



Exel Composites Tool handles & telescopes

FOR FORWARD THINKERS

exel
COMPOSITES

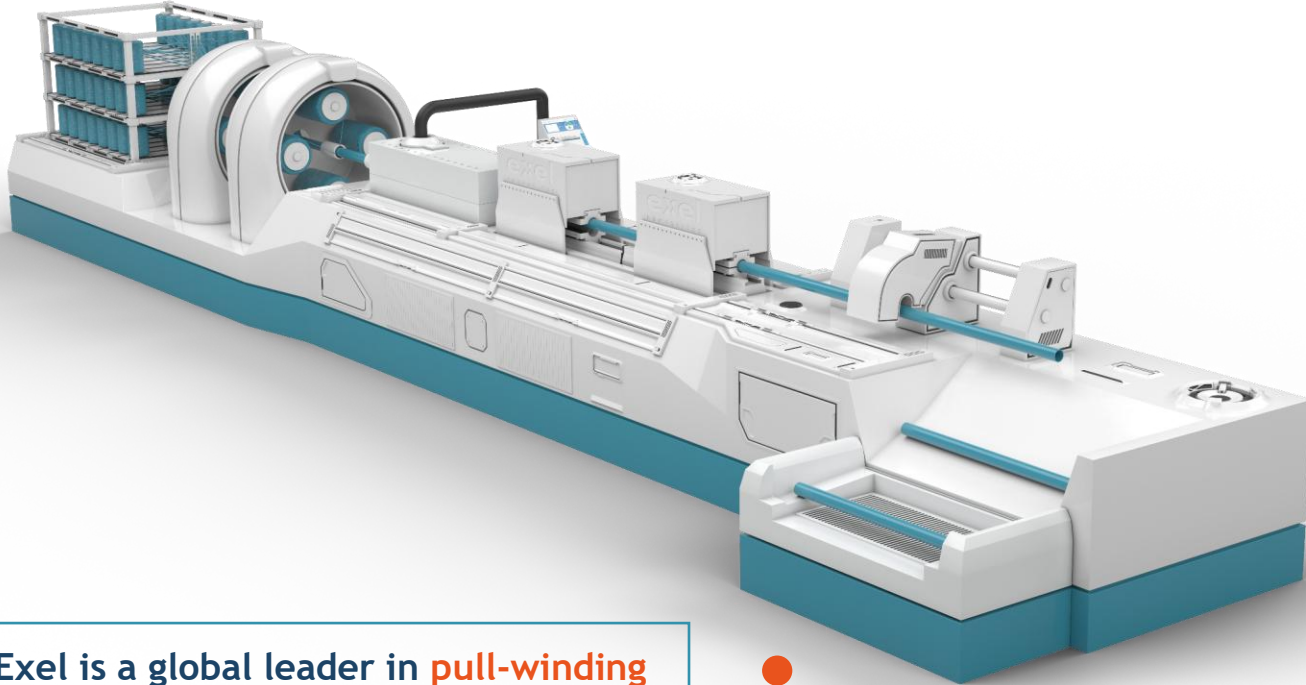
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Exel Composites - assembled product manufacturer



Exel is a global leader in **pull-winding**

In the continuous composites manufacturing process called pull-winding, fibers are helically wound around the structure, ensuring superior mechanical performance and optimized tube properties.

- ◆ With a long history of assembling our own products, such as ski poles and tool handles, we also deliver semi-finished solutions tailored to our customers' needs.
- ◆ Composite materials offer an ideal choice for handheld tools, combining unmatched lightweight properties with exceptional strength.
- ◆ Stiffness plays a crucial role in high-reach applications, including window cleaning and tree pruning, ensuring reliable performance.
- ◆ Our pull-winding technology for tube manufacturing ensures superior mechanical properties, even in thin-walled structures, while maintaining cost efficiency.
- ◆ Our product lineup ranges from compact, fixed-length tool handles to telescopic poles extending up to 25 meters for maximum versatility.

Accessories

- ◆ Multiple tools and accessories available to match the application needs.
- ◆ Accessories fit most of the tubes with outer diameters between 20mm (0.787") and 30mm (1.181"). End caps are available for the whole size range.
- ◆ Handgrips designed for a comfortable ergonomic feel and secure grip, available in various colors
- ◆ Threads for each geographic region for easy connectivity.
- ◆ End caps to prevent dirt and water getting inside the tube.
- ◆ Other accessories available including special plugs, hooks, angled connectors, ground feet and others.



Exelens

- ◆ Exelens is a fixed length tool for basic cleaning and low-reach tools.
- ◆ Product includes pull-wound shaft plus optional hand grips and thread plugs.
- ◆ Lengths range from 600mm to 2000mm.
- ◆ Automated assembly machine for high output.
- ◆ Colors can be customized to reduce the risk of cross contamination.
- ◆ Composite shaft is strong and warm to touch and can be made anti-bacterial and -viral.
- ◆ Autoclavable, can be sterilized in standard autoclave process (15-20 minutes in 121°C).



