

**Roda** **ALU**

ALUMINIUM DIVISION



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# RodaALU

## ALUMINIUM DIVISION

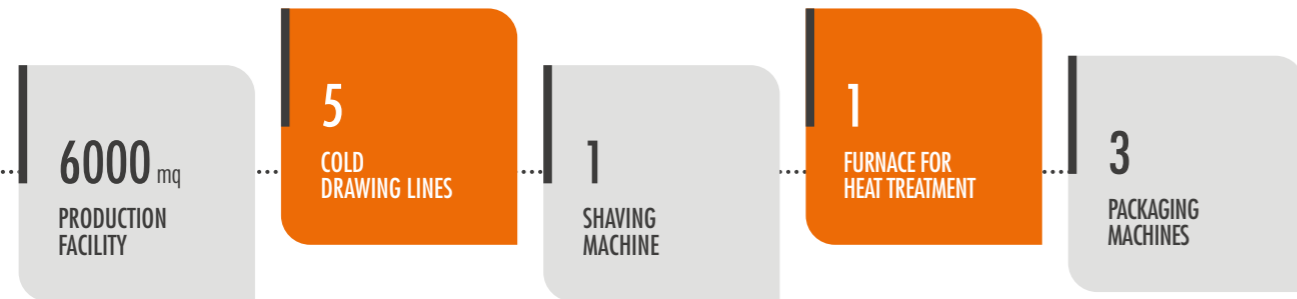
RodaALU represents the innovation's essence of Rodasteel Corporation and its ability to look to the future. The Corporation has started a customized niche production, aimed at continuous improvement, which has always been Rodasteel Corporation's goal. This new production line represents a significant step towards industrial excellence.

Thanks to the group's know-how and experience in metal industry, RodaALU is a tribute to Rodasteel Corporation's successful history but also a symbol of its commitment to the future: a meeting point of tradition and innovation, through

which Rodasteel Corporation reaffirms its leading role in industry, projecting itself toward new horizons with the new aluminium production range.

The idea was conceived to meet the requirements of the Corporation's customers, offering them a growing and more complete range of solutions, and the need to adapt to the market's technical changes.

RodaALU vision extends to the search of new aluminium applications, with the aim to expand the group's presence in key sectors and emerging markets at the same time.



