



CARBONVENETA

Carbon fiber profiles

www.carbonveneta.com



CARBONVENETA

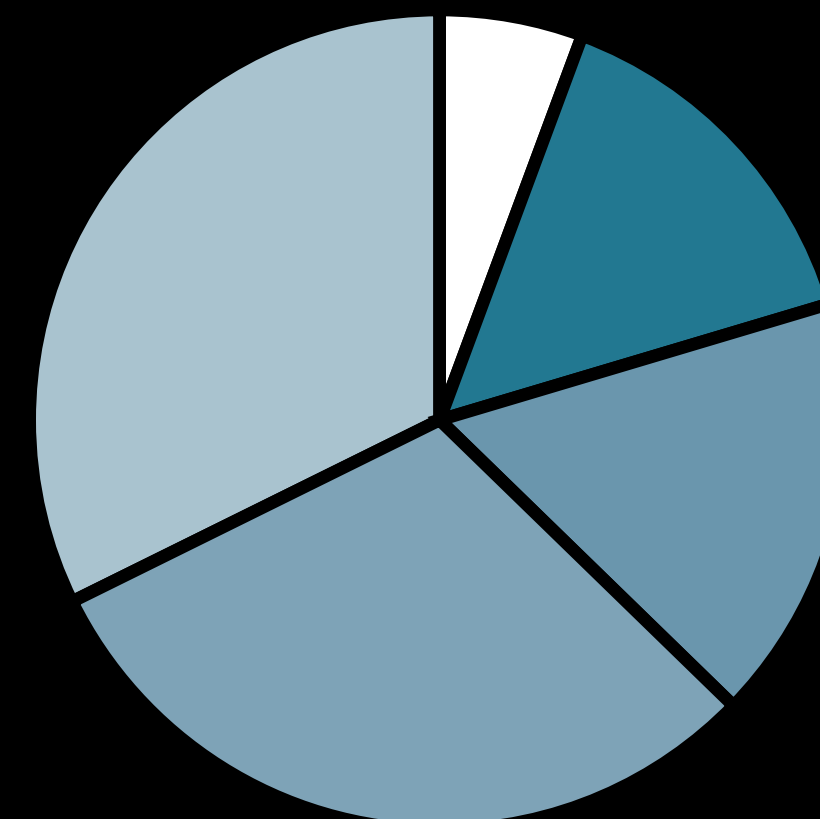
2009

Foundation year

2 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

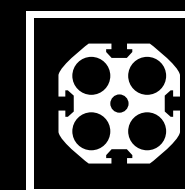
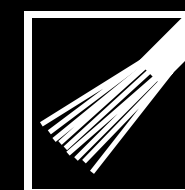
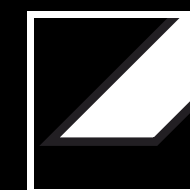
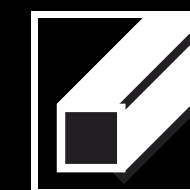
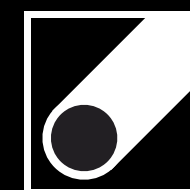
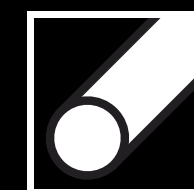
7 pultrusion lines



production capacity

80
tons / year

7 product families



3  major international references

60%  export

Who we are?



Carbonveneta is a Business Unit of **CARBONVENETA NESTECH 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 five product families:

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

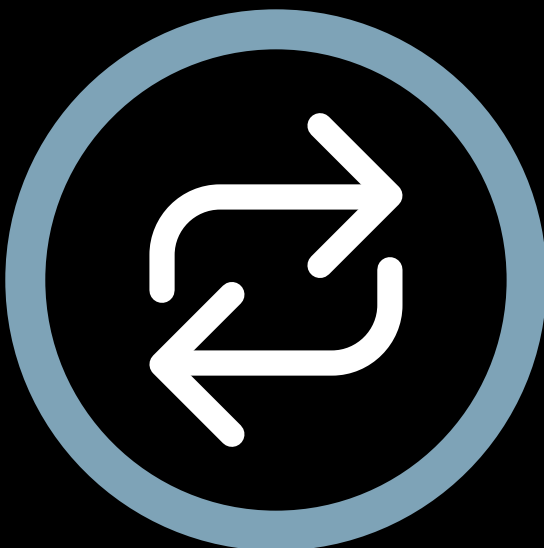


Our mission

Manufacture
a product with the
following features:



High performances



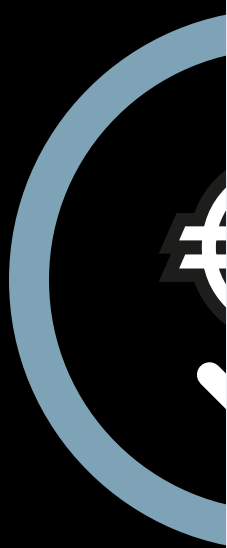
Repeatable



Certifiable



Traceable



Complete

Manufacturing steps



Purchase top quality
yarns and resins



Analysis and customization
of customer requests



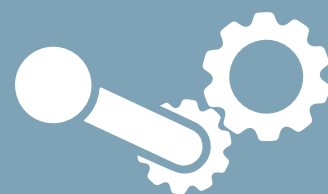
100% own
manufacturing



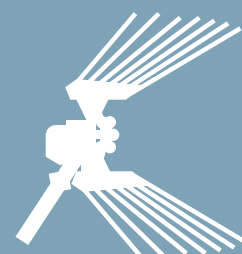
Applications



**STRUCTURAL
REINFORCEMENT**



**INDUSTRY
AUTOMATION**



AGRICULTURE



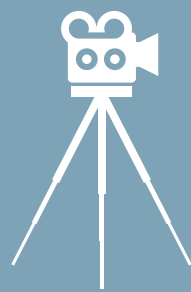
ORTHOPEDICS



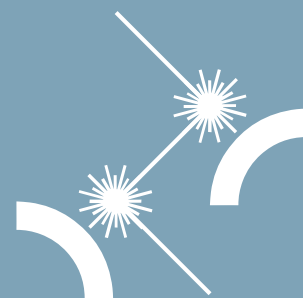
ROBOTICS



WIND ENERGY



**CINEMA AND
GENERIC STANDS**



**OPTICAL
INSTRUMENTS**



**AVIATION &
AEROSPACE**



