

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System

AVAILABLE LANGUAGES: ENG



ANSI Z359.18-2017
CSA Z259.15-2022
AS/NZS 5532:2013
OSHA 1910.140
OSHA 1926.502



BEAVER TECHNOLOGY SERVICES

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System



The AirHook Lite is a mobile overhead fall protection anchor system designed for site portability and rapid deployment. Allows for easy movement around a site to suit both working at height, and confined space applications.

STANDARD FEATURES

- Overhead anchorage point for personal fall arrest systems.
- Winch for raising and lowering vertical mast.
- Built in visual overload fall indicator.
- Mast can rotate 360°.
- Counterweighted base with integrated forklift tine and pallet jack pockets for ease of mobility.
- Bases can be separated to be moved by smaller capacity forklifts.
- Integrated mounting provisions for attaching bolt-on lifting lugs.
- 2 part polyurethane protective coating & galvanised steel finish with internal concrete & steel counterweights.
- Tested, certified and meets the following Standards requirements:
ANSI Z359.18-2017
CSA Z259.15-2022
AS/NZS 5532:2013
OSHA 1910.140
OSHA 1926.502

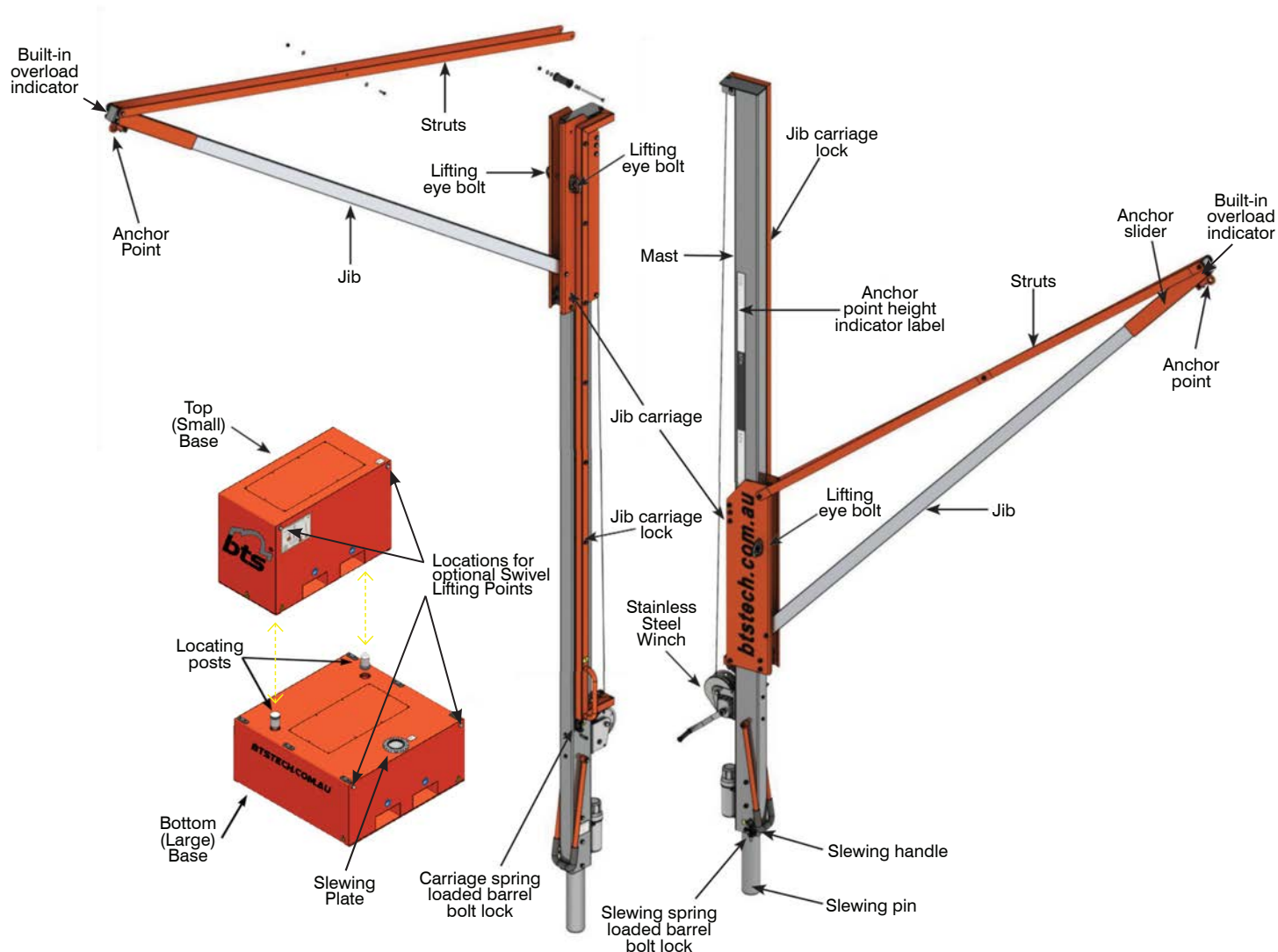


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Mobile Fall Arrest with Overhead Anchor Point System



PARTS IDENTIFICATION



SPECIFICATIONS

Materials and specification are subject to change without notice.

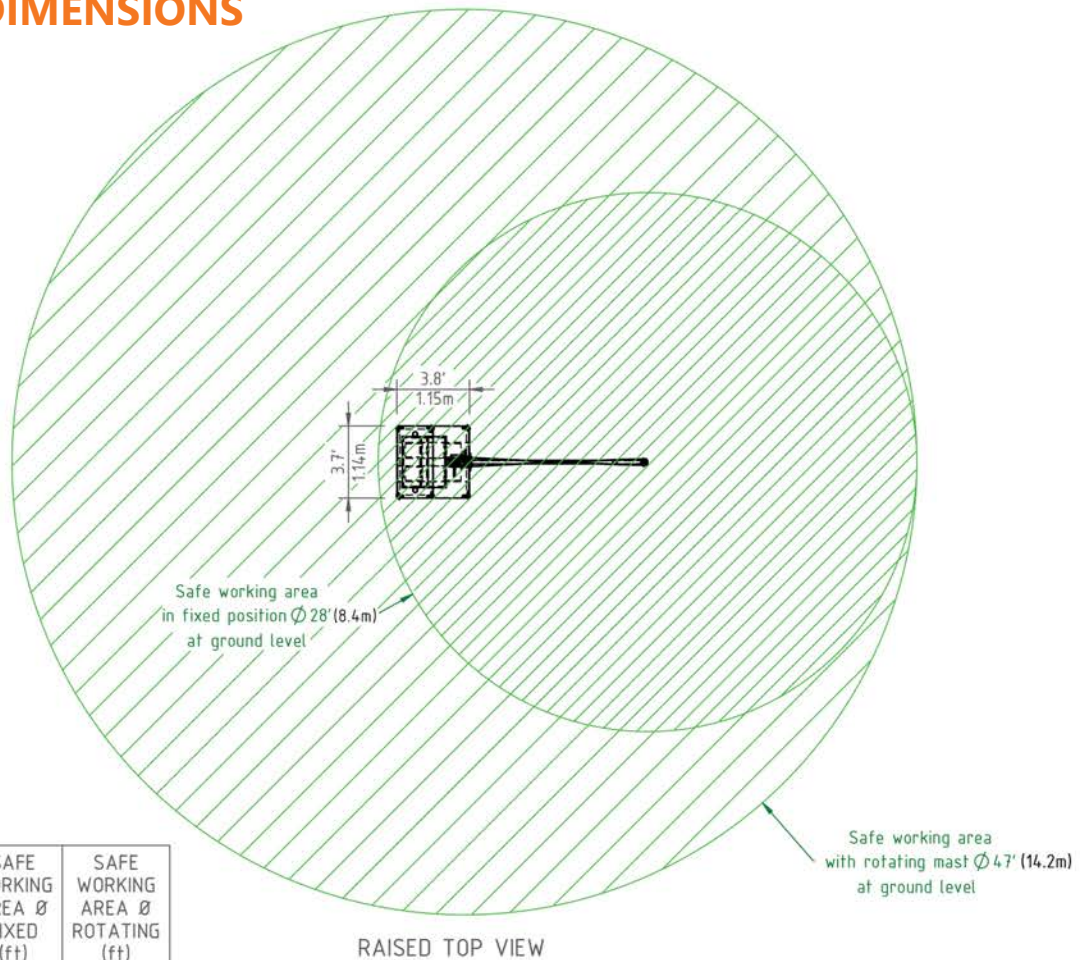
Ultimate Strength Rating:	12kN (2700 lbs)
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 140kg (310 lbs)
Allowable MAF Rating for SRL's:	6 kN (1350 lbs)
Overall Height:	5.3m (17.3 ft) Min. - 7.5m (24.6 ft) Max.
Anchor Point Height:	4.9m (16.0 ft) Min. - 7.4m (24.2 ft) Max.
Reach:	2.8m (9.2 ft)
Footprint:	1.14m (3.7 ft) x 1.15m (3.8 ft)
Total Weight:	3.0t (3.3 ton)
Mast Weight:	185kg (408 lbs)
Small Base:	1.2t (1.3 ton) - W1.14m (3.7 ft) x L0.57m (1.9 ft) x H0.76m (2.5 ft)
Large Base:	1.6t (1.8 ton) - W1.14m (3.7 ft) x L1.15m (3.8 ft) x H0.54m (1.8 ft)
Anchorage Type:	Limited Free Fall