## IN-HOUSE PRODUCTION

### MADE IN RODA

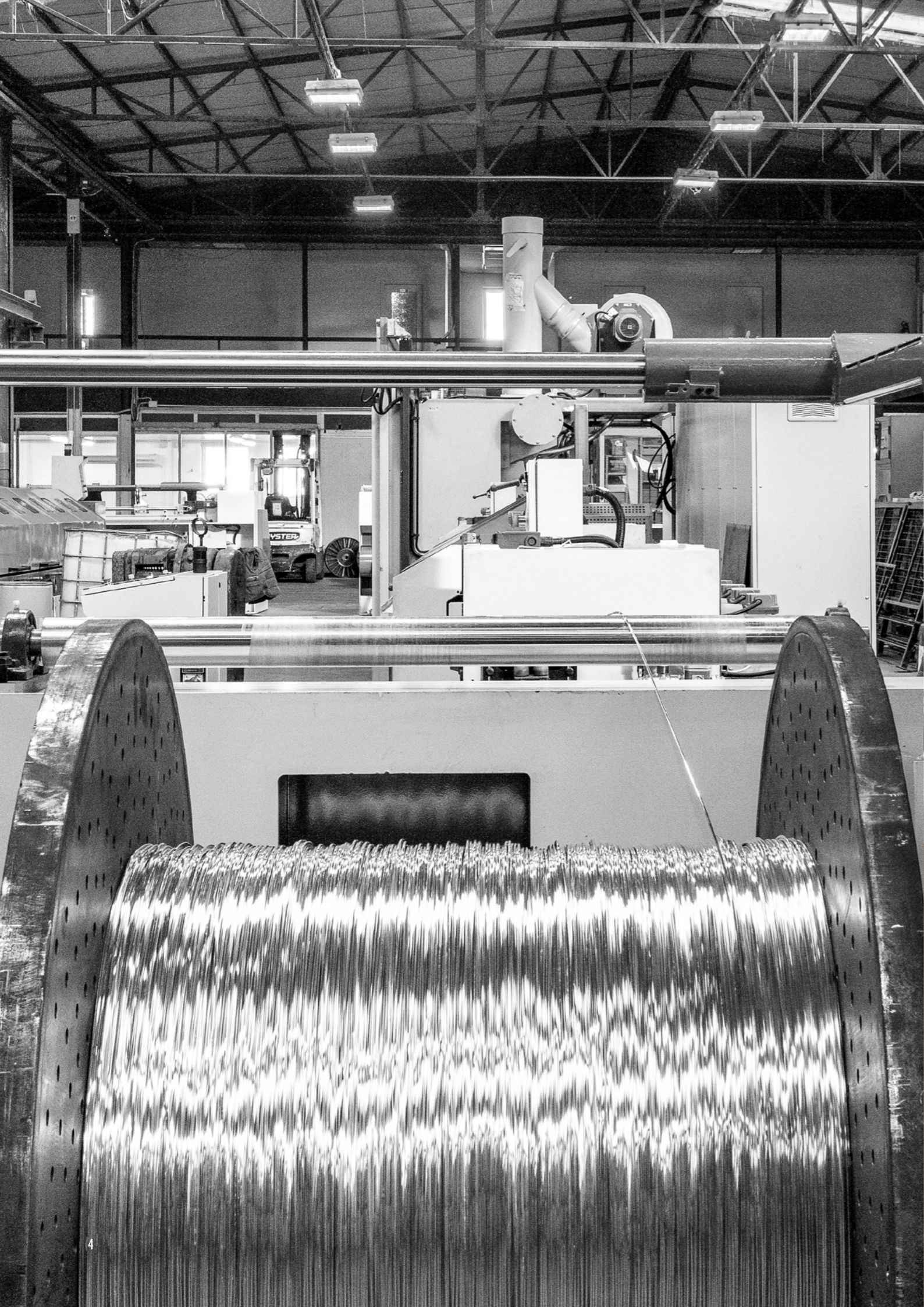
RodaALU has been developed through careful strategic planning and a substantial investment in advanced manufacturing technologies. The division is known for its use of cutting-edge equipment and the support of a skilled team dedicated to ensuring top-notch quality and performance at every step of production.

With 6000 square meters of covered area, the production unit houses 5 operational