MARINE



HOBBY & SPORTS



AUTOMOTIVE

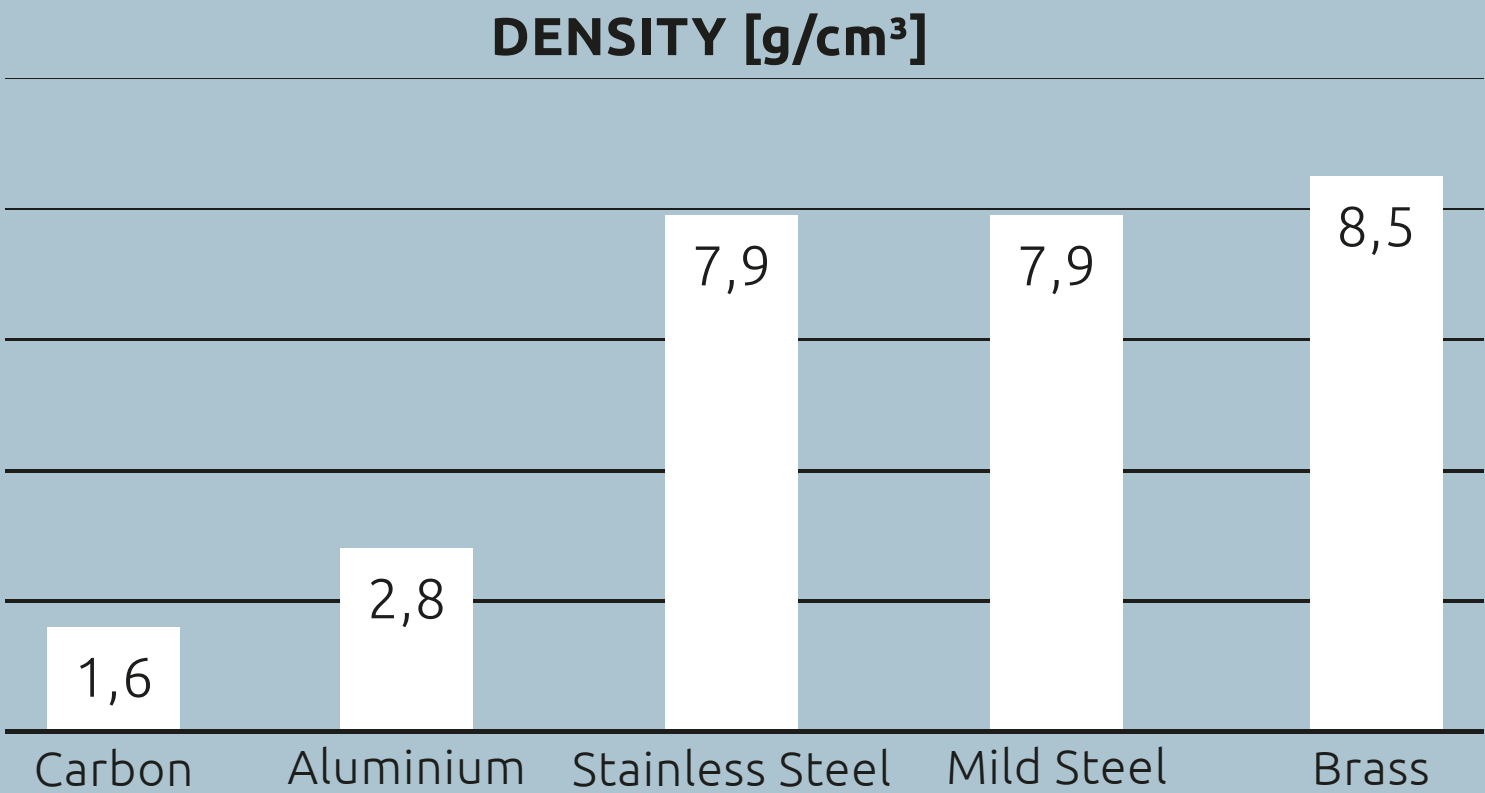


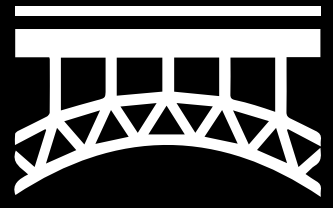
General features

- 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

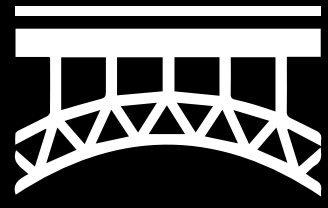
Joints and accessories



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



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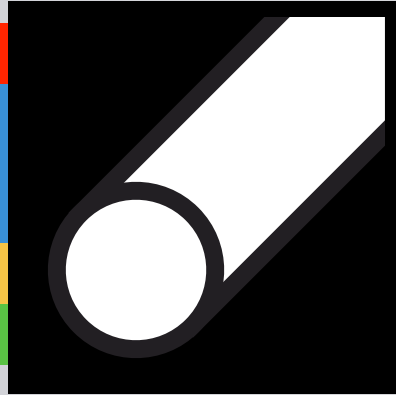
LINKERS

Preformed connectors
for structural reinforcement

APPLICATION EXAMPLES

- Single or double sided reinforcement
- Renovation of old buildings, historical buildings, retaining walls, industrial buildings





Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

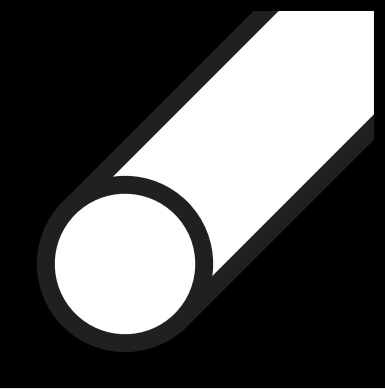
Joints and accessories

FULL RECTANGULAR PROFILES

APPLICATION EXAMPLES

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





Plates for Structural reinforcement

Profiles with full section

Open profiles - tubes

Joints and accessories

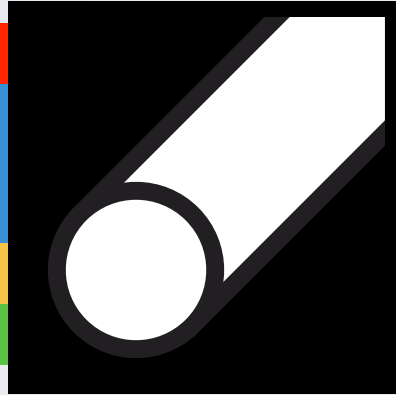


FULL RECTANGULAR PROFILES

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

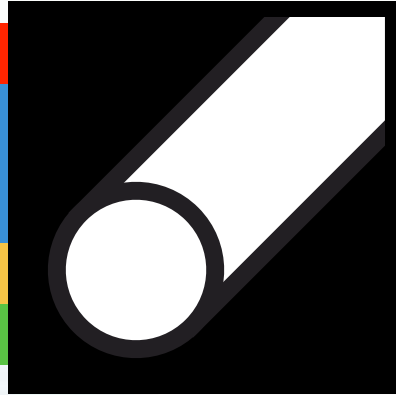
Open profiles - tubes

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

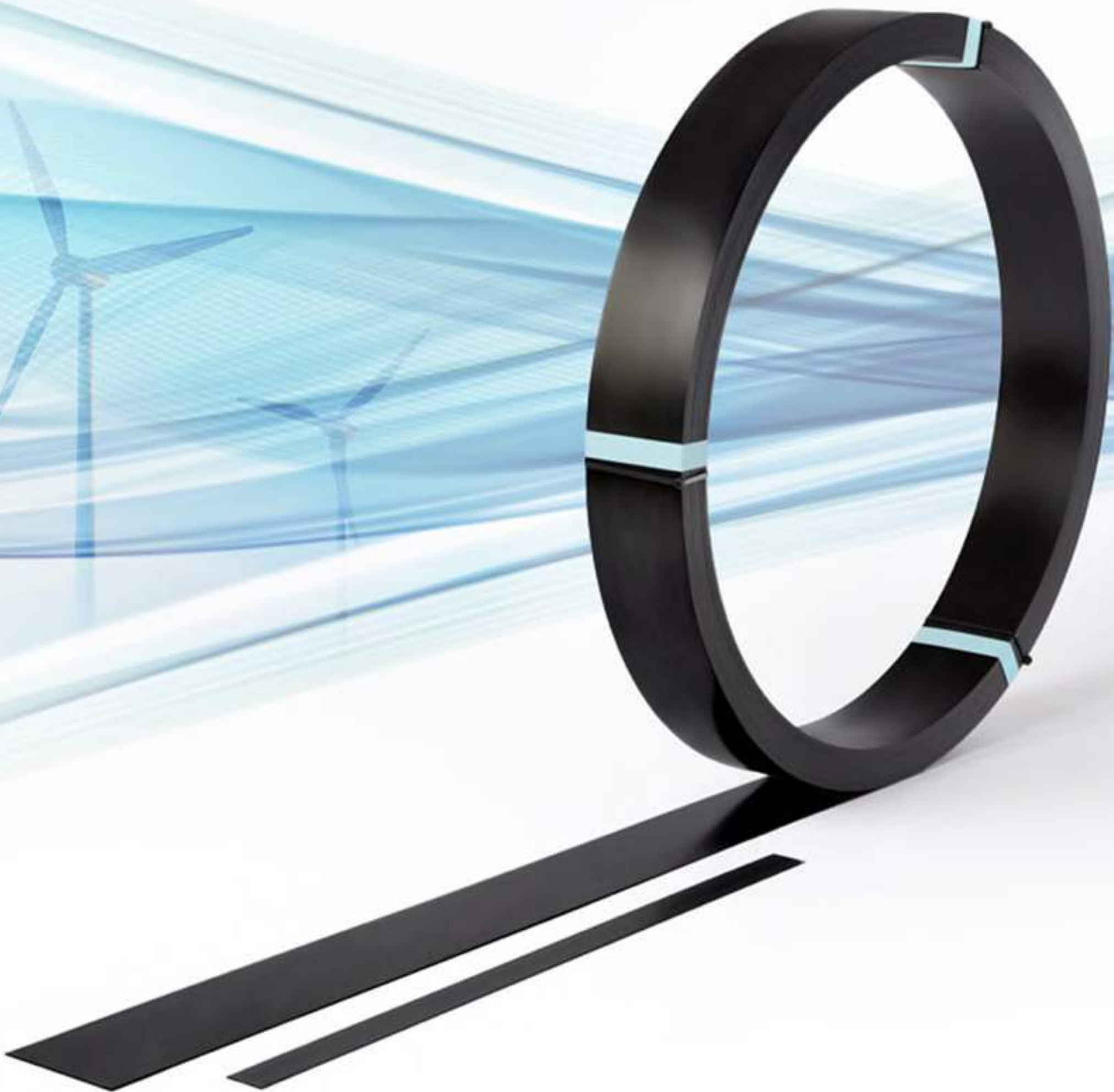
Open profiles - tubes

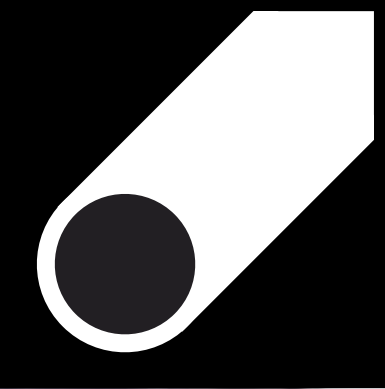
Joints and accessories

PLANKS FOR SPAR CAPS

APPLICATION EXAMPLES

- Components for rotor blades of wind turbines





Plates for Structural reinforcement

Profiles with full section

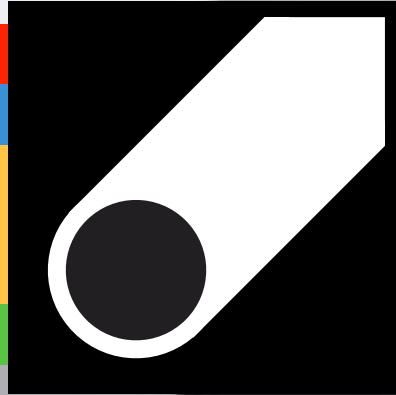
Open profiles - tubes

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

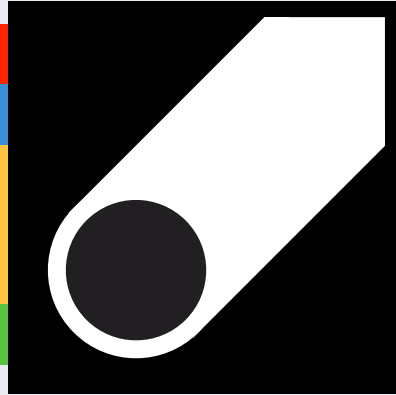
Open profiles - tubes

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

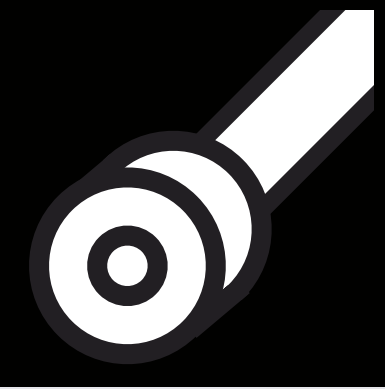
Open profiles - tubes

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

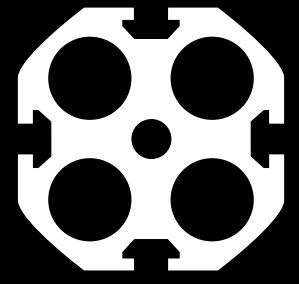
Joins and accessories



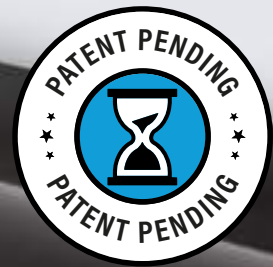
JOINTS AND ACCESSORIES

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
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- Sailing, marine