BTS AIRHOOK LITE

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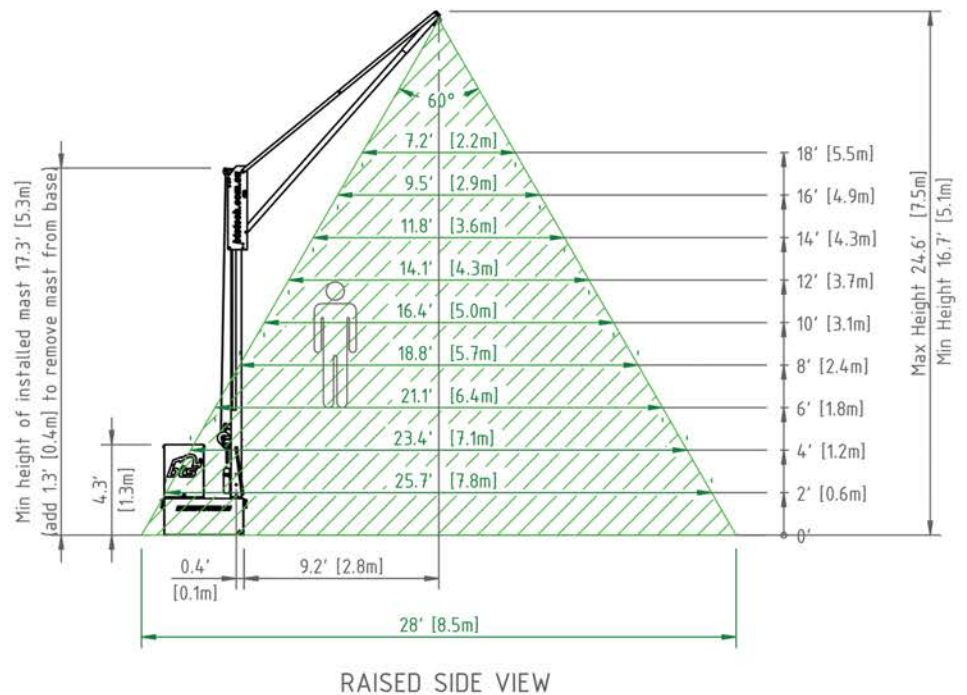


