



CARBONVENETA
TECNOLOGIA NEI COMPOSITI

Carbon fiber profiles

www.carbonveneta.com



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TECNOLOGIA NEI COMPOSITI

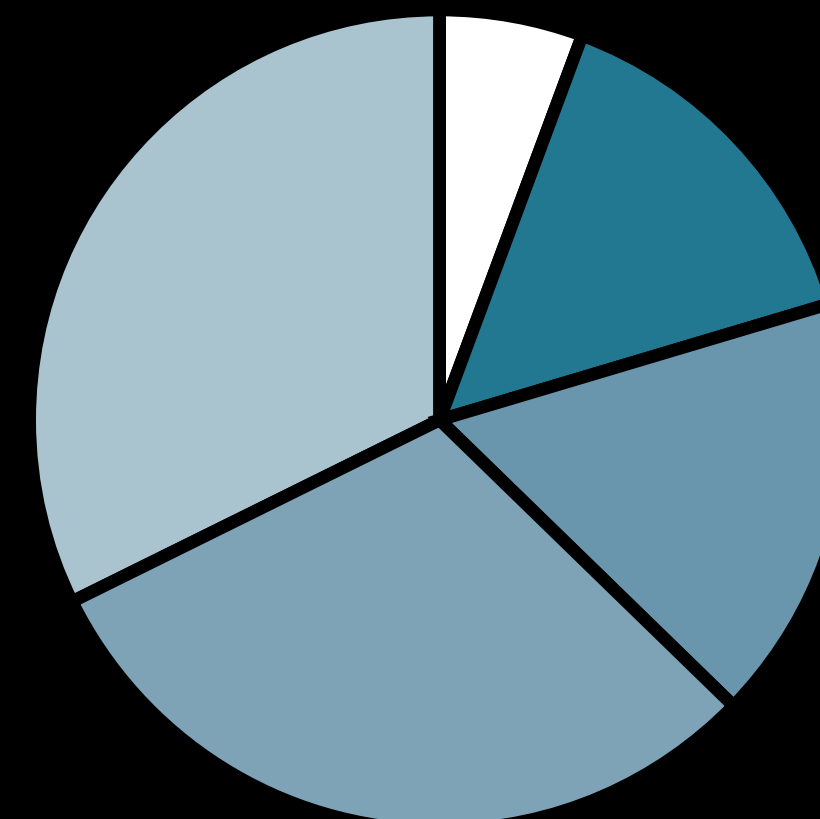
2009

Foundation year

3 business
units

We manufacture
**CARBON
FIBER
PULTRUDED
PROFILES**

- Management
- Accounts
- Warehouse
- Engineering
- Manufacturing



Structural
reinforcement

Industrial
automation

Agriculture

Orthopedics

Wind energy

Cinema and
generic stands

Robotics

Optical
instruments

Aviation &
aerospace

Marine

Hobby &
sports

Automotive

Applications

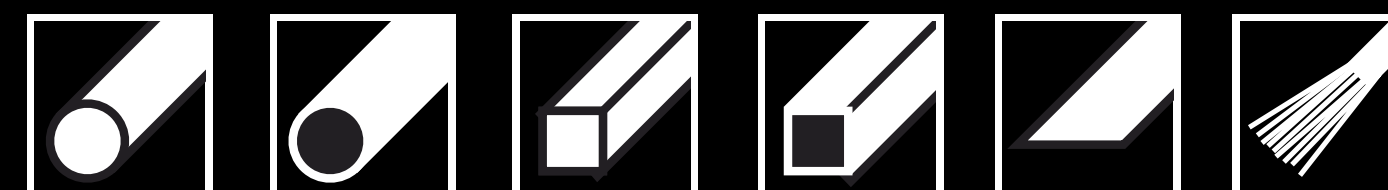
7 pultrusion
lines




production
capacity

80
tons / year

6 product
families



3  major
international
references

60%  export

Who we are?

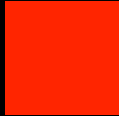





Carbonveneta is a Business Unit of
Carbonveneta Tecnologia nei Compositi – Nestech – PLD Collettori srl
and it is your partner in the manufacturing of carbon fiber pultruded profiles.

What we do?

