of the two-wheel tractors, the sturdiness and cutting speed of the disk mowers and mowers-conditioners,

the wide range and agility of the tractors with short wheelbase or isodiametric, monodirectional or reversible, all bear witness to this.

There are many patents covering aspects and operational functions of the machines, with the aim to make the work of the users safer, more efficient and comfortable. The innovation is completed in terms of engine emission control and reduction, in line with the strictest parameters imposed by international institutions.





**FERRARI**

**MOTOR MOWERS, TWO-WHEEL  
TRACTORS, TRACTORS.**

The History of the Officine meccaniche Ferrari S.p.A. in Luzzara (Reggio Emilia) has its origins during the post-war reconstruction of Italy and intertwines with the farming development and mechanization of the 50's.

Recognised from the start for the high technological content of its products, it joins the BCS Group in 1988. Its range of motor mowers and two-wheel tractors stands out for the great operational flexibility they

offer on all types of land, while its tractors represent the ideal choice for companies operating in the wine, fruit and vegetable sectors, due to their great flexibility and manoeuvrability. In this case, too, there are several patents developed by the BCS Group that are used on several models produced by the company, with the aim to increase safety and comfort for the operator and improved efficiency in terms of reduced consumption and emissions.

## **COMMERCIAL TRADEMARKS**



**pasquali**

**TWO-WHEEL TRACTORS, TRACTORS.**

Pasquali Macchine Agricole is a trademark known for having created its first two-wheel tractor in 1949 and for introducing a revolutionary four-wheel drive, isodiametric and articulated central steering mini-tractors since the 1960s. Pasquali Macchine Agricole joined the BCS Group in 1999, maintaining its own

identity while significantly innovating its machines in terms of technology and design. The research and development activities carried out by the BCS Group are reflected in the new models which have expanded the production range over time.



**ENGINE DRIVEN WELDERS,  
GENERATING SETS, LIGHTING TOWER**

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For over 50 years, MOSA has been a worldwide leading trademark in the production of generating sets, engine driven welders and lighting towers. They can be used as a primary energy source and are available in the widest ranges, with petrol or diesel engine and with a single phase or three-phase alternator, ranging from 3,000 rpm models with powers up to 18 kVA (Naked portable range, S-silenced and SX super-silenced) to 1,500 rpm models in silenced or super-silenced version with powers up to 410 kVA. They perform extremely well and have a contemporary and user-friendly design.

The MOSA engine driven welders are manufactured for heavy industrial use and are available in a wide range of models, portable or not, with autonomous petrol or diesel engines, equipped with asynchronous alternators and electronic or digital welding current regulation systems.

The design principles and the manufacturing precision typical of MOSA production also stands out in the lighting towers, which are characterised by the exclusive upper protection of the telescopic pole and the use of LED lamps.





## ITALY

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BCS S.p.A.

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Fax: +49 8166 99 825 - 55  
email: [info@mosa.de](mailto:info@mosa.de)  
[www.mosa.de](http://www.mosa.de)



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598  
email: [bcs@bcs-ferrari.in](mailto:bcs@bcs-ferrari.in)  
[www.bcs-ferrari.in](http://www.bcs-ferrari.in)



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Changzhou  
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Fax: +86 0519 88 99 08 00  
email: [bcsagrichina@163.com](mailto:bcsagrichina@163.com)  
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