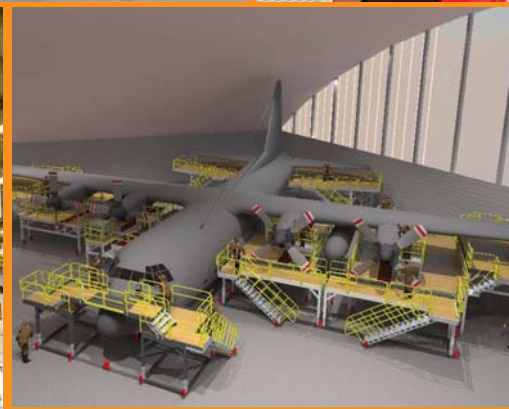




BEAVER TECHNOLOGY SERVICES
Pty Limited

CATALOGUE

2020



FS603922

ENGINEERED HEIGHT SAFETY SOLUTIONS



INTRODUCTION



Beaver Technology Services (BTS) have been providing Australian and International companies with practical innovative product solutions for Industrial Fall Protection applications including working at heights and in confined spaces.

With a strong focus on product innovation, we are able to provide working at heights solutions across multiple industries.

All our products are manufactured to meet world standards and are backed by our internationally accredited ISO9001 Quality Management System, NATA laboratory and BSI certification.

Every work environment is unique in its own way and with our comprehensive product selection, we are able to meet the requirements even for the most challenging work environments.

On the occasion where a client is seeking a customised engineered product solution, our in-house design, engineering and fabrication team are ready to create a product solution in-line with the client's brief. From concept to completion, it all starts with a site specific consultation and moves all the way through from design to engineering, manufacturing, installation and training.

BTS prides itself on paramount customer service.

With over 60 years of combined experience our designers, engineers, installers, trainers and sales people are fall protection industry elite throughout Australia. We are knowledgeable, dependable and professional

Brands we represent:



EMPOWERED BY INNOVATION

The team at BTS believes that creating a culture of innovation requires a continuous balancing act between focused attention and a questioning mind. Achieving this requires creating and capturing opportunities in new ways by improving on existing products, processes and services.

It is the goal of every BTS team member to create lasting relationships with our clients. At BTS we take a hands-on pragmatic approach to develop winning products that accommodates each client's unique and evolving requirements. By working closely with our clients we challenge every aspect of every detail, ensuring that our clients are provided with the right solution, that delivers a lasting return on investment.



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FULL BODY HARNESS



ENTRYFIT - BTH1100

BTECH® ENTRYFIT HARNESS

BTH1100 – Full body harness c/w front and rear attachment points.



PURPOSE:

- The Entry Fit Harness is one of the most versatile, comfortable and cost effective harnesses on the market today. The upper section of the harness is constructed with bright Orange webbing for good visibility in daylight; it can be fitted with an RFID tag for smart tracking.
- Fall Arrest - Use in conjunction with an energy absorbing lanyard or inertia reel device (SRL) attached to the front loops or rear Dee ring.
- Restraint Technique - Use in conjunction with an adjustable energy absorbing lanyard to rear Dee ring or front loops to limit access to fall situations.
- Recovery & Rescue - Front loops are rated for fall arrest. Rescue and recovery can be done on the rear "D".

PRODUCT FEATURES

- Lightweight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest attachment points as standard.
- Adjustable leg, chest & shoulder straps.
- Quick connect buckles on chest strap and legs
- Rear Dee and front fall arrest rated loops.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.
- Optional Trauma straps.
- Optional RFID tag for smart tracking.



FULL BODY HARNESS



HOTWORK - BTH1000K

BTECH® HOTWORK HARNESS

BTH1000K – Hot Work Manufactured with Nomex and Kevlar fibres to provide to provide excellent results for thermal protection, material strength and durability.



NOMEX / KEVLAR

PURPOSE:

- Manufactured with both Nomex and Kevlar cordage and stitching makes the Hotwork harness ideal for work environments where there is a presence of high heat, sparks or welding splatter.
- Fall Arrest - Use in conjunction with our Nomex / Kevlar lanyard attached to the front loops or rear Dee ring.
- Restraint Technique - Use in conjunction with an adjustable energy absorbing lanyard to rear Dee ring or front loops to limit access to fall situations.
- Recovery & Rescue - Front loops are rated for fall arrest. Rescue and recovery can be done on the rear "D".

PRODUCT FEATURES

- Lightweight, colour fast Nomex webbing with inner Kevlar cordage.
- Front and rear fall-arrest attachment points.
- Adjustable leg, chest & shoulder straps.
- Quick connect buckles on chest strap and legs.
- Rear Dee and front fall arrest rated loops.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.
- RFID tag for smart tracking.
- Optional Trauma straps.

Note:

Chlorine bleach or chlorine generating chemicals should not be used with Kevlar®.



FULL BODY HARNESS



Premium Harness - SAFTEYFIT - BTH4100

BTECH® SAFTEYFIT PREMIUM HARNESS

BTH4100 – Full body harness c/w front and rear fall attachment points, confined space loops, side Dee's for work positioning.



PURPOSE:

- The BTH4100 is a multipurpose work positioning confined space and fall arrest harness that is suitable for a wide variety of applications.
- Fall Arrest - Use in conjunction with an energy absorbing lanyard or inertia reel device attached to the front loops, rear extension or rear Dee ring.
- Restraint Technique - Use in conjunction with an adjustable energy absorbing lanyard connected to the rear Dee ring, rear extension strap and front loops for access to fall situations.
- Recovery & Rescue - using both front loops connected together, rear "D" and confined space loops.
- Confined Spaces - rescue and recovery, entry and egress.
- Work positioning - via side Dee's using a pole strap.

PRODUCT FEATURES

- Lightweight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest rated attachment points.
- Fully adjustable leg, shoulder, waist and chest straps.
- Quick connect forged buckles on legs, chest strap & waist belt.
- Adjustable waist belt with work positioning side Dee rings, to be used in conjunction with a pole strap.
- Confined space shoulder loops for rescue and recovery including access and egress using spreader bar and bosons chair.
- Wide padded waist, shoulders and leg straps (for comfort).
- Tool loops fitted on the waist belt for storing excess hardware and gear.
- Trauma straps fitted as standard.
- RFID tag for smart tracking.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.



FULL BODY HARNESS



Premium Harness - COMFORTFIT - BTH8100

BTECH® COMFORTFIT HARNESS

BTH8100 – Full body cross-over harness c/w front and rear arrest attachment points and designed for a multitude of applications. The upper front Dee is rated for fall arrest, lower front Dee for limited free fall / work positioning and side Dee's for work positioning.



PURPOSE:

- The BTH8100 is a multi-purpose cross-over work positioning and fall arrest harness that is suitable for a wide variety of purposes. It has an excellent mix of balance and comfort when suspended; whilst still allowing freedom of movement.
- Fall Arrest - Use in conjunction with an energy absorbing lanyard or inertia reel device attached to the front loops or rear Dee ring.
- Restraint Technique - Use in conjunction with an adjustable energy absorbing lanyard connected to the rear Dee ring, rear extension strap and front Dee's to limit access to fall situations.
- Recovery & Rescue - using either of the front Dee's or the rear Dee as a connection point.
- Work positioning - via side Dee's using a pole strap, upper front dee rated for fall arrest and lower front Dee for limited free fall / work positioning.

PRODUCT FEATURES

- Lightweight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest attachment points.
- Adjustable leg straps, shoulder straps and waist belt.
- Quick connect buckles on legs & waist belt.
- Pole strap attachment points.
- Limited free fall attachment point.
- Wide padded waist, shoulders and leg straps (for comfort when suspended for long periods of time for work positioning).
- Tool loops fitted on the waist belt for storing excess hardware and gear.
- Elasticised leg risers.
- RFID tag for smart tracking.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.



LANYARDS & ACCESSORIES



Lanyards & Trauma Straps

BTECH® LANYARD

BTL1772 – Lanyard (2m)

Energy absorbing webbing lanyard 2m c/w double action snap hooks each end featuring built-in anti roll out protection. Fitted with RFID tags to make inspection tracking easy. Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.



BTL1772K – Lanyard Nomex / Kevlar (2m)

Nomex / Kevlar energy absorbing webbing lanyard 2m c/w double action snap hooks each end featuring built-in anti roll out protection. Fitted with RFID tags to make inspection tracking easy. Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.



BTECH® TRAUMA STRAPS

BTA0001 – Trauma straps (Pair)

Aids in preventing the onset of suspension intolerance (trauma) in fall arrest conditions.



ROOFERS KIT

BTECH® ENTRYFIT Roofers Kit - BTR1100

BTECH® ENTRYFIT ROOFERS KIT

BTR1100 – The BTECH Roofers Kit is designed to provide a practical solution for working at heights on roofs and is ideal for domestic and commercial roofing applications. All components of the Roofers Kit is stored within a heavy duty backpack allowing for ease of storage and transport.

Complies to AS/NZS 1891.1.2007



PRODUCT FEAT

- Lightweight, comfortable and durable Harness, suitable for the harsh Australian work environment.
- Front and rear fall arrest attachment points.
- Energy absorber in the event of a fall prevents load exceeding 16kN
- A hard wearing 12mm kermantle rope fitted with a type1 manual rope grab, affording safe movement over the roof area.
- Round sling / Attachment strap to be used as a temporary anchorage connection. Suitable for one operator fall arrest.
- Packed within a rugged backpack / carry bag to protect against soiling and for ease of transportation.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark.

KIT CONTAINS

Code	Quantity	Description
BTH1100	1	BTECH ENTRYFIT Harness
BTL1772	1	2m Energy absorbing Lanyard.
BR210015	1	15m x 12mm Kermantle rope with triple action hook one end and manual rope grab.
BRS1000X1.5	1	1t x 1.5m round sling / Attachment strap.
BNA25TO	2	2 x Triple action aluminium alloy oval karabiners.
BSG246RWK	1	BTECH Backpack / Kit Bag



MOBILE PLANT SAFETY LINE KIT



BTECH® Mobile Plant Safety Line Kit

BTECH® MOBILE PLANT SAFETY LINE KIT

BTSHELLKIT – The BTECH Mobile Plant Safety Kit provides a solution for working at heights activities on fixed & mobile plant equipment. The kit is an ideal solution for workers needing to access the top of equipment to undertake maintenance or inspection work. For ease of storage and transport from site to site the components come in a heavy duty bag. The Mobile Plant Safety Line Kit can be setup by one worker in a few minutes.

Complies to AS/NZS 1891.1.2007



PRODUCT FEATURES

- Fall protection for one worker.
- Lightweight harness.
- Worker has option of using a twin tail inertia reel or adjustable single leg rope lanyard for optimal set up of fall protection.
- Packed into a rugged backpack / carry bag to protect against soiling and for ease of transportation.
- Manufactured to AS/NZS1891.1-2007 and 3rd party certified by Global Mark



KIT CONTAINS

Code	Quantity	Description
BTH1100	1	BTECH ENTRYFIT Harness
BTL1552-ADJ	1	2m Single leg rope Lanyard.
BR210015	1	15m x 12mm Kermantle rope with triple action hook one end and manual rope grab.
BNA035TR	2	Triple Action Karabiner
BNS50TE	3	Large Triple Action Karabiner
HWDB-2	1	IKAR Inertia Reel
BTSG011	3	Fibre Rope Grabs
BRS2000x1	2	2000kg x 1m Round Sling
BSG246RWK	1	BTECH Backpack / Kit Bag



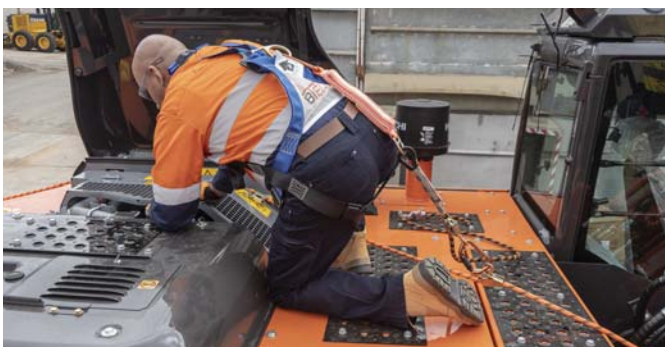
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Global-Mark.com.au®
ID Number: 101580



HARDWARE ACCESSORIES

Karabiners

KARABINERS

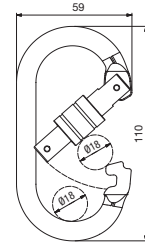
All BTS Karabiners are manufactured to the highest quality using corrosive resistant materials for safe and reliable service. Each is designed with safety double or triple action mechanism.

BSK0001



Screw Gate Oval Karabiner

Part No.:	BSK0001
Ultimate Strength:	23kN
Standard:	CE1019
Karabiner Opening:	18mm
Material:	Alloy Steel
Finish:	Nickel chrome plated body with orange gate screw

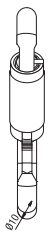
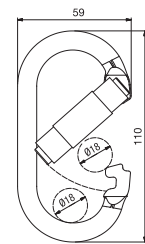


BNS20TA



Triple Action Stainless Steel Oval Karabiner

Part No.:	BNS20TA
Ultimate Strength:	20kN
Standard:	CE1019
Karabiner Opening:	18mm
Material:	Stainless Steel
Finish:	Natural polished

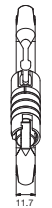
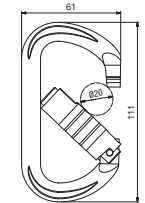


BNA25TO



Triple Action Aluminium Alloy Oval Karabiner

Part No.:	BNA25TO
Ultimate Strength:	25kN
Karabiner Opening:	20mm
Material:	Aluminium Alloy
Finish:	Orange body and black gate

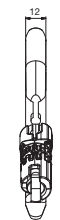
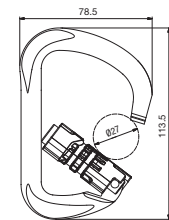


BNS50TE



Triple Action Large Square Gate Karabiner

Part No.:	BNS50TE
Ultimate Strength:	50kN
Standard:	EN362
Karabiner Opening:	27mm
Material:	Alloy Steel
Finish:	Orange body and black gate



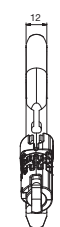
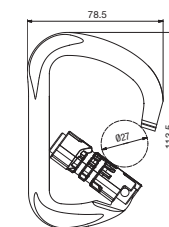
NOTE: Large gate mechanism for ease of operation with gloves.

BNSS22TE



Double Action Stainless Steel Large Square Gate Karabiner

Part No.:	BNSS22TE
Ultimate Strength:	22kN
Standard:	EN362
Karabiner Opening:	27mm
Material:	Stainless Steel
Finish:	Natural polished



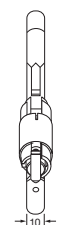
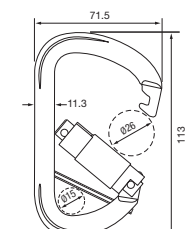
NOTE: Large gate mechanism for ease of operation with gloves.

BNA035TR



Triple Action Karabiner with Retaining Pin

Part No.:	BNA035TR
Ultimate Strength:	35kN
Standard:	EN362
Karabiner Opening:	26mm
Material:	Alloy Steel
Finish:	Orange body and black gate



HARDWARE ACCESSORIES



Safety Hooks & Swivel Connectors

SAFETY HOOKS & SWIVEL CONNECTORS

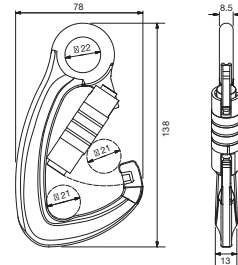
All BTS Safety Hooks are manufactured to the highest quality using corrosive resistant materials for safe and reliable service.

BNIK728



Triple Action Karabiner Safety Hook

Part No.:	BNIK728
Ultimate Strength:	28kN
Standard:	EN362/T & CE 0321
Hook Opening:	21mm
Material:	Aluminium Alloy
Finish:	Orange body and black gate

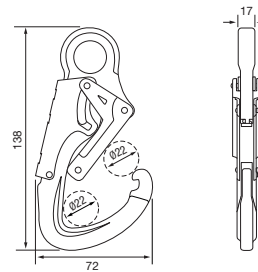


BNK020DK



Double Action Karabiner Safety Hook

Part No.:	BNK020DK
Ultimate Strength:	20kN
Standard:	EN362/T & CE 0158
Hook Opening:	22mm
Material:	Aluminium Alloy
Finish:	Orange body and black latch

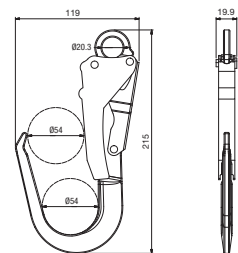


BTS0008

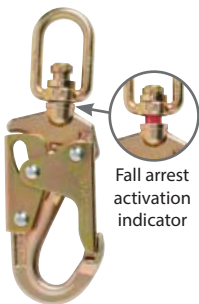


Double Action Safety Scaffold Hook

Part No.:	BTS0008
Ultimate Strength:	25kN
Standard:	CE1019
Hook Opening:	54mm
Material:	Alloy steel
Finish:	Nickel chrome plated body and orange safety latch



BYIH015

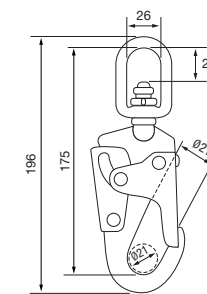


Fall arrest activation indicator

Double Action Swivel Safety Hook c/w Fall Arrest Indicator

Part No.:	BYIH015
Ultimate Strength:	22kN
Standard:	EN362
Hook Opening:	21mm
Material:	Alloy Steel
Finish:	Zinc dichromate (gold finish)

NOTE: Red indicator will be displayed indicating that the hook has been exposed to a fall arrest situation

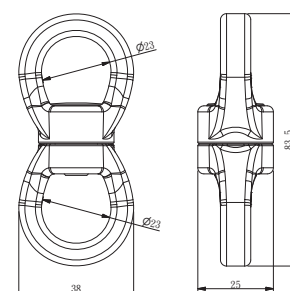


BTAES035



Eye & Eye Bearing Swivel Connector

Part No.:	BTAES035
Ultimate Strength:	35kN
Standard:	EN354:2011 EN365:2005
Opening:	23mm
Material:	Aluminium Alloy
Finish:	Anodized Black & Orange



CONFINED SPACE

Davits Overview

DAVITS OVERVIEW

The PRO Series Davits are available in a wide variety of heights and offset reaches to suit numerous confined space, fall arrest and rescue applications. Many of the PRO Series Davits have the ability to rotate a full 360 degrees in either a portable or fixed base making ease of access and egress out of work environments stress-free. PRO Series Davits are ideal equipment for applications in various work environments. PRO Series Davits are modular in construction therefore making individual components exceptionally lightweight and easy to transport and assemble. All PRO Series Davits feature the "BTS-Klick" pin-less technology adjustment eliminating the possibility of lost or damaged locking pins.



CONFINED SPACE



PRO-1 Davits

PRO-1 DAVITS



60202UA



60202UF



60202UI



60201B



60101

HRA-12TA /
HRA-18TA /
HRA-24TA



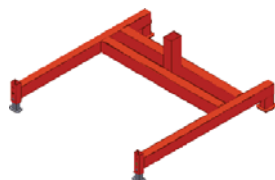
60002



40003B



30067



30017



30098



30017

PRODUCT FEATURES

- PRO-1 Series Davits fold up for ease of transport and storage.
- Modular in design.
- No tools required for set up.
- Light weight.
- BTS-Klick pin-less technology adjustment.
- Provision for mounting Recovery winch and SRL.
- Optional U-Hook anchor point.
- Compatible with different PRO-1 bases to suit individual job requirements.
- **Manufactured & Tested to AS/NZS5532-2013**



Specifications

Capacity:	Maximum 1 worker (Total 136 kg)*
Allowable MAF:	4 kN Rating for SRL's
Connectors	BTS-Klick pin-less connectors

* Capacities quoted when used in conjunction with a man rated winch

PRO-1 DAVITS			
Model Description	Reach (m)	Height (m)	Part No.
PRO-1 Davit for Top Mount Winch	0.48	1.84	30015
PRO-1 Plus Davit for Front & Rear Mount Winch	0.48	1.47	30016

PRO-3G DAVITS ACCESSORIES	
Model Description	Part No.
Quick Release Double Sided Universal Male Interface Bracket	60202UA
Quick Release Female Single Universal Interface Bracket with Pin	60202UF
IKAR Davit Bracket c/w Female Single Interface Brackets	60202UI
Davit Winch Bracket Interface c/w IKAR Mounting Bracket	60201B
Aluminium & Steel Winch Bracket Assembly c/w BTS Click Interface	60101
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m	See page 34
IKAR Inertia Reel and Recovery Winch 12, 18 or 24 metre	HRA-12TA, HRA-18TA HRA-24TA
BTECH Storage/Carry Bag	40003B

DAVIT BASES	
Description	Part No.
PRO-1 Portable Base	30067
PRO-1 Guardrail Base with Bar Gate	30017
PRO-1 Guardrail Base with Chain Gate	30098

PRO-1 Series Davit Bases are designed to be compact and lightweight.

CONFINED SPACE



PRO-2 Davits

PRO-2G DAVITS



50015



HRA-12TA /
HRA-18TA /
HRA-24TA



60174



60202UG



60202UI



60002



60202UF



40003B

The BTS PRO-2G Davit is a portable davit arm that can be used with a Self Retracting Lifeline (SRL) to provide fall protection. Can also be used as an abseil (rope access) diversion anchor. Height 2.10m and an offset reach of 1.20m.

PRODUCT FEATURES

- Rotates full 360 degrees.
- Man & Material Rated to 136Kg
- Offset reach 1.20m
- Compatible with permanent davit bases. (See pg. 22)
- Stand-by person anchor point via winch interface bracket
- Manufactured & Tested & Complies to AS/NZS5532-2013**



Specifications

Ultimate Strength Rating:	18kN
Capacity: Maximum number of users:	1 person no more than 136kg
Allowable MAF Rating for SRL's:	4kN

PRO-2G DAVITS

Model Description	Reach (m)	Height (m)	Part No.
Analogue Series Davit c/w Winch Interface Bracket Assembly	1.20	2.10	50015

PRO-2G DAVITS ACCESSORIES

Model Description	Part No.
Winch Interface Bracket c/w Pins & lanyard for Analogue Davit	60174
Quick Release Universal Male Single Interface Bracket	60202UG
IKAR Rescue winch Bracket c/w Female Single Interface Brackets	60202UI
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m wire rope	See page 34
IKAR Inertia Reel and Recovery Winch 12, 18 or 24 metre	HRA-12TA, HRA-18TA, HRA-24TA
Quick Release Female Single Universal Interface Bracket with Pin	60202UF
BTECH Storage/Carry Bag	40003B

DAVIT BASES

Description	Part No.
PRO-2 & 3 Series Hitch Mount Base	30093
PRO-2 & 3 Series Plus Hitch Mount Base	30071
PRO-2 & 3 Series Counterweight Base	30073
PRO-2 & 3 Series I-Beam Clamp-On Sleeve	30165
PRO-2 & 3 Series Barrel Mount Base Adjustable Throat	30029
PRO-2 & 3 Series Barrel Mount Base Adjustable Throat	30166R
PRO-2 & 3 Series Sheet Piling Mount Base Adjustable Throat	30168S

The PRO-2 & 3 Series Portable Bases are for rugged and demanding applications using external weight sources to anchor the davit down. Applicable PRO-2 & 3 Series Portable Davit Bases feature the "BTS-Klick" pin-less technology adjustment eliminating the possibility of lost or damaged locking pins.