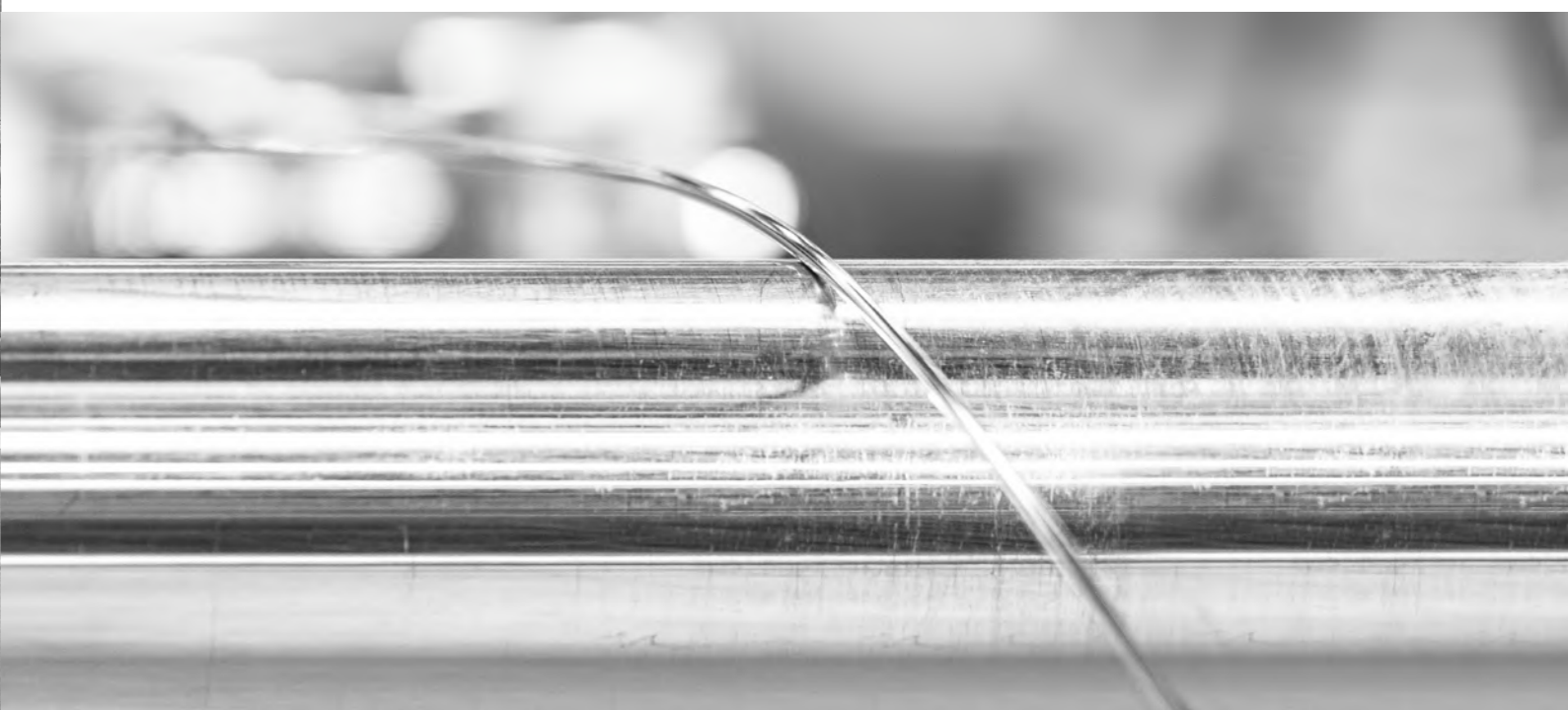
drawing lines as well as a heat treatment furnace, this in order to follow the in-house manufacturing strategy, monitoring each production process phase and developing "tailor made" product aligned with the customer's needs.

Maintaining entire production allows the company to control the performance looking for the continuous improvement.





# WHY RodaALU?



## PRODUCT CUSTOMISATION

One of RodaALU's strengths is precisely the essential and necessary customisation made possible by in-house product development and by **MADE IN RODA** production. The aim is to offer the market an innovative range of high-quality products, that can be customised according to the customer's end-use requirements and propose ad hoc solutions.

Thanks to a specialised R&D department and technical service, the company is able to offer a product that conforms to the customer's specifications and needs and provide continuous, high-level pre- and after-sales support. Versatility and competence ensure to follow the customer by proposing alternative solutions and becoming not just a supplier, but also an active development partner.

## SALES NETWORK

### **Rodacciai**

Country: Italy  
N° of distribution centres: 6  
Cities: Bosio Parini, Torino, Bergamo, Brescia, Padova, Bologna

### **RodaSpecialtySteel**

Country: USA  
N° of distribution centres: 3  
Cities: Los Angeles, Chicago, New Jersey

### **Rodastal PL**

Country: Poland  
N° of distribution centres: 1  
City: Gliwice

### **BİMEKS ÇELİK**

Country: Turkey  
N° of distribution centres: 3  
Cities: Istanbul, Ankara, Izmir



## CUSTOMER SERVICE

RodaALU, thanks to the strenght, flexibility and dynamism of Rodasteel Cooperation and to a large sales network, can offer to its customers a big range of products in a timely manner. The several distribution plants guarantee a rapid availability of the product, satisfying the requirements of an immediate supply supported by an efficient and decisive on-site service.

Moreover, the headquarter offers a high level of technical service also offers a high level of technical support, with specialists who not only adhere to product standards and track performance, but also create customized solutions for each customer's specific needs.



## QUALITY CONSTANCY

In order to guarantee high quality constancy, the company's strategy focuses on two indispensable points: the scrupulous selection of raw materials and centralised production. The group's strength allows to choose only the best in terms of available resources and reliable suppliers selected according to high company standards, guaranteeing excellent performance and quality.

