

The Lightest Mast Systems in the World

Lightweight, compact, man-portable masts and tripods for easy and quick deployment of antenna, lights, surveillance and surveying instruments.



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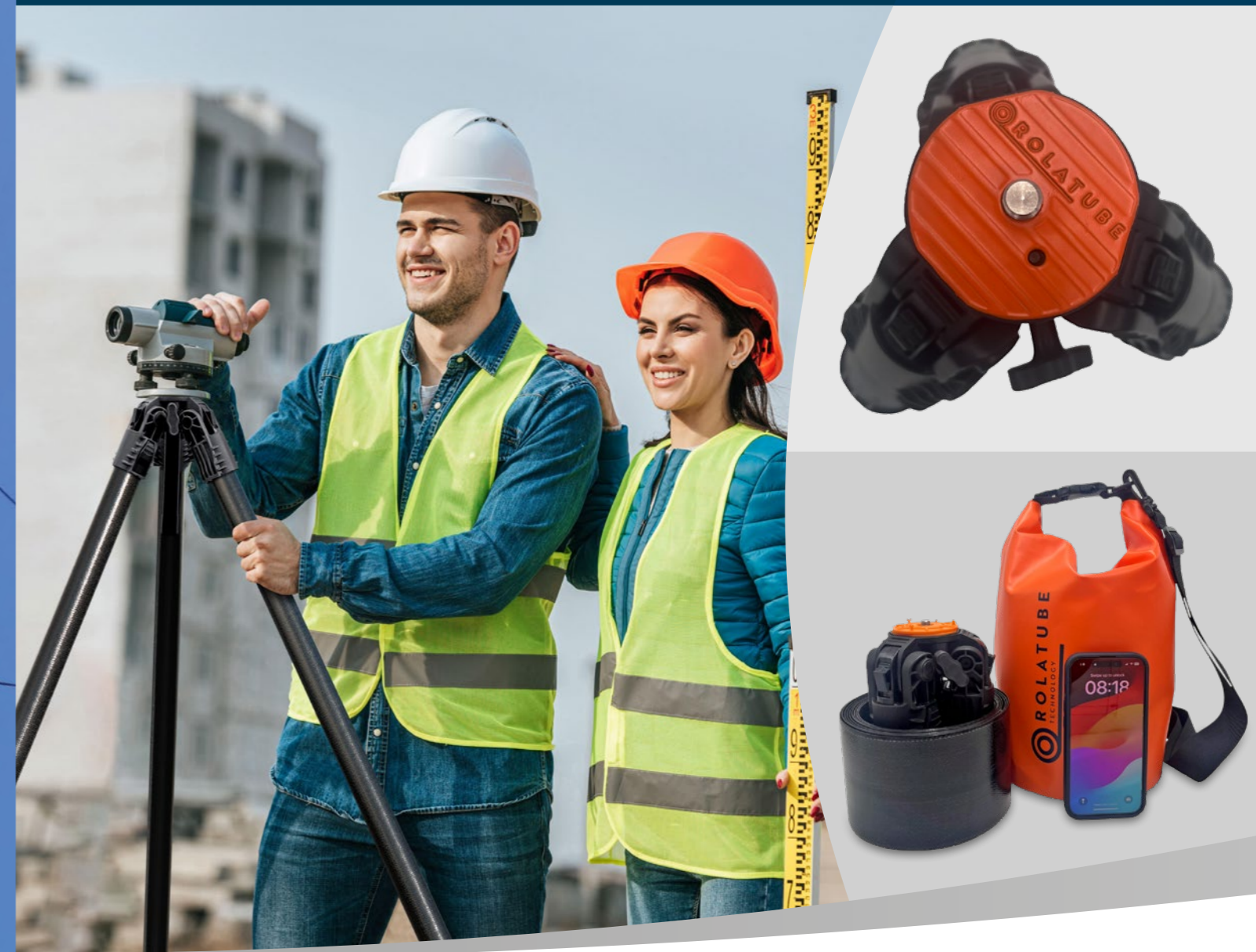
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The Rolatube technology is unique: a lightweight composite that unrolls from a stable roll into a stable and strong tube. A provider of mast systems and tripods to the defence, security and emergency sectors for many years, the Rolatube systems are now available to the Industrial sector.

Tried, tested and trusted by the best of us, Rolatube masts and tripods are now available to the rest of us.

If you need your mast or tripod to be lightweight, compact and quick & easy to deploy, Rolatube offers you the most compact and lightweight solution available. Rolatube products are ideal when weight, space and speed matter.

