



It's time to maximize the value of **METALS** 



# WHO IS PANIZZOLO Made-in-Italy technologies up to End-of-Waste treatments

1988

Mauro Panizzolo focused

the company on scrap

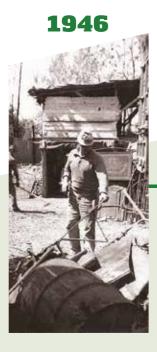
processing, designing the

first hammermills in-house.

We are the **ideal partner** for all companies facing **sudden changes** in the scrap market. Faced with **more complex** waste, it becomes essential **to rely on new technologies** that are able to support consistent business strategies, **stringent environmental regulations** and the demand for **increasingly refined products**. Panizzolo solutions are designed with this in mind. We continuously pass on our direct experience and carry out constant research and development, so that our customers can operate profitably until the complete recovery of secondary raw materials.

# **OUR HISTORY** Towards the future of the sector

We are an established **Italian brand**, recognised worldwide for the high **manufacturing performance** of the technologies we design. All our activities are governed by a **stringent quality policy**, based on international industrial models and perfected through the historical **activity of direct users**.



Pietro and Orlando Panizzolo founded a business based on the scrap and waste trade.



Definition of the Panizzolo hammer mill with **patented cradle**. The first models were then **marketed**.

# 2014

Creation of the **Panizzolo Recycling Systems** brand and shift to a policy of supplying **complete** scrap processing and metal recovery **plants**.



Expansion of the product range with the Panizzolo Refining Plant, including the patented refining mill.

#### 2021

The pandemic does not slow the company's growth process. With the expansion and strengthening of its international presence, Panizzolo increments its operation by opening a third site.





#### Towards the future of the sector

Creation of the 'Panizzolo Recycling Academy', focused on supporting customers with specific training plans.

# **OUR VALUES** We are the ideal partner for your business

"Reaching objectives with the customer is one of the greatest satisfactions at Panizzolo. A satisfied customer is a customer that, with our systems, is doing good business". Mauro Panizzolo

### Mission

Panizzolo provides competitive, cutting-edge metal waste recovery and processing solutions, designed to maximise the return on customers' investments.

We are convinced that the optimal design of a plant must be based on three aspects: profitability, flexibility and simplicity. Only in this way will companies be able to keep pace with market changes and seize new processing opportunities.

### Vision

Efficiency, flexibility and innovation are benefits working synergistically to turn our recycling processes into valuable, profitable allies of the environment.

#### **OUR CORPORATE** PHILOSOPHY

At Panizzolo we strongly believe that people are the most precious resource for achieving success as a team and as a company. We care for our staff the same way we care for our customers, so that everyone can put into practice and develop their personal talent and professionalism.

# What drives our work every day?

#### **Customer orientation**

This means managing the relationship with the customer with clarity, professionalism and in a timely manner.

#### Responsibility

Each project is managed with the **understanding** that our work is reflected in the long-term achievement of the customers' business goals.



#### Professionalism

We apply established working methods, representative of the company's mission and vision.

#### Internal communication

We believe inactive **collaboration**, promoting information sharing and constructive discussion.

# **GIVE VALUE TO YOUR SCRAP** What is your treatment requirement?

We specialise in providing technologies for processing a variety of scrap, enabling the optimal commercial valorisation of metals up to their complete transformation into secondary raw material.

Our technical department carries out the development of the flow layout after a careful analysis of the incoming **material** and the installation area, ensuring a consistent development of logistics and production requirements.

# **REFINING OF MIXED FRACTIONS** For the recovery of metals from wear-causing waste

Our refining plant is designed to process highly wear-causing waste categories, allowing their recycling cycle to be closed and the contained metals to be profitably recovered.

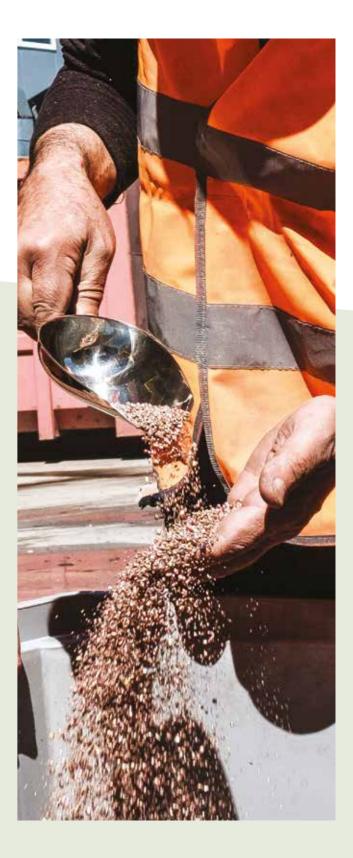
This plant only performs mechanical treatments, and specialises in the recovery of the smallest metal fractions, resulting in the output of high quality copper, aluminium, brass and steel granules that can be classified as Secondary Raw Materials.

#### THE FUTURE LIES IN MANUFACTURING EXCELLENCE





- **Copper** from electric motor grinding with the presence of iron, plastic, stainless steel, etc.
- Fluff from car grinding (CAR-FLUFF), from mixed metals, from WEEE and from floatation
- Cables contaminated by stainless steel, brass, iron and ACSR cables
- Aggregates containing metals
- Alucubond, Aluminium caps, etc.
- Other mixed fluff waste resulting from pre-treatments and containing a mixture of copper, aluminium, steel, glass and cement dust.