**MADE IN RODA** production, additionally, allows internal control and monitoring of the production cycle.

Product development is based on a statistical analysis plan in which each phase is entered in order to obtain a high-performance product and to process immediate corrective actions.

## QUALITY CONTROL SYSTEM

Our quality control system is designed in order for each production batch of RodaALU to meet the highest productive standards. Through the implementation of rigorous controls in every phase of the production process, starting from the raw material to the finished product, the group commits to keep a constant quality level. The certification and the conformity to the international standards are a tangible sign of our commitment towards excellence.

 IGQ ISO 9001:2015 System Certification



## LAB & QUALITY CONTROL

The internal laboratory can boast modern equipment for quality control and materials' analyses, qualified experts conduct in-depth testing to determine the chemical and mechanical properties of aluminium, thus ensuring that every product respects the technical specifications and performance requirements.





## ALUMINIUM: PRODUCTION AND CHARACTERISTICS

At RodaALU, a process combining tradition and technological innovation characterizes the production of aluminium. Thanks to the only use of high quality raw materials and investment in state-of-the-art machines, the company is able

to obtain a product that excels in resistance and workability. Such characteristics makes it ideal for a wide range of applications: spanning from the automotive industry to mechanics to the production of consumer goods.



CORROSION  
RESISTANCE



STRENGTH AND  
RESISTANCE



WORKABILITY



ELECTRICAL AND  
THERMAL CONDUCTIVITY



RECYCLABILITY

## THE VERSATILITY OF ALUMINIUM: TENSILE AND SUSTAINABILITY

The group vision is focused on the development of products that significantly contribute to the reduction of energy consumption and  $\text{CO}_2$  emissions, especially in sectors like automotive and transportation. The mechanical tensile of aluminium, combined with its corrosion resistance, make it ideal to reach for durable and high-quality applications. Sustainability is at the heart of RodaALU's productive philosophy.

Aluminium, thanks to its natural recyclability and to its excellent properties, plays a crucial role in the promotion of eco-compatible productive practices.

The company commits to minimize our environmental impact by means of optimized processes, we promote the use of recycled aluminium and we invest in technologies capable of curbing the emissions and reducing energy consumption.

# ALUWELD

# ALUWELD

## ALUMINIUM FOR WELDING

ALUWELD, a product line dedicated to the welding of aluminium, is designed to offer the maximum resistance and reliability in the junctions.