30093



30071



30073



30165



30029



30166R



30168S

CONFINED SPACE



PRO-3G Davits

PRO-3G DAVITS



30106

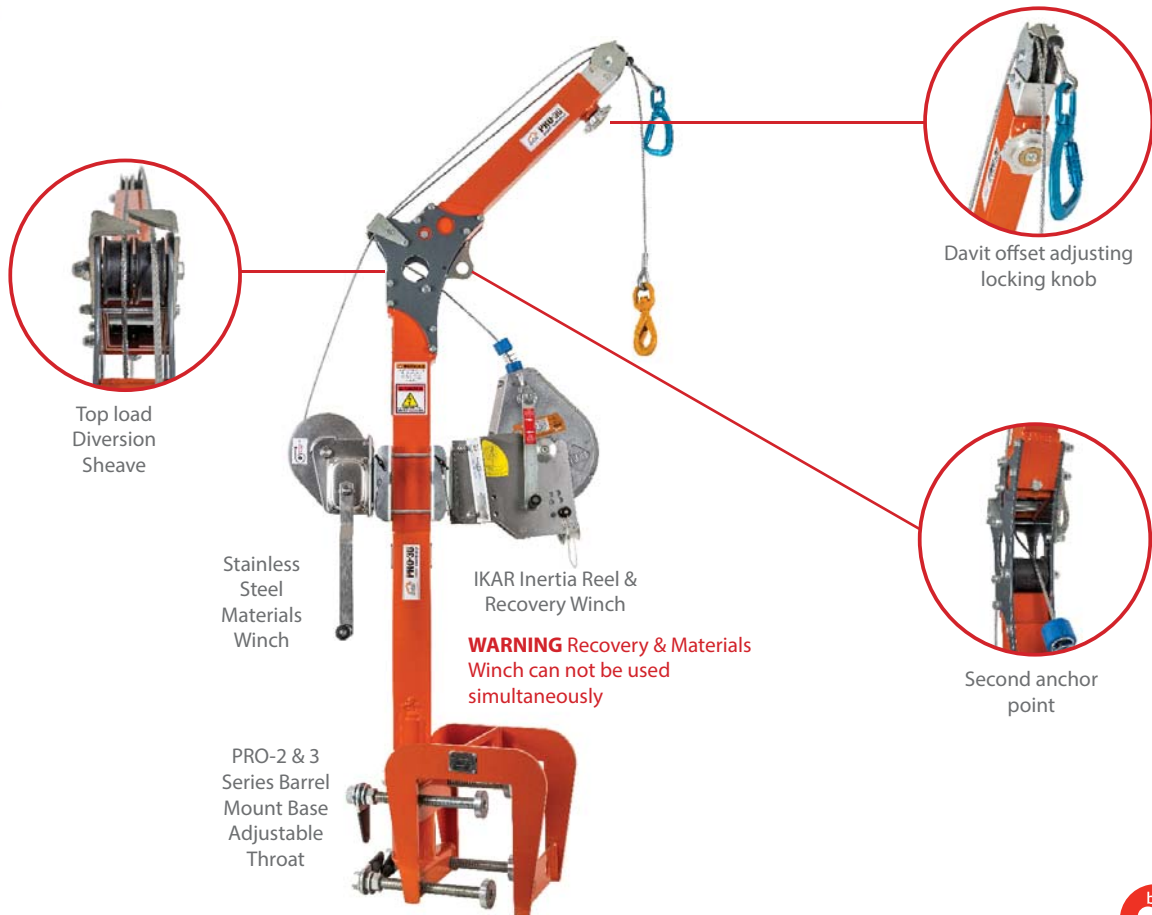
PRODUCT FEATURES

- Lightweight material graded 6061-T6 Aluminum
- Powder-coated Safety Orange to increase visibility around a workplace
- Modular in construction with no one component heavier than 10kg
- Easy to store and can be transported by 1-person
- Built in fall and davit overload indicator
- Multi-offset mast with a variable reach from 0.5mtrs to 0.7mtrs
- No special tools required for assembly or disassembly
- Can be set-up for use with both man-rated and material-rated applications to a max WLL of 140kg - (Material Rating Only)
- Available with optional mast extender to increase overall height of offset anchor point by additional 600mm
- Suits both fixed and portable davit bases with a mast rotation of 360degrees
- Rated secondary anchor point on vertical mast for connection by the winch operator or stand-by person
- Quick release winch interface brackets to suit all BTS winches and other reputable winch brands in the market
- Complies with product design, manufacturing and testing requirements of **AS/NZS1891.4, AS/NZS 5532-2013 & CE EN795**

Specifications

Ultimate Strength Rating:	18kN
Capacity (Rescue):	Max. 1 workers weighing not more than 136 kg each.*
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 136 kg.*
Allowable MAF Rating for SRL's:	4 kN

* Capacities quoted when used in conjunction with a man rated winch



Top load Diversion Sheave

Stainless Steel Materials Winch

PRO-2 & 3 Series Barrel Mount Base Adjustable Throat

IKAR Inertia Reel & Recovery Winch

WARNING Recovery & Materials Winch can not be used simultaneously

Davit offset adjusting locking knob

Second anchor point

Typical Set-up



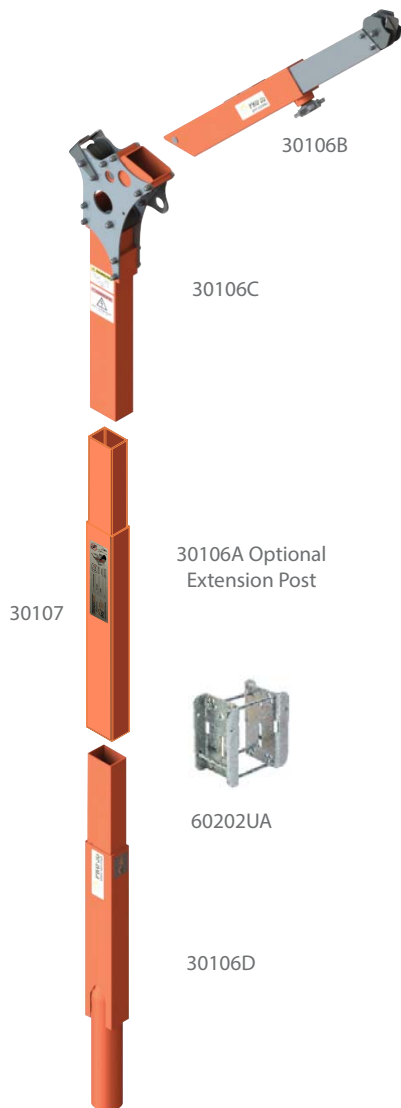
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CONFINED SPACE

PRO-3G Davits Accessories

PRO-3G DAVIT ACCESSORIES



PRO-3G DAVITS			
Model Description	Reach (m)	Height (m)	Part No.
PRO-3G Davit - 2.2m 3 piece c/w Quick Release Double Sided Universal Male Interface Bracket	0.5 - 0.7	1.9 - 2.2	30106
PRO-3G Davit - 2.2m 4 piece c/w 600mm Extension Post & Quick Release Double Sided Universal Male Interface Bracket	0.5 - 0.7	2.5 - 2.8	30107
PRO-3G Davit - 2.2m 2 piece c/w Quick Release Double Sided Universal Male Interface Bracket	0.5 - 0.7	1.9 - 2.8	30108

PRO-3G DAVITS SPARE PARTS	
Model Description	Part No.
PRO-3G Davit - Section Boom	30106B
PRO-3G Davit - Section Elbow	30106C
PRO-3G Davit - Section Mast	30106D
Quick Release Double Sided Universal Male Interface Bracket	60202UA
PRO-3G Plus - 600mm Extension Post Only	30106A

PRO-3G DAVITS ACCESSORIES	
Model Description	Part No.
Female Single Pro-3G Uni Interface Davit Winch Bracket	60202UF
IKAR PRO-3G Davit Bracket c/w Female Single Interface Brackets	60202UI
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m wire rope	See page 34
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm HDG W/R with G80 Swivel S/L HK	SSJC-C820
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm S/S W/R with G100 Swivel S/L HK	SSJC-C820S
IKAR Recovery Winch 12, 18 or 24 metre	HRA-12TA, HRA-18TA HRA-24TA
Aluminium Equipment Storage Box for PRO-3G Davit 30106	30206
Aluminium Equipment Storage Box for PRO-3G Davit 30107 & 30108	30207
BTECH Storage/Carry Bag	40003B





CONFINED SPACE

PRO-3G Davits Bases

PRO-3G DAVIT BASES



PORTABLE DAVIT BASES	
Description	Part No.
PRO-3 Portable Base	30070
PRO-3 Portable Heavy Duty Base	30115
PRO-3 Bolt-On Flange Base	30181
PRO-3 External Tank Collar Base	30189
PRO-2 & 3 Series Hitch mount base	30093
PRO-2 & 3 Series Plus Hitch mount base	30071
PRO-2 & 3 Series Counterweight base	30073
PRO-2 & 3 Series I-Beam Clamp-On Sleeve (90mm - 280mm)	30165
PRO-2 & 3 Series Barrel Mount Base Adjustable Throat (30mm - 620mm)	30029
PRO-2 & 3 Series Barrel Mount Base Adjustable Throat (20mm - 205mm)	30166R
PRO-2 & 3 Series Sheet Piling Mount Base Adjustable Throat (0mm - 25mm)	30168S

The PRO-2 & 3 Series Portable Bases are for rugged and demanding applications using external weight sources to anchor the davit down. Applicable PRO-2 & 3 Series Portable Davit Bases feature the "BTS-Klick" pin-less technology adjustment eliminating the possibility of lost or damaged locking pins.

PERMANENT DAVIT BASES		
Description	Material	Part No.
Core Mount Flush Mount	Stainless Steel	BFMDB03SS
Floor Mount	Hot Dip Gal (MS)	BTS0025
Heavy Duty Floor Mount	Stainless Steel	BFMDB01SS
Wall Mount 4 point	Hot Dip Gal (MS)	BTS0024
Wall Mount 4 point	Stainless Steel	BFMDB02SS
Davit Base Cap a cap to prevent build up of water and debris	Stainless Steel	30069



30070



30115



30189



30093



30071



30073



30181



30165



30029



30166R



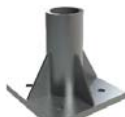
30168S



BFMDB03SS



BTS0025



BFMDB01SS



BTS0024



BFMDB02SS



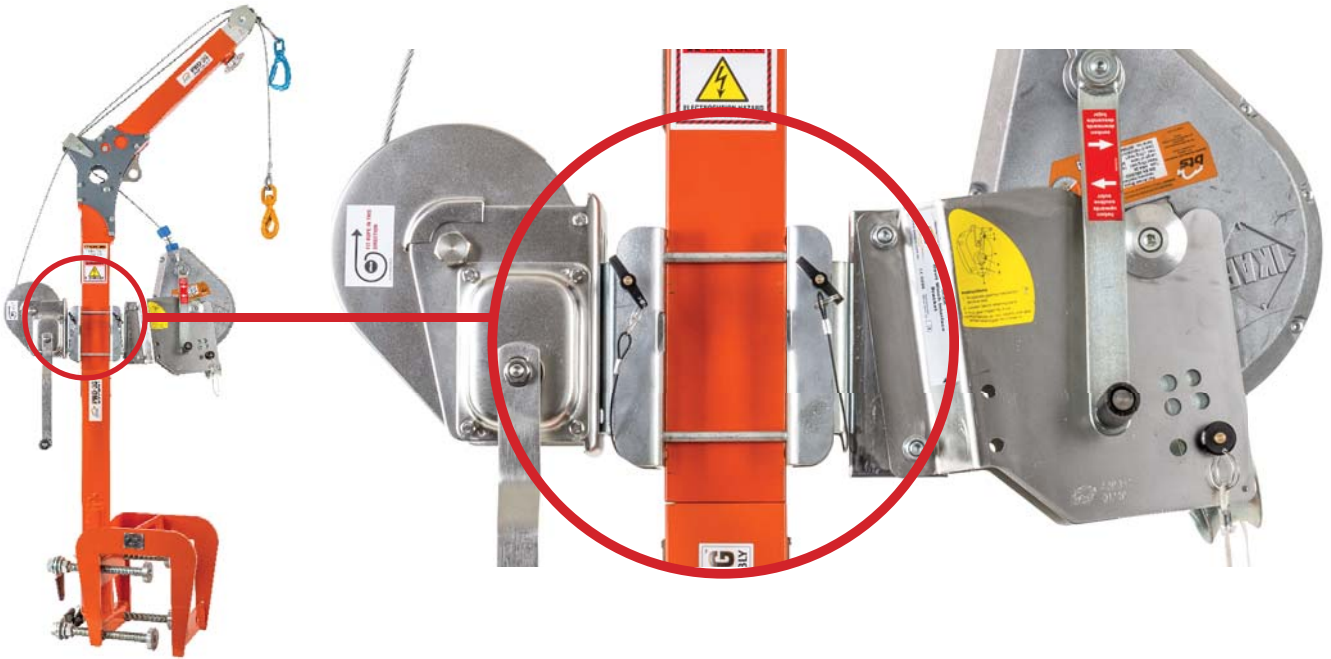
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UNIVERSAL INTERFACE BRACKET

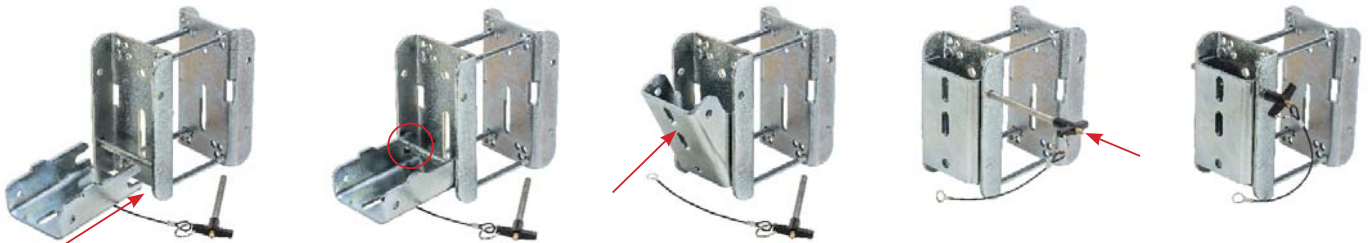


Universal Interface Bracket Assembly

UNIVERSAL INTERFACE BRACKET ASSEMBLY



Typical application



QUICK RELEASE UNIVERSAL BRACKET	
Description	Part No.
Quick Release Double Sided Universal Male Interface Bracket c/w bolts	60202UA
Quick Release single Universal Male Interface Bracket	60202UG
Female Single Universal Interface Davit Winch Bracket c/w locking pin & lanyard	60202UF
IKAR PRO-3G Davit Bracket c/w Female Single Interface Brackets	60202UI



60202UA

60202UG

60202UF

60202UI

The Quick release Universal bracket offers a tool free assembly and remove option on davits and tripods and can be adapted to other structures.



CONFINED SPACE

PRO-4 Davits

PRO-4 DAVITS



50048



60174



60202UG



60202UI

HRA-12TA /
HRA-18TA /
HRA-24TA



60002



60202UF

PRO-4 Series Davits are appropriate for applications where a standard height and range davit is unsuitable. Available with a height up to 2.8m and an offset reach of 2.0m. Ideal for use in rescue recovery and as an abseil diversion davit.

PRODUCT FEATURES

- PRO-4 Series Davits also fold up for ease of transport and storage.
- Multi-adjustable reach & offset - 0.9, 1.2, 1.5, 1.7 & 2.0m
- Rotates full 360 degrees.
- Second anchor point via winch interface bracket
- Internal overload indicator.
- Custom offset and heights available.
- Compatible with permanent davit bases. (See page 23)
- **Manufactured & Tested to AS/NZS5532-2013**

Specifications

Ultimate Strength Rating:	12 kN
Capacity: Maximum number of users:	1
Allowable MAF Rating for SRL's:	4kN

PRO-4 DAVITS			
Model Description	Reach (m)	Height (m)	Part No.
PRO-4 Series Analogue Collapsible Davit	2.0	2.8	50048

PRO-2G DAVITS ACCESSORIES	
Model Description	Part No.
Winch Interface Bracket c/w Pins & Lanyard for Analogue Davit	60174
Quick Release Universal Male Single Interface Bracket	60202UG
IKAR Rescue Winch Bracket c/w Female Single Interface Brackets	60202UI
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m	See page 34
IKAR Inertia Reel & Recovery Winch 12, 18 or 24 metre	HRA-12TA, HRA-18TA, HRA-24TA
Quick Release Female Single Universal Interface Bracket with Pin	60202UF
BTECH Storage/Carry Bag	40003B

DAVIT PERMANENT BASES		
Description	Material	Part No.
Core Mount Flush Mount	Stainless Steel	BFMDB03SS
Floor Mount	Hot Dip Gal (MS)	BTS0025
Heavy Duty Floor Mount	Stainless Steel	BFMDB01SS
Wall Mount 4 point	Hot Dip Gal (MS)	BTS0024
Wall Mount 4 point	Stainless Steel	BFMDB02SS
Davit Base Cap a cap to prevent build up of water and debris	Stainless Steel	30069



BFMDB03SS



BTS0025



BFMDB01SS



BTS0024



BFMDB02SS



30069



CONFINED SPACE

PRO-5 JUMBO Davits

PRO-5 JUMBO DAVITS



The BTECH® Jumbo Davit is designed to fit a 3" Spigot base and is manufactured with high quality aluminium Jib and Mast and steel brackets for optimum performance.

The product has been dynamically and statically tested to AS/NZS5532:2013

PRODUCT FEATURES

- PRO-5 Series JUMBO Davits also fold up for ease of transport and storage.
- Fixed reach & offset.
- Rotates full 360 degrees.
- Internal overload indicator.
- Compatible with permanent davit bases.

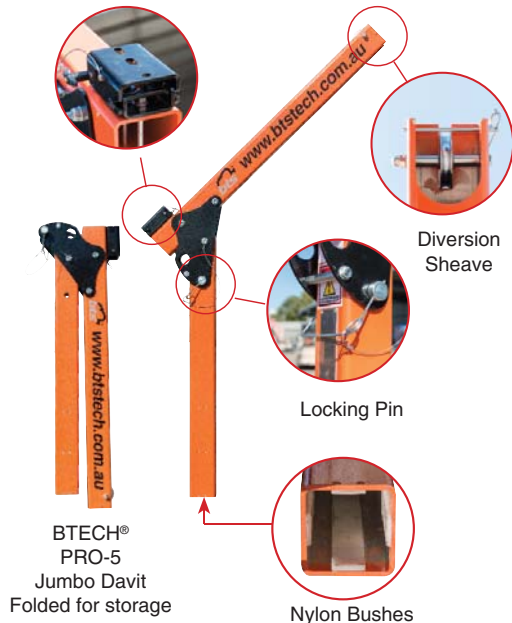
Specifications

Ultimate Strength Rating:	21kN
Capacity (Rescue):	Max. 1 worker weighing not more than 136 kg.
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 136 kg.

PRO-5 JUMBO DAVITS			
Model Description	Reach (m)	Height (m)	Part No.
PRO-5 Series JUMBO Collapsible Davit	0.608	1.827	80018
Mounting Spigot			80010

PRO-5 JUMBO DAVITS ACCESSORIES	
Model Description	Part No.
Female Single Pro-3G Universal Interface Davit Winch Bracket	60202UF
IKAR PRO-3G Davit Bracket c/w Female Single Interface Brackets	60202UI
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m	See page 34
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm HDG W/R with G80 Swivel S/L HK	SSJC-C820
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm S/S W/R with G100 Swivel S/L HK	SSJC-C820S
IKAR Recovery Winch 12, 18 or 24m	HRA-12TA, HRA-18TA HRA-24TA
BTECH Storage/Carry Bag	40003B

Quick Release Universal Male & Female Interface Bracket





CONFINED SPACE

Portable Davit Bases

PRO SERIES PORTABLE DAVIT BASES

The PRO-2 & 3 Series Portable Bases are for rugged and demanding applications using external weight sources to anchor the davit down. Applicable PRO-2 & 3 Series Portable Davit Bases feature the "BTS-Klick" pin-less technology adjustment eliminating the possibility of lost or damaged locking pins.



PRO-2 & 3 Series Hitch mount base (30093)

- The PRO-2 Hitch mount davit base allows the user to connect to their vehicle and use its weight and stability as a counter weight.
- Weight 28kg.



PRO-2 & 3 Series Plus Hitch mount base (30071)

- Independently adjustable support legs.
- Tow hitch counterweight system.
- Weight 24kg.



PRO-2 & 3 Series Counterweight base (30073)

- Independently adjustable support legs.
- External plate counterweight (weights are NOT INCLUDED).
- Extensions are available to position system.
- Trolley counterweight base also available.
- Weight 54kg.

PRO-3 Series portable bases allow for easy set-up and use in multiple locations with no need for permanent installations. All PRO-3 Portable Davit Bases feature the "BTS-Klick" pin-less technology adjustment eliminating the possibility of lost or damaged locking pins.



PRO-3 Portable base (30070)

- Independently adjustable support legs.
- Opening sizes Ø1.35m to Ø1.87m.
- Weight 27kg.



PRO-3 Portable Heavy Duty base (30115)

- Independently adjustable support legs.
- Opening sizes Ø1.45m to Ø3.40m.
- Weight 36kg.



PRO-3 Bolt-On Flange base (30181)

- Independently adjustable support legs.
- Fits Flanges Ø0.32m to Ø3.35m.
- Weight 29kg.



PRO-3 External Tank Collar base (30189)

- Independently adjustable support legs.
- Fits Flanges Ø0.32m to Ø3.35m.
- Grip range 5mm - 83mm.
- Weight 30kg.

PORTABLE I-BEAM & SHORING MOUNT DAVIT BASES



PRO-2 & 3 Series I-Beam Clamp-On sleeve (30165)

- Grip range 90mm - 280mm.
- Weight 30kg.



PRO-2 & 3 Series Shoring Mount base with adjustable throat (30029)

- Grip range 30mm - 620mm.
- Weight 34kg.



PRO-2 & 3 Series Shoring Mount base with adjustable throat (30166R)

- Grip range 20mm - 205mm.
- Electro galvanised and powder coated.
- Weight 25kg.



PRO-2 & 3 Series Sheet Piling Mount base with adjustable throat (30168S)

- Grip range 0mm - 25mm.
- Electro galvanised and powder coated.
- Weight 18kg.



CONFINED SPACE

Permanent Davit Bases

PERMANENT DAVIT BASES

PRO-Series Permanent davit bases are designed for permanent installations at locations where repeated or frequent use is required. Permanent bases are available in a variety of designs, finishes, and material to meet site specific requirements.

Heavy Duty Floor and Wall Mount Bases are intended typically for custom applications where an increased moment load capacity is required. For example larger offsets or multiple system users. Please contact Beaver Technology Services for help in selecting the best base for your application.



	Material		
	Sand blasted (SS)	Hot Dip Gal (MS)	Stainless Steel (SS)
Davit Base Cap BTS can provide you with a cap to prevent build up of water and debris	30069	-	-
Core Mount Flush Mount	-	-	BFMDB03SS
Floor Mount	-	BTS0025	-
Heavy Duty Floor Mount	-	-	BFMDB01SS
Wall Mount 4 point	-	BTS0024	-
Wall Mount 4 point	-	-	BFMDB02SS

Custom Permanent Bases can be designed to meet site specific application requirements. Contact us with your needs.

TEMPORARY FALL ARREST POST

BTS Temporary fall arrest post can be used in conjunction with a permanent davit base to provide a fall arrest anchor for (2) two people or used in multiples as a complete perimeter barricade system.



TEMPORARY FALL ARREST POST			
Description	Effective Length (m)	Ultimate Strength Rating	Part No.
Removable Anchor Post / Bollard	1.1 m	18kN	BPOST18KN



CONFINED SPACE

Tripod

TRIPOD

The BTS Pro-Series 3 stage 3m lightweight aluminium tripod offers workers a practical and user friendly solution for safe means of access & egress including rescue/recovery in vertical confined space applications.