System 30 Industrial Compact Tripod (ICT)



Going places with your tripod? Then this is the tripod for you.

The ICT packs smaller than any comparable full sized tripod, bringing you a strong, stable platform to meet your wide-ranging requirements.

Small and light yet mighty.

You have choices of payload heights from 145mm to 1290mm, and an impressive topload capability of 40kg, yet the ICT weighs under 3kg and packs away to a maximum pack size of 190mm x 200mm x 180mm (7." x 7.8" x 7)

You build the tripod you need.

A range of components is on offer along with the choices of legs of 650mm or 1250mm, enabling you to build exactly the system you need.

	No legs (Stubby configuration)	650mm legs @ 25°	1250mm legs @ 25°	650mm legs @ 45°*i
Max Top Load:	40kg (88lb)	40kg (88lb)	40kg (88lb)	20kg (44lb)
Maximum Payload Height:	@25° 240mm (9.4") @45° 220mm (8.6")	740mm (29.1")	1290mm (50.7")	590mm (23.2")
Minimum Payload Height:	@25° 150mm (5.9") @45° 145mm (5.7")	650mm (25.5")	1200mm (47.2")	500mm (19.6")

*i 1250mm legs not recommended for use at 45°

System 50 Tripods

Systems 50 & 75 Single Tube Masts



The Rolatube System 50 Tripod can be used either as a stand-alone platform for the secure mounting of surveillance technology or as a support for a Rolatube mast, removing the need for guy ropes where conditions allow (see page 12 for details).

Strong and lightweight, the System 50 Tripod has a low packed volume as well as being quick and easy to deploy. Its inherent strength enables top loads of up to 115kg (308lb) to be mounted, making it suitable for heavier equipment.

System 50 Tripods	Maximum Top Load ¹	System Weight
1m (3.2')	115kg (253lb)	3.2kg (7lb)
2m (6.5')	65kg (143lb)	4.4kg (9.7lb)
3m (9.8')	35kg (77lb)	6kg (13.2lb)

¹ This loading is based on the tripod legs evenly spaced and held by the leg straps at the minimum spread. If the product is to be used in circumstances different from this, then the Rolatube technical team should be approached to understand the application and provide technical support regarding the appropriate maximum working top load.

Tried, tested and trusted by defence customers worldwide, the System 50 and System 75 single tube mast systems bring unrivalled weight and space savings. With pack sizes from just 280mm x 330mm x 250mm (11" x 12.9" x 9.8") the mast systems are ideal when you need to get your equipment into places you can't necessarily reach by vehicle, or just when space and weight are at a premium.

See the table opposite for the top load capability of each system. The system names relate to the diameter of the tube in mm, and using a Rolacage (see page 13) with the System 75 masts enables you to halt deployment at any height.

A range of adaptors is available for mounting your equipment (please see page 13). Rolatube's Technical Services Department is available to support you in advising the right solution for your application.

Single Tube Mast Systems	Maximum Top Load ¹	System Weight ²
System 50 2m (6.6')	10kg (22lb)	2kg (4.4lb)
System 50 3m (9.8')	7kg (15.4lb)	2.4kg (5.3lb)
System 50 4m (13.1')	3kg (6.6lb)	2.9kg (6.4lb)
System 75 3m (9.8')	11kg (24.2lb)	3.8kg (8.4lb)
System 75 4m (13.1')	7kg (15.4lb)	4.5kg (9.9lb)
System 75 5m (16.4')	5kg (11lb)	5.1kg (11.2lb)
System 75 7m (22.9')	2kg (4.4lb)	8kg (17.6lb)

¹ Maximum weight only. Sail area should be discussed with Rolatube technical representative.

² Without pegs.

System 75 Double Tube Masts



When you have a requirement to carry a heavier top load, the System 75 double tube mast systems are the answer. A simple yet effective solution, our double tube mast systems provide a substantial increase in torsional and axial strength with minimal impact on weight, volume and deployment time.

Quick and easy to deploy, the System 75 double tube masts only require 2 personnel to deploy, without the need for a Central Guy Control (CGC) (see page 13 for details of the CGC, enabling deployment by just two personnel of any other Rolatube mast system).

Double Tube Mast Systems	Maximum Top Load ¹	System Weight ²
System 75 3m (9.8')	23kg (50lb)	5.8kg (12.8lb)
System 75 4m (13.1')	20kg (44lb)	7.4kg (16.3lb)
System 75 5m (16.4')	15kg (33lb)	9kg (19.8lb)
System 75 7m (22.9')	5kg (11lb)	12.5kg (27.5lb)

¹ Maximum weight only. Sail area should be discussed with Rolatube technical representative.