Standard tube OD/ID

Example products (including thread and handgrip)

mm/(in)	Length		Weight	
	mm	ft	g	lb
22/19.5 (0.866"/0.768")	1200	3.9	220	0.48
23.5/20.5 (0.925"/0.807")	1300	4.3	290	0.65
25/22 (0.984"/0.866")	1500	4.9	350	0.76
25.4/22 (1.000"/0.866")	1800	5.9	370	0.82

QuickLock

- ◆ QuickLock is a lightweight 2-part adjustable composite telescopic tool handle including handgrip and thread plug.
- ◆ Minimum closed length 300mm (1ft) and maximum open length 2700mm (9ft).
- ◆ Length of the handle can be adjusted with an easy to operate locking system. Connector requires only a slight twist movement to lock the telescope in any position. An internal stopper prevents the tubes from separating. No metal parts are used.
- ◆ Autoclavable, can be sterilized in standard autoclave process (15-20 minutes in 121°C).



Model	No. Of sections	Tube OD		Closed length		Open length		Weight	
		mm/(in)	mm/(in)	mm	ft	mm	ft	kg	lb
QL-2/25.4.22	2	25.4 (1.000")	22 (0.866")	600	2	1000	3.3	0.3	0.7
QL-2/25.4.22	2	25.4 (1.000")	22 (0.866")	1450	4.8	2700	8.9	0.6	1.3
QL-2/27.23.5	2	27 (1.063")	23.5 (0.925")	600	2	1000	3.3	0.4	0.8
QL-2/27.23.5	2	27 (1.063")	23.5 (0.925")	1450	4.8	2700	8.9	0.7	1.6

Extender - telescopic pole

- ◆ Extender is a 2- or 3-part telescope for applications where extended reach is needed, for example window cleaning, painting and maintenance.
- ◆ Three different sizes and two locks with a possibility to combine trioval and round tubes.
- ◆ Trioval shape enables non-rotating function which can be beneficial when increased torsion resistance is needed.
- ◆ Standard color is yellow, other colors available on request.

Model	Tube type	Sections	Closed length		Open length		Weight	
			m	ft	m	ft	kg	lb
EXT-2/28.22id19.3	Round	2	1	3.3	1.8	6.0	0.5	1.0
EXT-3/34.22id19.5-TRI	Trioval	3	1.5	4.9	4.1	13.4	1.1	2.5



XTEL - telescopic pole

- ◆ XTEL offers a complete telescopic pole system for all the high-reach applications at different heights up to 25m (80ft).
- ◆ XTEL consists of 10 different diameters and five material combinations providing the most optimal user experience for multiple applications. Tube wall thicknesses vary between 1-1.5mm (0.039"-0.059").
- ◆ Award-winning locking system enables easy operation when extending or retracting the telescopic pole. Heavy duty clamp rings available for extra rigidity.
- ◆ Multiple accessories available to help with connecting the tool.

Available tube OD

mm	in
18	0.708
22	0.866
26	1.023
30	1.181
34	1.338
38	1.496
42	1.653
46	1.811
50	1.968
54	2.125

Model	Material	Sections	Closed length		Open length		Weight	
			m	ft	m	ft	kg	lb
GXTEL-3/30.22id19.5	Glass fiber	3	1.2	3.9	3.2	10.5	0.8	1.7
HXTEL-5/38.22id19.5	Carbon fiber	5	1.5	4.9	6.4	20.8	1.6	3.5
CXTEL-V2-9/54.22id19.5	HM-carbon	9	1.7	5.6	11	36	2.9	6.3



Universal - telescopic pole

- ◆ Universal telescopic pole is a 2-8 section product for robust high-reach applications such as tree pruning or electrical maintenance hot sticks.
- ◆ Multiple materials available from glass fiber to carbon fiber.
- ◆ Pull-wound tubes with 2mm wall thickness provide toughness and impact strength.
- ◆ Reinforced plastic locking parts are designed to last in extreme conditions.
- ◆ Multiple accessories available to help with connecting the tool.



Model	Material	Sections	Closed length		Open length		Weight	
			m	ft	m	ft	kg	lb
UNIVERSAL-3/37.23id19.5	Glass fiber + PE	3	1.2	3.9	3.1	10.2	1.2	2.7
UNIVERSAL-5/51.23id19.5	Glass fiber + VE	5	1.4	4.6	5.8	19	2.9	6.4
UNIVERSAL-7/65.23id19.5	Carbon fiber + VE	7	1.7	5.6	9.6	31.5	4.8	10.5

Available tube OD

mm	in
16.5	0.650
23	0.906
30	1.181
37	1.457
44	1.732
51	2.008
58	2.283
65	2.559



Camouflage net support unit (CNSU)

- ◆ Our CNSU poles were initially developed for the Finnish Defense Forces, engineered to withstand extreme winter and summer conditions.
- ◆ The design is based on our Universal telescopic pole, enhanced with an 8-loop support system and a durable metallic ground foot.
- ◆ The primary function of the pole is to support camouflage nets while minimizing radar or scanner detection.
- ◆ These poles meet NATO AECTP-230 climatic condition standards.
- ◆ NATO Stock Number (NSN) coded poles are also available.

Logistics information

Our tool handles and telescopic poles are manufactured in Europe, USA and Asia.

Typical lead time:

- ▶ 5 - 10 weeks to ship from PO, depending on the availability. To be confirmed at the placement of order.

For more information and contacting us, please visit our website [exelcomposites.com](https://www.exelcomposites.com)

Or use the QR-code:



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