TRIPOD				
Model Description	Maximum Height	Collapsed Height	Weight (Kg)	Part No.
PRO-3, 3m 3 stage	3.02m	1.55m	19.8	300145

PRO-SERIES TRIPOD ACCESSORIES	
Model Description	Part No.
Quick Release Double Sided Universal Male Interface Bracket	60202UA
Female Single Pro-3G Uni Interface Davit Winch Bracket	60202UF
IKAR PRO-3G Davit Bracket c/w Female Single Interface Brackets	60202UI
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m wire rope	<i>See page 34</i>
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm HDG W/R with G80 Swivel S/L Hook	SSJC-C820
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm S/S W/R with G100 Swivel S/L Hook	SSJC-C820S
IKAR Recovery Winch 12, 18 or 24 m	HRA-12TA, HRA-18TA HRA-24TA
Diversion Sheave Block with S/S Karabiner	41-Z20
Spreader Bar	4006

PRODUCT FEATURES

- Individually adjustable telescopic legs with toe spikes, bolt/peg holes and chain holes for added stability.
- BTS-Klick dual action quick release buttons for fast and reliable height adjustment.
- Lightweight aluminium construction.
- Tripod head features integrated pulley wheel allowing for winch wire cable to pass through centre of Tripod.
- Additional rated 3 tie-off points in the Tripod head for attaching additional personal fall protection equipment.
- Powder coated in Hi-Vis Safety Orange for ease of identification in all work areas.
- Compatible for use with other reputable height safety manufacturer's winches.
- Tripod comes complete in canvas storage bag with wheels for ease of storage and transport by one person.
- Minimal set up required - Assembled by one person.
- Manufactured, Tested & Certified to AS/NZS5532-2013**

Weight:	19.8kg
Maximum Height:	3.02m
Minimum Height:	1.55m
Capacity:	2 persons (total weight 280 kgs)
Rated:	12kN per anchor point





CONFINED SPACE

Tripod & Beam Assemblies

TRIPOD & BEAM ASSEMBLY

The PRO-Series Tripod and Beam assembly is ideal for work environments where safe entry and egress is required into larger pits and tunnels where traditional Tripods and Davits do not have adequate offset, reach or positioning.

Safe access and egress in larger pits and tunnels up-to 8m wide can be easily achieved using the PRO-Series Tripod and Beam Assembly. Horizontal beams are available in 1.5m increments and can be effortlessly assembled on site.

Vertical and horizontal movement is controlled by the 2 winches supplied with the kit. The system is rated for 1 person.



TRIPOD & BEAM ASSEMBLY

Part No.	Description
MRTBS3M	2 x 3.0m 3-Stage c/w 1 x 3.0m Horizontal Beam & Traveller

ACCESSORIES / ADDITIONAL COMPONENTS

Part No.	Description
60195	Power Drive Drill Adaptor for Recovery Rescue Winch 60003

PRODUCT FEATURES

- Individually adjustable telescopic legs with toe spikes, bolt/peg holes and chain holes for added stability.
- BTS-Klick dual action quick release buttons for fast and reliable height adjustment.
- Lightweight aluminium construction.
- Rated tie-off points in the Tripod head for attaching additional personal fall protection equipment.
- Manufactured & Tested to AS/NZS 1891.2**

Specifications

Maximum Height (tripod):	3.0m
Maximum Height (beam):	2.5
Maximum Length Rail:	3.5m
Rated Capacity:	1 person (136kg including operator and any equipment)
Rail Length:	Modular 1.5m sections up to 6m max.

BTECH® DEFLECTION SHEAVE BLOCK

BTECH® anchor point Deflection Sheave Block and karabiner for attaching a HRA lifeline when a HRA Device is mounted onto an aluminium rescue tripod, davit or AirHook.

The Deflection Sheave Block is clipped onto the eye at the top of the anchor point with the HRA lifeline passing through it. The pulley is rust-proof and corrosion-resistant stainless steel and comes complete with screwgate karabiner.

Specifications

Pulley Type:	Single
Pulley Size:	6-8mm
Weight:	1.1Kg
Rated Capacity:	1 person (136kg including operator and any equipment)
Standard:	EN362:2004/B and EN1 2278.

BTECH® DEFLECTION SHEAVE BLOCK

Part No.	Description
41-Z20	Deflection Sheave Block with S/S Karabiner





CONFINED SPACE

Portable rail and guarding system

RAILGUARD 90

The RailGuard 90 system is a portable rail and guarding system that protects people and equipment. The system is designed to allow a person to easily set-up a secure area when necessary, and then quickly pull it down again when it is no longer in use. Made of steel and aluminium, the RailGuard 90 system has been designed to be durable and easy to transport.

RAILS

The RailGuard 90 rails are lightweight aluminium that is telescopic with a spring loaded core. Each rail section has a spring loaded pin at either end which enables secure connection of the rails, and allows for each rail to be quickly removed allowing for entry at any connection point.

POSTS

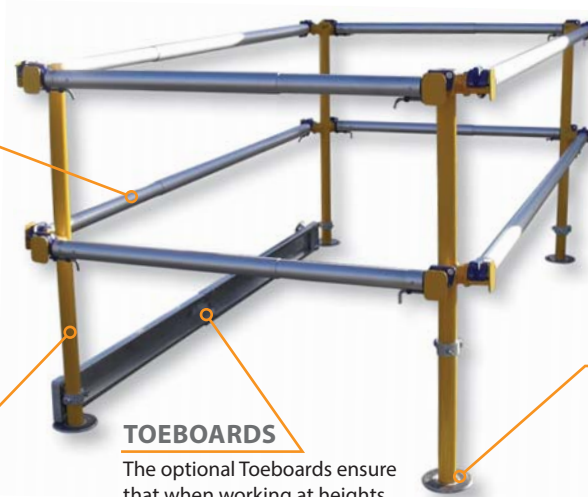
The strong and light weight aluminium poles provide stability for the system, while enabling them to be easily transported from location to location.

TOEBOARDS

The optional Toeboards ensure that when working at heights that any tools or debris that may be accidentally kicked in the work area wont roll over the edge and potentially injure passers by below.

BASE CUPS

The base cups can be fitted either when pouring the slab, or retro-fitted into existing flooring. Once initially set up the cups are left in place with a cap bolted to the top of it to prevent the ingress of water, dirt & other foreign matter, leaving it perfectly safe for pedestrian traffic.



PRODUCT FEATURES



Quickly, and easily set up by a single user to provide protection around equipment, and service areas. The extendible rails enable the one kit to be used in multiple configurations.



Easily gain access to the protected service area at any rail section, by simply unclipping the railing, giving you complete control over access to the service area.



When not in use the RailGuard 90 system is discrete, with the post cup being sealed closed showing only a small aluminium disc on the top surface.



The RailGuard 90 bollards, rails & kick plates pack down conveniently into a durable utility bag for transport and storage to be used on various sites time and time again.

STANDARD PACKAGE

RAILGUARD 90	
Part No.	Description
BHS-90	Aluminium Barricade System



The Standard package consists of;

- One bag containing (4) horizontal long hand rails + (4) horizontal short rails.
- One bag containing (4) toe boards + (4) upright bollards.

Assembled Kit size	Overall size		Pole centres	
	Length	Width	Length	Width
Minimum size	1933	1068	1691	826
Maximum size	2643	1568	2221	1326

Note:

- Outer tube of horizontal long and short hand rails natural aluminium colour
- Aluminium material specification is 6063
- The black top plastic cap of the upright bollards are UV treated.

EXTENSION SYSTEM

RAILGUARD 90	
Part No.	Description
BHS-91	Barricade System Extension



The Extension system package consists of;

- One bag containing (4) horizontal long hand rails + (2) Upright extension bollard
- One bag containing (2) toe boards





SRL & RECOVERY WINCHES

Self Retracting Lifelines, Recovery & Materials Winches

SRL, RECOVERY & MATERIALS WINCHES

The innovative design and technology of the IKAR & BTECH devices have kept us at the forefront of height safety for over 40 years. All IKAR fall arrest devices have low arresting forces, can be used from a low anchorage point and are certified for horizontal and inverted use.



SRL & RECOVERY WINCHES



Self Retracting Lifelines

SELF RETRACTING LIFELINES complies to EN 360:2002 & AS/NZS 1891.3

IKAR SRL's incorporate a web or steel-rope lifeline that extends and retracts allowing the user unhindered movement and mobility around the work areas. In the event of a fall, the internal brakes activate and the unit arrests the falling person within 600mm and limits the arresting force passed onto the worker's body.

All units are manufactured either in aluminium or shockproof plastic and feature 360° rotational top eye to eliminate the twisting of the unit webbing or steel-rope lifeline whilst in use.

Explanation for the device names:

H = Height Safety Device

W = Swivel attachment point

S = Galvanized steel lifeline

B = Webbing Lifeline

P = Plastic housing

Number = Length of the retractable connecting element

Example:

HWB 3,5 means: Height Safety Device with swivel and strap, length of the harness strap 3.5 m



HWS-18TA

SELF RETRACTING LIFELINES					
Part No.	Cable Type	Housing	Weight	Dimensions mm	Karabiner Length mm
HWB-2	2.0m Web	Aluminium	0.8 kg	240 x 84 x 61	140
HWB-2-R	2.5m Web	Aluminium	1.1 kg	425 x 85 x 67	280
HWB-3.5	3.5m Web	Aluminium	1.1 kg	270 x 88 x 64	140
HWPB-3.5TA	3.5m Web	Plastic	1.2 kg	326 x 104 x 78	140
HWPB-5.5TA	5.5m Web	Plastic	1.5 kg	300 x 130 x 78	140
HWPB-7TA	7.0m Web	Plastic	1.8 kg	300 x 165 x 80	140
HWPB-9TA	9.0m Web	Plastic	2.3 kg	335 x 168 x 88	140
HWPB-12TA	12.0m Web	Plastic	3.4 kg	370 x 195 x 95	140
HWPB-15 TA	15.0m Web	Plastic	5.3 kg	400 x 195 x 95	140
HWS-4.5	4.5m Steel rope	Aluminium	2.7 kg	400 x 130 x 78	185
HWS-6	6.0m Steel rope	Aluminium	3.0 kg	400 x 145 x 80	185
HWS-9TA	9.0m Steel rope	Aluminium	3.7 kg	455 x 160 x 85	185
HWS-12TA	12.0m Steel rope	Aluminium	5.4 kg	490 x 190 x 95	185
HWS-18TA	18.0m Steel rope	Aluminium	6.9 kg	540 x 220 x 97	185
HWS-24TA	24.0m Steel rope	Aluminium	8.4 kg	575 x 250 x 97	185
HWPS-3TA	3.0m Steel rope	Plastic	1.9 kg	390 x 104 x 78	185
HWPS-4.5TA	4.5m Steel rope	Plastic	2.1 kg	400 x 130 x 78	185
HWPS-6TA	6.0m Steel rope	Plastic	2.5 kg	420 x 145 x 80	185
HWPS-9TA	9.0m Steel rope	Plastic	3.2 kg	460 x 168 x 88	185
HWPS-12TA	12.0m Steel rope	Plastic	4.9 kg	500 x 195 x 95	185
HWPS-18TA	18.0m Steel rope	Plastic	6.3 kg	540 x 220 x 97	185
HWPS-24 TA	24.0m Steel rope	Plastic	7.3 kg	570 x 250 x 97	185



HWPB-12TA



HWPS-9TA



HWB-2



IKAR Fall Protection Devices function in any location position and have been certified in a simulated fall trial over an edge, CNB/P/ 11.060 2008 sharp edge type A



SRL & RECOVERY WINCHES

Self Retracting Lifelines

IKAR ROBUSTO complies to EN 360:2002 & AS/NZS 1891.3

Sturdy, low-maintenance height safety device with galvanized steel lifeline or webbing as retractable connecting element. Version with aluminium housing or plastic housing, approved for vertical and horizontal work.

IKAR fall protection devices feature a very high safety standard and worldwide proven technology.

Explanation for the device names:

- H = Height Safety Device
- S = Galvanized steel lifeline
- B = Webbing Lifeline
- P = Plastic housing
- Number = Insert length of the device

Example:

HPS 12 means: Height Safety Device, plastic housing and steel rope, length of the steel rope 12 m



* IKAR Fall Protection Devices function in any location position and have been certified in a simulated fall trial over an edge, CNB 11.060 2008 sharp edge type A

Height Safety Devices are available with CSA Z259.2.2-98 and ANSI/ASSE Z359.14-2014/LE certification

IKAR ROBUSTO					
Part No.	Cable Type	Housing	Weight	Dimensions mm	Karabiner Length mm
H-12TA	12.0m Steel rope*	Aluminium	5.9 kg	450 x 195 x 90	185
H-18TA	18.0m Steel rope*	Aluminium	9.5 kg	550 x 240 x 100	185
H-24TA	24.0m Steel rope*	Aluminium	13.5 kg	630 x 275 x 110	185
H-33TA	30.0m Steel rope*	Aluminium	18.0 kg	640 x 320 x 120	185
H-42TA	42.0m Steel rope*	Aluminium	27.2 kg	750 x 370 x 120	185
H-65TA	65.0m Steel rope*	Aluminium	38.0 kg	780 x 390 x 150	185
HPB-7TA	7.0m Webbing*	Plastic	2.9 kg	370 x 195 x 100	185
HPB-12TA	12.0m Webbing*	Plastic	4.4 kg	550 x 240 x 100	185
HPS-6TA	6.0m Steel rope*	Plastic	3.0 kg	430 x 150 x 91	185
HPS-12TA	12.0m Steel rope*	Plastic	4.6 kg	470 x 190 x 114	185
HPS-18TA	18.0m Steel rope*	Plastic	6.7 kg	540 x 225 x 96	185



TWIN SELF RETRACTING LIFELINES

IKAR Flexible HWDB-2

Sturdy, low-maintenance, double, height-safety device with webbing lifeline, for 1 person. The lifeline 2 x 2m incorporates sewn fall indicator. Lightweight aluminium housing with a rotational attachment eye. Swivel double action hooks with a gate opening of 27mm on the end of each lifeline.

IKAR Flexible HWDB-2-R

Sturdy, low-maintenance, double, height-safety device with webbing lifeline, for 1 person. The lifeline 2 x 2m incorporates sewn fall indicator. Lightweight aluminium housing with a rotational attachment eye. Large swivel double action hooks with a gate opening of 70mm on the end of each lifeline.



TWIN SELF RETRACTING LIFELINES							
Part No.	Description	Cable Type	Housing	Weight	Connector	Dimensions	Hook Length
HWDB-2	TWIN Self Retracting Lifeline	2 x 2m Web	Aluminium	1.9 kg	IKV20	250 x 165 x 60 mm	180 mm
HWDB-2-R	TWIN Self Retracting Lifeline	2 x 2m Web	Aluminium	2.8 kg	IKV25	250 x 165 x 60 mm	280 mm

SRL & RECOVERY WINCHES



Self Retracting Lifelines & Recovery Winches

SRL FOR ELEVATED WORK PLATFORMS

complies to EN 360:2002 & AS/NZS 1891.3

The Accon Click Block ACB1.8 Self Retracting Lifeline is an ideal product to use in an Elevated Work Platform, designed to reduce the maximum arresting force to less than 3kN which is an industry first in Australia. The ACB1.8 can be attached to anchor points at feet level.

PRODUCT FEATURES

- Lightweight Durable Self Retracting Lifeline (SRL) for Elevated Work Platforms (EWP).
- Robust Aluminium and Steel Construction suited for tough Australian work environments.
- Swivelling anchorage connector point to prevent twisting of webbing when in use.
- Extremely light weight at 0.96 kg and an overall length of 370mm.
- Tested successfully over an edge with Radius $r=0.5\text{mm}$.
- Meets all applicable industry standards, including AS/NZS 1891.3; EN 360:2002; CNB11 060:2008 Type A.



IKAR Fall Protection Devices function in any location position and have been certified in a simulated fall trial over an edge, CNB/P/ 11.060 2008 sharp edge type A



ACB 1.8

SELF RETRACTING LIFELINES

Part No.	Description	Cable Type	Housing	Weight	Dimensions (mm)	Karabiner Length mm	M.A.F.
ACB 1.8	Self Retracting Lifeline for EWP	1.8m Web	Plastic	0.96 kg	240 x 83 x 130	130	3kN

SELF RETRACTING LIFELINE WITH SELF RESCUE

complies to EN 360:2002 & AS/NZS 1891.3

The IKAR Self Retracting Lifeline with Self Rescue is ideal for applications where rescue is required to reduce the opportunity of suspension trauma occurring in a suspended person. In the event of a fall these HAS models have, internal brakes that activate the same as a traditional SRL but in the event of a fall the unit arrests the falling person and once the person's fall is completely arrested the Self Rescue Unit automatically starts extending the steel wire rope line and lowers the person down to the ground or other suitable landing.

PRODUCT FEATURES

- Normal load 136kg
- Normal load (*only HAS-30*) 100kg
- Proof load EN 341 170kg
- Static proof load 1496 20kN
- Maximum descent speed 0.5m/s
- Steel rope Ø 4.8mm
- Certified for 1 person
- Aluminium housing

SRL WITH AUTOMATIC LOWERING

Part No.	Cable Type	Housing	Weight	Dimensions mm	Karabiner Length mm
HAS-9TA	9.0m Steel rope	Aluminium	5.0 kg	455 x 160 x 120	185
HAS-18TA	18.0m Steel rope	Aluminium	11 kg	580 x 232 x 135	185
HAS-30TA	30.0m Steel rope	Aluminium	17 kg	610 x 280 x 140	185
HAS-9E	9.0m VA-Rope	Aluminium	5.0 kg	455 x 160 x 120	185
HAS-18E	18m VA-Rope	Aluminium	11 kg	580 x 232 x 135	185

Explanation for the device names:

- H = Height Safety Device
- W = Swivel attachment point
- S = Galvanized steel lifeline
- B = Webbing Lifeline
- P = Plastic housing
- Number = Length of the retractable connecting element

Example:

HWB 3,5 means: Height Safety Device with swivel and strap, length of the harness strap 3.5 m



HAS-18TA

HAS-30TA



SRL & RECOVERY WINCHES

Self Retracting Lifelines & Recovery Winches

IKAR RESCUE RECOVERY WINCHES complies to EN 360:2002, EN 1496:2007 & AS/NZS 1891.3

IKAR height safety devices with rescue hoisting facility (type HRA) are equipped with a winching unit. In case of a rescue after a fall this winch unit can easily be snapped-in by a second person e.g. in case of unconsciousness through gas in shafts or channels. The person who has suffered the accident can therefore be rescued quickly and safely. The unit is completely closed and has no wearing parts. All parts are made from stainless steel, aluminium or shock proof plastic. Different lanyard lengths ensure that a suitable device is available for every application.

(Special lanyard lengths and V2A stainless steel or Dyneema® lanyards are possible on request!)

IKAR height safety devices with rescue hoisting facility have a very high standard of safety using technology which has proven its excellence throughout the world.

Height Safety Devices are available with CSA Z259.2.2-98 and ANSI/ASSE Z359.14-2014/LEcertification

Explanation for the device names:

- H = Height Safety Device
- R = Rescue hoisting device
- S = Let-down function
- P = Plastic housing
- Number = Insert length of the device

- complies to EN 360:2002, EN 1496:2007
 - Aluminium or Plastic Housing
 - Galvanized steel cable lifeline
 - certified for 1 person
- 



IKAR RESCUE WINCHES					
Part No.	Cable Type	Housing	Weight	Dimensions mm	Karabiner Length mm
HRA-12TA	12.0m Steel rope	Aluminium	7.0 kg	450 x 195 x 180	85
HRA-18TA	18.0m Steel rope	Aluminium	11.5 kg	570 x 240 x 200	185
HRA-24TA	24.0m Steel rope	Aluminium	16.0 kg	630 x 275 x 220	185
HRA-33TA	30.0m Steel rope	Aluminium	21.0 kg	640 x 315 x 230	185
HRA-42TA	42.0m Steel rope	Aluminium	40.0 kg	740 x 370 x 235	185
HRA-65TA	65.0m Steel rope	Aluminium	43.0 kg	780 x 390 x 240	185
HRA-18PTA	18.0m Steel rope	Plastic	10.3 kg	620 x 231 x 152	185
HRA-12E	12.0m VA-Rope	Aluminium	7.0 kg	450 x 195 x 180	185
HRA-18E	18.0m VA-Rope	Aluminium	11.5 kg	570 x 240 x 200	185
HRA-24E	24.0m VA-Rope	Aluminium	16.0 kg	630 x 275 x 220	185
HRA-33E	30.0m VA-Rope	Aluminium	21.0 kg	640 x 315 x 230	185
HRA-42E	42.0m VA-Rope	Aluminium	40.0 kg	740 x 370 x 235	185
HRA-12D	9.0m Dyn-Rope	Aluminium	6.0 kg	450 x 195 x 180	185
HRA-18D	15.0m Dyn-Rope	Aluminium	10.1 kg	570 x 240 x 200	185
HRA-24D	20.0m Dyn-Rope	Aluminium	14.1 kg	630 x 275 x 220	185

IKAR ACCESSORIES	
Part No.	Description
S30	Winch chain drive, available for all HRA devices
60202UI	Bracket for IKAR HRA to PRO-3G Davit - including female adaptor
60202UI-SP	IKAR Bracket



Winch adaptor brackets are available to suite a variety of equipment and applications.



The winch chain enables easy use of the winch in the HRA device, even if the load point is located very high.

MAN / MATERIAL RATED WINCHES **BTECH**[®]

Man / Material Rated Winches

STAINLESS STEEL HAND BRAKE MATERIALS WINCH

Description:

Stainless Steel Load Brake Winch - Rated Capacity: 140Kg (Lifting). COMPLIES WITH AS1418.2, BS EN 13157: 2004+A1:2009 and relative EC Declaration of Conformity 2006 / 42 / EC / appendix 11A. Complete with 18m x 6mm 7x19 H.D.G Grade G2070 Wire rope, Quick Release Single Universal Interface Bracket and 6mm Grade 80 Eye Swivel Self Locking Hook

PRODUCT FEATURES

- Compact design
- Rated Capacity: 140Kg (Lifting) in line with Man Rated Pro-3G Davit
- 5:1 gear ratio
- Very low operator effort required for easy operation
- Double pawl safety feature
- Stainless steel construction Grade 304
- Automatic weatherproof Weston brake
- Automatic load actuated breaking system- no free wheeling under load
- The plain winch bearings are made from bronze for additional corrosion resistance
- Ergonomic rubber handle
- Fully enclosed gear train
- Minimum handle effort to lift or pull W.L.L (Working Load Limit)
- C/w 18m x 6mm 7x19 H.D.G Grade G2070 Wire rope
- C/w 6mm Grade 80 Eye Swivel Self Locking Hook yellow powder coated.
- Quick Release Single Universal Interface Bracket c/w "T" locking pin & lanyard designed specifically to match BTS davit interface bracket

18m x 6mm 7x19 H.D.G Grade G2070 Wire rope

Note: Stainless Steel wire rope can be supplied as an option



6mm Grade 80 Eye Swivel Self Locking Hook

Compliance plate "T" locking pin & lanyard

Quick Release Single Universal Interface Bracket



SSJC-C820

SSJC-C820S



Typical configuration

STAINLESS STEEL HAND BRAKE WINCH	
Part No.	Description
SSJC-C820	Stainless Steel Hand Brake Winches c/w 18m x 6mm 7x19 H.D.G Grade G2070 Wire rope, 6mm Grade 80 Eye Swivel Self Locking Hook & Quick Release Single Universal Interface Bracket.
SSJC-C820S	Same as above but with 6mm Grade 100 Eye Swivel Self Locking Hook & Stainless Steel Rope

NOTE:

Consult Operator / Use & Operating manual before use.

These winches are not designed for passenger elevation (i.e. Man Riding) and MUST NOT be used for that purpose.

AS1418.2 & BS EN 13157: 2004+A1:2009. Compliance and EC Declaration of Conformity only applies when correctly fitted with approved wire rope and fittings.