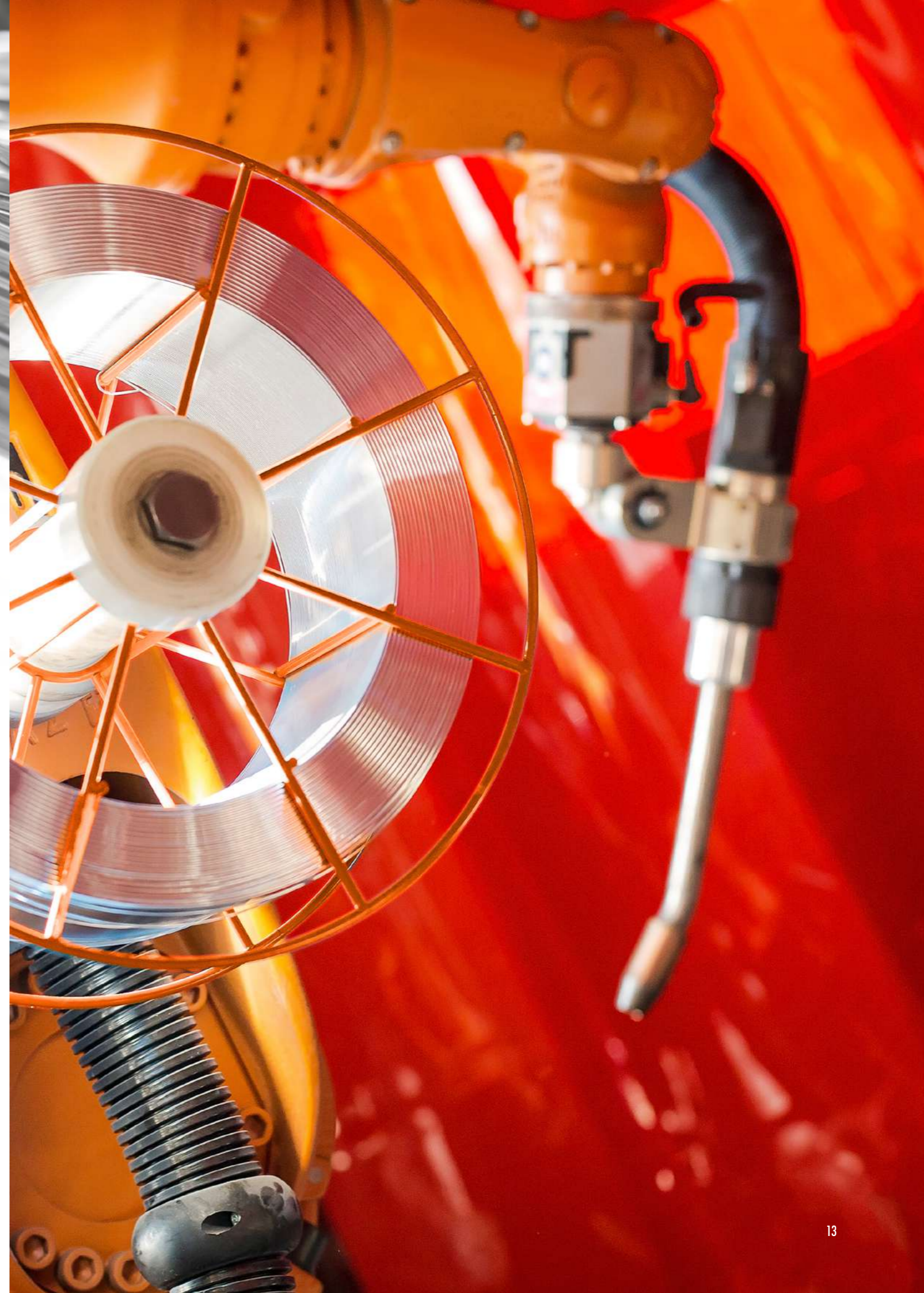
Thanks to a composition optimized to facilitate the welding process and to guarantee high-quality results, ALUWELD, perfectly adapts to different welding methodologies including MIG and TIG. It is therefore ideal for industrial applications and projects requiring precision and durability.

ALUWELD finds application in various fields, spanning from the automotive industry, where it is essential to manufacture light yet robust components, to the railway and naval industries, for which it offers solutions for structures exposed to extreme environmental conditions. The versatility of RodaALU makes it the preferred choice also for architectural structures and renewable energy projects, where corrosion resistance is fundamental. **The material is certified 3.1**