WE MANUFACTURE EXCLUSIVELY
CARBON FIBER PULTRUDED PROFILES

Our production is entirely carried out within our own factory and is divided into four product families:

-  **Plates for Structural reinforcement**
-  **Profiles with full section**
-  **Open profiles - tubes**
-  **Joints and accessories**

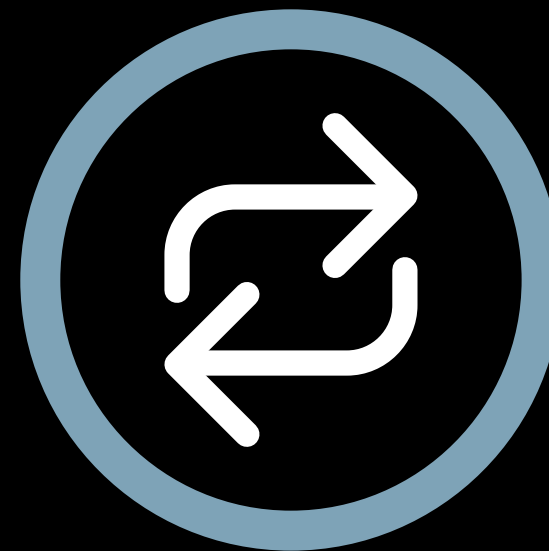


Our mission

Manufacture
a product with the
following features:



High performances



Repeatable



Certifiable



Traceable



Competitive

Manufacturing steps



**Purchase top quality
yarns and resins**



**Analysis and customization
of customer requests**

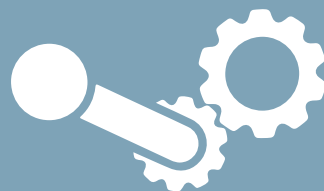


**100% own internal
manufacturing**

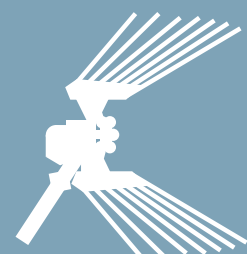
Applications



**STRUCTURAL
REINFORCEMENT**



**INDUSTRY
AUTOMATION**



AGRICULTURE



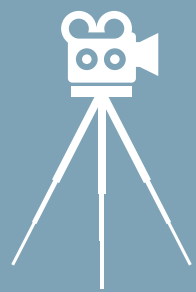
ORTHOPEDICS



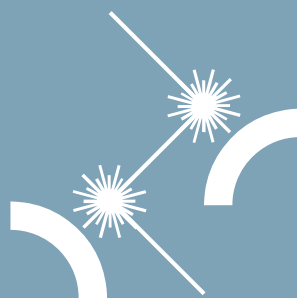
ROBOTICS



WIND ENERGY



**CINEMA AND
GENERIC STANDS**



**OPTICAL
INSTRUMENTS**



**AVIATION &
AEROSPACE**



MARINE



HOBBY & SPORTS



AUTOMOTIVE

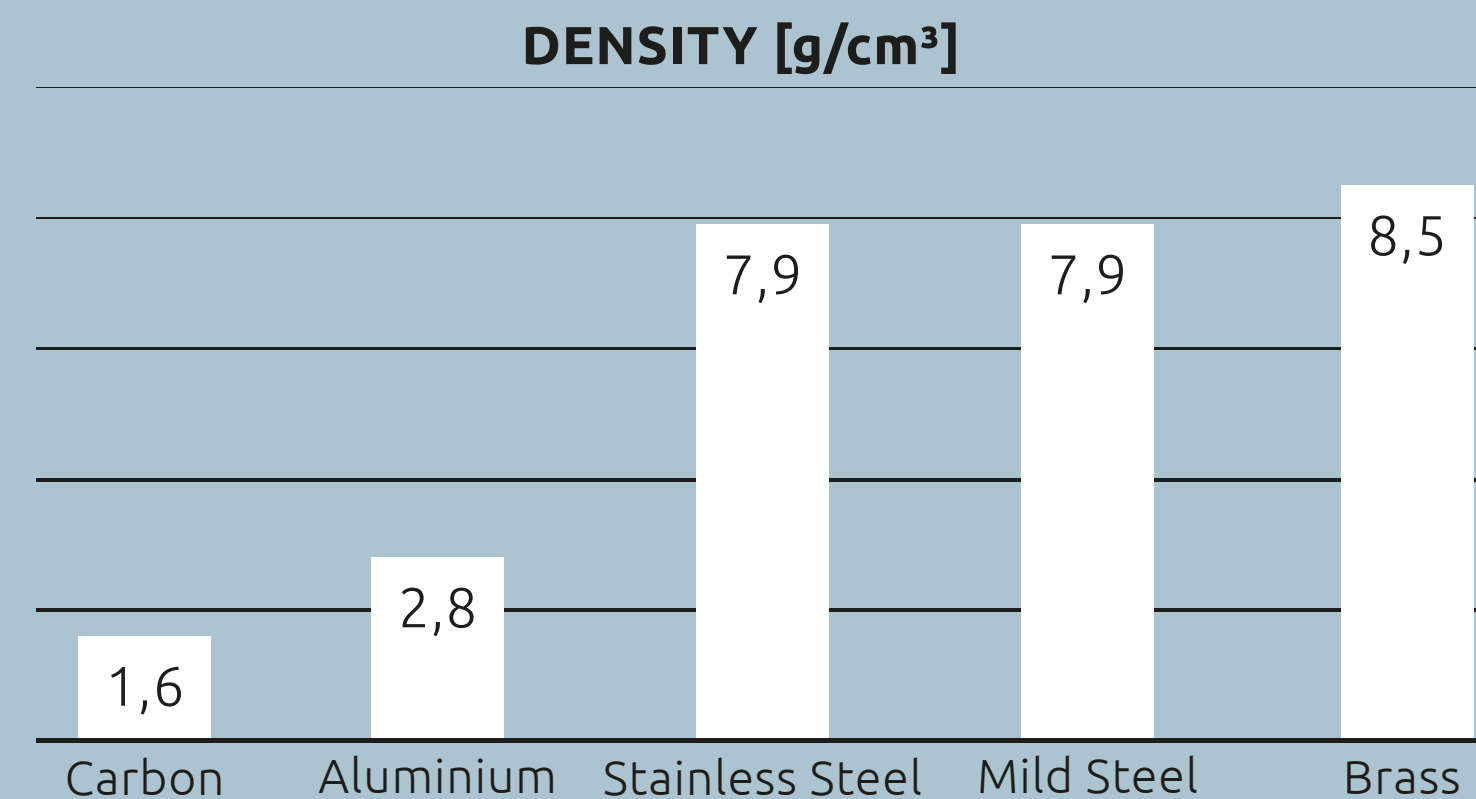


General features

- Pultruded carbon fiber profile with epoxy resin matrix with high tensile and flexural strength
- Excellent stiffness / weight ratio
- Resistant to chemical corrosion and saline environment
- Very stable to temperature variations and resistant to friction and wear
- Easily applicable to wood, metals and concrete
- Paintable
- Usable up to 110 °C
- Standard elastic modulus 170 GPa
- High elastic modulus 210/250 GPa
- Standard tensile strength 2,500 Mpa

Technical information

	DENSITY	METAL / CARBON RATIO
Carbon	1,6 g/cm ³	1,00
Aluminium	2,8 g/cm ³	1,75
Stainless Steel	7,9 g/cm ³	4,94
Mild Steel	7,9 g/cm ³	4,94
Brass	8,5 g/cm ³	5,31





Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

LAMINATES

APPLICATION EXAMPLES

- Concrete Reinforcement
- Anti-seismic structures
- Excellent in general renovation
- Horizontal or oblique reinforcement for beams, slabs, roofs, domes
- Cantilever reinforcement for terraces or similar
- Vertical reinforcement for plinths and columns supporting walls



Plates for Structural reinforcement

Profiles with full section

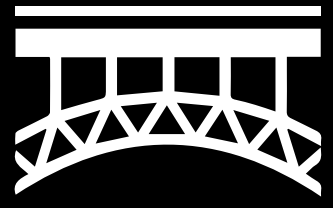
Open profiles - tubes

Joints and accessories

RODS

APPLICATION EXAMPLES

- Concrete Reinforcement
- Anti-seismic structures
- Excellent in general renovation
- Horizontal or oblique reinforcement for beams, slabs, roofs, domes
- Cantilever reinforcement for terraces or similar
- Vertical reinforcement for plinths and columns supporting walls



Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories



LINKERS

Preformed connectors
for structural reinforcement

APPLICATION EXAMPLES

- Single or double sided reinforcement of concrete and brick walls
- Renovation of old buildings, historic centers, tunnels, bridges, retaining walls, industrial buildings

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

FULL RECTANGULAR PROFILES

APPLICATION EXAMPLES

- Machine frames
- Parts or frames for various equipment
- Light and high resistance shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, trash shifters, grippers
- Sailing, marine

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories



FULL RECTANGULAR PROFILES CUSTOM PROFILES

APPLICATION EXAMPLES

- Machine frames
- Parts or frames for various equipment
- Light and high resistance shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, trash shifters, grippers
- Sailing, marine

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

FULL RODS

APPLICATION EXAMPLES

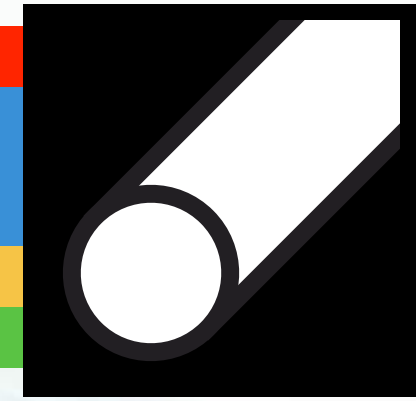
- Rotating shafts and rollers for small automatic machines
- Concrete Reinforcement
- Drones
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletizers, trash shifters, grippers
- Orthopedic fixators
- Olive harvesters
- Arrows for bows
- Reinforcement for fabrics and sails
- Yarn combs