PRODUCT DIMENSIONS



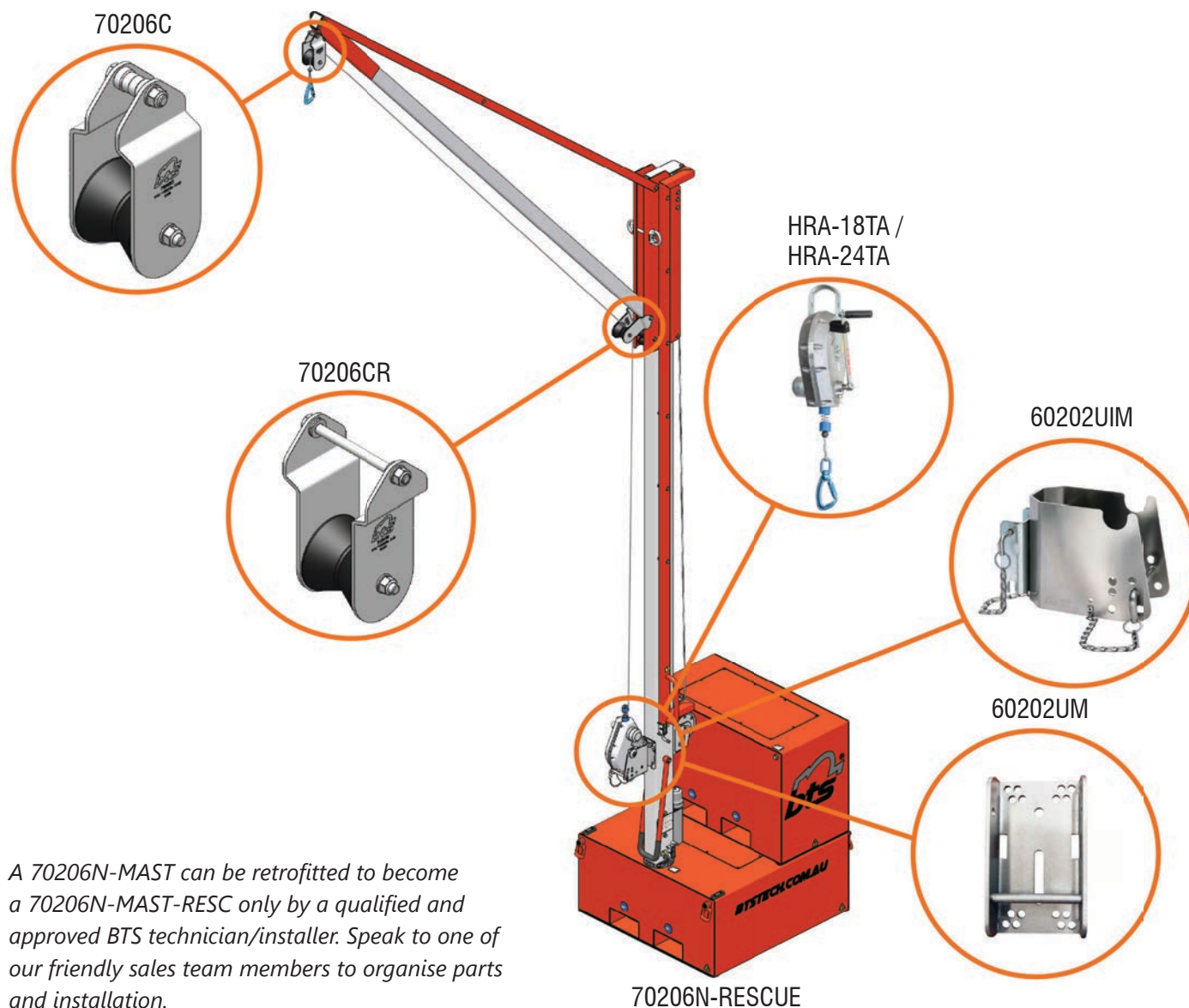
WORKING SURFACE HEIGHT (ft)	ANCHOR POINT TO WORKING SURFACE (ft)	SAFE WORKING AREA Ø FIXED (ft)	SAFE WORKING AREA Ø ROTATING (ft)
1	23.2	26.8	45.8
2	22.2	25.7	44.7
3	21.2	24.5	43.5
4	20.2	23.4	42.4
5	19.2	22.2	41.2
6	18.2	21.1	40.1
7	17.2	19.9	38.9
8	16.2	18.8	37.8
9	15.2	17.6	36.6
10	14.2	16.4	35.5
11	13.2	15.3	34.3
12	12.2	14.1	33.2
13	11.2	13.0	32.0
14	10.2	11.8	30.9
15	9.2	10.7	29.7
16	8.2	9.5	28.6

WORKING SURFACE HEIGHT (m)	ANCHOR POINT TO WORKING SURFACE (m)	SAFE WORKING AREA Ø FIXED (m)	SAFE WORKING AREA Ø ROTATING (m)
1	6.3	7.2	12.8
2	5.3	6.1	11.7
3	4.3	4.9	10.5
4	3.3	3.8	9.4
5	2.3	2.6	8.2



BTS AIRHOOK LITE**Mobile Fall Arrest with Overhead Anchor Point System****CONFINED SPACE RESCUE MODE****CODE: 70206N-RESCUE**

The BTS AirHook Lite can be fitted with a type 3 inertia reel (comes with Recovery Winch via Diversion Sheave). The recovery handle allows workers to be safely lowered and raised. The worker can be retrieved quickly out of the same area. 360° slew allows for the injured person to be rotated away from the confined space entry.