Levitus® System



ERGA
PARTS

DOVETAIL
SEAT
for insertion
coupling pin

CARBON FIBER
TUBES

LEVITUS®
the strength of lightness

**A revolutionary connection system
in carbon fiber tubes and Ergal parts**

WEIGHT -85% compared to equivalent aluminum profiles

APPLICATIONS

- Gripper heads • Manipulators
- Robots • Cartesian Systems
- Palletizers • Die-cutting machines • Packaging machines
- Laser systems • Paper machines
- Wrapping machines • Handling systems
- Structures • Design • Paddocks
- Trusses • Antennas • Cranes

Dimensions

Plates

Width mm	Thickness mm	Smooth	Best grip surface
150	1,6	✓	–
150	1,4	–	✓
120	2,8	✓	–
120	2,6	–	✓
120	1,6	✓	–
120	1,4	✓	✓
120	1,2	–	✓
100	1,6	✓	–
100	1,4	✓	✓
100	1,2	–	✓
80	1,6	✓	–
80	1,4	✓	✓
80	1,2	–	✓
60	1,5	✓	–
60	1,4	–	✓
50	1,6	✓	–
50	1,4	✓	✓
50	1,2	–	✓
40	3	✓	–
30	1,6	✓	–
30	1,4	–	✓
20	1,4	✓	–

Round tubes

Ø OD mm	Ø ID mm	Thickness mm
60	55	2,5
50	46	2
40	36	2
32	28	2
30	28	1
30	25	2,5
30	22	4
28,8	24,6	2,1
25	23	1
25	20	2,5
20	14	3
15	8	3,5
10	7,4	1,3
29,8	26	4

Full rods

Ø mm
30
25
20
15
12
10
8
6
5
4,5
4

Square and Rectangular tubes

Width mm	Height mm	Thickness mm
50	50	2,8
50	20	3
40	40	2,6
30	30	2,5
30	30	int. Ø 25

Full rectangular profiles

Width mm	Height mm
50	6,5
43,4	13,7
40	3
30	8
30	5
30	4
30	1,4
30	1,6
25	5
25	6
25	15
29,5	6
20	1,5
19,5	5
19,5	8
15	6
10	4
8	5
12	6,1

Sustainability



**Sustainable
innovation**

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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