² Without pegs.

Mast Support System for System 75 Masts



The Mast Support System for System 75 masts provides unguyed support to System 75 single and double tube 3m, 4m and 5m masts, where conditions allow. Accessories available are peg plates & pegs, weight plates & weight bags, providing stability to the system for supporting masts in zero or near zero wind conditions. The leg tie also serves to prevent slippage and further enhance stability.

System weight 2.5kg (5.51lb)

Maximum top loads on System 75 single tube masts:

3m (9.8')	8kg (17.6lb)
4m (13.1')	5kg (11lb)
5m (16.4')	3kg (6.6lb)

Maximum top loads on System 75 double tube masts:

3m (9.8')	12kg (26.4lb)
4m (13.1')	10kg (22lb)
5m (16.4')	5kg (11lb)

System 100 Mast / Rolacage Systems

Central Guy Control (CGC)



Available in:
BLACK



For heavier top loads at greater heights, the 8m and 10m mast / Rolacage systems enable rapid deployment at variable heights through the use of the braking function on the aluminium Rolacage within which these masts are permanently mounted.

Still man-portable, and very popular for use from and on vehicles, these systems offer very significant savings in weight and volume when compared to other mast systems of similar height.

By using the System 100 with the CGC, it can be deployed with just 2 personnel.

Mast / Rolacage Systems	Maximum Top Load ¹	System Weight ²
System 100 8m (26.2')	15kg (33lb)	22.7kg (50.0lb)
System 100 10m (32.8')	12kg (26.4lb)	24.36kg (53.7lb)

¹ Maximum weight only. Sail area should be discussed with Rolatube technical representative.

² Without pegs.

The Central Guy Control (CGC) can be used with the System 75 single tube mast systems and System 100 mast systems to enable deployment by just two people. Bringing all three guy ropes to the control of one person, it effectively replaces two people in deployment.

The following table shows the combinations available

	System 50 1m Tripod	System 50 2m Tripod	System 50 3m Tripod	Rolacage	CGC
System 50 2m mast					
System 50 3m mast					
System 50 4m mast					
System 75 3m mast		•		•	
System 75 4m mast		•		•	•
System 75 5m mast		•	•	•	•
System 75 7m mast		•	•	•	•
System 100 8m mast				*i	*ii
System 100 10m mast				*i	*ii

*i Permanently fixed *ii Up to 5kg top load

System IAM Integrated Antenna Masts

Rolatube Technology has extended the use of the rollable composite material to expedite communications even further by integrating linear dipole antennas within it.



The unique 'IAM' technology revolutionised man-portable communications in the defence sector. Liaising with partners in the disaster response sector we have created the 'RESQ' IAM.

The System IAM 'RESQ' is available in 3.5m (11.5') and 7m (22.9').

The System IAM 3.5m 'RESQ' packs into a 150mm (5.9") roll, weighs only 1.6kg (3.5lb) and is deployed in seconds, bringing unprecedented weight-, volume- and time-savings. Usually hand-held or propped against structures or vegetation, the system also includes the accessories required to deploy them as guyed masts.

The System IAM 7m 'RESQ' offers the same 'plug & play', compact, lightweight solution as the 3.5m, but is intended for the longer term as a guyed mast.

Please note: IAMs are also available @ 30-300MHz and 136-470MHz in 3.5m, and 30-88MHz &/or 225-512MHz in 7m; please contact us for details: info@rolatube.com

System IAM 3.5m 'RESQ'	
Frequency Range:	136-175MHz
Deployed Height:	3.5m (11.5')
Deployed Tube ID:	51mm (2")
Radiation Pattern:	Omnidirectional
Antenna Format:	Vertically Polarised Dipole
VSWR:	< 2.1:1
Power Rating:	25W c.w ¹
Impedance:	50ohms nominal
Nominal Gain:	2.2 dBi
Mast Packed / Rolled Dimensions W x H x D:	150 x 150 x 150mm (6" x 6" x 6")
System Weight:	2.2kg (4.8lb)

System IAM 7m 'RESQ'	
Frequency Range:	136-175MHz
Deployed Height:	7m (22.9')
Deployed Tube ID:	76mm (3")
Radiation Pattern:	Omnidirectional
Antenna Format:	Vertically Polarised Dipole
VSWR:	< 1.8:1
Power Rating:	30W c.w ¹
Impedance:	50ohms nominal
Nominal Gain:	2.2 dBi
Mast Packed / Rolled Dimensions W x H x D:	280 x 280 x 400mm (11" x 11" x 16")
System Weight:	8.7kg (19.1lb)

(1Stated power rating is based on continuous transmit. Higher powers may be used depending on duty cycle and transmission duration protocols. Please contact your Rolatube representative to discuss your requirements before exceeding stated maximum power.)