# **A SINGLE SUPPLIER** Up to turnkey treatment cycles

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**End-of-Waste** 

treatments

**Concentration** 

and Refining

 Metal sensors • Pre-refinery mills • Refining mills • Densimetric tables • Optical separator

Our company boasts the **broadest technology portfolio** dedicated to scrap processing and secondary raw material recovery. Our customers can choose single machines or turnkey installations, supplied complete with software for control automation.

The high level of engineering ensures rapid process upgrades and simple conversions to different types of scrap.



Shredders

Openers

#### **Grinding and** Ο Separation Mobile Hammer Mills

- Stationary Hammer Mills
- Magnets
- Zig-Zag
- Eddy current
- Dynamic Shake

X-ray

Sieves

#### PANIZZOLO RECYCLING SYSTEMS



# **DIRECT EXPERIENCE SINCE 1946** For a high quality production chain

# **OUR PATENTS** Smart simplicity is the real innovation

The many experiences we have gathered over the years as direct users have been fundamental in developing the **Quality Policy** that sets us apart in the market today. This ensures high design standards throughout our production chain, from the initial design phase through to after-sales training. With the help of a highly specialised technical team, we are aware that our task is to provide simple and reliable technologies that sum up the concept 'time is money'.





In addition to offering the **best** productivity to energy consumption ratio, our machines incorporate patented elements that improve the treatment process, increasing the profitable recovery of secondary raw materials.



#### **One-of-a-kind hammermills** in the sector

With the insertion of a special patented and interchangeable element, our hammermills are characterised by the processing of a greater variety of scrap metal, fast output size settings and the absorption of the most intense vibrations produced by the processing cycle. In this way, our customers can immediately achieve excellent results in terms of production capacity, treatment quality and reduced maintenance costs.



#### **Refining of highly** wear-causing waste

The **patented elements** in our refiner mills guarantee multiple advantages when processing waste with high percentages of glass, cement, steel and other wear-cau**sing** aggregates. The benefits our customers obtain are found in fully in-line processing, the elimination of non-marketable sub-products, the recovery of secondary raw materials and the operation of a flexible and easyto-use plant.



# **CONTROL AND SUPERVISION SOFTWARE** Optimise treatment according to your business

Using our software you will clearly control the production process of our plants, either on-board or remotely in a simple and autonomous manner.

The use of **automated processes** is a well-known topic, but one that few companies benefit from today. That is why all our plants incorporate **specially developed** 

# **THE MOST IMPORTANT FUNCTIONS** Make a difference in day-to-day management



Where it is possible to **control the entire production process** and anticipate overloads or abnormal be-haviour.



Structured with the dual purpose of **recording and scheduling** routine **control and maintenance** work on individual machines. **software** to assist you in the valorisation of your scrap. In fact, our **direct experience** has enabled us to analyse those parameters that directly influence the processing cycle, **guaranteeing full control** over absorption, measurements, pressures and all those data that characterise the standard functionality of technologies and treatment.



#### Processing settings

Where you can **view and customise** specific parameters, creating customised processing **categories** for each **scrap** processed.



#### Safety and allarms

Designed to provide you with a **complete diagnosis of any anomalies**, allowing you to clearly identify the problem and **to start back up again** as quickly as possible.

# **OUR AFTER-SALES SERVICE** All-round quality services

# **PANIZZOLO RECYCLING ACADEMY** Discover our training program

We know and understand needs that customers encounter during the daily use of our recycling solutions. For this reason we are continuously **committed** to providing the best after-sales service on the market, supporting companies from the point of view of warranties, spare parts, assistance and training courses.



#### **The Panizzolo Warranty**

Over the years, our high level of know-how has enabled us to go in-depth into the design of individual components, especially in relation to the most strategic elements that determine production performance. This is why every machine we sell follows a well-established testing procedure and incorporates our special warranty coverage.

### Panizzolo Recycling Academy

Our turnkey service ends with the opportunity to participate in an in-depth training course aimed at transferring the most important functional aspects of the technologies we design.

The Academy service includes specialised and technical training, designed both for customers and

#### **Original Panizzolo spare parts**

Why choose original Panizzolo spare parts? Only those who are familiar with the machinery you work with can produce the **best quality** parts. Our complete range of spare parts meets the most stringent quality standards, guaranteeing optimum performance in terms of strength, performance, durability and safety, helping to maintain the production efficiency of the entire plant over time.

#### **Specific assistance** packages

Scheduled maintenance packages, operational treatment consultation, on-site or remote assistance are just some of the after-sales services we have created to support our customers.

Each of our machines has specially designed packages to avoid sudden production stoppages or extraordinary expenses.



for operation and maintenance personnel. Being modular, the course offers streamlined learning in the shortest possible time, enabling efficient and safe management even in the long term.

To this end, the Panizzolo Recycling Academy has structured a **learning program** that perfectly combines theory and practice, according to our highest quality standards. This ensures an excellent knowledge tran**sfer** to our customers, allowing them to operate in their target market with a real competitive advantage.

# Plants for the **RECOVERY OF METALS**

from scrap and waste





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