



EXEL UNIVERSAL TELESCOPIC POLE™

– reaching new heights

For demanding applications

Exel Universal Telescopic poles™ were originally developed to meet the rigorous demands of Military Camouflage equipment. Today Universal poles are used wherever you need a strong and stiff pole to reach those generally inaccessible places – reaching up to 20 metres. Designed and produced for tough and demanding applications, yet pleasant and hygienic to use, they require no maintenance and will not rot or corrode.



Universal composite tubes

Universal composite tubes are glassfibre or carbon fibre based. The pole can be constructed utilizing a mix of carbon and glassfibre tubes, therefore maximizing cost performance.

Locking system

The composite tubes are combined with glass reinforced polyamide joints. The lever action of the joints is easy to use and provides a secure lock between each section. Secure double locking system prevents accidental release.





UNIVERSAL LOCKING SYSTEM

- Strong locking force (about 150 kg)
- Glass reinforced polyamide
- Operating temperature -50+80°C
- Screws and nuts stainless steel

EXEL Universal Pole Series

The Universal Pole has **many possible variations** – from two section unit extending to 800 mm (3 ft) through to a six section unit reaching up to 20 metres (66 ft).

Item	No. of sections	Tube diametres (OD) (mm)	Min. length mm (retracted)	Max. length mm (extended)	Weight (kg)	
					glass	carbon
UNI-2/30.23id18	2	23, 30	1000	1786	0.6	0.5
UNI-2/37.30id26	2	30, 37	1500	2786	1.2	1.0
UNI-2/44.37id47	2	37, 44	2000	3783	2.0	1.6
UNI-2/51.44id40	2	44, 51	2500	4778	2.9	2.4
UNI-2/58.51id47	2	51, 58	3500	6778	4.6	3.8
UNI-3/37.23id18	3	23, 30, 37	1000	2510	1.1	0.9
UNI-3/44.30id26	3	30, 37, 44	2000	5507	2.6	2.2
UNI-3/51.37id33	3	37, 44, 51	3000	8491	4.8	3.9
UNI-3/58.44id40	3	44, 51, 58	3500	9976	6.4	5.3
UNI-4/44.23id18	4	23, 30, 37, 44	1000	3169	1.6	1.3
UNI-4/51.30id26	4	30, 37, 44, 51	2000	7153	3.8	3.2
UNI-4/58.37id33	4	37, 44, 51, 58	3500	12969	7.9	6.5
UNI-5/51.23id18	5	23, 30, 37, 44, 51	1000	3753	2.1	1.8
UNI-5/58.30id26	5	30, 37, 44, 51, 58	3500	15819	9.0	7.5
UNI-6/58.23id18	6	23, 30, 37, 44, 51, 58	3750	20257	10.4	8.6

Some examples of the Universal combinations. Complete length and weight tables available on request. The length of the telescope unit depends on the tubes chosen. The min. length (retracted) between 500 mm and 3750 mm for all units. OD = Outer diametre, ID = Inner diametre.

Applications

High reach window cleaning, railway lighting poles, measurement devices, electrical insulating tools (only glassfibre), sea container opening equipment, sub sea applications, tree pruning, nuclear industry, bus/truck/trailer/rail car cleaning, airplane de-icing equipment, waste water treatment equipment.

GLASS UNIVERSAL POLE

Ideal for general use

Key advantages

Electrically isolative
High chemical resistance

Material

Glass composite tubes with polyamide joints

Standard colours

Marble grey RAL7001
Yellow RAL1018
Olive green RAL6014

CARBON UNIVERSAL POLE

For demanding heights

Advantages

Lightweight
Strong and stiff

Material

Carbon composite tubes with polyamide joints.
For electrical insulation outermost tube should be glassfibre.

Standard colour

Black RAL9004

HYBRID UNIVERSAL POLE

Hybrid solutions are also available. For electrical insulation outermost tube should be glassfibre.

TUBE DIAMETRES

The following tube sizes are utilized in the Universal Telescopic Poles™ (OD/ID). Tubes except 23 mm outer diametre have 2 mm wall thickness (5/64").

- Ø58 mm (2.283")
- Ø51 mm (2.008")
- Ø44 mm (1.732")
- Ø37 mm (1.457")
- Ø30 mm (1.181")
- Ø23/18 mm (0.906"/0.709")
- Ø23/19.5 mm light (0.906"/0.768")