MAN / MATERIAL RATED WINCHES **BTECH**[®]

Man / Material Rated Winches & Accessories

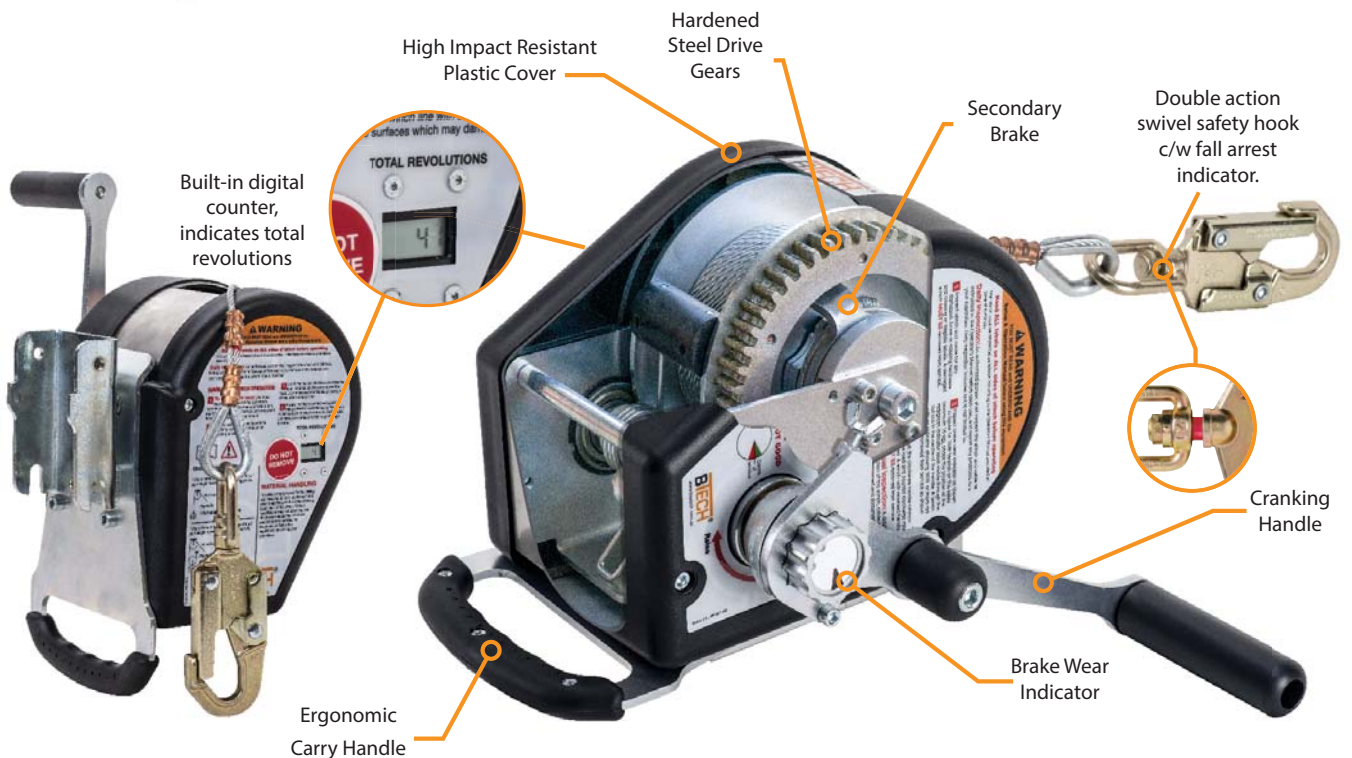
BTECH[®] MAN / MATERIAL RATED DIGITAL WINCHES

BTECH PRO-Series winches are available in a variety of cable lengths. These winches are specifically designed for personnel and material handling in a wide range of confined space, fall protection and rescue applications.

BTECH PRO-Series winches offer the user the ability to safely access and egress a wide variety of confined spaces. The winch is equipped with a brake wear indicator so that the operator can check the brake condition at a glance. A secondary safety brake is also fitted to ensure the users safety in the event of the primary brake failing.

PRODUCT FEATURES

- Our winches are also fitted with a digital counter so that the operator knows when the winch is due for service.
- A double action swivel hook complete with a built in fall arrest indicator is fitted as standard.
- The winch can be operated manually using the removable crank handle and there is an option for a power drive.
- The power drive helps prevent operator fatigue when recovery a worker from a deep excavation or tunnel.
- Ergonomic Carry Handle.
- Brake Wear Indicator.
- Secondary Brake & Brake Wear Indicator.
- Hardened Steel Drive Gears & High Impact Resistant Plastic Cover.



Continued next page.

MAN / MATERIAL RATED WINCHES **BTECH**[®]

Man / Material Rated Winches & Power Drive Adapter

PRO SERIES DIGITAL WINCHES				
Model	Part No.	Cable Type	Weight	
	PRO-1 Series	60217	18m Stainless Steel rope	14.0 kg
		60219	18m Galvanised Steel rope	14.0 kg
		60218	30m Stainless Steel rope	15.2 kg
		60220	30m Galvanised Steel rope	15.2 kg
	PRO-2 Series	60229	45m Stainless Steel rope	18.0 kg
		60231	45m Galvanised Steel rope	18.0 kg
		60230	60m Stainless Steel rope	19.5 kg
		60232	60m Galvanised Steel rope	19.5 kg
	PRO-3 Series	60225	76m Stainless Steel rope	22.3 kg
		60227	76m Galvanised Steel rope	22.3 kg
		60226	90m Stainless Steel rope	23.8 kg
		60228	90m Galvanised Steel rope	23.8 kg



WINCH MOUNTING BRACKETS	
Part No.	Description
BTS60101	Interface bracket to mount PRO-1 BTECH Winch to PRO-3G Davit
60209	Interface bracket to mount PRO-2/3 BTECH Winch to PRO-3G Davit
BTS60101SB	Interface bracket to mount PRO-1 BTECH Winch to PRO-3 Tripod

BTECH WINCH BAGS	
Part No.	Description
40000	Bag, PRO-1 Winch
40005	Bag, PRO-2 Winch
40006	Bag, PRO-3 Winch

POWER DRIVE FOR MAN / MATERIAL RATED WINCHES

The BTECH Power Drive Adaptor allows BTECH PRO-Series Man / Material Rated Winches to be driven using a variety of corded or cordless electric hand drills in applications where long or repeated access could lead to user fatigue.

The Power Drive Adaptor features a gear ratio of 4:1 complete with an overload protection clutch designed to limit input torque to prevent injury in the case of worker entanglement. A sealed planetary gear set provides smooth and quiet input speed reduction to a suitable drive speed.

Specifications

The Power Drive Adaptor is compatible with the Rated Working Load for all BTECH PRO-Series Man / Material Rated Winches in all approved applications

Capacity (Fall Arrest):	140kg
Gear Ratio:	4:1
Weight: (Clutch Assembly)	2.23kg
Weight: (4:1 Drive Assembly)	2.18kg
Drill torque / Speed Requirements:	Minimum 20Nm, Maximum 1200 RPM
Recommended Drill Make & Model	Hilti Model # UH240-A

POWER DRIVE	
Part No.	Description
60195	Gear Reduction Drive 4:1 (Max Input 1200rpm, 310/620 lbs Clutch)



DESCENDERS

Controlled Descent Devices

CONTROLLED DESCENT DEVICES

Rescue devices are used to extract people whose means of exit via stairs, ladders or elevators is blocked by fires, gases or other unforeseeable events. Rescue devices are equipped with centrifugal force brakes, which provide a constant controlled descent speed for the persons being rescued. The devices are constructed so that the braking unit works completely independently of the rope unit. This results in smooth functioning even in bad weather conditions. No additional person is needed for the controlled descent.

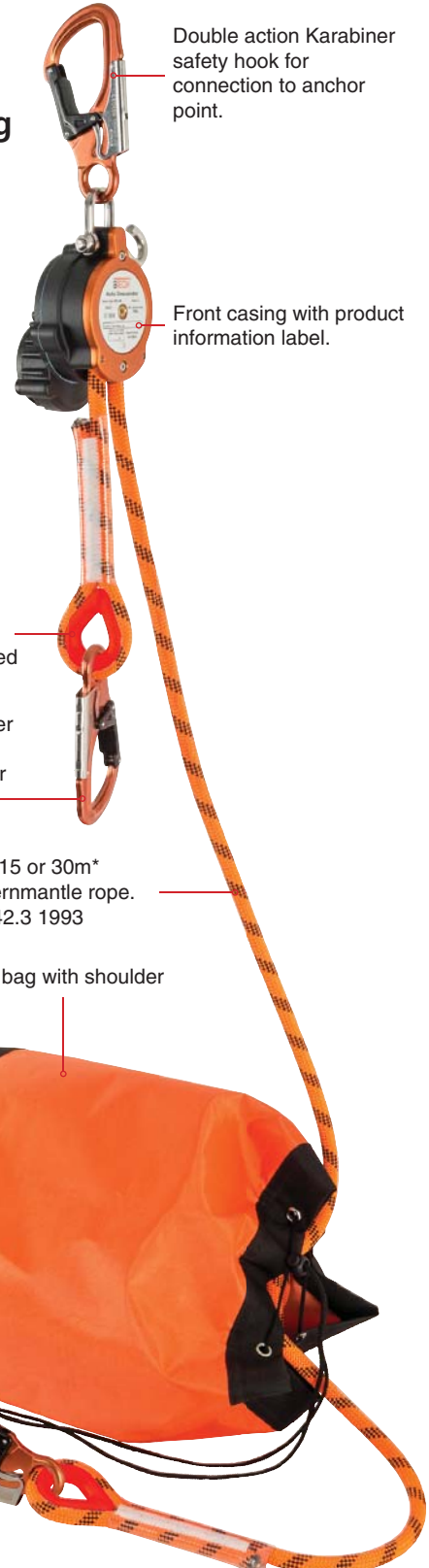
MRG-9N-15 Auto Descender C/w 12mm x 15m
MRG-9N-30 Auto Descender C/w 12mm x 30m
Kernmantle rope, Double action karabiner safety hooks & Bag

The MRG9N is a controlled descent device, which has been specifically designed for use by a competent person who has been trained in its use, and who may be faced with evacuation from an elevated workplace.

The MRG9N is designed to descend one or more persons, one after the other (maximum load 140kg) from heights up to 100 metres.

The MRG9N can be used in the vertical or horizontal axis. The MRG9N once loaded, will "free run" automatically at 0.8 metres per second, lowering the person at a controlled constant speed.

Note: Other lengths available on request.



Double action Karabiner safety hook for connection to anchor point.

Front casing with product information label.

Sewn rope eye with reinforcing thimble and clear heat shrink so sewing can be inspected

Double action Karabiner safety hook for connection to worker or casualty.

12mm x 15 or 30m* Static Kernmantle rope. to AS4142.3 1993

Storage bag with shoulder straps.

Rear casing with user instructions.

Specifications

Part No.	MRG-9N-15 or MRG-9N-30
Maximum descen	100 metres
Maximum load	150 kilograms
Minimum load	30 kilograms
Descent speed	0.8 metres per second
Rope size	12mm x 15 or 30m* Kernmantle
Service classification	Multi use, inspect after evacuation
Operating temperature	-30°C to + 40°C
Class	A for EN 341

** Other lengths available*

RESCUE DEVICE



BTECH Rescue Device

BTECH® RESCUE DEVICE

The BTECH Rescue Device (BRD) is a practical product solution that is designed to be used for many different industrial access applications along with technical rescue & retrieval of workers.

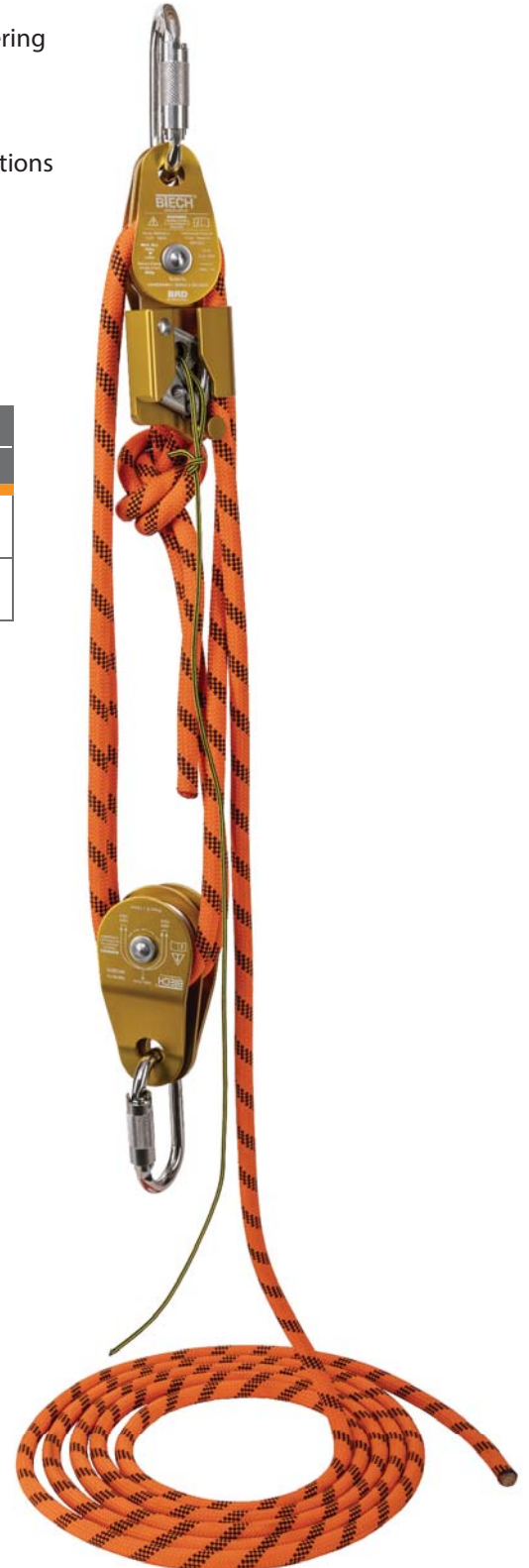
PRODUCT FEATURES

- Ideal for work positioning and rescue & retrieval of workers with lifting and lowering capabilities.
- Pre-rigged kits allow for quick and efficient set-up
- Manually operated cam-lok brake system for ascending and descending applications
- High strength aluminium alloy component construction
- 12mm Kermantle rope to AS4142.3
- 4:1 mechanical advantage
- Available in pre-rigged kits of 15m & 30m

BTECH® RESCUE DEVICE PRE-RIGGED KITS				
Part No.	Description	Length	Rope Size	WLL
172015	BTECH Rescue Device c/w 15m Orange Kermantle Rope	15m	12mm	300kgs
172030	BTECH Rescue Device c/w 30m Orange Kermantle rope	30m	12mm	300kgs

(BRD) BTECH Rescue Device Tested to AS/NZS4488.I EN5677 & EN12278

BTECH Diversion Sheave Tested to EN12278



HORIZONTAL SAFETY RAIL SYSTEM **B-RAIL**[®]

Horizontal Aluminium Safety Rail System - Overview

HORIZONTAL SAFETY RAIL SYSTEM

Innovative in design, the B-Rail Aluminium Overhead Rail and Trolley system is a proprietary overhead fall restraint system that is suitable for use by multiple workers.

The system incorporates high quality engineered components that are designed for industrial and commercial environments.

The B-Rail rigid rail system can span up to 9.75m between support brackets to allow for uninterrupted, smooth functioning travel via the proprietary ball bearing trolley system.

The B-Rail Overhead Rail and Trolley system can be installed in overhead and side orientations for fall restraint and limited free fall applications

Can be used in a range of applications including maintenance of vehicles, aircraft, earthmoving plant equipment and rolling stock.

The B-Rail Overhead Rail and Trolley system provides for a very robust and solid anchorage system for multiple person attachment and does not flex under normal working loads.



PRODUCT FEATURES

- 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.
- Maximum continuous span of 9.75m between support brackets and can support 2 persons per span.
- Enclosed designed track completely eliminates the build-up of dust and debris including bird droppings on track.
- Modular style design allows for ease of adding sections for future expansions in system design.
- Optional support fittings for different applications.
- Spacer tube with end caps prevent the carriage from coming off the end of the system.
- B-Rail proprietary ball bearing trolley system allows the user to connect to the rigid rail and allow for uninterrupted smooth travel over the entire work area.
- The B-Rail Trolley is manufactured in aluminium alloy with hard wearing Acetal wheels on sealed ball bearings resulting in minimal wear and eliminating the opportunity of 'coil-back'.
- Available in different lengths, ranging from 3.0m to 9.8m.



Overhead rail maintenance system in aviation industry



Cube and overhead rail maintenance system in aviation industry



Adjustable height mobile Quad Frame fitted with 2 B-Rail horizontal Safety Rails

HORIZONTAL SAFETY RAIL SYSTEM **B-RAIL**[®]

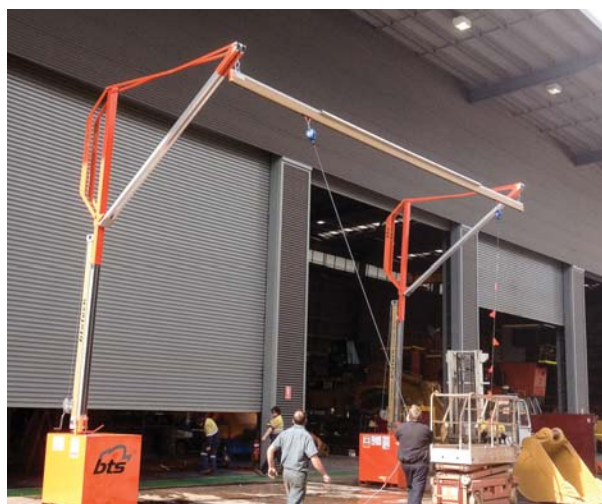
Horizontal Aluminium Safety Rail System- Specifications

HORIZONTAL SAFETY RAIL SYSTEM

Specifications

System Capacity:	Two workers weighing a max. combined weight of 272kg including all clothing, tools, & equipment.
Arrest Force Rating for SRL:	4kN MAX
Weight (10m assembled rail only):	95.5kg
Weight (trolley):	1.5 kg each
Rail Construction:	Extruded 6061-T6 Aluminium
Uprights/Connectors:	Galvanized / Zinc-Plated Steel
Trolley Wheels:	Acetal with Sealed Ball Bearings
Hardware (minimum):	Grade 5 Zinc-Plated
Finish (aluminium):	Gold Anodized & Natural Finish
Plating Specification:	CS-500 Zinc Plated (Type II Zinc, SC-2, ASTM B633-85)
Standard Length:	9.75m Code: BTS0019B

This product may be used as part of a complete fall arrest system designed, installed, and used under the supervision of a qualified person. This product meets the applicable requirements of the following standards: EN 795, OSHA 1926.502, ANSI/ASSE Z359 & AS/NZS 1891.2



HORIZONTAL SAFETY RAIL SYSTEM

Horizontal Aluminium Safety Rail System - Trolleys & Kit

HORIZONTAL RAIL TROLLEYS

BTS has a range of trolleys to suit your specific site requirements.

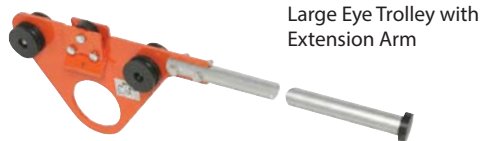
PRODUCT FEATURES

- All trolleys feature back-up safety anti-drop brackets
- Minimum 5 wheel stability with 8 sealed bearings for trouble free movement.
- Large opening for ease of connection of Scaffold hooks and Karabiners.
- Large Positional connection point.
- Individual steel ID plates for traceability and inspection.
- Some units have bumper bars to prevent collision between workers.

Product Code	B70213S	B70144S	B70055S	B70274S
Rated Capacity Kgs:	140Kgs	140Kgs	140Kgs	140Kgs
L (Length)	2172mm	858mm	196mm	197mm
H (Height)	199.125mm	199.125mm	199.125mm	147.625mm
D (Diameter)	82.5mm	82.5mm	82.5mm	16mm



Code: B70213S
Large Eye Trolley with Supported Extension Arm



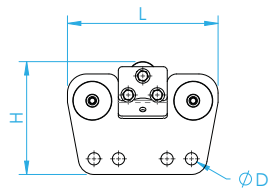
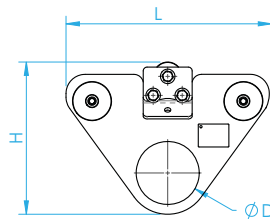
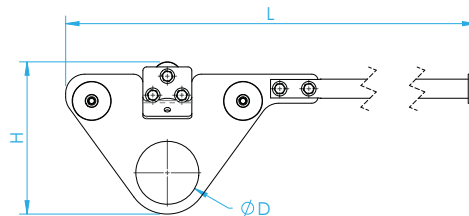
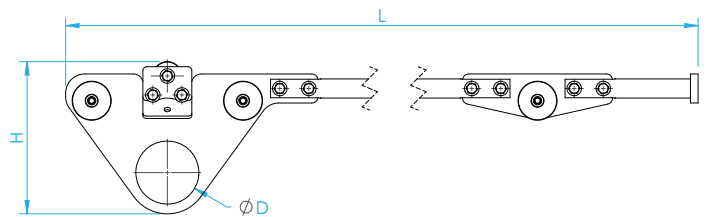
Code: B70144S
Large Eye Trolley with Extension Arm



Code: B70055S
Large Eye Trolley



Code: B70274S
4 Hole Trolley



HORIZONTAL RAIL MOUNTING KIT



Code: BTS70060
Horizontal Swivel hanger bracket c/w bolts, nuts and washers



Code: BTS70061
Horizontal hanger bracket - mounting rail 3 piece / set

Note: Not supplied with bolts, washers, nuts or thread bars



Code: RTTR88GM161000
Code: NUTSTRM16
Code: WASHERM16
Code: COUPLINGNUTM16
M16 Thread bar, Nuts, Washers & Coupling nuts



Code: BTS0019EB
Aluminium end bracket 1 piece / set

TEMPORARY FALL ARREST SYSTEM



Container Anchor Post System

SHIPPING CONTAINER ANCHOR POST

The unique design of the BTS Shipping Container Anchor Post (SCAP) System allows the product to be constructed and set-up in different configurations to suit the type of work being done on top of a shipping container. The system can be set-up as a single person fall arrest anchor, two person fall restraint or fall arrest or as a complete perimeter barricade system.

Also available as a stand alone post.

PRODUCT FEATURES

- Easy to install on top mount corner casting.
- Rated for two (2) person tie-off unit at 18 kN.
- Adjustable Fibre Rope Static Line c/w rope tensioner available.
- Can be set-up as a single Anchor Point, Static Line or as a complete perimeter protection.
- Maximum working load of 136kg per person when used as a limited free fall anchor point.
- Steel construction.



CONTAINER POST	
Part No.	Description
CBPOST 18 kN	18 kN Removable Container Post



Container lock →



Before using the SCAP, the user needs to be equipped with appropriate PPE and a full body harness compliant to AS/NZS1891.1.

An SRL shall be attached to the SCAP personnel attachment point which gets attached to the harness of the user.

When working close to the edge of the container, the worker shall not be further than 600mm of the installed anchor point. This is the safe working zone to prevent a pendulum effect from occurring in case of a fall.

TEMPORARY FALL ARREST SYSTEM



Shipping Container Horizontal Lifeline System (HLS)

CONTAINER POST HORIZONTAL LIFELINE SYSTEM

The Container Post Horizontal Lifeline System is installed by setting up two Shipping Container Anchor Posts on either corner of a long side of the container and connecting the wire rope kit (LIFELINEKIT-20 or LIFELINEKIT-40) using a polyester tie off strap and karabiner on one side and ratchet and webbing strap on the other. The wire rope is tensioned using the ratchet.

Prior to using this system, the user needs to be wearing a full body harness (compliant to AS/NZS1891.1) and connected to the Horizontal Lifeline System using an SRL.

AVAILABLE KITS (for 20ft container and 40ft container):

LIFELINEKIT-20 Parts list:

- 1 x 25mm Polyester Tie Off Strap
- 1 x Triple Action Aluminium Alloy Oval Karabiner
- 1 x 8mm Stainless Steel 7x7 Wire Rope Set 4.5m complete with thimble eye and double swage one end, 2 x triple action karabiners with retaining pin, aluminium rope terminals and black plastic end cap.
- 1 x Temporary horizontal lifeline end lock set
- 1 x BTECH Carrying Bag

LIFELINEKIT-40 Parts list:

- 1 x 25mm Polyester Tie Off Strap
- 1 x Triple Action Aluminium Alloy Oval Karabiner
- 1 x 8mm Stainless Steel 7x7 Wire Rope Set 10m complete with thimble eye and double swage one end, 2 x triple action karabiners with retaining pin, aluminium rope terminals and black plastic end cap.
- 1 x Temporary horizontal lifeline end lock set
- 1 x BTECH Carrying Bag

Additional parts recommended but not included in the HLS Kit:

- 2 x CBPOST18KN – 18kN Removable Shipping Container Anchor Post.
- 2 x BTECH full body harness compliant to AS/NZS1891.1.
- 2 x HWDB-2 – Double fall inertia reel aluminium housing c/w 2 x 2m webbing strap.
- 2 x BSK0001 - Screw Gate Oval Karabiner.



