



# ALUMINIUM **TECHNOLOGY**

# INDEX

---

**06**    NOVELLINI INDUSTRIES

---

**08**    NOVELLINI ALUMINIUM

---

**12**    TECHNICAL DEPARTMENT / R&D

---

**14**    FOUNDRY

---

**16**    EXTRUSION

---

---

**18**    MACHINING

---

**20**    FINISHINGS

---

**25**    PACKAGING & LOGISTIC

---

**26**    APPLICATION AREA

---



## MISSION

Thanks to our enthusiasm, to our team work and to our values, we want to improve the quality of life of all, that, in the world are looking and research excellence for their homes and their families, through the use of the best technologies elated from passion and intellectual involvement, born from research of beauty in all that we do.



## VISION

To be the reference point for excellency and the culture of bathroom furnish in the world. The most innovative company that proposes better products and better services. Through this, to grow and to become leader in the high segment of the market in the world, creating values to the resources that participate to our activities and to the territory.













## VALUES

Core values are passion for excellence, understood as love of the beautiful and the well done and ethics understood as long term value through sustainability, transparency and valuing people. We want to put in the center of our choices the man and the quality of people's lives, always driven by passion in everything we do.



## NOVELLINI GROUP BUSINESS UNITS

-  HEAD OFFICES
-  HOSPITALITY
-  GLASS FACTORY
-  SHOWER ENCLOSURE PRODUCTION
-  WAREHOUSE AND SHIPPING DEPARTMENT
-  RAW MATERIAL WAREHOUSE
-  FOUNDRY
-  ALUMINIUM EXTRUSION AND PRODUCTION
-  WELLNESS PRODUCTION
-  PLASTIC MOULDING



1°

**THE BIGGEST  
PRODUCER  
IN EUROPE  
IN BATH  
PRODUCTS**



774

**EMPLOYEES**



**SERVING 50  
COUNTRIES  
WORLDWIDE**



160.000.000

**TURNOVER  
GROUP**



250.000 M<sup>2</sup>

**COVERED  
PRODUCTION  
AREA**



1.000.000

**PRODUCTS  
PER YEAR**





---

# ALLUMINIUM A PRECIOUS MATERIAL





“

**«WE MUST USE ANOTHER METAL INSTEAD OF CAST-IRON».**

**«BRASS?» SUGGESTED MORGAN**

**«NO; THAT IS TOO HEAVY TOO, AND I HAVE SOMETHING  
BETTER THAN THAT TO PROPOSE.»**

**«WHAT?» ASKED THE MAYOR.**

**«ALUMINIUM» ANSWERED BARBICANE.**

**«ALUMINIUM!»**

**CRIED ALL THE THREE COLLEAGUES OF THE PRESIDENT.**

**“FROM THE EARTH TO THE MOON”, JULES VERNE, 1865**

To build the spaceship able to reach the moon Jules Verne chose the aluminium. Lightness and resistance, these were the qualities that in 1865, in “From the Earth to the Moon”, made them opt for the silvery white material.

# NOVELLINI INDUSTRIES

## THE COMPANY

Novellini Industries, company of Novellini Group, has been founded in 1966 for the production of profiles used by the mother company for the bathroom market. By that moment unique qualities and technologies made it a unique excellence.

Novellini Industries S.r.l., today is a company specialized in the production of semifinished aluminium products, and is able to provide a wide range of items, thanks to the integrated production.

