



2009 Foundation year

business units

We manufacture

CARBON FIBER PULTRUDED PROFILES

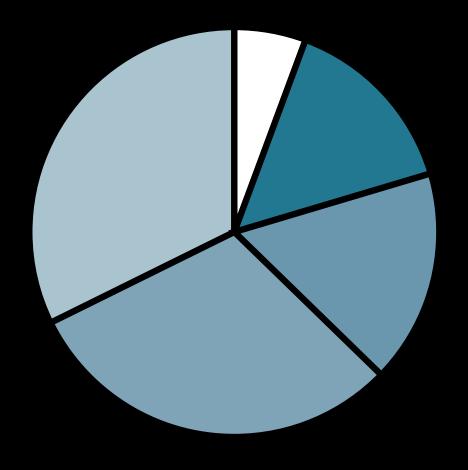


Accounts

Warehouse

Engineering

Manufacturing



Structural reinforcement

Industrial automation

Agriculture

Orthopedics

pultrusion lines





production capacity

tons / year

Wind energy

Applications

Cinema and generic stands

Optical

instruments

product **families**















Robotics

Aviation & aerospace

Marine

Hobby & sports

Automotive

major international references

6000 Export



Who we are?





Carbonveneta is a Business Unit of

Carbonveneta Tecnologia nei Compositi – Nestech

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:

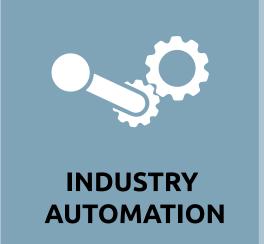


Manufacturing steps

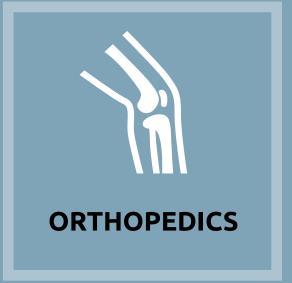


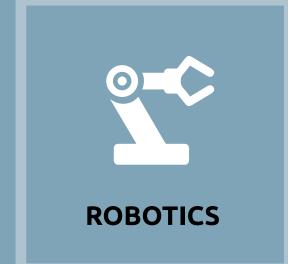
Applications





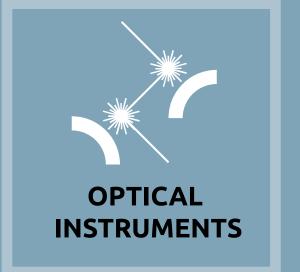










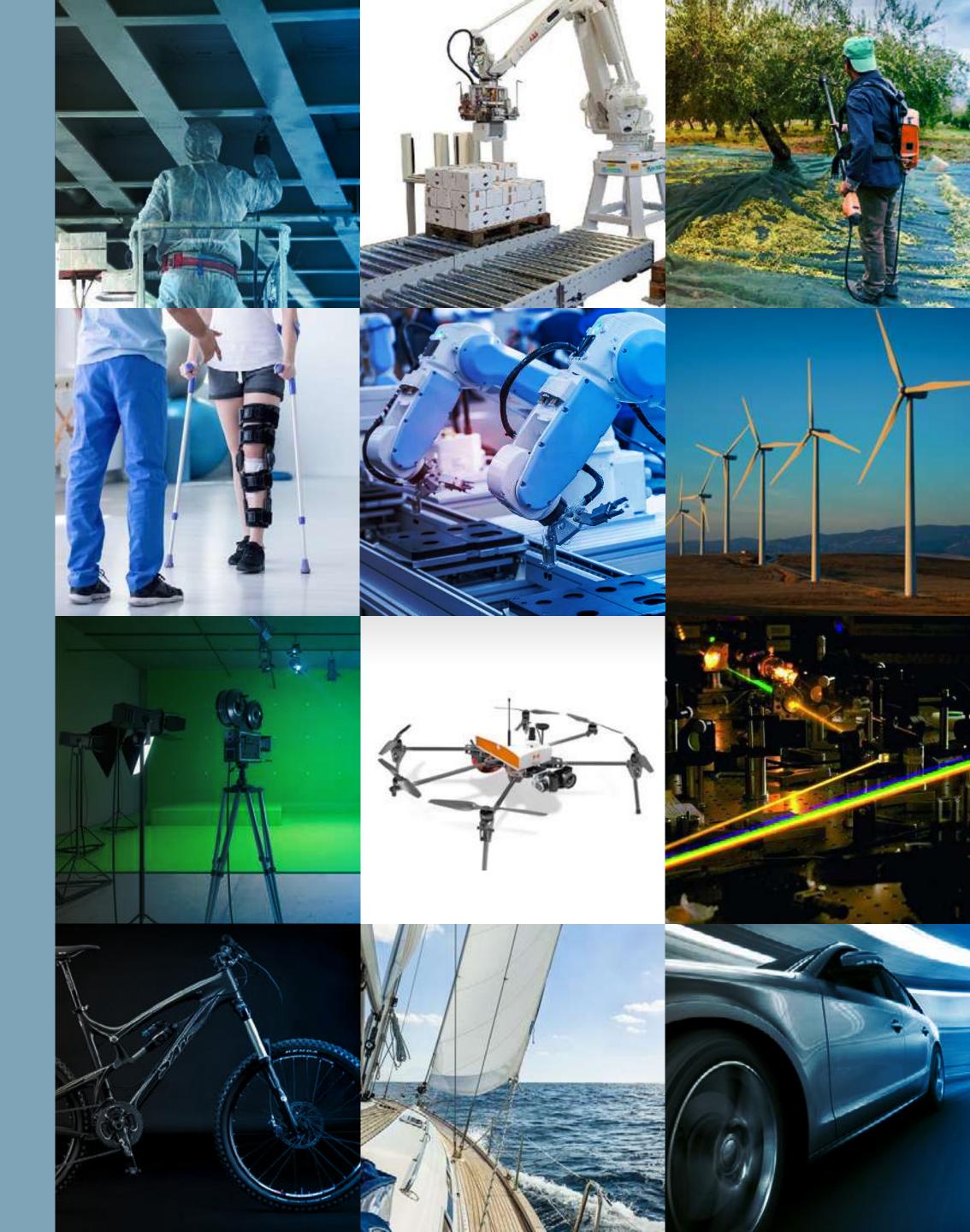












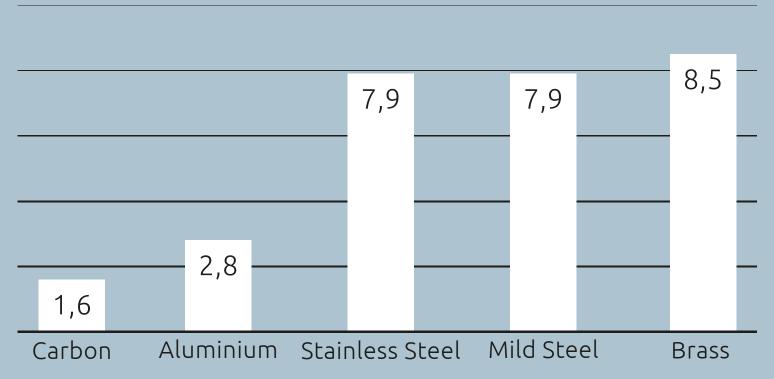
General features

- 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/cm³	1,00
Aluminium	2,8 g/cm³	1,75
Stainless Steel	7,9 g/cm³	4,94
Mild Steel	7,9 g/cm³	4,94
Brass	8,5 g/cm³	5,31

DENSITY [g/cm³]



Profiles with full section

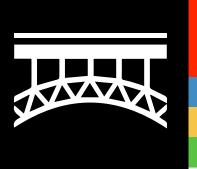
Open profiles - tubes

Joints and accessories



LAMINATES

- 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



Profiles with full section

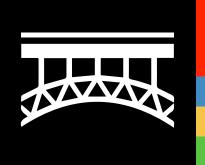
Open profiles - tubes

Joints and accessories



RODS

- 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



Profiles with full section Open profiles - tubes

Joints and accessories



LINKERS

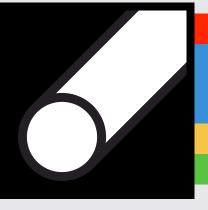
Preformed connectors for structural reinforcement

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



FULL RECTANGULAR PROFILES

- 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



Profiles with full section

Open profiles - tubes

Joints and accessories



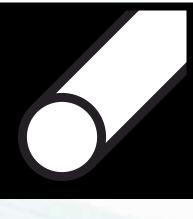
FULL RECTANGULAR PROFILES CUSTOM PROFILES