SAFE WORKING ZONES



SRL- Horizontal Life Line Safe Zone



SRL or 600mm Energy absorber lanyard Safe Zone



ANCHOR POINTS

Purlin Anchors, Concrete Anchors & Bolt on Anchors

PURLIN ANCHOR POINTS

The ranges of Purlin Mounted Anchor Points from BTS are a cost effective solution for working on structures with steel roof sheet that are affixed to a steel purlin.

PRODUCT FEATURES

- Designed for ease of installation allowing the unit to be installed from above or below the roof sheet.
- 360° swivel eye eliminating the twisting of ancillary static lines and lanyards.
- Enlarged swivel eye capable of accommodating main PPE providers.
- Grade 316 Stainless Steel construction.
- Architecturally inconspicuous.
- Complete with neoprene gasket.

Specifications

Ultimate Strength Rating:	21kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136kg each.
Allowable MAF Rating for SRL's:	4 kN



BTS162
BTS162NZA



BTS160



BTS161



PURLIN ANCHOR POINTS		
Part No.	Description	To Suit
BTS 162	S/S 316 Safety Anchor Trim Deck Purlin Mount	Trim Deck / Long Span Metal deck roofing
BTS 160	S/S 316 Safety Anchor Corrugated Purlin Mount	Custom Orb Metal Deck Roofing
BTS 161	S/S 316 Safety Anchor Flat Purlin Mount	Flat Metal Deck Roofing
BTS 162NZA	S/S 316 Safety Anchor Trim Deck Purlin Mount	Trim Deck / New Zealand Profile

CONCRETE ANCHOR

The Concrete Anchor Points from BTS are a cost effective solution for working on concrete structures.

PRODUCT FEATURES

- M16 Stainless steel 316 threaded anchor bolt and eye.
- Chemical adhesive securing to concrete (Not included).
- 360° swivel eye eliminating the twisting of ancillary static lines and lanyards.
- Enlarged swivel eye capable of accommodating main PPE providers.
- Architecturally inconspicuous.

Specifications

Ultimate Strength Rating:	21kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136kg each.
Allowable MAF Rating for SRL's:	4 kN



BTS163

CONCRETE ANCHOR		
Part No.	Description	To Suit
BTS163	S/S 316 Safety Anchor Concrete Low Profile 12kN	Concrete structures

BOLT ON ANCHOR POINT

Easily add height safety anchor points to new or existing structures with simple bolt on D-ring anchor points.

PRODUCT FEATURES

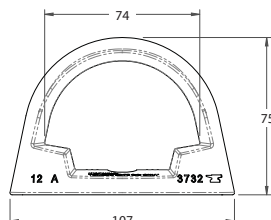
- Alloy Steel
- Suitable for Abseiling

Specifications

Ultimate Strength Rating:	21 kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136kg each.
Allowable MAF Rating for SRL's:	4 kN



BTS 3732



BOLT ON ANCHOR POINTS	
Part No.	Description
BTS 3732	Bolt On Anchorage Connector c/w 13mm bolt, washers & nut

ANCHOR POINTS



EAP SPAR & EAP LOCK Anchors

BTECH® EAP SPAR



EAP SPAR

The EAP SPAR Anchor Points provide anchorage on a wide variety of structures.

PRODUCT FEATURES

- 2 person anchor point complete with 360° Swivel Eye.
- Available in thread length 50/125/200/300/400/500mm.
- Grade AISI 316 Stainless Steel construction.
- Tested in accordance to EN 795. In addition it has been tested on different foundations statically and dynamically.
- Suitable for use in concrete, wood and steel arrangements.

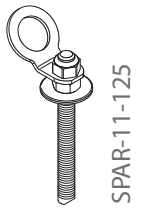
Specifications

Ultimate Strength Rating:	21kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136kg each.
Allowable MAF Rating for SRL's:	4 kN

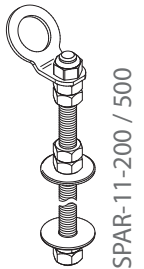
BTECH® EAP SPAR ANCHOR POINTS	
Part No.	Description
EAPSPAR -11-50	S/S 316 Two Person Anchor Point Post 12kN - 50mm thread
EAPSPAR -11-125	S/S 316 Two Person Anchor Point Post 12kN - 125mm thread
EAPSPAR -11-200	S/S 316 Two Person Anchor Point Post 12kN - 200mm thread
EAPSPAR -11-300	S/S 316 Two Person Anchor Point Post 12kN - 300mm thread
EAPSPAR -11-400	S/S 316 Two Person Anchor Point Post 12kN - 400mm thread
EAPSPAR -11-500	S/S 316 Two Person Anchor Point Post 12kN - 500mm thread



SPAR-11-50



SPAR-11-125



SPAR-11-200 / 500

BTECH® EAP LOCK



EAP LOCK

The EAPLock is a discrete removable anchor point designed to be located in areas where it is not desirable to see the anchor point such as inside a room or on a facade. A user can install several inconspicuous EAPLOCK-11 units into various locations and using an EAPLOCK-13 quickly and easily utilise it as an anchor point.

PRODUCT FEATURES

- 2 person detachable anchor point complete with 360° Swivel Eye.
- Architecturally inconspicuous covering cap.
- Suitable for attaching via adhesive or nut assembly.
- Receptacle sleeve available in thread lengths of 100/150/200/300/400/500mm.
- Inner thread contains receptacle sleeve for pull out test.
- Suitable for use in concrete, wood and steel arrangements.

Specifications

Ultimate Strength Rating:	21kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136kg each.
Allowable MAF Rating for SRL's:	4 kN

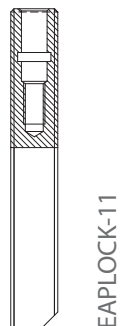
BTECH® EAP LOCK ANCHOR POINTS	
Part No.	Description
EAPLOCK-12	Locking Anchor Point Covering Cap
EAPLOCK-13	S/S 316 Safety Anchor Locking Anchor Point 12kN
EAPLOCK-11	Locking Anchor Point Receptacle Sleeve



EAPLOCK-12



EAPLOCK-13



EAPLOCK-11

HORIZONTAL LIFELINE SYSTEM



All In One Lifeline - System

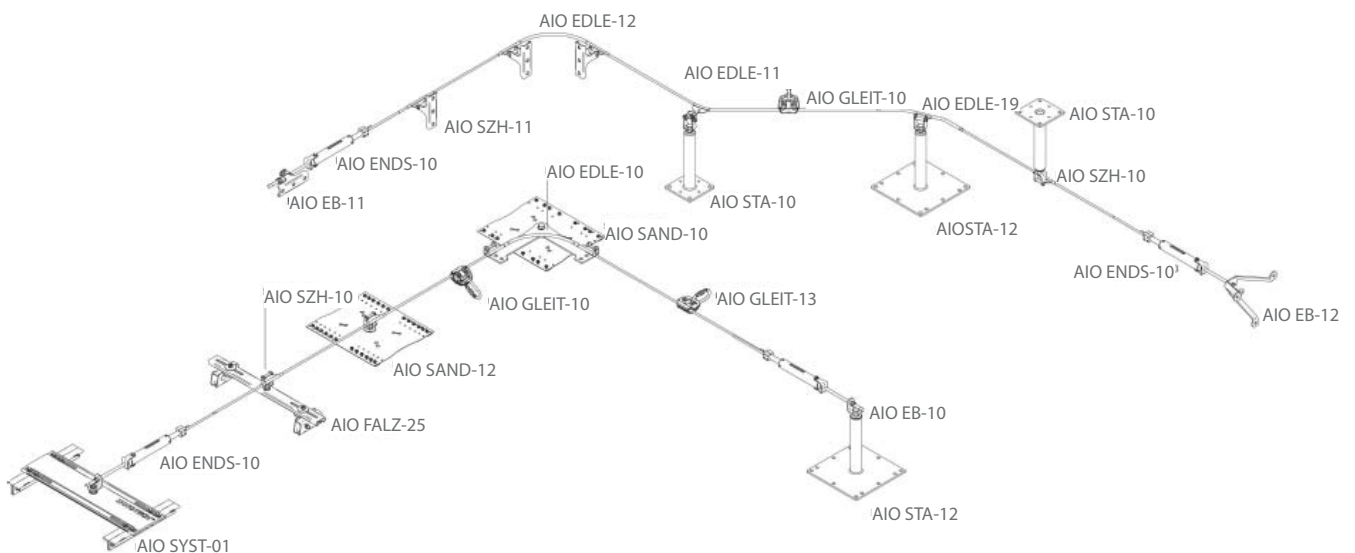
BTECH® - ALL IN ONE LIFELINE (AIO)



The AIO Horizontal Safety Line System offers users many benefits over other generic Horizontal Lifeline Systems available in the Australian marketplace today.

PRODUCT FEATURES

- System span of up to 300m between end anchor to end anchor and maximum support spacing up to 15m new point AIO can be installed in many orientations including at foot level or above head height.
- System can be designed to secure a maximum of 4 people (1 person per travelling shuttle).
- Ease of set-up that allows the users to walk on both sides of the system without the need to unhook or transfer.
- Integrated shock absorber at both ends of the line that absorbs the fall arrest forces generated in the event of a fall and minimises the impact and potential damage to attaching substructure.
- Virtually no slack or deformation in the cable due to constant spring pre-loads. System can be set-up as a Restraint System.
- Optimal ease of system maintenance due to transparent inspection panel and fall indicating clamps.
- Pass through traveller with self-lubricating bearing assemblies allow for ease of glide over cables and intermediate supports resulting in little or no friction or heat build-up within the system.
- Minimum tools required for install (2 off 17mm combination open ring spanner and a 17mm socket and torque wrench).



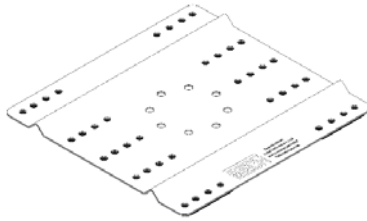
HORIZONTAL LIFELINE SYSTEM



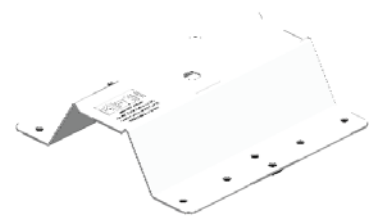
All In One Lifeline - Components

BTECH® - AIO LIFELINE - ROOF ANCHOR PLATES

7585A101
15kN UNIVERSAL
FLAT ROOF ANCHOR PLATE
with foam pads
GRADE 316 Stainless Steel
& Polyethylene Foam Pads
AS/NZS 1891.2

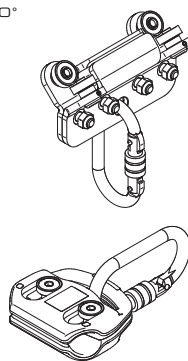
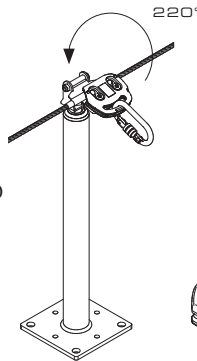


7585A201
15kN UNIVERSAL
RAISED ROOF ANCHOR
PLATE with foam pads
GRADE 316 Stainless Steel
& Polyethylene Foam Pads
AS/NZS 1891.2

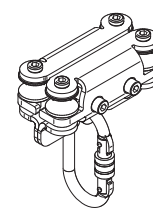


BTECH® - AIO LIFELINE - PASS THROUGH TRAVELLERS

- For passing over intermediate cable brackets for Innotech lifeline systems.
- Walk-able along both sides without unhooking.
- Pass through traveller can be attached and detached at any point on the system. (AIO GLEIT-10).

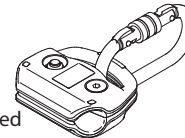


AIO GLEIT-11
Travelling eye-bolt for overhead lifeline systems, passes over intermediate brackets - not suitable for curves.
Non detachable.



AIO GLEIT-12
Travelling eye-bolt for overhead lifeline systems, passes over intermediate brackets and curves.
Non detachable.

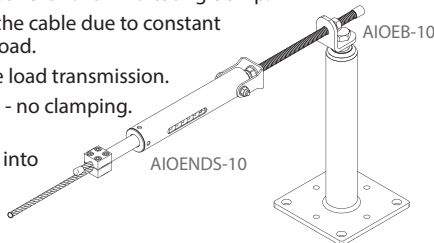
AIO GLEIT-10
Travelling eye-bolt for horizontal lifeline systems - passes over intermediate brackets and curves.
Can be attached and detached at any point.



AIO GLEIT-13
Travelling eye-bolt for horizontal lifeline systems - passes over intermediate brackets and curves.
Non detachable.

BTECH® - AIO LIFELINE - END BRACKETS

- Optimal ease of maintenance due to transparent inspection panel and fall indicating clamp.
- No slack in the cable due to constant spring pre-load.
- Reduces the load transmission.
- No pressing - no clamping.
- Possible to incorporate into lightning protection - tested in accordance with EN 62305. (class 1-4)



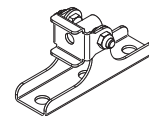
AIOENDS-10
Innovative end lock serves as a main component for Innotech lifeline systems.



AIO EB-10
Installation on Sta, Falz, Vario, Sand, Syst.



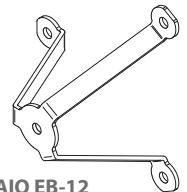
AIO EB-13
For fixing two end locks at a 90° angle.



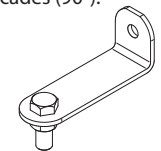
AIO EB-11
Installation on facades.



AIO EB-11
For fixing two end locks at an intermediate point in the lifeline system, rotates freely.



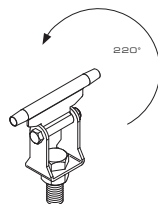
AIO EB-12
Installation on facades (90°).



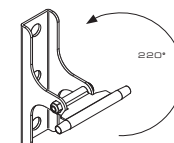
AIO EB-15
Installation on Sta, Falz, Vario, Sand, Syst.

BTECH® - AIO LIFELINE - INTERMEDIATE BRACKETS

- Intermediate bracket for longer lifeline systems with straight cable path.
- Walk-able along both sides without unhooking. (moveable up to 220°)
- Easily passed over with travelling eye-bolt.

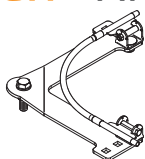


AIO SZH-10
220° range of function - walk-able on both sides of the lifeline system without needing to unhook.
Installation on Sta, Falz, Vario, Sand, Syst.

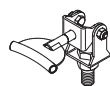


AIO SZH-11
220° range of function - walk-able on both sides of the lifeline system without unhooking.
Installation on facades.

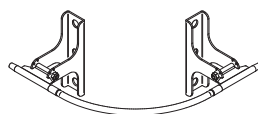
BTECH® - AIO LIFELINE - CORNER BRACKETS



AIO EDLE-10
Can be passed over on inside, outside, and overhead corner units (90°).



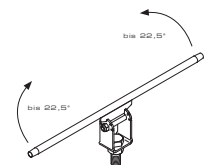
AIO EDLE-11
For constructing complex corner formations (45° - for 90° corners, 2 pieces are necessary).



AIO EDLE-12
Connection to facades with two-hole fastening, can be passed over on inside and overhead corner units (90°).



AIO EDLE-13
Connection to facades with one hole fastening (90°) (limited functional area when used as outside corner).



AIO EDLE-19
Variable corner settings from 0° to max. 45° (2 x 22,5°) for optimal setup of the cable.

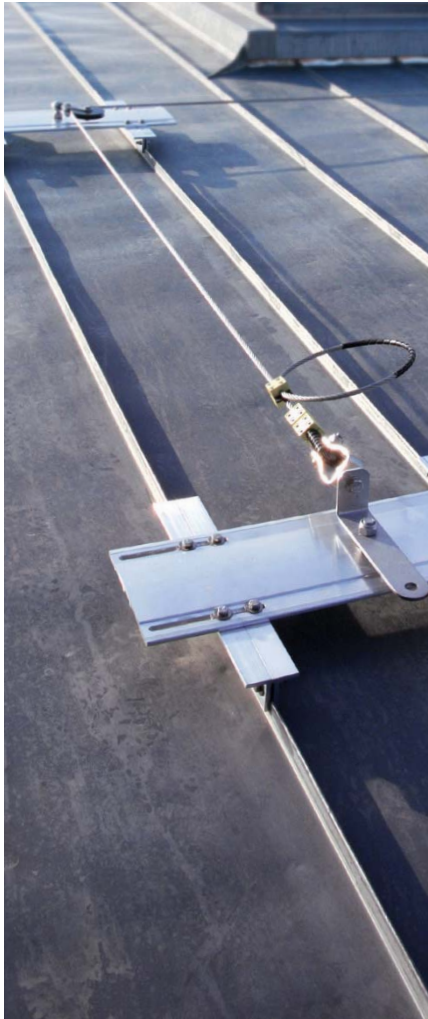
HORIZONTAL LIFELINE SYSTEM



Pre-Assembled Lifeline System Kits

PRE-ASSEMBLED LIFELINE SYSTEM KITS

Sturzsicherungen /// experts in safety systems



Code LIFELINE KIT

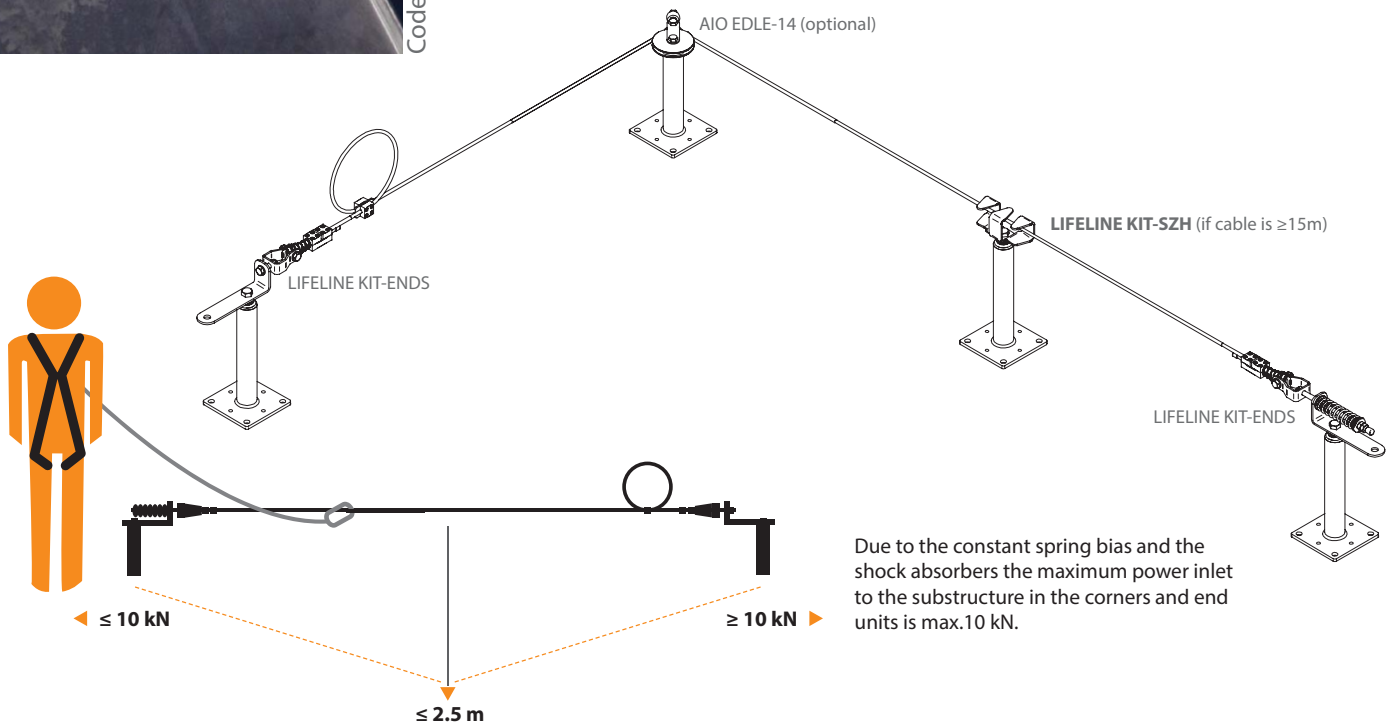
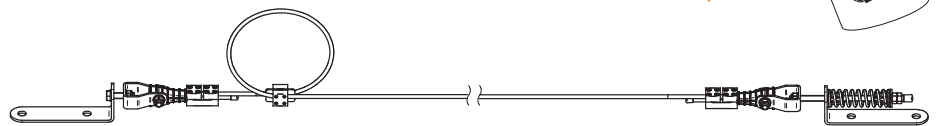
For almost all applications, for example: suitable for industry, roof and facade, and compatible with all Innotech components. When assembled correctly, the combination of spring pre-load and shock absorbers reduces the force of a fall on the end and corner units to a maximum of 10 kN.

The Lifeline KIT is very easy to transport, to install and to check for the annual inspections. The system consists of an 8 mm stainless steel cable which is fastened with two end units. The connection to the system occurs via karabiner.

PRODUCT FEATURES

- Pre-assembled quick install lifeline kits available in a bucket.
- Available in lengths of 10/15/25m.
- Minimal levels of involvement required during installation.
- Easy to inspect.
- Integrated pre-load springs and shock absorber reduces the forces of a fall to a maximum of 10kN.

PRE-ASSEMBLED LIFELINE SYSTEM KITS	
Part No.	Description
LIFELINE KIT-10	Pre-assembled Horizontal Lifeline System - 10m Length
LIFELINE KIT-15	Pre-assembled Horizontal Lifeline System - 15m Length
LIFELINE KIT-25	Pre-assembled Horizontal Lifeline System - 25m Length



TEMPORARY FALL ARREST SYSTEM



Temporary Horizontal Lifeline System

TEMPORARY HORIZONTAL LIFELINE SYSTEM



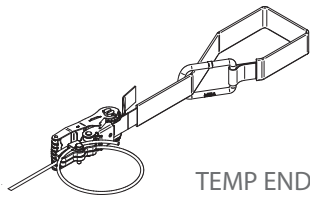
Mobile horizontal lifeline system which can be adapted to various base structures. The system is mounted on steel or concrete beams with a ratchet system and can be assembled and disassembled quickly and easily.

PRODUCT FEATURES

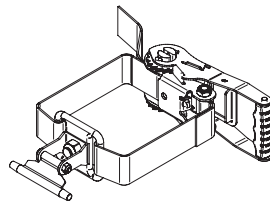
- Heavy duty construction that can be set-up as a temporary or sub-permanent horizontal lifeline system with integrated system shock absorber.
- Rated to a maximum of 4 persons.
- Maximum cable deflection of 2.5m at maximum single span without intermediate brackets of 20m.
- Minimum tools required for install (17mm combination open ring spanner and a 17mm socket and torque wrench).
- Maximum length of horizontal lifeline cable on braked rope drum; 150m.