### 1966

**Novellini born as a small factory specialized on iron and aluminium machining.**



### 1980

**Novellini start with the production of the bathroom products and increase the business also in European market.**



### 1996

**Novellini begins the production of extruded aluminium.**





# 2002

**Novellini build is own aluminium division specialized in Foundry.**



# 2008

**Novellini developed an application of PVD on aluminium to substitute the chrome plating.**



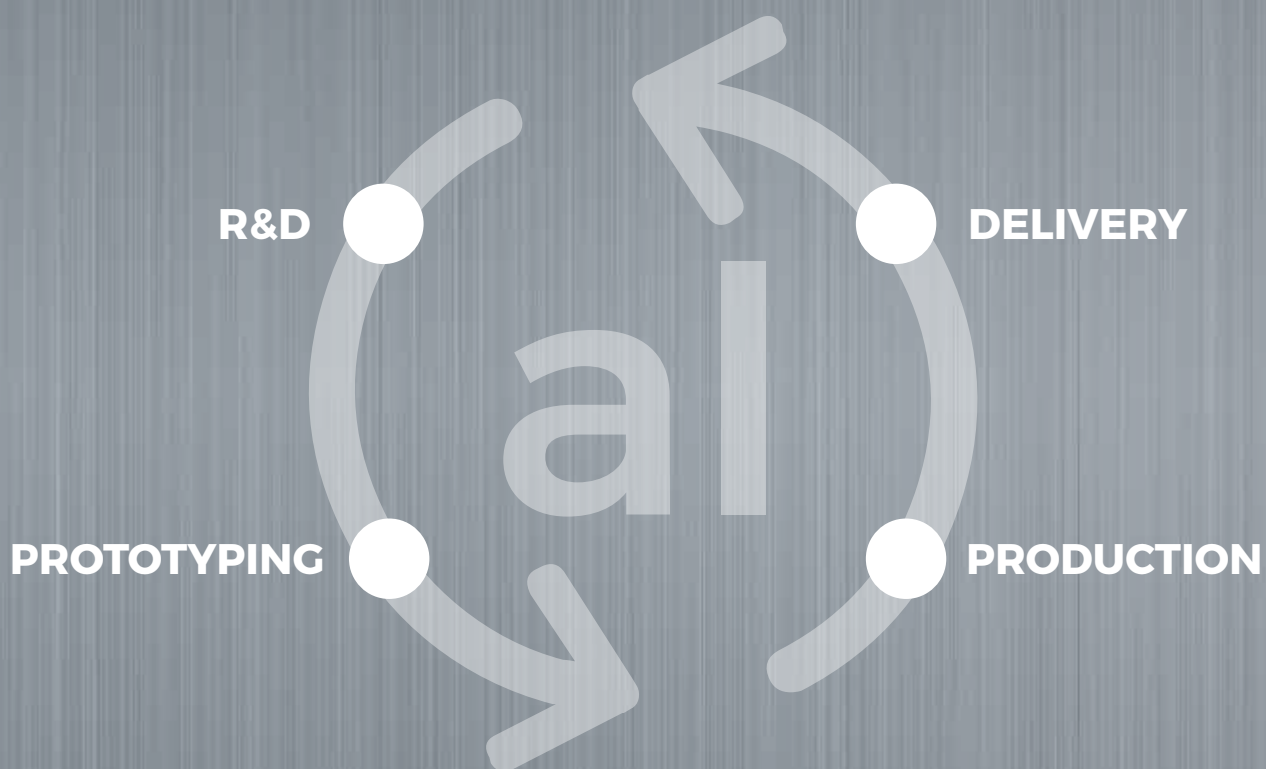
# 2015

**Implementation of machining centers for profile processing.**





# NOVELLINI FULL SERVICE SUPPLIER



ISO 9001:2013  
certification

Thanks to the internal production and control of all the production fases, production and TIME2MARKET time are guaranteed.