- 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



FULL RODS

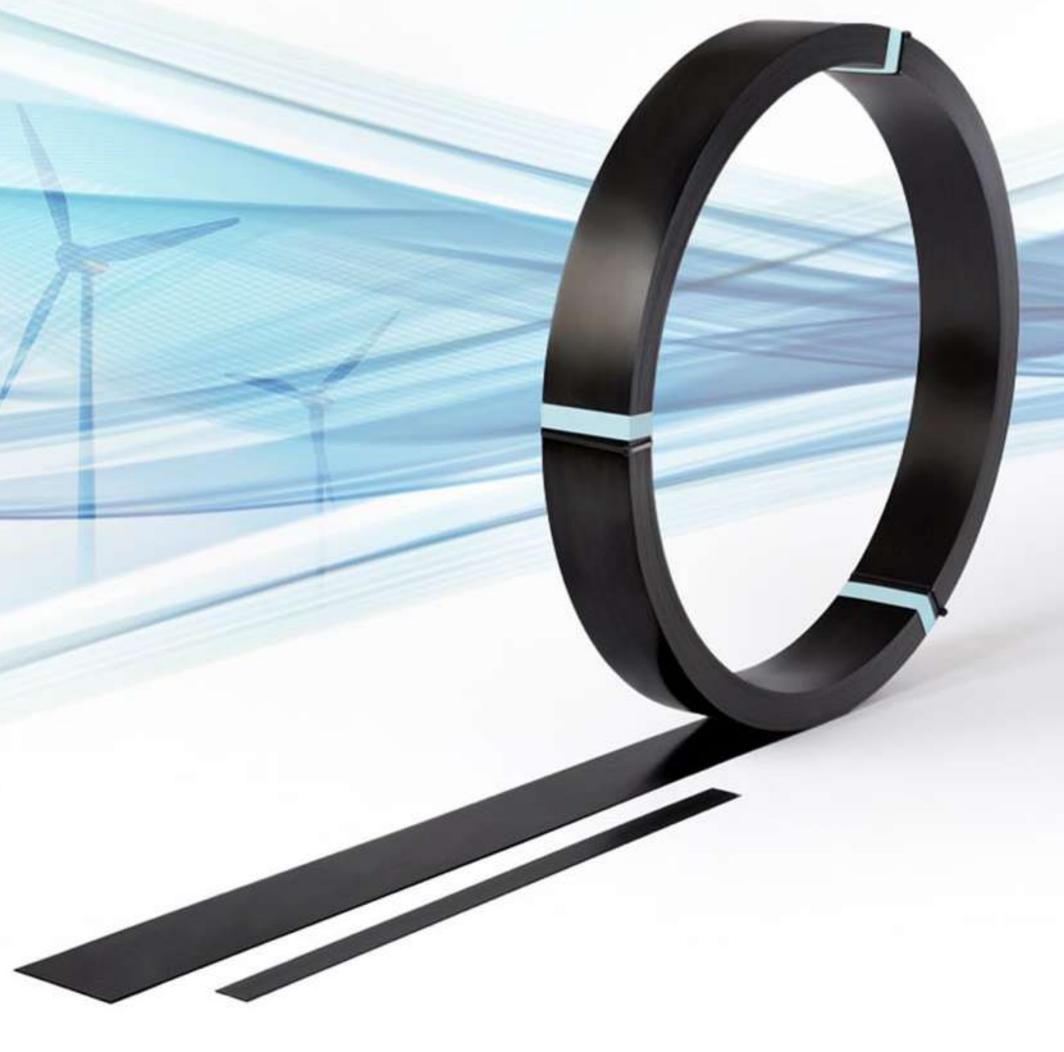
- Rotating shafts and rollers for small automatic machines
- Concrete Reinforcement
- Drones
- Robotic manipulators
- Optical, metrological and printing machines
- Automatic warehouses, shelves
- Multiaxial robots, palletizers, trash shifters, grippers
- Orthopedic fixators
- Olive harvesters
- Arrows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



