

selcom®
Multiaxial Technology



Our values



Our purpose



Our mission



Certifications

1992

Founders: Pizzol Family
Location: Italy Production
Lines: 1 Plant Area: 500 m²

1993



2012

Production Lines: 9
Plant Area: 6.000 m²



2014

Production Lines: 14
Plant Area: 10,000 m²

2022

Integration of Selcom within Angeloni Group



2023

Production Lines: 24
Plant Area: 10,000 m²





Selcom at a glance

Selcom is a high quality supplier of multiaxial fabric solutions for the composites industry.

In 1992 Mauro Pizzol founded SELCOM, with the ambition to establish the very first company in Italy to produce Multiaxial Fabrics using high performance fibres for the Composites Materials Industry. Since the installation of the first plant, focus on quality and customer care were the cornerstones driving Selcom manufacturing philosophy. Over the years, Selcom kept growing at an exponential pace, proving to be a solid foundation for the composite materials market with reference to infusion and RTM technologies.

3R Thinking: Reduce – Reuse – Recycle

Embed Sustainability into Organizational Practices, Considering Environment & Value Creation to Set the Basis for the Company of the Future. Certified Processes and Products to Deliver Consistent Quality.



80%
Power supply via photovoltaic

30+
Years Expertise

600+
Tons of carbon fiber

5.000+
Tons of glass fiber



15%
of total production with Natural Fibers



95%
Carbon & Glass Waste Conversion



90%
Recycled Plastic Packaging



Marine



Automotive



Infrastructure



Sport



Others

Historical Market Presence & Knowledge

Strong Expertise in NCFs Technology

Tailored & Broad Portfolio by Market

Committed to Innovation & Quality

Culture of Customer Satisfaction

Why Customers Choose Selcom

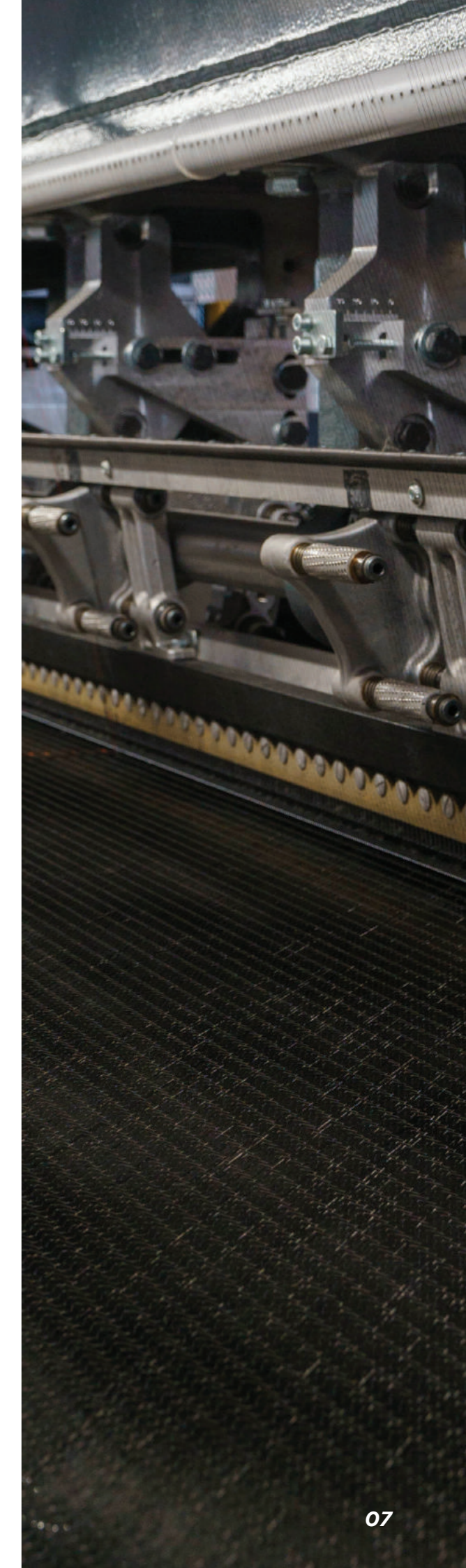
Solid Brand & Technology Leader

Customer Relationship

Reactivity & Flexibility

Service, Quality & Supply Consistency

Strategic Capacity, Priorities & Competitiveness



Carbon Multiaxials

Features

NCF (Non-Crimp Fabrics) range:

Weight 50 gsm to 1.200 gsm.