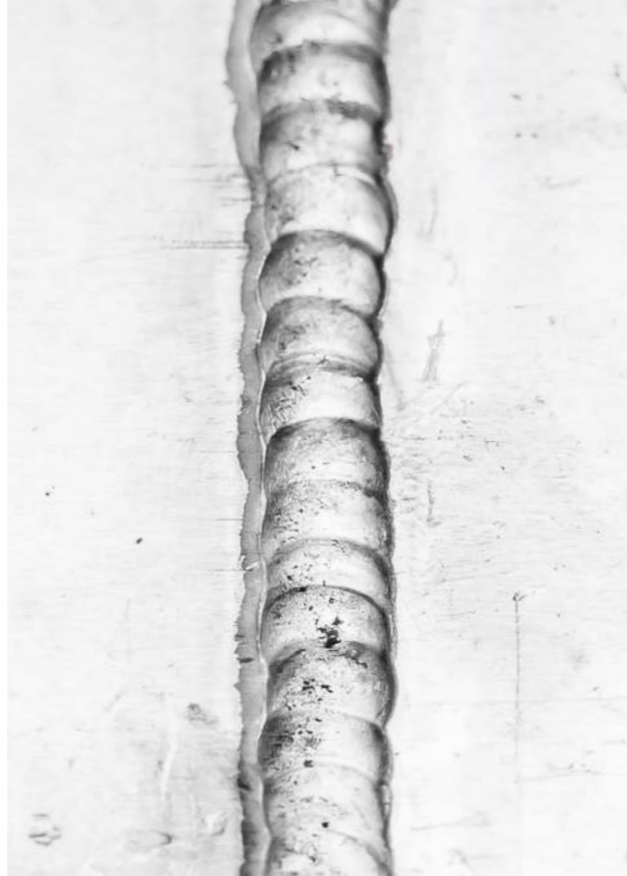
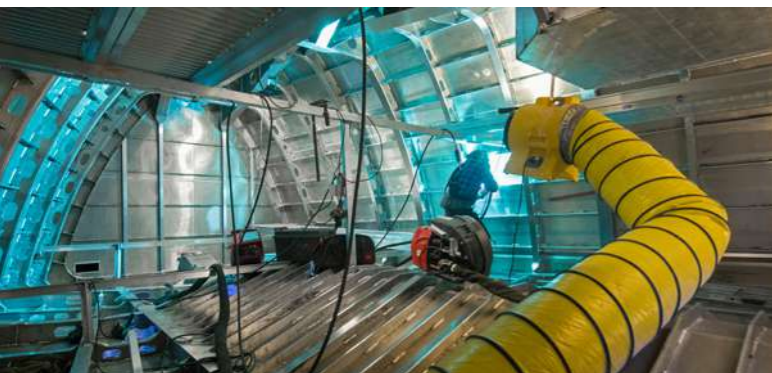
### MIG AND TIG PRODUCTION RANGE

LEGA *	RANGE (mm)	AWS A5.10	ISO 18273	W.Nr
ALUWELD 4043	1,00÷4,00	ER4043 - R4043	4043 (AlSi5)	3.2245
ALUWELD 5183	1,00÷4,00	ER5183 - R5183	5183 (AlMg4,5Mn0,7(A))	3.3548
ALUWELD 5356	1,00÷4,00	ER5356 - R5356	5356 (AlMg5Cr(A))	3.3556

\* Other alloys on request.







### AUTOMOTIVE INDUSTRY

The main applications include components for body in white, chassis, interior car panels, electrical motor vehicles and maintenance and fixing operations.

### PUBLIC TRANSPORT

Aluminium is largely used also in the production of public and turistic road trasports, for instance busses.

### RAILWAY INDUSTRY

The welding of aluminium plays a crucial role in lightweight components, as the cassis and the the body of train carriages.

### SHIPBUILDING

Aluminium can be used in this sector mainly for hull structures and components, superstrutures, bridges and engine casing protectors.

### TANKS / CONTAINERS

The material is widely used in the production of tanks fuel, potable water or gas tanks and stocking vessels for different sectors.

### TRAILERS

Aluminium is widely used to manufacture ramps, integrated storage trailers, tipper chassis and trailers. Thanks to aluminium, the operational efficiency and the resistance are increased.

# Roda **ALUWELD**

## STANDARD PACKAGING

### MIG STANDARD PACKAGING - EN ISO 544 \*

Here below our standard options for wire packaging:



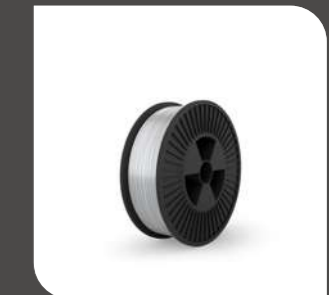
FROM Ø 1,00 UP TO Ø 1,60  
Basket spool BS300 - 7 kg max



FROM Ø 1,00 UP TO Ø 1,60  
Spool D300 - 7 kg max



FROM Ø 1,00 UP TO Ø 1,60  
Spool D200 - 2 kg max



FROM Ø 1,00 UP TO Ø 1,60  
Spool D100 - 0,5 kg max

\* Further diameters and customization options upon request

### TIG STANDARD PACKAGING \*

Here below our standard options for wire packaging:



FROM Ø 1,60 UP TO Ø 4,00  
Cardboard boxes - 5 kg max



FROM Ø 1,60 UP TO Ø 4,00  
Cardboard tubes - 2,5 kg max

\* Further diameters and customization options upon request

# ALUMNECH

## ALUMINIUM FOR MECHANICS



ALUMNECH is a range of product designed to each the best performances in terms of tensile and precision, making it suitable for the production of mechanical components, parts of machinery and structures requiring a reliable and long-lasting material. ALUMNECH finds application in a different range of mechanical

applications, components for automotive industry, fasteners sector (rivets, screw nuts, punches, screws) and parts and components produces with cold heading technology. Moreover, some material is dedicated to the packaging industry.