**FOUNDRY**



**EXTRUSION**



**MACHINING**



**FINISHINGS**



**PACKAGING &  
LOGISTIC**





---

# NOVELLINI ALUMINIUM

## PLUS





# DUCTILE

easily workable and extrudable depending on the design



# RESISTANT

high mechanical characteristics and resistant to corrosion



# LIGHT

specific weight 1/3 of the steel



# NATURAL

natural origin, non-toxic and non-magnetic



# EVERGREEN

totally recyclable for an eco-sustainable use



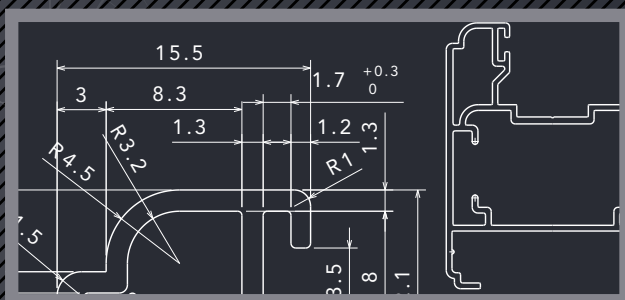
# ENVIRONMENTALLY FRIENDLY

production processes and surface finishes with low environmental impact

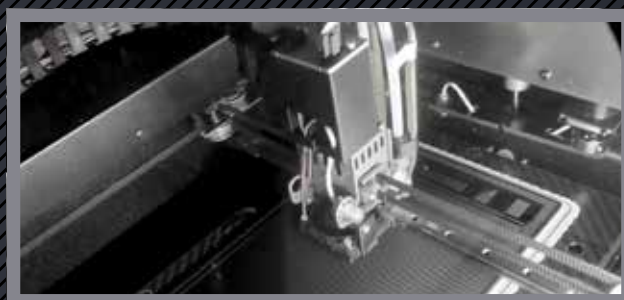
\_\_\_\_\_



**THE R&D DEPARTEMENT, SPECIALIZED IN TECHNICAL AND TECHNOLOGICAL DEVELOPEMENT OF PRODUCTS, IS ABLE TO SUPPORT THE CUSTOMER WITH AN APPROACH OF PURE CO-DESIGN.**



## **CAD/CAM DESIGNING**



## **RAPID PROTOTYPING**



## **INTERNAL LAB TEST**

Acetic acid salt spray ISO 9227  
Cass Test.  
Machu Test.  
Dry adherence test ISO2409.  
Umid or boiling water adherence test.  
Scraping test, with device for rubbing test (Mod. 494 Erichsen).  
Thickness measurement with Fischerscope-X Ray.  
Taber Test Method for abrasion test.



# FOUNDRY



**JOINT VENTURE  
NOVELLINI/MEC**



- **FINDING ALUMINIUM SCRAPS  
WITH INCOMING CONTROL ACTIVITIES**
- **MELTING FURNACE**
- **PRODUCTION OF ALUMINIUM BILLETS  
(25.000 TONS PER YEAR)**
- **CHEMICAL ANALYSIS OF PRODUCTION**



**ALUMINIUM ALLOYS OF NORMAL  
PRODUCTION:**

**6060 / 6005 / 6082 / 3103**

**OTHER ALLONS ON REQUEST**





---

# EXTRUSION





- **TWO INTERNAL EXTRUSION LINES**
- **1800 TONS PRESSES EACH**
- **EXTRUDED PROFILES UP TO 2.5 Kg/m**
- **PROFILES GREATER THAN 2.5 Kg/m EXTRUDABLE WITH CONSOLIDATED LONG TERMS PARTNERS**



Extrusion with nitrogen to optimize and stabilize the process, allowing to improve the surface quality.

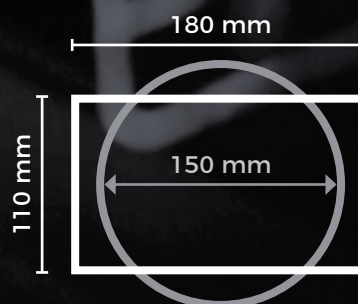


Chemical tests to detect problems before the end of the finishing process.

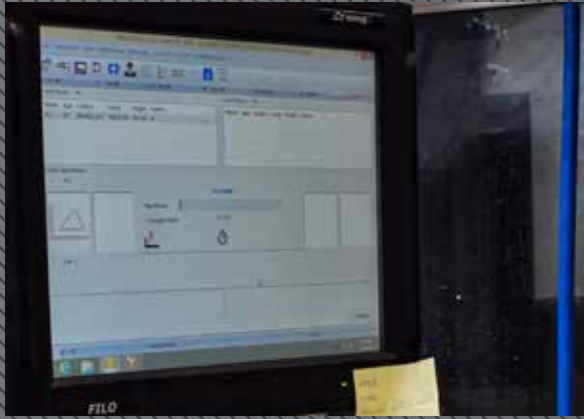


In line dimensional control system to detect critical heights and operate immediately.

Profile extrusion specifications on customer design



# MACHINING







**NOVELLINI INDUSTRIES DISPOSE  
OF A WIDE MACHINERIES  
INVENTORY TO CUT AND  
MECHANICAL MANUFACTURING  
OF PROFILES.**

**IT OFFERS CUTTED  
AND FINISHED PROFILES  
FOR THE CUSTOMER NEEDS.**

- CUT
- MILLING
- HOLING
- DRILLING
- SHEARING



---

# FINISHINGS

The offered finishes are divided in three types.:

- ▶ **POWDER COATING**
- ▶ **ANODIC OXIDATION**
- ▶ **PVD CHROME PLATING**









FINISHINGS

# POWDER COATING

DRY PAINTING PROCESS WITH EPOXY POWDERS THAT ADHERE TO THE PROFILES ELECTROSTATICALLY, COATING AND PROTECTING THEM

Novellini Industries has integrated two vertical powder coating plants certificated QUALICOAT since 1999.