Weaving width 1270 mm
or 2540 mm.

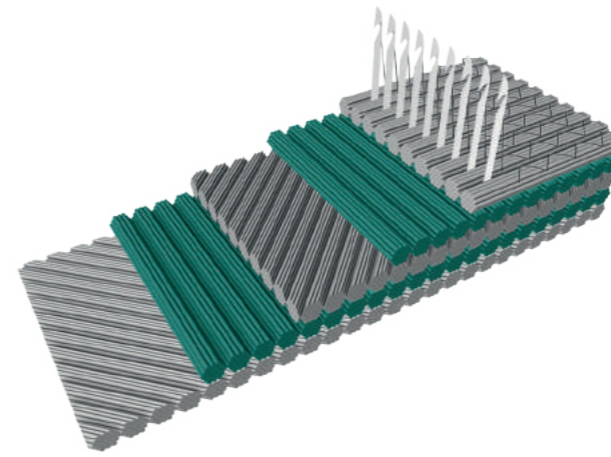
Slitting down to 50 mm tapes.

Orientations from 0° to 150°.

Stitch yarn: PES, resin.

Powder Coating Technology

Co-bonding NCFs with Woven
/Nonwoven Veils



Resin Compatibility

UP > Unsaturated polyester

100%

EP > Epoxy

100%

PP > Polypropylene

100%

VE > Vinylester

100%

PU > Polyurethane

100%



Biaxial Fabrics

Biaxial NCF are made up of 2 layers laid in $\pm 45^\circ$ or $0^\circ 90^\circ$, stitched with texturized polyester yarn. $\pm 30^\circ$ or $\pm 60^\circ$ available on request.



Triaxial Fabrics

Triaxial NCF are made up of 3 layers laid in $0^\circ \pm 45^\circ$ or $\pm 45^\circ 90^\circ$, stitched with texturized polyester yarn.



Quadriaxial Fabrics

Quadriaxial NCF are made up of 4 layers laid in $0^\circ +45^\circ 90^\circ -45^\circ$, stitched with texturized polyester yarn.



Unidirectional Fabrics

Unidirectional NCF are made up of 1 layer laid in 0° , stitched with texturized polyester yarn.

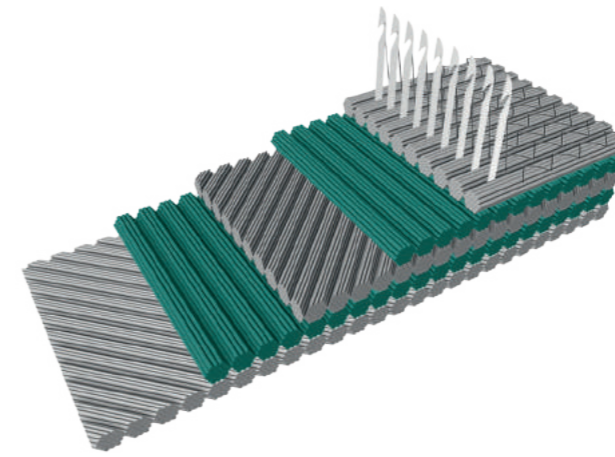
STD. ITEM		gr/m ²					
CARBON		0°	+45°	90°	-45°	Stitching	Weight
CBX100	BIAX $\pm 45^\circ$	-	50	-	50	5	105
CBX150		-	75	-	75	5	155
CBX200		-	100	-	100	5	205
CBX300		-	150	-	150	7	307
CBX400		-	200	-	200	7	407
CBX600		-	300	-	300	7	607
CBX800		-	400	-	400	7	607
CBXS200	BIAX $0^\circ 90^\circ$	100	-	100	-	6	206
CBXS400		200	-	200	-	8	408
CBXS600		300	-	300	-	8	608
CBXS800		400	-	400	-	8	808
CQX400	QUADRIAX	100	100	100	100	6	406
CQX600		125	125	125	125	7	607
CQX800		200	200	200	200	7	807
CQX1000		250	250	250	250	8	1008
CTXL225	TRIAX	75	75	-	75	6	231
CTXL300		100	100	-	100	6	306
CTXL450		150	150	-	150	8	458
CTXL600		200	200	-	200	8	608
UNIC200	NCF UD	200	-	15	-	8	223
UNIC300		300	-	15	-	8	323
UNIC600		600	-	15	-	8	623

Glass Multiaxials

Features

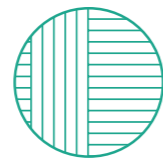
NCF (Non-Crimp Fabrics) range:

- Weight** 200 gsm to 4.000 gsm weight.
- Stitched CSM** available from 50 gsm to 450 gsm.
- Weaving width** 1270 mm or 2540 mm.
- Slitting down** to 50 mm tapes.
- Orientations** from 0° to 150°
- Co-bonding** NCFs with Woven /Nonwoven Veils



Resin Compatibility

- UP >** Unsaturated polyester **100%**
- EP >** Epoxy **100%**
- PP >** Polypropylene **100%**
- VE >** Vinylester **100%**
- PU >** Polyurethane **100%**



Biaxial Fabrics

Biaxial NCF are made up of 2 layers laid in $\pm 45^\circ$ or $0^\circ/90^\circ$, stitched with texturized polyester yarn. $\pm 30^\circ$ or $\pm 60^\circ$ available on request.



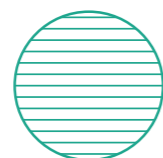
Triaxial Fabrics

Triaxial NCF are made up of 3 layers laid in $0^\circ/\pm 45^\circ$ or $\pm 45^\circ/90^\circ$, stitched with texturized polyester yarn.



Quadriaxial Fabrics

Quadriaxial NCF are made up of 4 layers laid in $0^\circ/\pm 45^\circ/90^\circ/\pm 45^\circ$, stitched with texturized polyester yarn.



Unidirectional Fabrics

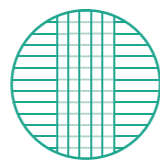
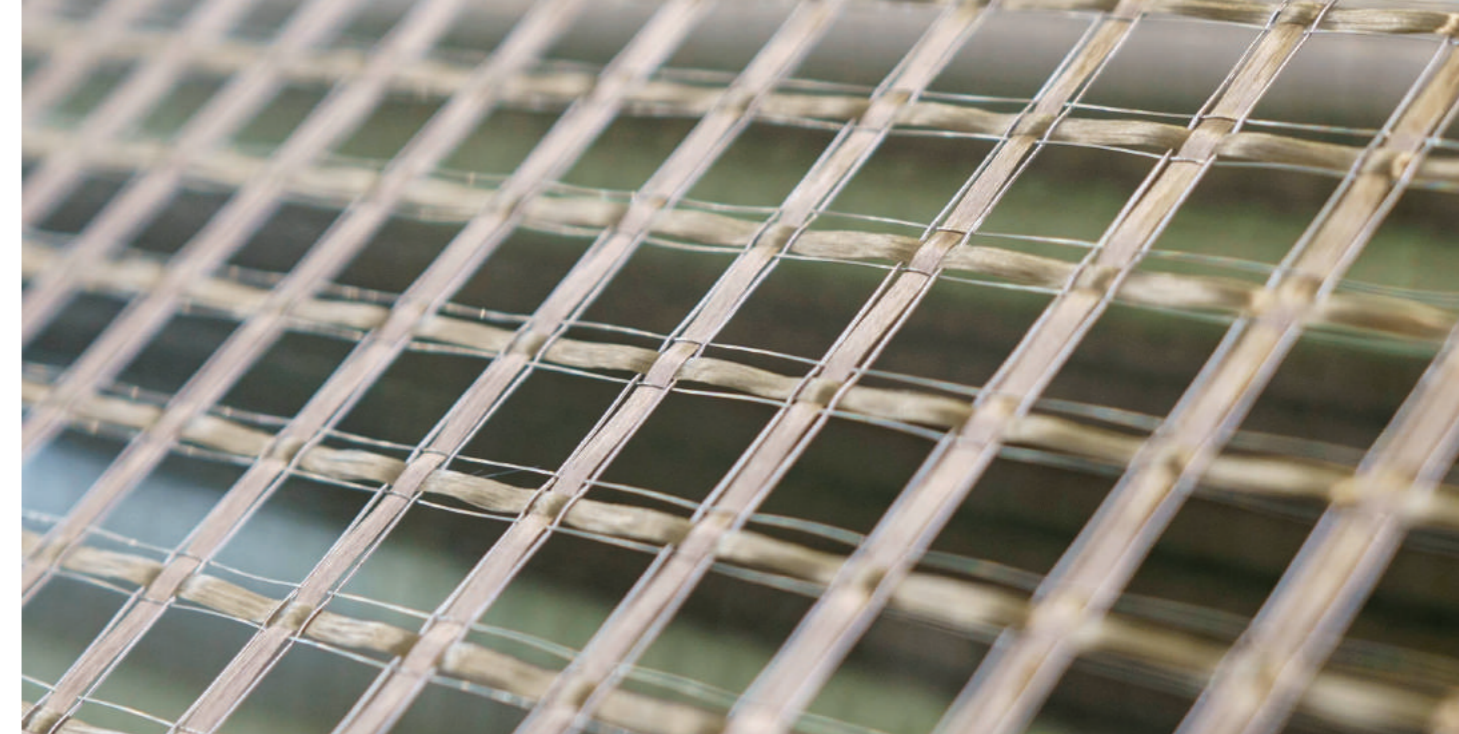
Unidirectional NCF are made up of 1 layer laid in 0° , stitched with texturized polyester yarn.