A 70206N-MAST can be retrofitted to become a 70206N-MAST-RESC only by a qualified and approved BTS technician/installer. Speak to one of our friendly sales team members to organise parts and installation.

70206N-RESCUE	Rescue Kit
70206N-MAST-RESC	BTS AirHook Lite Mast Rescue
HRA-18TA	IKAR Rescue Winch, Aluminium, 18m (59 ft) Steel rope, 11.5kg (25 lbs)
HRA-24TA	IKAR Rescue Winch, Aluminium, 24m (78 ft) Steel rope, 16kg (35 lbs)
70206C	Wide Jaw Diversion Sheave
70206CR	Wide Jaw Diversion Sheave (reversed - to divert around large objects/close proximity)
60202UIM	IKAR HRA 12/18/24 Universal Interface Bracket
60202UM	Quick Release single Universal Male Interface Bracket

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System



70206N - AirHook Lite standard set-up for SRL and B-Rail Use

Standard parts that come with 70206N

	70206N-MAST	AirHook Lite Davit for the 70206N suitable for use with SRL or B-Rail
	70206N-SBASE	AirHook Lite SMALL upper base for the 70206N, comes with lifting lug provisions
	70206N-LBASE	AirHook Lite LARGE lower base for the 70206N, comes with lifting lug provisions

Required Accessories

Karibiner

	BNS20TA	Triple Action Stainless Steel Oval Karabiner 20kN (4,496 lbs)
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Type 2 SRL (Choose 1)

	HWPS-9TA * Other lengths available	IKAR SRL 9.0m (29.52 ft) Steel rope (plastic housing)
	HAS-9TA * Other lengths available	IKAR SRL 9.0m (29.52 ft) Steel rope (aluminium housing) with self rescue

Optional Accessories

Lifting Lugs (4x per base - 8x total)

	BTSL015	BTECH-ALLOY 360° Swivel Lifting Point - M16 - W.L.L 1.5t (3307 lbs)
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5t Pallet Jack (Order 2x to move both bases simultaneously if using the B-Rail assembly)

	342605S	BTS Custom 5t Pallet Jack
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10m B-Rail assembly (Requires 2x 70206N + 1x BTS7584-10-70206)

	BTS7584-10-70206	10m B-Rail assembly for AirHook Lite system with 2x Trolleys
	70206N	AirHook Lite Standard setup for SRL and B-Rail use

Harness * Other harness options are available

	BTH1200CS	Full body harness with front & rear fall attachment points and confined space retrieval loops.
	BTH4100	Full body harness with front and rear fall attachment points, confined space loops, side Dee's for work positioning.

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System



70206N-RESCUE - AirHook Lite set-up for use with Type 3 Rescue Winch

Standard parts that come with 70206N-RESCUE

	70206N-MAST-RESC	AirHook Lite Davit for the 70206N-RESCUE suitable for use with Type 3 HRA rescue winch.
	70206N-SBASE	AirHook Lite SMALL upper base for the 70206N, comes with lifting lug provisions
	70206N-LBASE	AirHook Lite LARGE lower base for the 70206N, comes with lifting lug provisions

Required Accessories

Type 3 SRL with rescue winch (Choose 1)

	HRA-18TA	IKAR Inertia Reel and Recovery Winch 18m (59 ft)
	HRA-24TA	IKAR Inertia Reel and Recovery Winch 24m (78 ft)

* Other lengths available

Optional Accessories

Lifting Lugs (4x per base - 8x total)

	BTSL015	BTECH-ALLOY 360° Swivel Lifting Point - M16 - W.L.L 1.5t (3307 lbs)
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5t Pallet Jack

	342605S	BTS Custom 5t Pallet Jack
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Harness * Other harness options are available

	BTH1200CS	Full body harness with front & rear fall attachment points and confined space retrieval loops.
	BTH4100	Full body harness with front and rear fall attachment points, confined space loops, side Dee's for work positioning.