Code TEMP

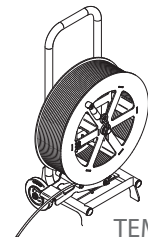
TEMPORARY HORIZONTAL LIFELINE SYSTEM	
Part No.	Description
TEMP	Temporary Horizontal Lifeline System
TEMP ENDS-10	Temporary Horizontal Lifeline System - End Lock Set
TEMP SZH-10	Temporary Horizontal Lifeline System - Intermediate Cable Bracket
TEMP HASPEL	Temporary Horizontal Lifeline System - Mobile Cable Pulley



TEMP ENDS-10



TEMP SZH-10



TEMP HASPEL

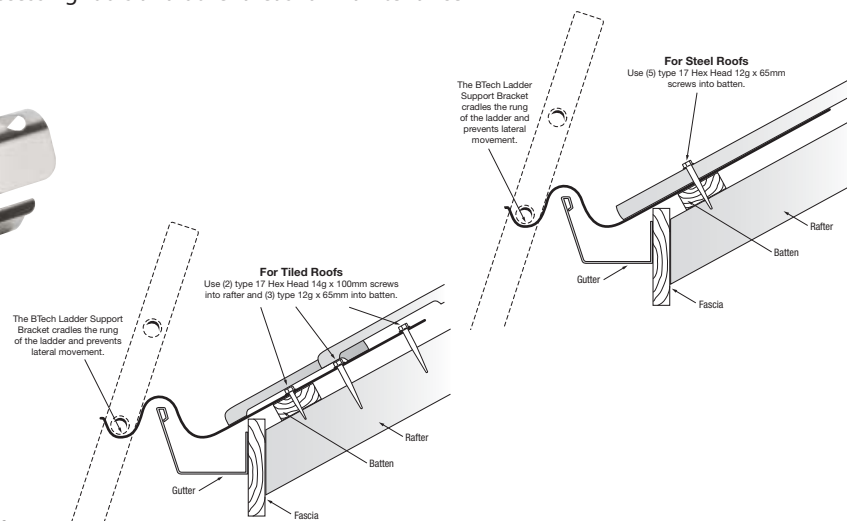
STAINLESS STEEL LADDER SUPPORT BRACKET (Grade AISI 316)

BTECH® Portable ladder anti slip device for personnel accessing roofs and other areas for maintenance



PRODUCT FEATURES

- Ladder Support Bracket is designed to support a ladder, stopping sideways movement and therefore holding the ladder in place safely
- Architecturally inconspicuous
- Low profile installation resulting in no cutting or breaking of roof tiles, eliminating any future water leak problems due to damaged roof tiles
- Designed & manufactured in accordance with requirements of Australian Standards AS1657:1992 and AS/NZS 1891.4:2009 and relevant statutory OH & S Codes of Practice and Guidelines.
- Made from grade AISI 316 Stainless Steel



LADDER SUPPORT BRACKET				
Part No.	Material	Length & width	Weight	Ultimate Strength
BTS0028	Stainless Steel Grade AISI 316	470 x 480 mm	4.20 kg	15kN

LADDER LIFELINE SYSTEMS



BTS Vertical Ladder Lifeline Systems

VERTICLIMB - LADDER CLIMBING LIFELINE SYSTEM

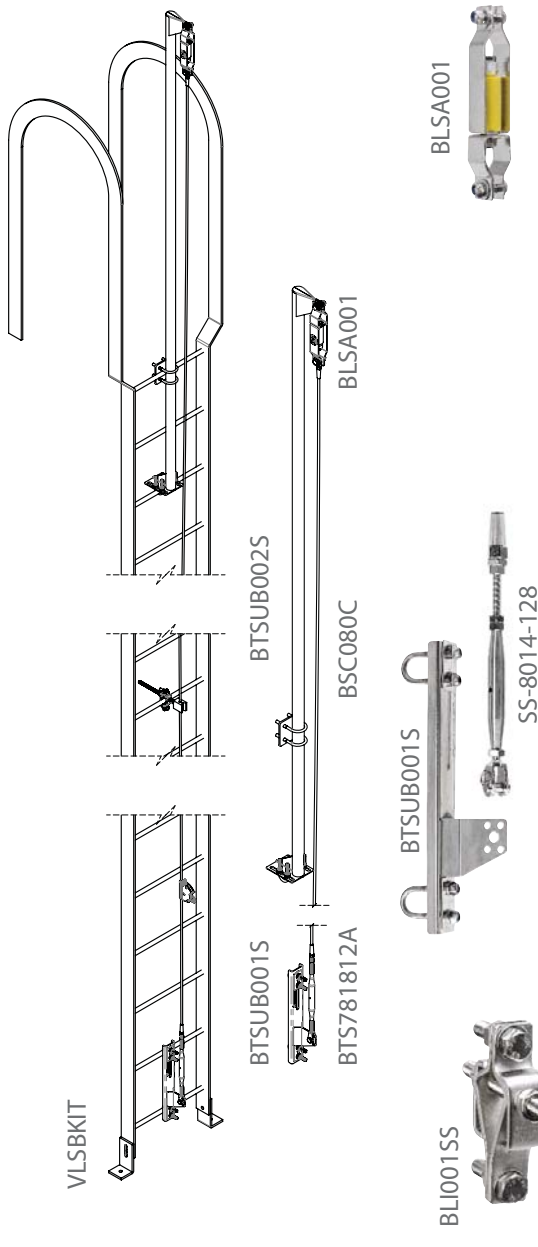
The BTS VertiClimb is a fixed stainless steel wire rope vertical climbing lifeline system that provides 100% Fall Protection from the ground up. Using an easily operated detachable sliding type 1 fall arrester, the user can move up and down the entire system which consists of stainless steel swageless components.

The type 1 fall arrester is designed to grab and lock against the 8mm wire rope the instant a fall begins and reduce the distance of fall to less than 300mm. Once the karabiner is installed, the type 1 fall arrester cannot be unintentionally removed from the cable. The type 1 fall arrester has a built-in mechanism preventing it from operating in the upside down position.

BTS Vertical Safety Climb Cable System is designed to provide fall protection while climbing or descending a variety of ladders or vertical structures. Applications include telecommunication towers, light poles, water towers, hydro electro towers, stacks or any other structure that requires permanently placed climbing protection.

PRODUCT FEATURES

- Hands-free movement up and down a ladder.
- Easy to install components –no swagging required on site.
- Integral Polyurethane Shock Absorber with Overload Indicator reduces the load transferred onto the attaching ladder or structure in the event of a fall.
- All VertiClimber ladder hardware components are manufactured in AISI Stainless Steel Grade 316.
- Can be attached to side or centre of a ladder.
- Detachable Shuttle that allows for removal from system preventing unauthorised access.
- Also available with a 2.5m extension for safe ladder access and egress.
- System designed to secure a maximum of 1 person.



BTS VERTICLIMB PARTS	
Part No.	Description
BLSA001	Stainless Steel Top Shock Absorber with overload indicator
BTSUB002S	Stainless Steel Top Ladder Bracket - Extendable to 2.5m c/w "U" bracket and lock nuts
BTSUB001S	Stainless Steel Shark Fin Bracket to suit top & bottom - Termination required at the bottom end
SS-8014-128	Stainless Steel Swageless Tensioner
BSC080C	8mm Stainless Steel Wire Rope Grade 7 x 7
BTS1008	Stainless Steel Vertical Travelling Rope Grab
BLI001SS	Stainless Steel Intermediate Cable Bracket c/w rubber guide
BTL00160	Shock Absorber Lanyard



TEMPORARY GUARD RAILINGS



Trailer Edge Protection

TRAILER EDGE PROTECTION SYSTEM

The Flat Bed Trailer Edge Protection System is designed to fit and lock between a wide range of truck trailer combing and tie down rails, the design accommodates the vertical movement in a trailer as it is loaded and unloaded.

Each panel is 3.0m long and 2.5m high and with a weight of approximately 15kg which allows the unit to be easily picked up by 2 operators and positioned next to the trailer or on smooth floor surfaces such as warehouses, wheeled over to the truck and locked into position. The system when not in use can be nested within each other so as to not utilise high levels of floor space.

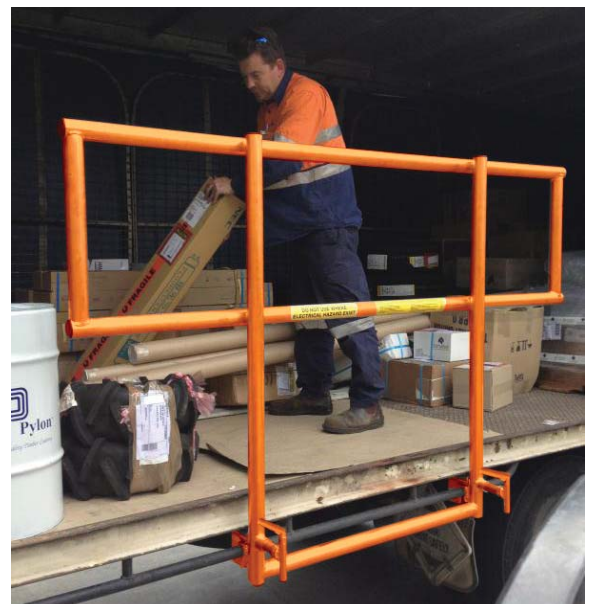


TRAILER EDGE PROTECTION SYSTEM	
Part No.	Description
BTSLJM101	Truck Edge Protection System 3m x 2.5m

TRAILER MINI EDGE PROTECTION SYSTEM

The Flat Bed Trailer Mini Edge Protection System is designed to fit and lock between a wide range of truck trailer combing and tie down rails, the design allows for quick and easy fitting to allow the operator safety when accessing the back of the trucks.

Each panel is 2.0m long and 1.3m high and with an approximate weight of 9kg which allows the unit to be easily picked up by 1 operator and positioned into place. The BTSLMN201 is compliant with relevant Australian Standards as an approved barricade.



TRAILER MINI EDGE PROTECTION SYSTEM	
Part No.	Description
BTSLMN201	Truck Mini Edge Protection System 2m x 1.3m



MOBILE FALL PROTECTION

BTS AirHook MAX Electric / Hydraulic Lifeline Fall Arrest Trailer

BTS AirHook Max Trailer

The AirHook Max Anchor Systems is the solution for workers exposed to fall arrest hazards in industries across the country where traditional products just can't handle the job. This system will increase productivity, reduce lost time, and prevent injuries – all while providing the absolute highest level of fall protection.



MOBILE FALL PROTECTION

BTS AirHook MAX Electric / Hydraulic Lifeline Fall Arrest Trailer

BTS AirHook Max Trailer

PRODUCT FEATURES

- Complies to **AS/NZS 5532:2013** (Australian & New Zealand standard).
- Maximum working overhead anchor point height of 12.6m and with two, 2.3m offset masts, two (2) man rated.
- Self contained 12v Electric/hydraulic system
- Set-up and anchor height adjusting is carried out with easy to follow controls.
- 4 stage telescopic mast, adjustable to 12.6m anchor point height.
- Mast retracts down effortlessly onto the trailer and is securely held in place.
- Takes around 10 minutes to set-up for use and a similar amount of time to lower the unit after use.
- Equipped with electric brakes and a battery operated break-away system.
- The main mast is raised and lowered using an electric (DC) hydraulic pump and valve assembly with built-in hose burst protection reducing any manual handling issues on-site.
- Equipped with manual override to lowering the mast in case of power failure.
- High performance deep cycle battery with built in solar powered and 240v battery charger also charges whilst connected to a suitably wired towing vehicle.
- Put away toolbox for safe storage of harnesses and fall arrestors.
- Multiple lifting points for ease of lifting and storing when shipping equipment around the countryside.
- Heavy duty off road construction for use in rugged and harsh work environments.
- Accessories: Inertia Reels and Inertia Reels with Self Rescue Capability
- Full size spare wheel as standard.

Specifications

Part No.	70726
Ultimate Strength Rating:	Tested to 18kN (statically and dynamically)
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136 kg each
Allowable MAF Rating for SRL's:	4 kN
Height:	Adjustable to 12.6m Max.
Reach:	2.3m
Foot print:	L: 4.2m x W: 2.0m
Weight	3.2T
Anchorage type:	Limited Free Fall Arrest





MOBILE FALL PROTECTION

BTS AirHook Trailer - Electric / Hydraulic Lifeline Fall Arrest Trailer

BTS AirHook Trailer

ELECTRIC/HYDRAULIC LIFELINE FALL ARREST TRAILER

The BTS AirHook TRAILER is a complete overhead fall protection system that complies to Australian & New Zealand standard **AS/NZS 5532:2013** and is mounted on a towable road registered trailer suitable for all road conditions. The AIRHOOK TRAILER provides fall protection for up to two (2) workers, on an overhead anchor point that is easy to set-up. The main mast is raised or lowered using an Electric (DC) / hydraulic pump and valve arrangement.





MOBILE FALL PROTECTION

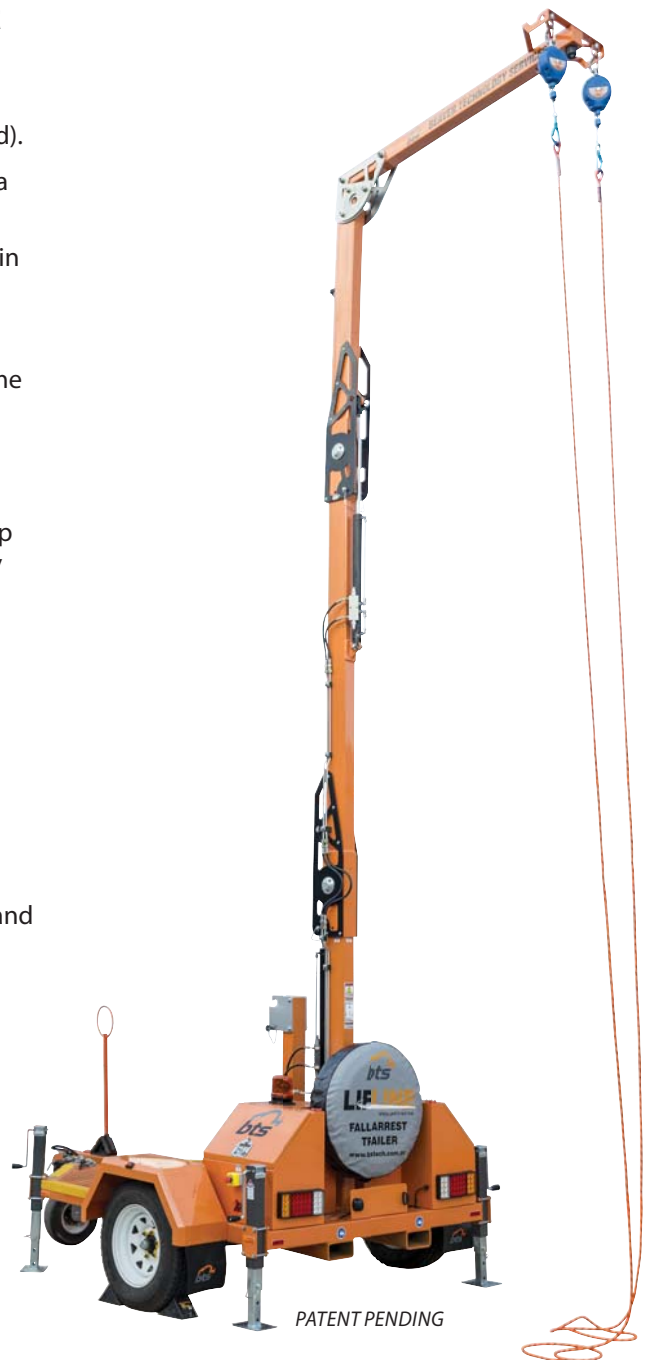
BTS AirHook Trailer -Electric / Hydraulic Lifeline Fall Arrest Trailer

BTS AirHook Trailer

ELECTRIC/HYDRAULIC LIFELINE FALL ARREST TRAILER

PRODUCT FEATURES

- Complies to **AS/NZS 5532:2013** (Australian & New Zealand standard).
- Maximum working overhead anchor point height of 7.0m and with a 1.3m offset mast is two (2) man rated.
- The mast folds down effortlessly into the trailer and is securely held in place.
- Counterweighted for two (2) workers.
- Takes around 5 minutes to set-up for use and a similar amount of time to lower the unit after use.
- Equipped with electric brakes and a battery operated break-away system.
- The mast is raised and lowered using an electric (DC) hydraulic pump and valve assembly with built-in hose burst protection reducing any manual handling issues on-site.
- High performance deep cycle battery with built in 240v battery charger also charges whilst connected to a suitably wired towing vehicle.
- Put away toolbox for safe storage of harnesses and fall arrestors.
- Easy to use friction brake assembly on multi-directional front wheel.
- Forklift tyne pockets for ease of lifting and storing when shipping Stratosphere system around the countryside.
- Grid mesh construction on trailer floor to act as an anti-slip surface and also eliminate any build-up of dirt.
- Heavy duty off road construction for use in rugged and harsh work environments.
- Accessories: Inertia Reels, Inertia Reels with Self Rescue Capability, Inertia Reel with Assisted Rescue feature.
- Full size spare wheel as standard.



Specifications

Part No.	
Ultimate Strength Rating:	21 kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136 kg each
Allowable MAF Rating for SRLs:	4 kN
Height:	7.0m Max.
Reach:	1.3m
Foot print:	L: 4.0m x W: 2.2m
Weight	1.7T
Anchorage type:	Limited Free Fall Arrest



Complies to AS/NZS 5532:2013 (Australian & New Zealand standard)



MOBILE FALL PROTECTION

BTS AirHook Jnr Trailer

BTS AirHook Jnr Trailer

The BTS AirHook Jnr Trailer is a complete overhead fall protection system that is installed on a towable road registered trailer suited for Australian road conditions.

Provides for up to two (2) workers, an overhead anchor point that is easy to set-up. Height adjustable to 6.7m, the main mast of the LFAT is raised or lowered using a hydraulic pump and valve arrangement.





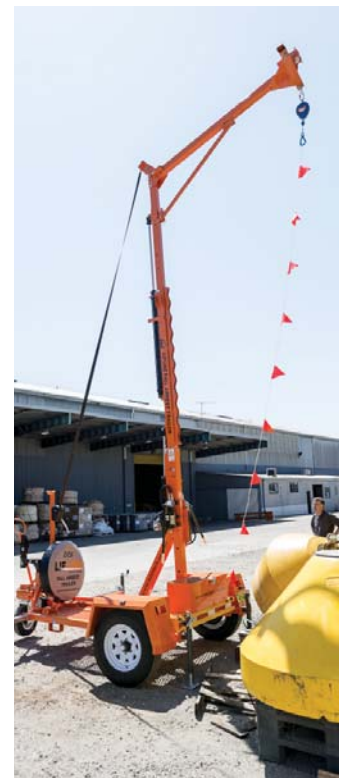
MOBILE FALL PROTECTION

BTS AirHook Jnr Trailer

BTS AirHook Jnr Trailer

PRODUCT FEATURES

- Maximum working overhead anchor point height of 6.7m and with a 1.2 m offset mast, rated for two (2) workers.
- Mast folds down into the trailer and is securely held in place.
- Completely counterweighted with predetermined weight plates for two (2) workers.
- Takes around 5 minutes to set-up for use and a similar amount of time to lower the unit after use.
- Equipped with electric brakes and a battery operated break-away system
- Mast is raised and lowered using a hydraulic pump and valve assembly with built-in hose burst protection reducing any manual handling issues on-site.
- Put away toolbox for safe storage of harnesses and fall arrestors.
- Easy to use friction brake assembly on multi-directional front wheel.
- Certified lifting points and forklift tyne pockets for ease of lifting and storing when shipping LFAT system around the country side.
- Grid mesh construction on trailer floor to act as an anti-slip surface and also eliminate any build-up of dirt.
- Accessories; Inertia Reels, Inertia Reels with Self Rescue Capability, Inertia Reel with Assisted Rescue feature.



Specifications

Part No.	
Ultimate Strength Rating:	18 kN
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 136 kg each
Allowable MAF Rating for SRL's:	4 kN
Height:	6.8 m Max.
Reach:	1.2 m
Foot print:	3.3 m x 3.6 m (Stabilising outriggers extended)
Weight	1.6 T
Anchorage type:	Limited Free Fall



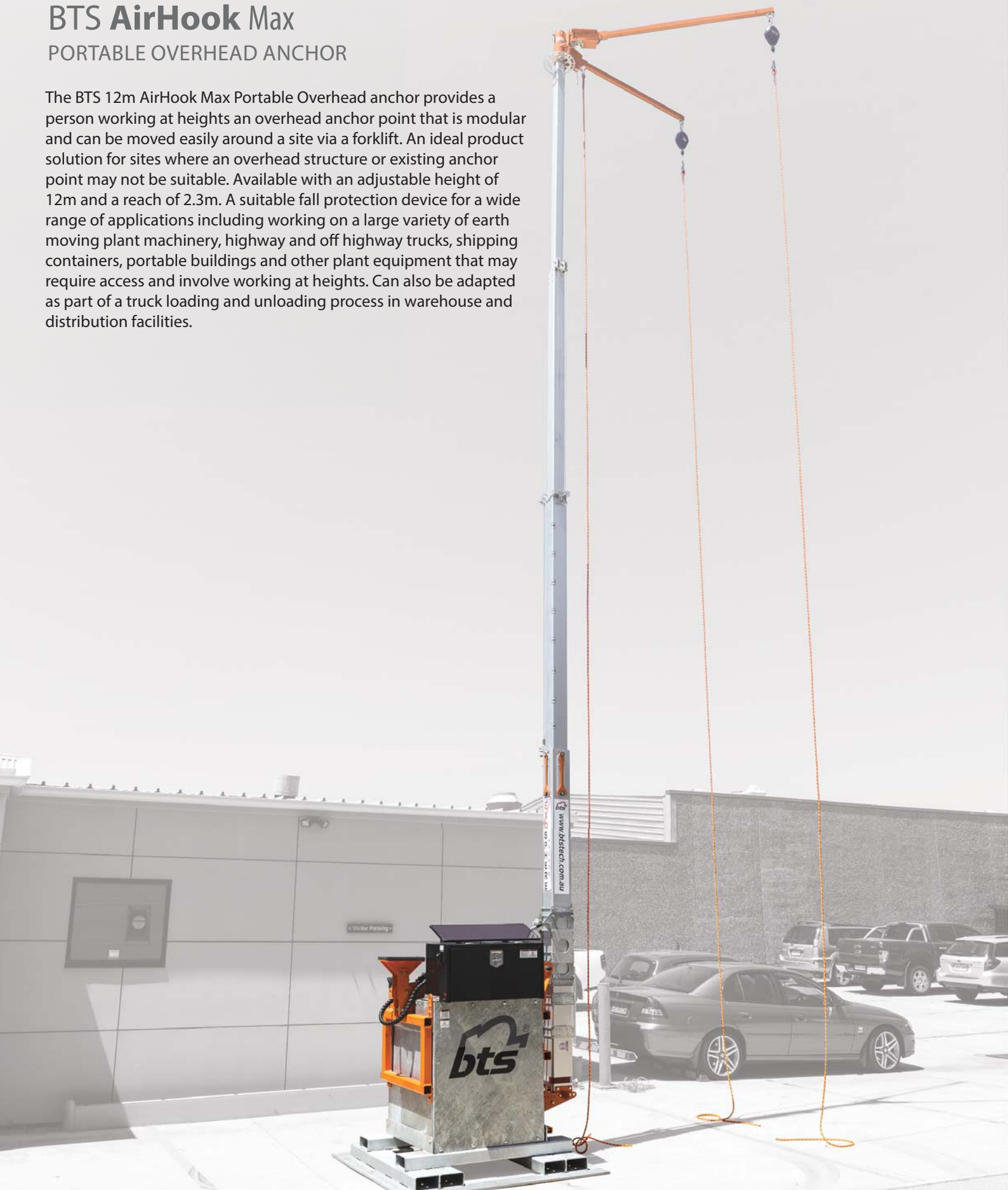
MOBILE FALL PROTECTION

BTS 12m AirHook Max

BTS AirHook Max

PORTABLE OVERHEAD ANCHOR

The BTS 12m AirHook Max Portable Overhead anchor provides a person working at heights an overhead anchor point that is modular and can be moved easily around a site via a forklift. An ideal product solution for sites where an overhead structure or existing anchor point may not be suitable. Available with an adjustable height of 12m and a reach of 2.3m. A suitable fall protection device for a wide range of applications including working on a large variety of earth moving plant machinery, highway and off highway trucks, shipping containers, portable buildings and other plant equipment that may require access and involve working at heights. Can also be adapted as part of a truck loading and unloading process in warehouse and distribution facilities.