RAL colours  
available  
on request

## PAINTING SPECIFICATION

- Vertical plant for 6,5 mt profiles just to be cutted.
- Vertical plant for 2,7 mt profiles finished before the paint coating.
- pretreatment with chrome free organic passivation.
- the paints are high quality epoxypolyester, high resistant to agents.

The coating plants use low enviromental impact treatments, chrome free and close circuit, with the total recycle of the process water:

- zero waste of the process water;
- Powder recycle 97%.



---

## FINISHINGS

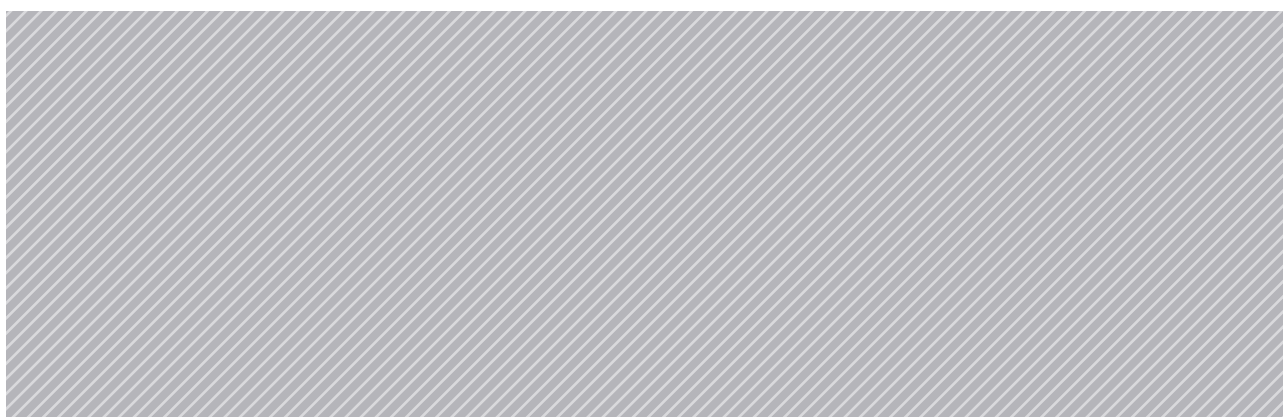
# ANODIC OXIDATION

**ELECTROCHEMICAL PROCESS WHERE A PROTECTIVE OXIDE LAYER COATS THE SURFACE AND PROTECTS IT FROM CORROSION, GUARANTEED BY CONSOLIDATED PARTNERS**

Available anodized finishings are:

- Matt chemical anodized Silver
- Glossy chemical anodized Silver
- Coloured and brillant anodized.





**Novellini PVD CHROME**  
has been selected as a new  
ecological Process finishing  
in the Material ConneXion Library.



# PACKAGING & LOGISTIC

- STUDY AND SUPPLY OF SPECIFIC PACKAGING ACCORDING TO THE CUSTOMER NEEDS
- POSSIBILITY TO MANAGE TEMPORARY STOCK OF FINISHED PRODUCT
- DIRECT DELIVERY THROUGHOUT EUROPE WITH NOVELLINI GROUP LOGISTICS DEPARTMENT
- EDI SYSTEM, WORKFLOW AUTOMATION AND DATA MAPPING
- SAP, BUSINESS MANAGEMENT SYSTEM





# APPLICATION AREA

## ■ FURNITURE

furniture, walls, flooring, curtains, air conditioning, fixtures, doors and windows, curtains and mosquito nets, structures for plasterboard and false ceilings.

## ■ TECHNICAL FURNITURE

dividing and equipped walls, shelves for racks, display cases, blackboards, shelves, displays, special profiles to design.

## ■ LIGHTING TECHNOLOGY

led lighting, street furniture

## ■ TRANSPORT

industrial and commercial vehicles, railways, nautical, aeronautical

## ■ AUTOMOTIVE

components for air conditioning, radiators, fittings and internal furniture

## ■ ELECTRONIC

heat sinks, photovoltaic panels.





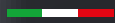




**NOVELLINI INDUSTRIES Srl**

Via Mantova, 1023  
46034 Borgo Virgilio  
Mantova - Italy  
Tel. +39 0376 64 2501

[www.novelliniindustries.com](http://www.novelliniindustries.com)



Designed and  
manufactured  
in **ITALY**