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System



DUAL AIRHOOK LITE B-RAIL ASSEMBLY

AirHook Lite Code: 70206N

Rail Code: BTS7584-10-70206

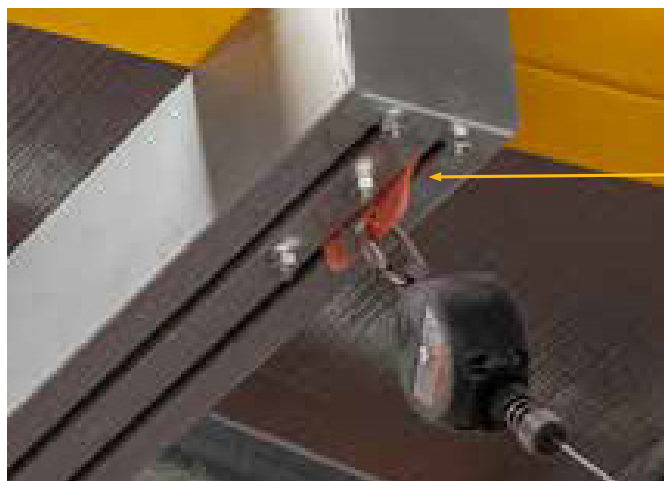


B-Rail enclosed rigid rail provides the user with unprecedented ease of movement when working below and allowing for undivided concentration on the task at hand.

- Continuous twin track can have a span of 10m (32.8 ft) for up to 2 persons per span for the DUAL AirHook Lite B-Rail Assembly.
- Enclosed designed track mitigates the build-up of dust and debris including bird droppings on track.
- Optional support fittings for different applications.
- End stops prevent the trolley from coming off the end of the system.
- The B-Rail ball bearing trolley system allows the user to connect to the rigid rail for uninterrupted smooth travel over the entire work area.
- The B-Rail trolley is manufactured in steel with hard wearing Acetal wheels on sealed ball bearings resulting in minimal wear.
- Available in custom lengths. Max. 10m (32.8 ft).

BTS AIRHOOK LITE

Mobile Fall Arrest with Overhead Anchor Point System



Four Wheel Trolley
Code: B70275S



B-RAIL SPECIFICATIONS

System Capacity - AirHook Lite:	Two workers weighing a max. weight of 140kg (310 lbs) each including all clothing, tools, & equipment.
Arrest Force Rating for SRL:	6kN (1,350 lbs) MAX
Weight (10m assembled rail only):	150kg (331 lbs)
Weight (trolley):	0.9kg (1.98 lbs) each
Rail Construction:	Extruded 6061-T6 Aluminium
Brackets:	Galvanized / Zinc-Plated Steel / Powder Coated Steel
Trolley Wheels:	Acetal with Sealed Ball Bearings
Hardware (minimum):	Grade 4.8 Zinc-Plated
Finish (aluminium):	Anodized
Max. Standard Length:	10m (32.8 ft)