MOBILE FALL PROTECTION

BTS 12m AirHook Max

BTS AirHook Max

AUTOMATED HEAVY DUTY HEIGHT SAFETY WITH A SMALL FOOTPRINT

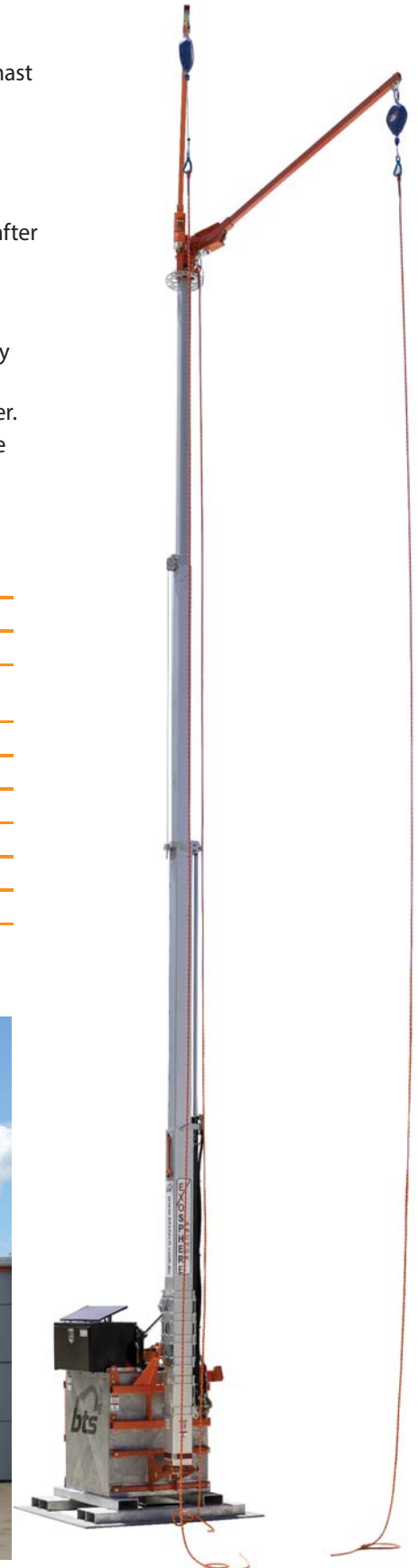
PRODUCT FEATURES

- Complies to AS/NZS 5532:2013 (Australian & New Zealand standard).
- Maximum working overhead anchor point height of 12.0m and with two (2) 2.3m offset mast rated for one (1) worker each.
- Set-up and anchor height adjusting is carried out with easy to follow controls.
- 4 stage telescopic mast, adjustable to 12.0m anchor point height.
- Mast retracts down effortlessly onto the cube base and is securely held in place.
- Takes around 10 minutes to set-up for use and a similar amount of time to lower the unit after use.
- Equipped with safety features including lockable Isolation switch, warning beacon and emergency stop.
- Main mast is raised and lowered using an electric (DC) hydraulic pump and valve assembly with built-in hose burst protection reducing any manual handling issues on-site.
- High performance deep cycle battery with built in solar charging and 240v battery charger.
- Multiple lifting points for ease of lifting and storing when shipping equipment around the countryside.
- Accessories: Inertia Reels and Inertia Reels with Self Rescue Capability.
- Footprint of only 1790mm x 1800mm perfect for work areas with restricted floor space.

Specifications

Part No.	
Ultimate Strength Rating:	18 kN
Capacity (Fall Arrest):	Max. 2 workers <i>weighing not more than 136 kg each</i>
Allowable MAF Rating for SRL's:	4 kN
Height:	Adjustable to 12.0m Max.
Reach:	2.3 m
Foot print:	L: 1.8 m x W: 1.80 m
Weight	4,162 Kg
Anchorage type:	Limited Free Fall

The ERSC is designed with a minimal footprint allowing it to be positioned close to the equipment being accessed all while providing maximum fall protection for the worker. The RSC can be set-up for use by one (1) person in less than ten (10) minutes.



MOBILE FALL PROTECTION

BTS AirHook

BTS AirHook

PORTABLE OVERHEAD ANCHOR

The BTS AirHook Portable Overhead anchor provides a person working at heights an overhead anchor point that is modular and can be moved around a site either via a forklift or hand pallet jack. The AirHook is an ideal product solution for sites where an overhead structure or existing anchor point may not be suitable. Available with an adjustable height of 7.3m and a reach of 3m, the AirHook 3.6 is a suitable fall protection device for a wide range of applications including working on a variety of earth moving plant machinery, highway / off highway trucks, shipping containers, portable buildings and other plant equipment that may require access and involve working at heights. The AirHook can also be adapted as part of a truck loading and unloading process in warehouse and distribution facilities.

The 7m AirHook is designed with a minimal footprint allowing it to be positioned close to the equipment being accessed, providing maximum fall protection for the worker and can be set-up for use by 1 person in less than 5 minutes.

(See next page for details)





MOBILE FALL PROTECTION

BTS AirHook

BTS AirHook

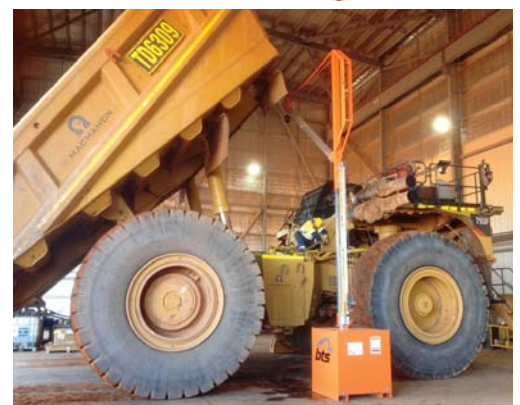
PRODUCT FEATURES

- Powder coated and galvanised steel finish complete with internal concrete and steel counterweights.
- Overhead anchorage point for personnel fall arrest.
- Ergonomically designed brake hand winch for raising and lowering vertical mast.
- Compact and counterweighted base that can be moved by forklift or hand pallet jack.
- Counterweighted base has a footprint of 1.1m.
- Height adjustment of mast from 4.5m to 7.2m.
- Offset mast of 3m from central vertical mast.
- Product weight of 3.6T.
- Mast rotates 360° and can be locked every 22°
- In-built visual overload and fall arrest indicators that identify if the AIRHOOK MAX has been exposed to fall arrest forces or accidental misuse.
- Available in Horizontal Rail configurations (as shown) to suit overhead rail application for up to two (2) workers.
- Rated for (2) workers when two cubes are used in tandem and with an optional BTECH Rail & Trolleys.
- Optional accessories include: Tow Hitch Dolly, 5T Hand Pallet Jack, Inertia Reels, Inertia Reel with Self Rescue Capability.



Specifications

Part No.	
Ultimate Strength Rating:	12 kN (18 kN with Rail)
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 136 kg (Max. 2 workers weighing not more than 136 kg each with Rail)
Allowable MAF Rating for SRL's:	4 kN
Height:	4.5 m Min. 7.0 m Max. (11m Model Now Available)
Reach:	3 m
Foot print:	1.1 m x 1.1 m
Weight	3.6 T
Anchorage type:	Limited Free Fall





MOBILE FALL PROTECTION

BTS AirHook Lite

BTS AirHook Lite

PORTABLE OVERHEAD ANCHOR

The AirHook Lite is an all-encompassing mobile overhead fall protection anchor point that can be easily moved around a site to suit both working at heights and working in confined space applications.

For confined space application, the AirHookLite can be fitted with a Type 3 Inertia Reel c/w Recovery Winch via a diversion sheave to allow workers to be safely lowered and raised out of a confined space and in the case of emergency, the worker can be retrieved quickly out of the same area. 360degree swivel allows for the injured person to be rotated away from the confined space entry and moved across to ground level for any 1st aid requirements

(See next page for details)





MOBILE FALL PROTECTION

BTS AirHook Lite

BTS AirHook LITE

PRODUCT FEATURES

- Lightweight powder coated & galvanised steel finish with internal concrete & steel counterweights
- Over height anchorage point for personal fall arrest systems
- Can be installed with inertia reel c/w recovery handle to allow for safe access & egress into a confined space and in the case of emergency, quick extraction
- Winch for raising and lowering vertical mast
- Counterweighted base with integrated forklift tine pockets and pallet-jack pockets for ease of mobility
- Built in visual overload fall indicator
- Counterweighted base has a footprint of 1.2 x 1.2 m
- Height adjustment of mast from 4.7m to 7.2m
- Offset mast of approx. 3.0mtrs from central vertical mast
- Tested, certified and meets Australian Standard requirements AS/NZS1891.4 & AS/NZS5532



Optional Rescue Kit

Easily moved with forklift or pallet truck



Specifications

Part No.	
Ultimate Strength Rating:	12 kN
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 136 kg
Allowable MAF Rating for SRLs:	4 kN
Height:	5.0 m Min. 7.5 m Max.
Reach:	3 m
Foot print:	1.2 m x 1.2 m
Weight	2.7T
Anchorage type:	Limited Free Fall



OVERHEAD RAIL SYSTEMS



BTS Mobile B-Rail Systems

BTS Mobile B-Rail

The BTS B-RAIL allows you to place mobile overhead anchor points where you need them in your workplace. These systems slide into position over equipment or other equipment being accessed, and provide ground-up fall protection for your elevated work activities. The built in horizontal rail affords the simplicity of a rail-and-trolley system while allowing users a full range-of-motion over the work area, keeping your workers safe without interfering with their jobs.





OVERHEAD RAIL SYSTEMS

BTS Mobile B-Rail Systems

BTS Mobile B-Rail SYSTEMS

PRODUCT FEATURES

- Versatility, The BTS B-Rail can be utilised over a variety of equipment, vehicles and structures.
- Mobility, Engineered for easy transportation and mobility
- Lightweight, Easily moved by hand



8.2m Dual Rail
Code: 70148

Fully framed rail trolleys for maximum stability

Optional side stabiliser package

Extended outriggers with bracing

Optional Tow Bar package

Dual system allows up to 4 people to work simultaneously

4.8m Single Rail
Code: 70146

Double beam construction for maximum durability

Two man rated rail trolleys for anchorage of a personal fall arrest system (PFAS)

4.8m Dual Rail
Code: 70147

4.5m Single Rail
Code: 70145

Height

Length

Width

Wheels lift and stow when system is in use



Available with Pneumatic Wheels for outside use or Urethane Wheels for indoor use.

Specifications

Model	Width (W)	Length (L)	Height (H)	Rail	Wheels*	Code #
4.5 Single Rail	3.65	4.75	4.87	1	U	70145
4.8 Single Rail	3.65	4.87	5.48	1	U	70146
4.8 Dual Rail	3.65	4.87	5.48	2	P	70147
8.2 Dual Rail	4.36	8.23	6.70	2	P	70148

*U - Urethane

P - Pneumatic



STAIR SYSTEMS

BTS AirStair Free Standing Access Stair System

BTS AirStair

FREE STANDING ACCESS STAIR SYSTEM

The AirStair Free Standing Access Stair System is ideal for use within the aviation industry as an overhead fall protection package in maintenance environments where engineers are constantly combating the issue of finding a solution for safe means of access and egress whilst working with a variety of aircraft with varying heights.





STAIR SYSTEMS

BTS AirStair Free Standing Access Stair System

BTS AirStair

FREE STANDING ACCESS STAIR SYSTEM

PRODUCT FEATURES

Complies to AS/NZS 1891

complies to the relevant sections of the standards and specifications listed below: AS/NZS1891.3 – Industrial Fall Arrest systems and devices – Fall arrest devices AS/NZS1891.4 – Industrial fall-arrest systems and devices - Selection, use and maintenance

- The AIRSTAIR provides two (2) users with a portable means of accessing areas on multiple aircraft types via a full stairway set-up and provides overhead fall protection when working on the aircraft (from the ground to the work area).
- Adjustable outriggers enlarge the base footprint to stabilize and level the AIRSTAIR when in use and retract into the base of the stair to create a small and mobile unit for towing and transportation.
- Components are resilient to Skydrol and other aggressive chemical agents.
- Hi-visibility day & night tape as per IATA requirements – Airport Handling Manual AHM Basic Safety Requirements.
- Counter-weighted so it does not rely on the aircraft body as the support foundation.
- Can be easily maneuvered around a site utilising a tug or similar type of towing vehicle and can be positioned close to the aircraft by two individuals.
- Maximum free fall of 600mm for worker when used in conjunction with an approved inertia reel.



These systems feature a rugged steel base with various wheel options, while the upper structure is constructed of high quality lightweight aluminium tubing. This keeps the center of gravity as low as possible for improved stability during transport, operation and storage. The NEW 750mm wide extruded and punched stair treads are made of aluminium, and feature unique open tread design which prevents build-up of contaminants.



Can be towed up to 5kph



Easily positioned



For more information on this product visit our website: btstech.com.au or Call: +61 2 8811 3500

STAIR SYSTEMS



BTS AirStair Free Standing Access Stair System

BTS AirStair SAFE WORKING ZONE

Figures 2a & 2b show the safe working zones for AIRSTAIR with the Umbrella Fall Protection (UFP)

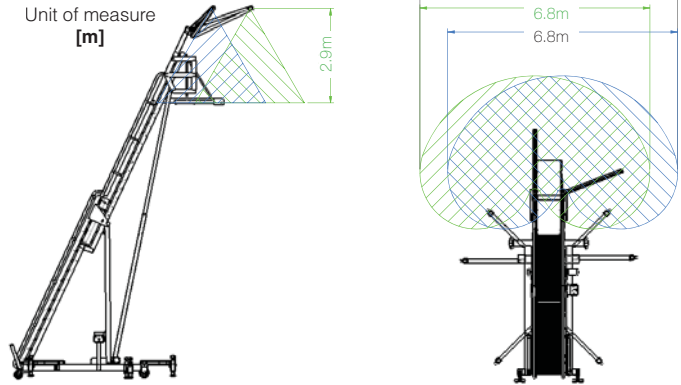
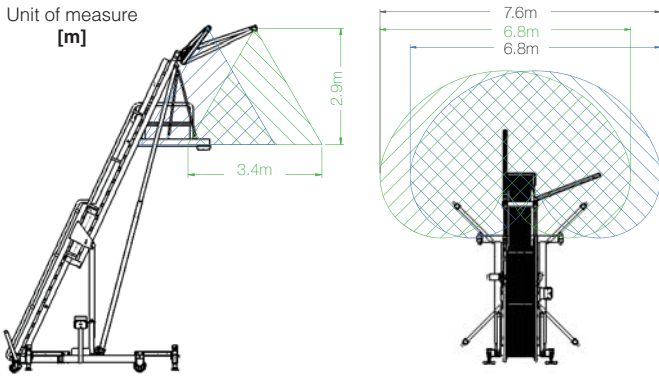


Figure 2a Typical **Safe Working Zone** for fall protection Code: 703357

Figure 2b Typical **Safe Working Zone** for fall protection Code: 704884

BTS AirStair 703357

Two person fall arrest stair system

- Platform height 3300 mm to 5700 mm
- Swivel arms to maximize safe working area.
- SRL protection while climbing step ladder.
- 750mm wide aluminium step ladder.
- Electric motor driven by 12V battery to raise and lower the platform.
- Heavy duty stabilizing jack.

Yellow strip mounted to the edge of access platform

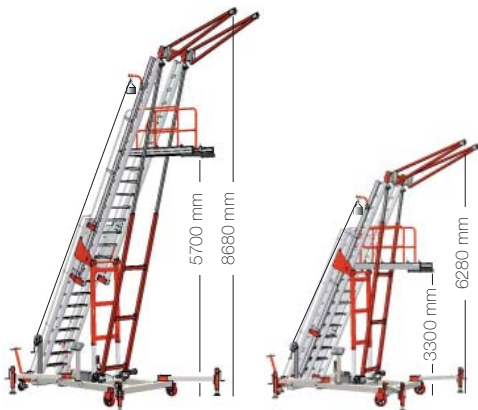
Serrated profile aluminium steps 750mm wide & platform.

2 x Single person limited free fall anchor points

Anchor point arms swivel 90 deg.out and 70 deg in

Lifting jib to winch up 10kg using material winch mounted at the base of the step ladder (optional)

Rubber bumper mounted below access platform



Control panel

Hand winch for lifting tools W.L.L. 10kg (optional)

Rubber handles

Shock absorbing Casters

Linear Actuated ladder platform support

Electric motor with 12v battery

12" Polyurethane Steel wheels

Heavy duty stabilizing jacks

BTS AirStair 703357 Unit is designed with a mechanical option to fold down to an overall height clearance of 4.2m.

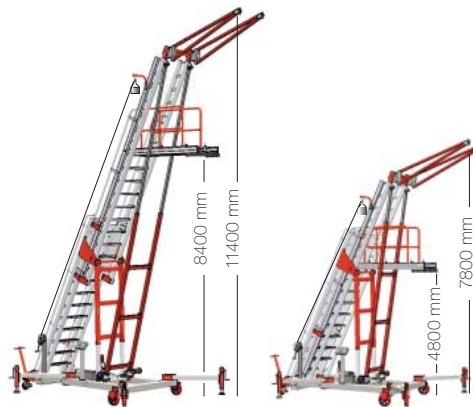
BTS AirStair 703357 is operated via a control panel and electrical motor connected to its own 12V battery powered supply.

Optional winch & tool's basket can be installed to lift 10kg of equipment up to the top platform, eliminating the need to carry tools up the step ladder.

BTS AirStair 704884

Two person fall arrest stair system

- Platform height 4800 mm to 8400 mm
- Swivel arms to maximize safe working area.
- SRL protection while climbing step ladder.
- 750mm wide aluminium step ladder.
- Electric motor driven by 12V battery to raise and lower the platform.
- Heavy duty stabilizing jack.



BTS AirStair 704884 is operated via a control panel and electrical motor connected to its own 12V battery powered supply.

Optional winch & tool's basket can be installed to lift 10kg of equipment up to the top platform, eliminating the need to carry tools up the step ladder.

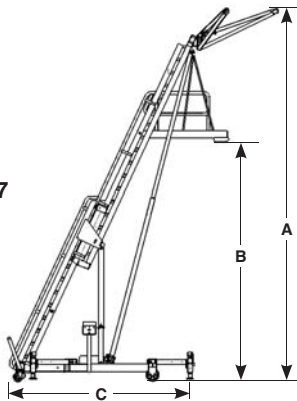
STAIR SYSTEMS



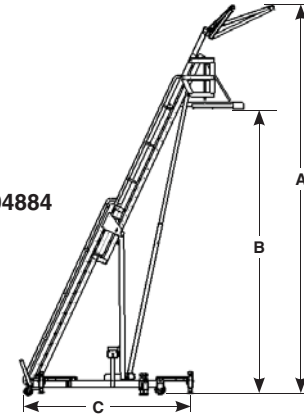
BTS AirStair Free Standing Access Stair System

BTS AirStair SPECIFICATIONS & AIRCRAFT HEIGHT

Code: 703357



Code: 704884



Part No.	Retracted Height (A)	Extended Height (A)	Platform Height (B)		Base Length (C)	
			Min.	Max.	Retracted	Extended
703357	6.3m	8.7m	3.3m	5.7m	3.5m	4.2m
704884	7.8m	11.4m	4.8m	8.4m	4.1m	4.9m

Aircraft Model 747-400	Height
(1) Fuselage	9.8m
(2) Wing Tip	5.1m
(3) Wing / Fuselage	4.7m
(4) Tail Plane	8.0m
(5) Engine Nacelle	4.8m

Aircraft Model A380	Height
(1) Fuselage	10.7m
(2) Wing Tip	7.5m
(3) Wing / Fuselage	5.3m
(4) Tail Plane	7.5m
(5) Engine Nacelle	6.2 / 7.0m

Aircraft Model 787-800	Height
(1) Fuselage	7.6m
(2) Wing Tip	7.2m
(3) Wing / Fuselage	2.5m
(4) Tail Plane	6.7m
(5) Engine Nacelle	4.4m

Aircraft Model A350-900	Height
(1) Fuselage	8.5m
(2) Wing Tip	6.6m
(3) Wing / Fuselage	3.41m
(4) Tail Plane	7.64m
(5) Engine Nacelle	4.6m

Aircraft Model 777	Height
(1) Fuselage	8.3m
(2) Wing Tip	7.0m
(3) Wing / Fuselage	4.8m
(4) Tail Plane	7.5m
(5) Engine Nacelle	5.0m

Aircraft Model A330-300	Height
(1) Fuselage	5.6m
(2) Wing Tip	6.4m
(3) Wing / Fuselage	4.0m
(4) Tail Plane	7.5m
(5) Engine Nacelle	4.3m

Aircraft Model 767	Height
(1) Fuselage	7.2m
(2) Wing Tip	4.9m
(3) Wing / Fuselage	4.5m
(4) Tail Plane	5.8m
(5) Engine Nacelle	4.6m

Aircraft Model A320	Height
(1) Fuselage	4.1m
(2) Wing Tip	4.0m
(3) Wing / Fuselage	3.5m
(4) Tail Plane	5.4m
(5) Engine Nacelle	3.0m

Aircraft Model 737 - 800	Height
(1) Fuselage	5.6m
(2) Wing Tip	3.9m
(3) Wing / Fuselage	3.2m
(4) Tail Plane	5.6m
(5) Engine Nacelle	3.1m

Aircraft Model 737 - 800 With Winglets, BBJ2	Height
(1) Fuselage	5.6m
(2) Wing Tip	4.3m
(3) Wing / Fuselage	3.2m
(4) Tail Plane	5.6m
(5) Engine Nacelle	3.1m

Specifications and Dimensions are subject to change without notice. Note: all above dimensions are approximate only

STAIR SYSTEMS

BTS AirStep Engine Cowl Maintenance Stairs

BTS AirStep



The BTS AirStep Engine Cowl Maintenance Stairs are designed with user safety in mind when accessing at heights work activity around aircraft engines. With a wide ranging level of height and angle adjustment allows for the AirStep Engine Cowl Maintenance Stairs to be positioned close to aircraft engines so as to cover a greater work area with both open and closed engine cowls. Built-in fall protection anchors on both sides of the stairs allows users to connect onto the same so as to work in restraint and prevent any falls from heights.

The AirStep Engine Cowl Maintenance Stairs can be used on all different aircraft engines models including Trent, General Electric, Pratt & Whitney, Rolls Royce across many different aircraft models from both Airbus, Boeing and others. Areas such as main engine, nose & fan cowls plus pylon disconnect zones can be reached safely and with ease when using the AirStep Engine Cowl Maintenance Stairs.

Designed, tested and certified to AS1892.1, AS5532 & EN ISO 14 122

PRODUCT FEATURES

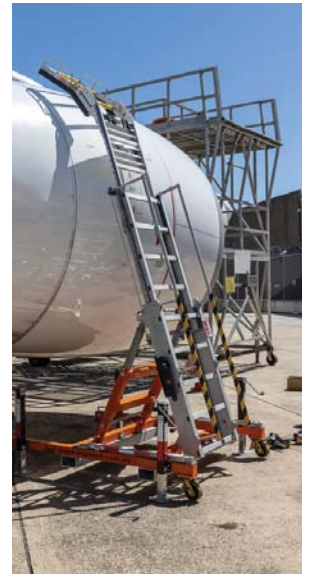
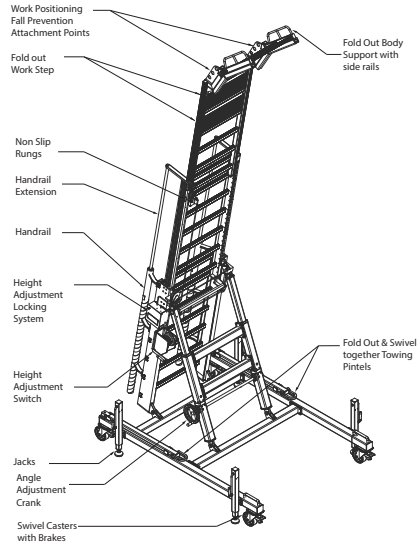
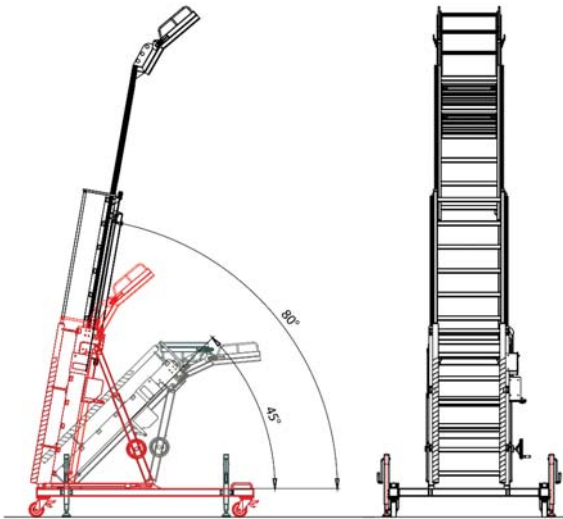
- Available in two models to allow reach of working heights of 1.5mtrs to 5.1mtrs
- Allows uninterrupted access to the top and underside of the cowl covers for engine access
- Built-in working at heights fall restraint protection
- Manufactured in a combination of high-strength 6061-T6 aluminium and steel base to maintain overall lightweight for ease of movement in and out of hanger environments
- Anti-slip ergonomic step rung ladder construction so as to provide maximum comfort when accessing the stands
- Heavy padded bumpers applied in all areas where accidental contact with aircraft component could occur
- Double locking assembly prevents accidental movement and/or sliding of the stair rungs when in use
- Braked and swivel castors on all legs for moving with outrigger jacks for added support when being using around aircrafts



STAIR SYSTEMS

BTS AirStep Engine Cowl Maintenance Stairs

BTS AirStep SPECIFICATIONS



Model Number: BTS7564

Provides access to under and over cowling for various aircraft including B717, B767, A310, A320 & A330.