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

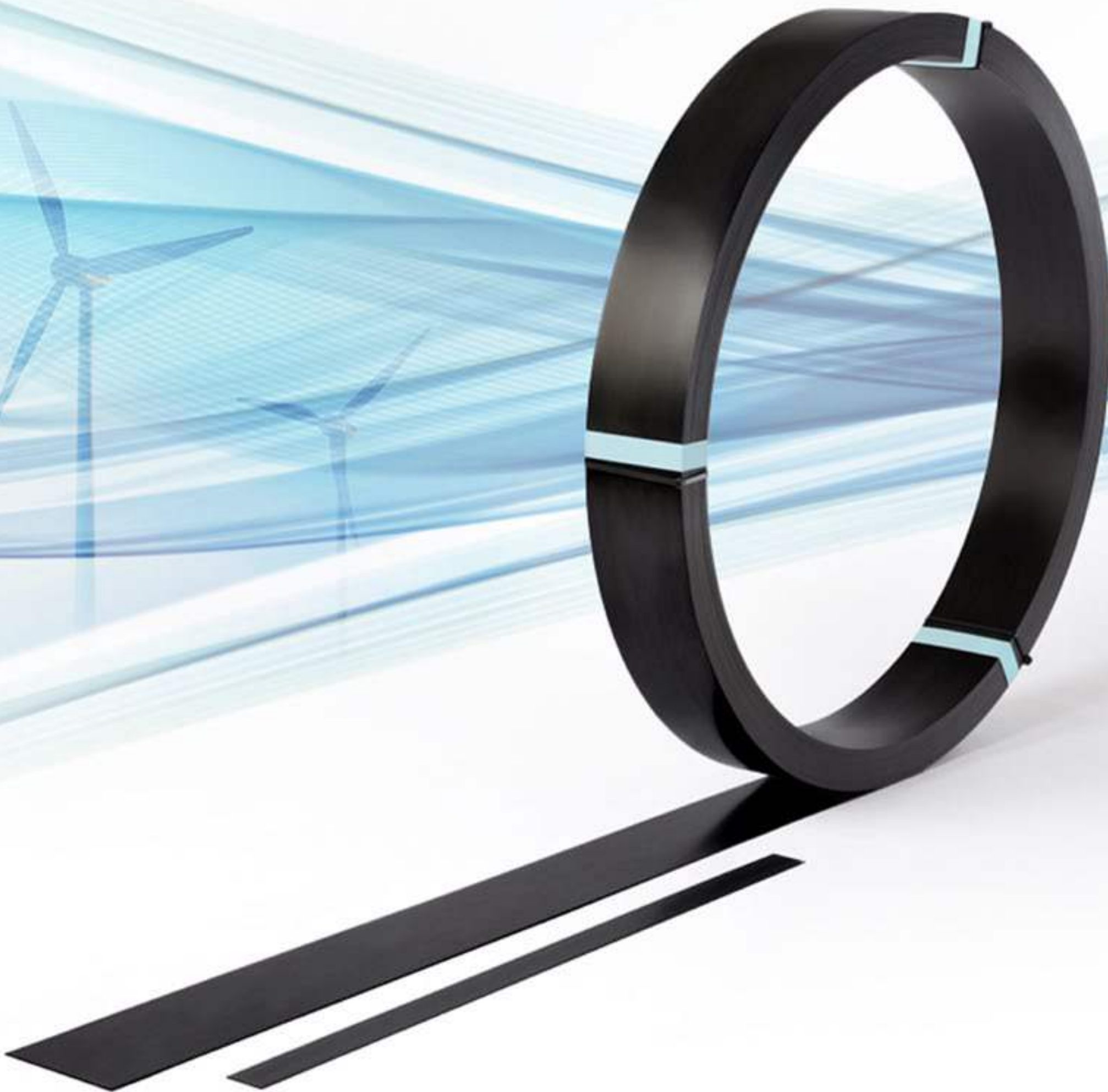
Joints and accessories



PLANKS FOR SPAR CAPS

APPLICATION EXAMPLES

- Components for rotor blades of wind turbines



Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

ROUND TUBES

APPLICATION EXAMPLES

- Machine frames
- Modular structures, racks, gazebos
- Parts or frames for various equipment
- Light and highly resistant shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, stacker translators, grippers
- Sailing, marine

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

SQUARE TUBES

APPLICATION EXAMPLES

- Machine frames
- Modular structures, racks, gazebos
- Parts or frames for various equipment
- Light and highly resistant shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, stacker translators, grippers
- Sailing, marine

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

RECTANGULAR TUBES

APPLICATION EXAMPLES

- Machine frames
- Modular structures, racks, gazebos
- Parts or frames for various equipment
- Light and highly resistant shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, stacker translators, grippers
- Sailing, marine

Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joins and accessories



JOINTS AND ACCESSORIES

APPLICATION EXAMPLES

- Machine frames
- Modular structures, racks, gazebos
- Parts or frames for various equipment
- Light and highly resistant shelving
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletisers, stacker translators, grippers
- Sailing, marine

Plates

Width mm	Thickness mm	Smooth	Best grip surface
20	1,4	✓	✓
30	1,4	–	✓
50	1,2	–	✓
50	1,4	✓	✓
50	1,6	✓	–
60	1,2	–	✓
60	1,4	✓	–
80	1,2	–	✓
80	1,4	✓	✓
80	1,6	✓	–
100	1,2	–	✓
100	1,4	✓	✓
100	1,6	✓	–
120	1,2	–	✓
120	1,4	✓	✓
120	1,6	✓	–
150	1,4	–	✓
150	1,6	✓	–

Round tubes

Ø OD mm	Ø ID mm	Thickness mm
60	55	2,5
50	45	2,5
32	28	2
30	25	2,5
25	23	1
20	14	3
15	8	3,5
29,9	26,1	4

Full rectangular profiles

Width mm	Height mm
50	6,5
40	3
30	8
30	5
30	4
30	1,6
25	5
25	6
29,5	6
19,5	5
19,5	8
10	4
8	5

Square and Rectangular tubes

Width mm	Height mm	Thickness mm
50	20	3
40	40	2,5
30	30	2,5
30	30	int. Ø 25

Full rods

Ø mm
4
4,5
5
6
8
10
12
15
16
20
25
30

Dimensions

Sustainability



ESG POLICY: enviromental, social, governance

The core of our company mission is based on a deep commitment to sustainability, which actually drives to our plan dedicated to promoting eco-sustainable practices.

Our commitment to sustainability is based on three fundamental pillars: environment, society and governance.

We are committed to reducing the environmental impact of our business through the adoption of cutting-edge technologies and eco-sustainable practices. In parallel, we actively collaborate with local communities, promoting social projects and ensuring an ethical and inclusive working environment, so that our economic growth is associated with the values of social and environmental responsibility.

*The change for the future
is green: our sustainable
commitment*

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Certificate No. 200324-2016-AQ-ITA-ACCREDIA
Design and manufacture of carbon fiber pultruded profiles (EA 17)