System 75 & System 100 3.5m IAM Mounts

Accessories



The 3.5m IAM Mounts enable Rolatube System 75 and System 100 masts to support any Rolatube 3.5m IAM product, thus achieving a new maximum height for Rolatube of 13m.

Lightweight and compact, this mount brings a new level of flexibility to the Rolatube range, for example, a System 100 mast can now be just that as well as a 13m IAM. The mount can only be used with System 75 masts up to 5m, compatibility with systems and accessories is shown right:

System 75 3.5m IAM Mount Compatible With:
System 75 3m single tube mast
System 75 4m single tube mast
System 75 5m single tube mast
System IAM 3.5m SQUAD (30-300 MHz)
System IAM 3.5m TEAM (136-470 MHz)
System IAM 3.5m RESQ (136-175 MHz)
Rolacage
Central Guy Control (CGC)

System 100 3.5m IAM Mount Compatible With:
System 100 8m mast/Rolacage
System 100 10m mast/Rolacage
System IAM 3.5m SQUAD (30-300 MHz)
System IAM 3.5m TEAM (136-470 MHz)
IAM 3.5m RESQ (136-175 MHz)
Central Guy Control (CGC)

Rolacage: For use with System 75 single tube mast systems.

Central Guy Control (CGC): for use with Systems 75 & 100 masts, to reduce the number of personnel required for deployment.

The hinged base plate can be used with the System 75 double tube mast systems to further aid deployment.

Side mount (Radwin): For mounting Radwin microwave antenna on System 75 double tube mast systems, with a hole pattern to enable side mounting of other equipment.

Side mount (Cisco): Optimised for the Cisco Wireless Access Point on System 75 double tube mast systems, with a hole pattern to enable side mounting of other equipment.

Side mount (Cambium): Optimised for the Cambium Wireless Access Point on System 75 double tube mast systems, with a hole pattern to enable side mounting of other equipment.

Rolatube has developed a range of mast ancillaries which either assist mast deployment or provide solutions for mounting different payloads, a selection of which is shown here. Please contact us to discuss your requirements.

If you have a requirement to attach equipment to a Rolatube mast and cannot find the relevant mount, please contact Rolatube.

25cm Spigot mount: For use on any Rolatube mast system or System 50 tripod, to provide c.228mm (9") spigot to which equipment can be secured.

Spigot reducing kit: For use in any 30mm (1.1") spigot hole, as provided on all Rolatube mast systems and System 50 tripods, to reduce the hole to 24mm (0.9") female, with an option to further provide a 17mm (0.6") male.

Camera mounting adaptor: For use with all Rolatube mast systems and System 50 tripods, to provide a 100mm (4") spigot with 6mm (0.25") Whitworth screw for direct interface with a camera.

Mast support adaptor: for use with Systems 75 & 100 masts and the System 50 tripod, to enable the tripod to be used as a support for the mast.

Twin Antenna T-Bar Mount: Provides 1.01m (40") span for securing multiple antenna. Includes a mounted cable connection from N-type female to TNC type female. The TNC is facing upwards to be connected to the antenna.

Strain Relief Cable: N-Type for use with the 'RESQ' 3.5m IAM.