STD. ITEM		gr/m ²						
GLASS		0°	+45°	90°	-45°	CSM	Stitching	Weight
UNIE200	NCF UD	200	-	60	-	-	13	273
UNIE300		300	-	60	-	-	13	373
UNIE400		400	-	50	-	-	11	461
UNIE520		480	-	50	-	-	11	541
UNIE640		600	-	50	-	-	11	661
UNIE800		840	-	50	-	-	11	901
UNIE1000		960	-	50	-	-	11	1021
EBX250	BIAX $\pm 45^\circ$	-	125	-	125	-	14	264
EBX300		-	150	13	150	-	8	321
EBX400		-	200	-	200	-	6	408
EBX450		-	228	-	228	-	-	464
EBX600		-	300	-	300	-	6	608
EBX800		-	400	13	400	-	6	821
EBX1200		-	597	-	597	-	6	1201
EBXS300	BIAX 0° 90°	150	-	167	-	-	13	330
EBXS400		210	-	188	-	-	13	411
EBXS600		300	-	300	-	-	12	612
EBXS850		425	-	425	-	-	11	861
EBXS1200		590	-	610	-	-	9	1209
ETXL400	TRIAX	133	133	133	-	-	13	413
ETXL500		167	167	167	-	-	13	514
ETXL600		207	198	-	198	-	15	618
ETXL690		207	235	-	235	-	15	692
EQX600	QUADRIAX	177	122	133	193	-	13	638
EQX800		213	195	200	195	-	9	1037
EQX1000		265	241	259	241	-	9	1015
EQX1200		300	303	297	303	-	9	1212
M50		+ CSM	-	-	-	-	50	-
M80	-		-	-	-	80	-	80
M100	-		-	-	-	100	-	100
M150	-		-	-	-	150	-	150
M225	-		-	-	-	225	-	225
M300	-		-	-	-	300	-	300

Meshes & Grids

Features

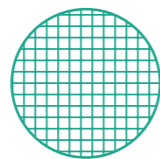
UD Weight from 200 gsm to 1,000 gsm.
Mesh Weight from 80 gsm to 400 gsm.
Width from 50 mm to 1000 mm.
 Carbon HM, IM and Basalt Fiber upon request.



Woven Tapes

UD Woven Tapes warp-weft weaved, thermo-fixed with polyamide coated glass fiber to provide cutting and handling stability.

UD textile technology offers advanced reinforcement for construction industry.



Mesh Fabrics

Open structure warp-weft fabrics, thermo-fixed with polyamide coated glass fiber.

Mesh textile technology is widely used for structural reinforcement of concrete, masonry, steel and wood rebars.

STD. ITEM	CARBON	gr/m ²						Weight
		0°	+45°	90°	-45°	Thermofix	Stitching	
UNICTFIX300	TAPES	300	-	-	-	20	-	320
UNICTFIX400		400	-	-	-	20	-	420
UNICTFIX600		600	-	-	-	20	-	620
BIAXCTFIX172	MESH	88	-	88	-	12	-	408
BIAXCTFIX200		100	-	100	-	12	-	212
BIAXCTFIX300		150	-	150	-	12	-	312
CQX380	QUADRIAX	95	95	95	95	-	10	390

Specialties



Bespoke solutions

The Multiaxial Technology allows to stack up to 6 layers, with different orientations, fibers, and added value processes.

Hybrid fabrics

Carbon, Glass, Aramid, Basalt, Flax, can be combined to satisfy our customers' technical requirements.

Self Adhesive fabrics

Selcom Multiaxials can be finished with epoxy hot melt adhesive, to enhance productivity and healthy environment.

Powder Coating

Selcom Multiaxials can be coated with thermoplastic binder to stabilize preforms for RTM Technology and Cosmetic applications.

In the heart of Europe



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