BTECH-ALLOY® 360° Swivel Lifting Points

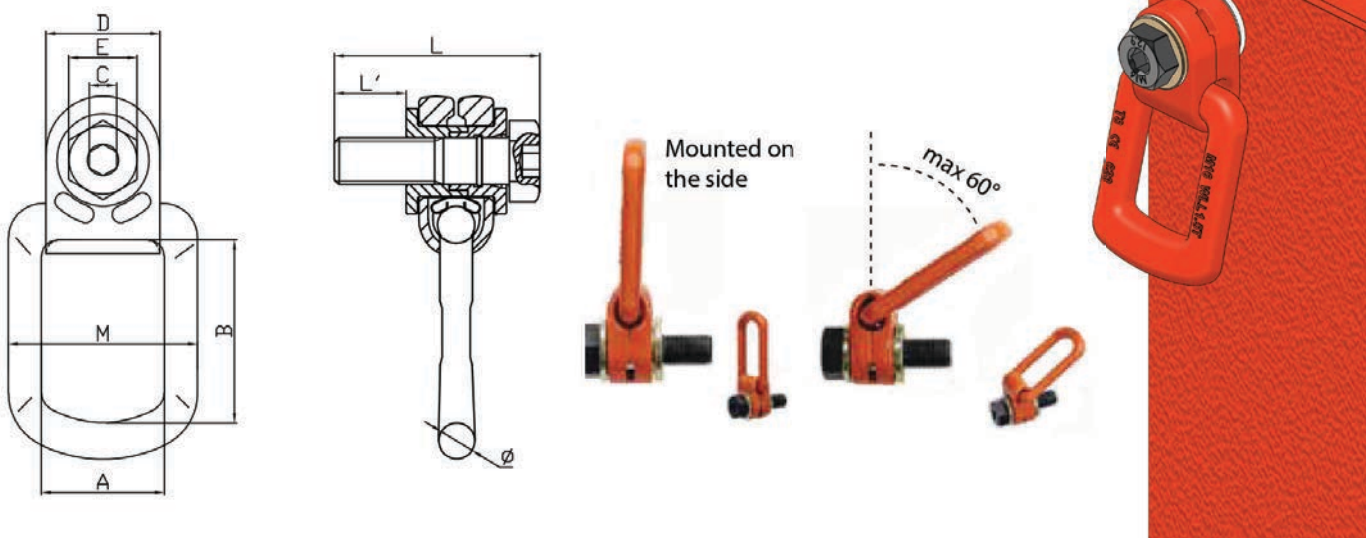
CODE: BTSL015

The AirHook Lite incorporates additional integrated lifting lug mounting provisions. These engineered lifting points are designed to maintain stability during handling operations.

BTECH-ALLOY 360° Swivel Lifting Points are a high strength steel bolt on attachment point, suitable for use in Lifting and Lashing applications. The heavy duty hoist ring swivel 360 degrees and pivots 180 degrees. Swivelling under full load is permissible provided the inclination angle is not perpendicular to the screw-in direction. The lifting point is suitable for permanent swivelling under full load. The hoist ring will turn 360°, adjustable to the direction of the pull.

- Forged super alloy steel - Quenched and Tempered.
- Marked with WLL in tonne, nominal size in mm, quality mark and BTECH branding.
- Bolts are metric thread grade 12.9 alloy socket head screw.
- Proof tested to 2 x working load limit.
- 4:1 design factor.
- Break test.
- 100% Magnaflux crack detection.
- Durable surface finish - Orange powder coated surface.
- Test certificates supplied.
- 360° swivel with 180° pivot function.

BTECH-ALLOY



Code	Thread Pitch	Working load limit (t)	Torque settings (N.m)	A ± 1 mm	B ± 1 mm	C mm	D mm	E mm	M ± 1.5 mm	L ± 1.5 mm	L' ± 1.5 mm	Ø ± 0.5 mm	Weight (kg)
BTSL015	M16 x 2.0	1.5	20-30	40	54	8	36	19	68	70	24	18	0.74

BTS AIRHOOK LITE

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BTS CUSTOM 5t PALLET JACK designed for AirHook Lite

CODE: 342605S



Counterweighted base with integrated pallet jack and forklift tine pockets for ease of mobility with special built BTS 5t Pallet Jack.

PALLET JACK SPECIFICATIONS

Capacity	5000kg (11,023 lbs)
Weight	117kg (258 lbs)
Maximum fork height	200mm (7.9in)
Minimum fork height	90mm (3.5in)
Fork length	1200mm (47.2in)
Overall width of forks	550mm (21.7in)
Individual fork width	180mm (7.1in)
Load wheel diameter	Ø 80mm x 65mm (Ø 3.1in x 2.6in) Steel
Steering wheel diameter	Ø 180mm x 50mm (Ø 7.1in x 2.0in) Steel

SYSTEM TRANSPORT and POSITIONING

The BTS AirHook Lite is intended to be moved using appropriately rated fork lift at a speed not exceeding 5 km/h (3 mph). It can also be moved on a flat level surface, within a warehouse or work station using a BTS Custom 5t Pallet Jack.

- The system **MUST** be fully lowered for transport and **MUST** be locked in position when in use, being transported or for storage.
- The road surface needs to be either concrete, asphalt or a suitably compacted surface free from undulations, large changes in surface heights and corrugations.
- Speed needs to be reduced if road surface is not smooth. (When moving the unit, ensure that the SRL is secured using a tag line.)
- Please ensure there are no overhead obstructions prior to moving and be aware of the location of all overhead power lines, pipes and cables.
- For long distance or high speed transport the system must be disassembled and moved by truck or other means.
- If system is exposed to winds of 80km/h (50 mph) or more, the structure **MUST** be removed from service and fully lowered.