Product List

Part No	Description	Part No	Description
System 30 Industrial Compact Tripod (ICT)		Mast Support System for System 75 Masts	
800-008000-IND	Stubby ICT Tripod	950-305210-7-1	System 75 5m Double Mast Blue
650-000483	Hook for ICT	950-307210-3-1	System 75 7m Double Mast Black
800-008100	Peg plate for ICT, including nut & bolt	950-307210-5-1	System 75 7m Double Mast Orange
207-002009	Peg for ICT	950-307210-7-1	System 75 7m Double Mast Blue
403-000142	Foot Spike for ICT	System 100 Masts	
850-320650-IND-3	System 30 ICT 650mm leg. Set of 3	9956-408002-3-1	System 100 8m, Black
850-321250-IND-3	System 30 ICT 1250mm leg. Set of 3	956-410002-3-1	System 100 10m, Black
403-000128	Allen Key set for ICT	System IAM 'RESQ'	
502-003058	Roll-top, waterproof bag	952-203510-3-1	System IAM 3.5m 'RESQ' 136-175MHz Black
System 50 Tripods		952-203510-5-1	System IAM 3.5m 'RESQ' 136-175MHz Orange
953-201010-3-1	System 50 1m Tripod Black	952-203510-7-1	System IAM 3.5m 'RESQ' 136-175MHz Blue
953-201010-5-1	System 50 1m Tripod Orange	952-307011-3-1	System IAM 7m 'RESQ' 136-175MHz Black
953-201010-7-1	System 50 1m Tripod Blue	952-307011-5-1	System IAM 7m 'RESQ' 136-175MHz Orange
953-202010-3-1	System 50 2m Tripod Black	952-307011-7-1	System IAM 7m 'RESQ' 136-175MHz Blue
953-202010-5-1	System 50 2m Tripod Orange	3.5m IAM Mounts	
953-202010-7-1	System 50 2m Tripod Blue	800-006200	3.5m IAM Mount for System 75 masts
953-203010-3-1	System 50 3m Tripod Black	800-006210	3.5m IAM Mount for System 100 masts
953-203010-5-1	System 50 3m Tripod Orange	Accessories	
953-203010-7-1	System 50 3m Tripod Blue	207-190001	System 30 Tripod Leg Tie
System 50 & 75 Single Tube Masts		800-007102	Rolacage for System 75 Single Tube Masts
950-202010-3-1	System 50 2m Mast Black	800-000008	Mast support adaptor for System 75 Single tube mast
950-202010-5-1	System 50 2m Mast Orange	800-000012	Mast support adaptor for System 75 Double tube mast
950-202010-7-1	System 50 2m Mast Blue	800-000037	Mast support adaptor for System 100 Mast
950-203010-3-1	System 50 3m Mast Black	207-300004	Central Guy Control (CGC) for System 75 3m (9.8') and 4m (13.1') Mast Systems
950-203010-5-1	System 50 3m Mast Orange	207-300007	Central Guy Control (CGC) for System 75 5m (16.4') and 7m (22.9') Masts
950-203010-7-1	System 50 3m Mast Blue	207-300010	Central Guy Control (CGC) for System 100 8m (26.2') and 10m (32.8') masts
950-204010-3-1	System 50 4m Mast Black	800-001075	Hinged base plate for System 75 double tube masts
950-204010-5-1	System 50 4m Mast Orange	207-000094	25cm (10") Spigot Mount
950-204010-7-1	System 50 4m Mast Blue	207-000035	Spigot reducing kit - to 24mm (0.9") female and 17mm (0.6") male
950-303010-3-1	System 75 3m Mast Black	207-000029	Camera mounting adaptor - 100mm (4") spigot with 6mm (0.25") Whitworth screw
950-303010-5-1	System 75 3m Mast Orange	800-005120	5985-99-871-6952 Mast Straps for System 100 masts
950-303010-7-1	System 75 3m Mast Blue	800-000036	Twin Antenna T-Bar Mount
950-304010-3-1	System 75 4m Mast Black	800-000044	Side mount (Radwin)
950-304010-5-1	System 75 4m Mast Orange	800-000032	Side mount (Cambium)
950-304010-7-1	System 75 4m Mast Blue	800-000034	Side mount (Cisco)
950-305010-3-1	System 75 5m Mast Black	108-000035	Strain Relief for 3.5m RESQ IAM
950-305010-5-1	System 75 5m Mast Orange	System 75 Double Tube Masts	
950-305010-7-1	System 75 5m Mast Blue	950-303210-3-1	System 75 3m Double Mast Black
950-307010-3-1	System 75 7m Mast Black	950-303210-5-1	System 75 3m Double Mast Orange
950-307010-5-1	System 75 7m Mast Orange	950-303210-7-1	System 75 3m Double Mast Blue
950-307010-7-1	System 75 7m Mast Blue	950-304210-3-1	System 75 4m Double Mast Black
		950-304210-5-1	System 75 4m Double Mast Orange
		950-304210-7-1	System 75 4m Double Mast Blue
		950-305210-3-1	System 75 5m Double Mast Black
		950-305210-5-1	System 75 5m Double Mast Orange

Please contact Rolatube at info@rolatube.com if you wish to discuss bespoke products.



Distributors

Rolatube provides products and support through a global network of distributors. To find your local contact, please either email info@rolatube.com for an introduction, or visit our website: www.rolatube.com/international-distributor-locator/



Photo credit and thanks to:
Dartmoor Search & Rescue
Team, Plymouth.

Rolatube is always happy to
discuss possible new applications
for the Rolatube technology;
please contact info@rolatube.com



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