**The material is certified 3.1**

### MECHANICAL WIRE PRODUCTION RANGE

#### SERIES 1000

GRADE *	Ø RANGE (mm)	ISO 573-3	W.Nr
ALUMNECH 1050	2,40÷9,90	1050A (Al99.5)	3.0255
ALUMNECH 1070	2,40÷9,90	1070A (Al99.7)	3.0275
ALUMWELD 1100	2,40÷9,90	1100 (Al 99,0Cu)	-
ALUMWELD 1370	2,40÷9,90	1370 (Al99.7)	-

#### SERIES 2000

GRADE *	Ø RANGE (mm)	ISO 573-3	W.Nr
ALUMNECH 2011	2,40÷9,90	2011 (AlCu6BiPb)	3.1655
ALUMNECH 2017	2,40÷9,90	2017A (AlCu4MgSi)	3.1325
ALUMNECH 2024	2,40÷9,90	2024 (AlCu4Mg1)	3.1355

#### SERIES 5000

GRADE *	Ø RANGE (mm)	ISO 573-3	W.Nr
ALUMNECH 5005	2,40÷9,90	5005A (AlMg1)	3.3315
ALUMNECH 5019	2,40÷9,90	5019 (AlMg5)	3.3555
ALUMNECH 5051	2,40÷9,90	5051A (AlMg2)	3.3326
ALUMNECH 5052	2,40÷9,90	5052 (AlMg2.5)	3.3523
ALUMNECH 5056	2,40÷9,90	5056 (AlMg5)	3.3555
ALUMNECH 5054	2,40÷9,90	5154A (AlMg3.5)	3.3536
ALUMNECH 5554	2,40÷9,90	5554 (AlMg2.7Mn)	3.3538
ALUMNECH 5754	2,40÷9,90	5754 (AlMg3)	3.3536

#### SERIES 6000

GRADE *	Ø RANGE (mm)	ISO 573-3	W.Nr
ALUMNECH 6056	2,40÷9,90	6056 (AlSiMgCuMn)	-
ALUMNECH 6061	2,40÷9,90	6061 (AlMgSi)	3.3211
ALUMNECH 6063	2,40÷9,90	6063 (AlMg1Si)	3.3206
ALUMNECH 6082	2,40÷9,90	6082 (AlSi1MgMn)	3.2315
ALUMNECH 6101	2,40÷9,90	6101 (AlMgSi1Mn)	3.3207

#### SERIES 7000

GRADE *	Ø RANGE (mm)	ISO 573-3	W.Nr
ALUMNECH 7075	2,40÷9,90	7075 (AlZn5.5MgCu1.5)	3.4365

\* Other alloys on request.



### AUTOMOTIVE INDUSTRY

Aluminium for mechanics plays a main role for the global automotive market. ALUMECH know-how, developed in this sector, aims to offer new solutions for the automotive engineering.

### BUILDING AND CONSTRUCTION

Aluminium for mechanics can be used in civil and industrial building.

### FASTENERS

ALUMECH develops and offers to the market products dedicated to the mechanical engineering, such as fasteners.

### DURABLE CONSUMER GOODS

The wire is used in different consumer goods: luxury and fashion market, in the most complex applications of bend wire, home appliances and kitchen tools.

# Roda **ALUMECH**

## STANDARD PACKAGING

See below our standard wire packaging options: \*



FROM Ø 2,40 UP TO Ø 9,90  
Coil - layer winding



FROM Ø 2,40 UP TO Ø 9,90  
Coil - random winding



FROM Ø 2,40 UP TO Ø 9,90  
Coil on spider



FROM Ø 2,40 UP TO Ø 9,90  
Coil on pallet

\* Further diameters and customization upon request.

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

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