Profiles with full section

Open profiles - tubes

Joints and accessories



PLANKS FOR SPAR CAPS

APPLICATION EXAMPLES

Components for rotor blades of wind turbines



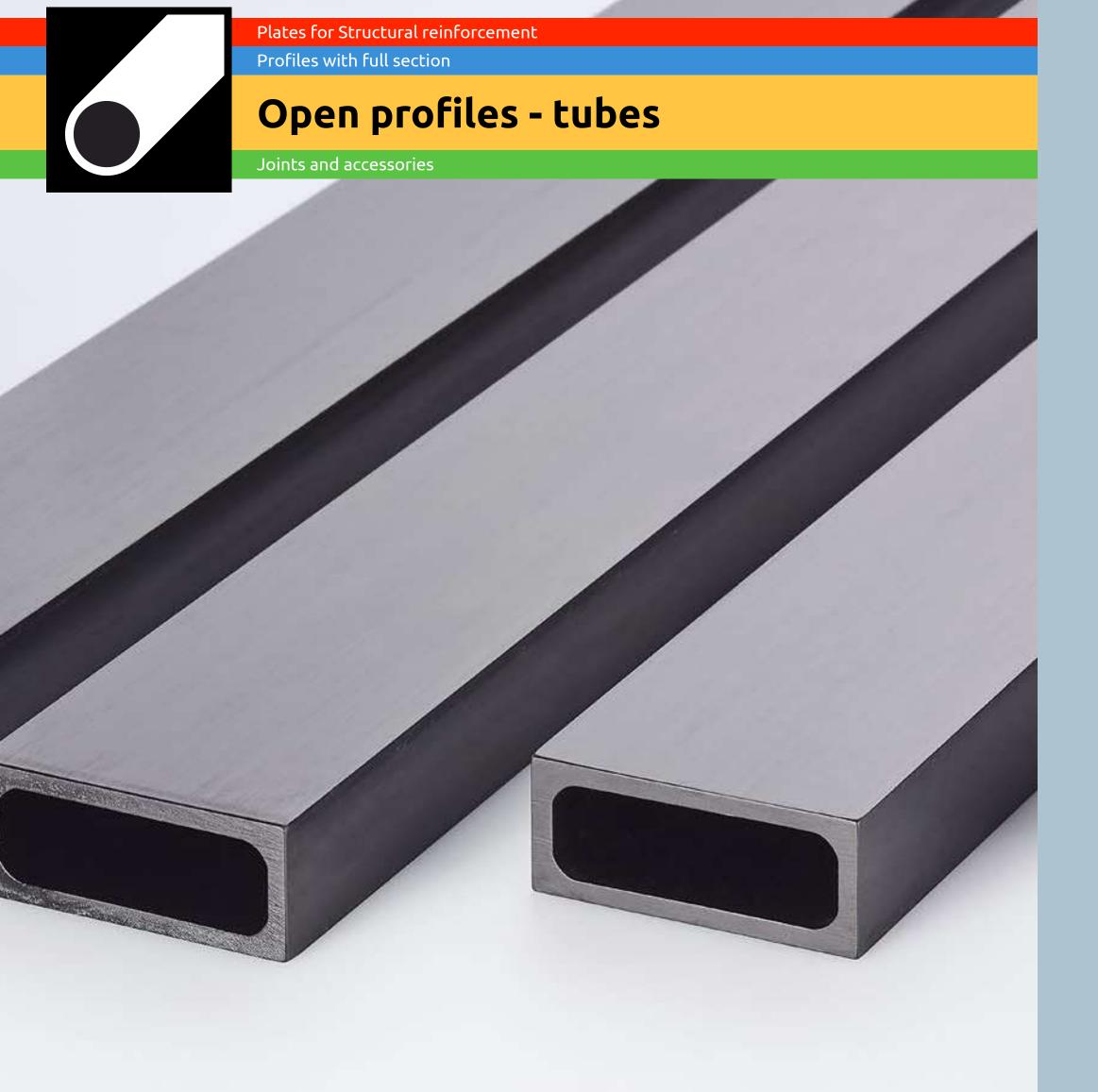
ROUND TUBES

- 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



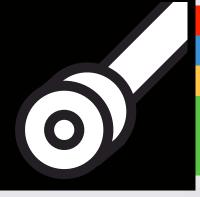
SQUARE TUBES

- 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



RECTANGULAR TUBES

- 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



Profiles with full section

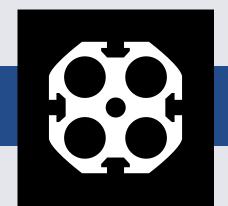
Open profiles - tubes

Joints and accessories

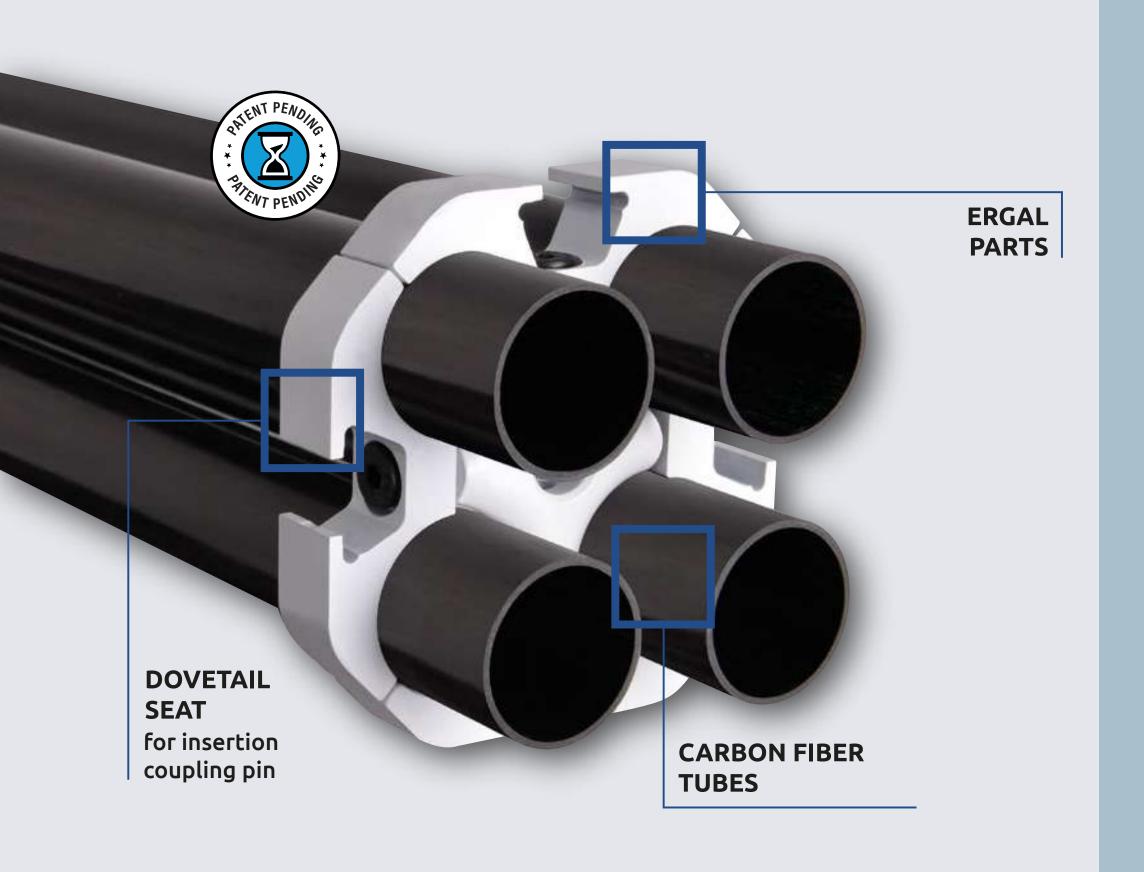


JOINTS AND ACCESSORIES

- Machine frames
- Modular structures, racks, gazebos
- Parts or frames for various equipment
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- Automatic warehouses, shelves
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- Sailing, marine



Levitus® System





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

Plates

	Thickness mm	Smooth	Best grip surface
150	1,6	√	_
150	1,4	-	✓
120	2,8	✓	
120	2,6		<u> </u>
120	1,6	✓	
120	1,4	✓	<u> </u>
120	1,2	_	✓
100	1,6	✓	
100	1,4	✓	<u> </u>
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	1	_
30	1,4	_	✓
20	1,4	√	_

Dimensions

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



ESG POLICY: environmental, 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.



www.carbonveneta.com



Certificate No. 200324-2016-AQ-ITA-ACCREDIA

Design and manufacture of carbon fiber pultruded profiles (EA 17)