Specifications

Overall Dimension:	L 2.00m x W 1.60m x H 1.56 ~ 4.10m
Base Dimensions:	L 2.00m x W 1.60m x H 3.0m
Lower Ladder:	L 1.31m x W 0.81m
Middle Ladder:	L 0.10m (maximum position) x W 0.71m
Upper Ladder:	L 0.93m (maximum position) x W 0.62m
Product Rating:	1 Person, maximum weight 136kg
Maximum Towing Speed:	10 km/h

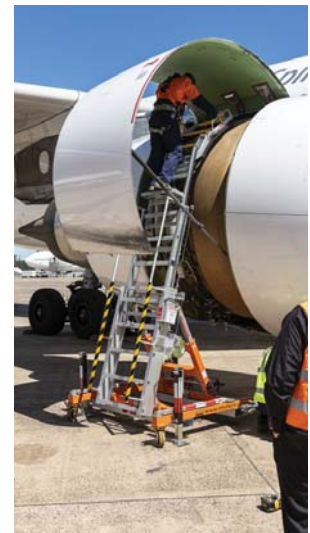


Model Number: BTS7565

Provides access to under and over cowling for various aircraft including B747, B787, B777, A330, A380 & A350

Specifications

Overall Dimension:	L 2.35m x W 1.70m x H 1.69 ~ 5.15m
Base Dimensions:	L 2.35m x W 1.70m x H 0.30m
Lower Ladder:	L 1.65m x W 0.70m
Middle Ladder:	L 1.39m (maximum position) x W 0.63m
Upper Ladder:	L 1.33m (maximum position) x W 0.56m
Product Rating:	1 Person, maximum weight 136kg
Maximum Towing Speed:	10 km/h



STAIR SYSTEMS

BTS AirDeck Mobile Access Stair System

BTS AirDeck

MOBILE ACCESS STAIR SYSTEM

The AIRDECK, Mobile Access Stair System provides a portable means of accessing elevated work areas with a full stairway versus a conventional ladder.

The stair-step ladder design provides safe access to and from work areas while carrying tools. A wide variety of options including railing, cages and anchor structures provide ground-up fall protection for your elevated work activities. Depending on the options, the AIRDECK can provide safe access to elevated work surfaces from 1.77m to 4.72m.





STAIR SYSTEMS

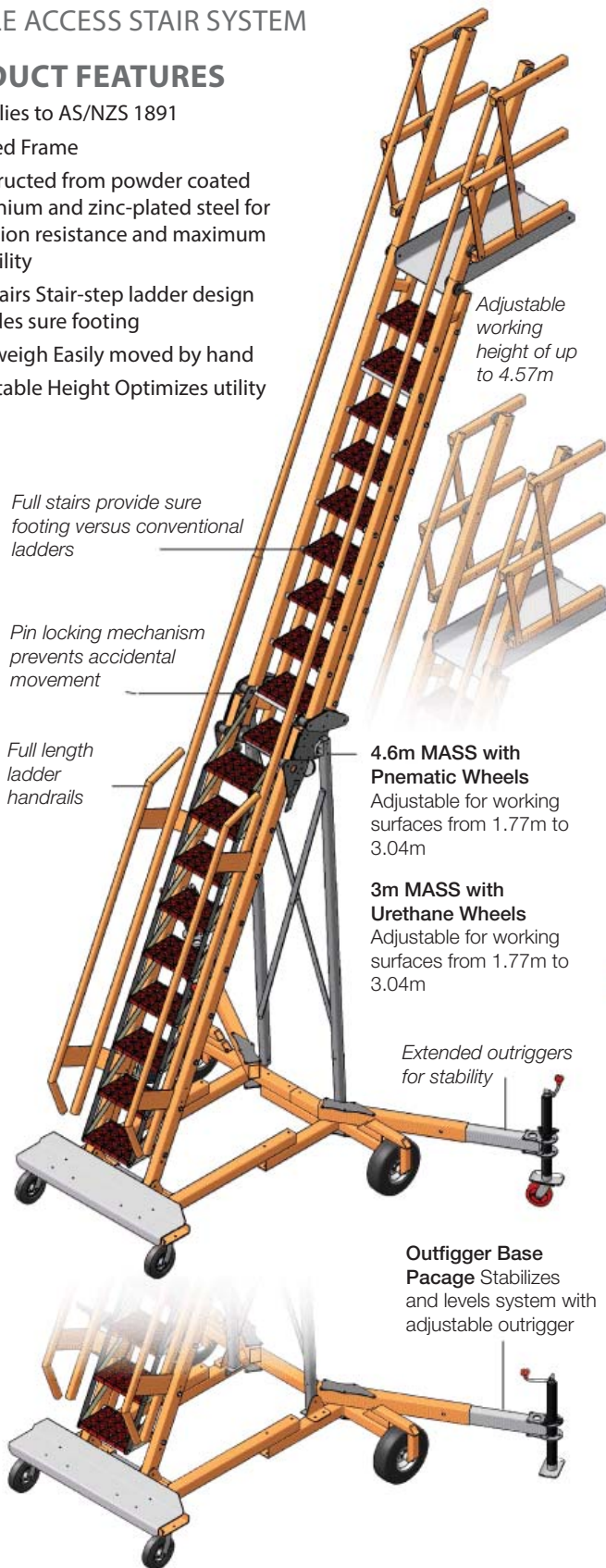
BTS AirDeck Mobile Access Stair System

BTS AirDeck

MOBILE ACCESS STAIR SYSTEM

PRODUCT FEATURES

- Complies to AS/NZS 1891
- Rugged Frame
- Constructed from powder coated aluminium and zinc-plated steel for corrosion resistance and maximum durability
- Full Stairs Stair-step ladder design provides sure footing
- Lightweigh Easily moved by hand
- Adjustable Height Optimizes utility



Full stairs provide sure footing versus conventional ladders

Pin locking mechanism prevents accidental movement

Full length ladder handrails

Adjustable working height of up to 4.57m

4.6m MASS with Pnematic Wheels
Adjustable for working surfaces from 1.77m to 3.04m

3m MASS with Urethane Wheels
Adjustable for working surfaces from 1.77m to 3.04m

Extended outriggers for stability

Outfiger Base Pacage Stabilizes and levels system with adjustable outrigger

Pneumatic Wheels for outside use, asphalt surfaces and long distances.



Urethane Wheels for indoor use, clean areas or painted floors.



Davit Anchor Points
Provides Two (2) davit anchor points allowing harnessed users to safely work at height.



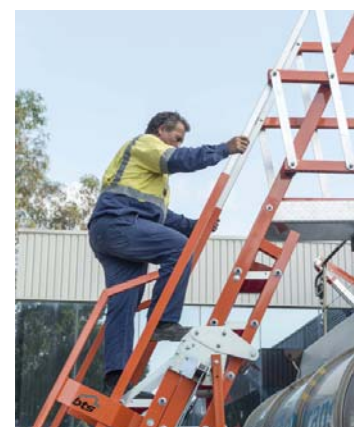
1.8m Cage Package
Provides work area fall restraint hand railing.



3m Horizontal Rail with Travelling Anchor point
Provides a harnessed user hands free fall protection to an extended work area.



Tripod Package
with confined space entry winch that centres on cage for confined space entry or rescue.





DOCKING / SERVICING

BTS AirDock / Servicing Platforms

BTS AirDock / SERVICING



BTS provides mobile and stationary access systems to suit various requirements for numerous industries; aircraft service and deep maintenance, heavy vehicle, rail, manufacturing plant access & mining just to name a few.

Design dependent, BTS structures are constructed entirely from lightweight aluminium or steel, or combination of both. Mobile structures are manufactured lightweight for ease of maneuverability. Covering of the platforms and walkways can be supplied in either coated plywood panels or gratings. BTS can provide turn-key solutions from design and fabrication to installation and commissioning, through our experienced team of dedicated design engineers and installers. BTS works closely with customers to ensure design brief can be met, produced and installed, providing most ergonomic, cost competitive and applicable standards compliant working environment. BTS prides itself in designing products to follow requirements of appropriate standards and testing regime required.

BTS takes guidance from the following Australian and International standards:

- AS1657-2013 "Fixed platforms, walkways, stairways and ladders – Design construction and installation"
- AS/NZS 4994.1 – 2009 Temporary edge protection Part 1: General requirements
- AS/NZS 5532: 2013 Manufacturing requirements for single-point anchor device used for harness-based work at height
- EN 12312 – 8:2005 (+A1:2009) Aircraft ground support equipment – Specific requirements - Part 8: Maintenance stairs and platforms
- EN 13374:2013 Temporary edge protection systems – Product specification – Test methods
- EN ISO 14122-2:2001 Safety of machinery – Permanent means of access to machinery – Part 2: Working platforms and walkways
- EN ISO 14122-3:2001 Safety of machinery – Permanent means of access to machinery – Part 3: Stairs, stepladders and guard-rails



DOCKING / SERVICING

BTS AirDock / Servicing Platforms

BTS AirDock / SERVICING SYSTEM



The aircraft docking system designed and developed by BTS is divided into 2 types, one for aircraft assembly, which achieved high efficiency, accuracy, and reliability for large components installation. Another one for aircraft maintenance platform, which creates an environment for convenient, reliable and safe aircraft maintenance.

Servicing Platforms are designed to be modular in construction, portable and easy to manoeuvre. BTS product solutions is based predominately around strong but lightweight aluminium structures. Platforms feature a compact design with two flooring options; non-slip coated structural plywood or tread plate aluminium panels. Our system provides guardrail protection around all working platforms without obstructing the servicing process. The entire structure consists of individual mobile platforms which are easily movable and connected. Each platform can be used independent of another when necessary and provide the same level of perimeter safety during maintenance process. The platforms are height adjustable to carry out work with the aircraft's landing gear on or off the ground.

PRODUCT FEATURES

- Purpose built platforms are designed to be easily positioned under the plane's designated work area
- Modular platforms are designed for quick assembly and installation
- Engine platforms configuration allows quick set up for propeller rotation, service and removal, while other work can be carried out on the engines and wings
- Platforms servicing engines 2 & 3 are designed to allow lifting tripods be installed or removed while the platforms are in use.
- Pull out panels with protective rubber bumpers allow platforms to contour around plane's body
- Design standard: EN12312-8, ENISO14122, MH/T3012.17-2010, GB17888
- Modular design, easy installation, reduced obstruction to ground movement and walk ways
- The main body is made of high-duty aluminium, which is lightweight, good-looking and has a long service life
- 3D design, tailored to different aircraft models
- Complete functionality including lifting, walking, safety protection, electricity, lighting, fire protection and so on .



Purpose built platforms

Designed to be easily positioned under the plane's designated work area.

Modular platforms are designed for quick assembly and installation.

Engine platforms configuration allows quick set up for propeller rotation, service and removal, while other work can be carried out on the engines and wings.

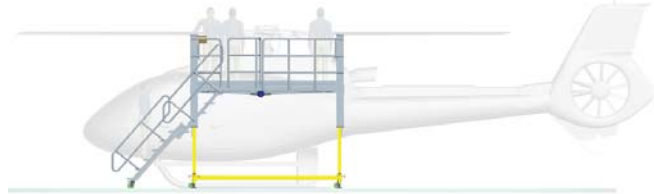
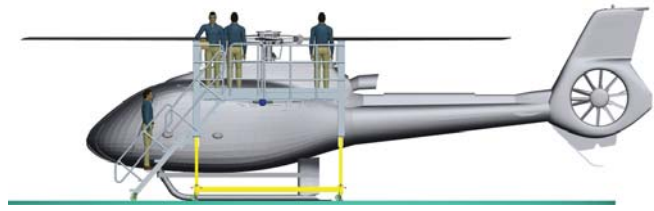
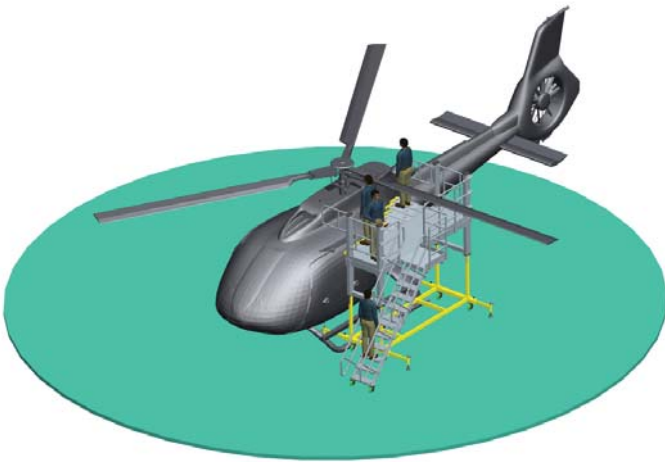


DOCKING / SERVICING



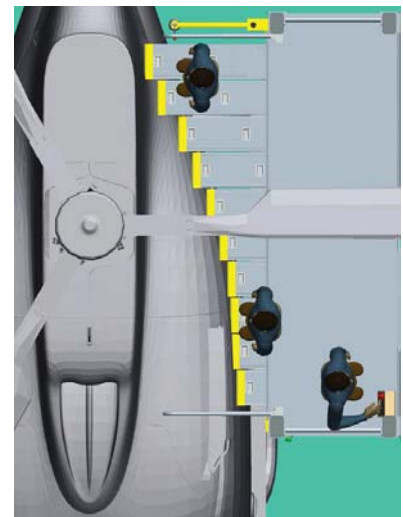
BTS AirDock / Servicing Platforms

BTS AirDock HELICOPTER / MAINTENANCE PLATFORMS



PRODUCT FEATURES

- Modular, easy to assemble/disassemble platform decks.
- Adjustable Decking plates in increments of 500mm wide by 1000mm long with polyurethane bumpers for protection of all surfaces adjust to allow leading edge to match contour of equipment being accessed.
- Individual rubber bumpers protect equipment during adjustment and work activities.
- Platforms of various sizes and shapes may be combined to surround large structures.
- Various heights are available to meet specific application requirements.
- The access system including walkway, guardrail, stairs, ladders, platforms etc.
- BTS provides both engineering design and fabrication.
- Experienced engineering team to offer tailored proposals according to the customers' need.
- Lightweight, good-looking and corrosion resistant.
- Stress and safety factors are considered and analysed during design.



Adjustable Decking plates

500mm wide by 1000mm long with polyurethane bumpers for protection of all surfaces adjust to allow leading edge to match contour of equipment being accessed.



DOCKING / SERVICING

BTS AirDock / Servicing Platforms

BTS AirDock RAIL DOCKING / MAINTENANCE PLATFORMS

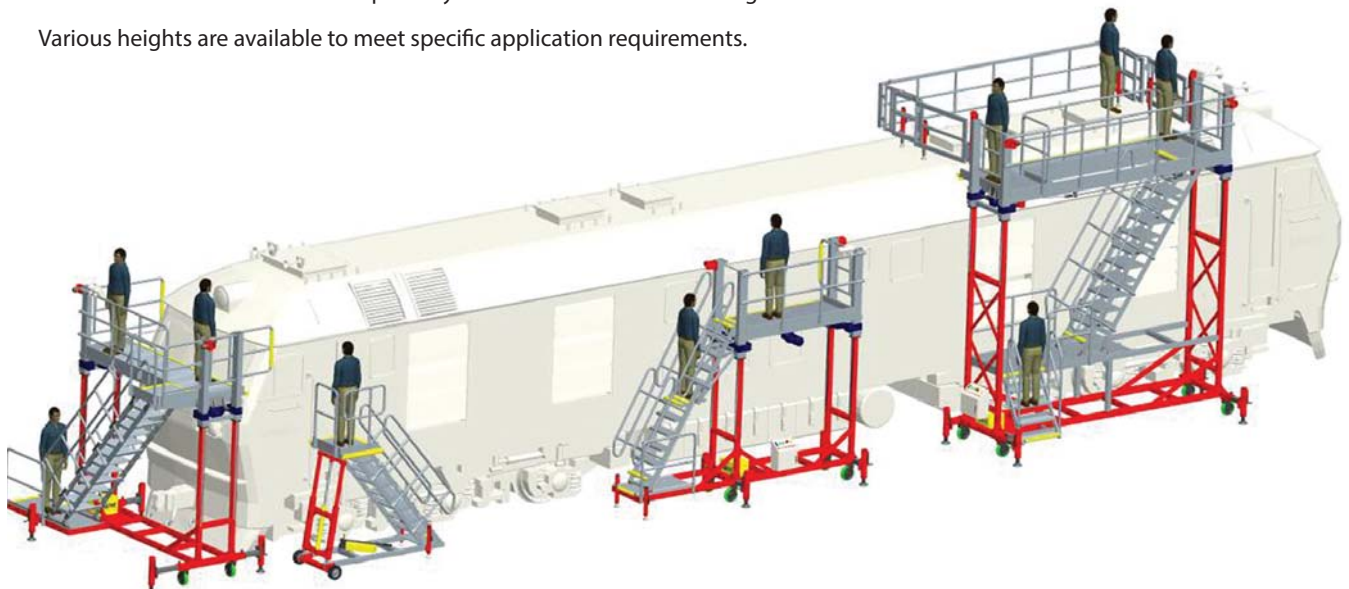


The rail inspection platform system includes either permanent inspection / maintenance platforms or mobile inspection / maintenance platforms or both.

These platforms are widely used in vehicle inspection like high speed train, subway, metro, light train, buses and so on. The platform system allows for complete functionality including lifting, walking, safety protection, electricity supply, lighting, fire protection and so on.

PRODUCT FEATURES

- Modular, easy to assemble/disassemble platform decks.
- Adjustable Decking plates in increments of 500mm wide by 1000mm long with polyurethane bumpers for protection of all surfaces adjust to allow leading edge to match contour of equipment being accessed.
- Individual rubber bumpers protect equipment during adjustment and work activities.
- Platforms of various sizes and shapes may be combined to surround large trains.
- Various heights are available to meet specific application requirements.



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System

BTRENCHSAFE[®] GROUND EXCAVATION & TRENCH SYSTEM

BTRENCHSAFE[®]
Aluminium rescue/retrieval davit c/w winch, steel adjustable barrel davit mount & aluminium equipment storage box
Code: PRO-3-DAVITSHKIT

BTRENCHSAFE[®]
Ladder access fall arrest post kit when entering 3 mtr + excavations
Code: BTS6928-LP-EP

BTRENCHSAFE[®]
Aluminium access/egress Telescopic walkway
Code: BTS6928-TW

BTRENCHSAFE[®]
Steel & Aluminium 2, 2.5, 3, 3.5 & 4m guardrail assembly c/w adjustable clamping devices
Code: BTS6000-2.0 / 3.0 / 4.0



BTRENCHSAFE[®]
Steel edge protection mesh barriers
0.5 x 1 m Code: BTS6000T-0.5EPS
1 x 1 m Code: BTS6000T-11EPS

BTRENCHSAFE[®]
Aluminium heavy duty ladders
Code: B-DES1/0808,
Code: B-DES1/1212,
Code: B-DES1/1616

BTRENCHSAFE[®]
Aluminium access/egress shoring platform
Code: BTS6928-LP

BTRENCHSAFE[®]
Steel adjustable ACME thread clamping devices for guardrails
Code: BTS6003

CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System

BTRENCHSAFE[®] GROUND EXCAVATION & TRENCH SYSTEM

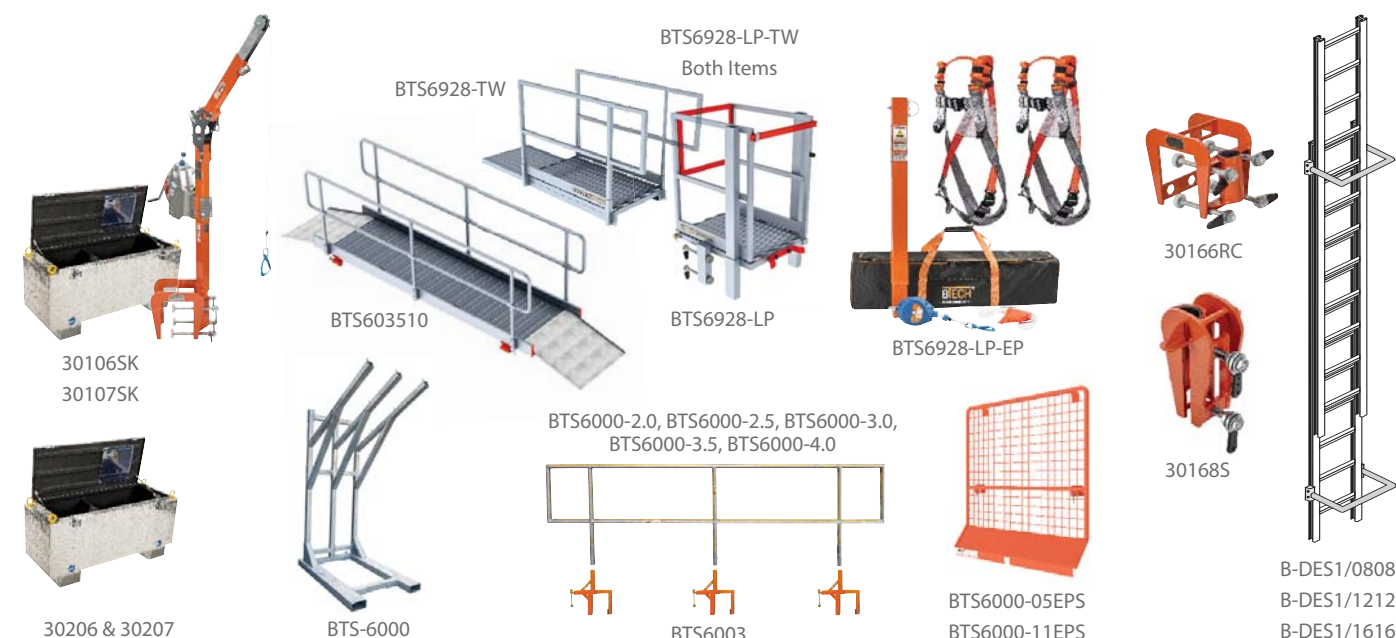
Using the **BTRENCHSAFE**[®] Shoring Solutions, YOUR worksite will be much SAFER and at the same time also allow YOUR site to be COMPLIANT with relevant Codes of Practices for Excavation Work and Working in Confined Spaces.

BTRENCHSAFE[®] SHORING SOLUTIONS

Part No.	Description
30106SK	BTRENCHSAFE [®] Aluminium rescue/retrieval davit (30106) c/w winch, steel adjustable barrel davit mount & aluminium storage box
30107SK	BTRENCHSAFE [®] Aluminium rescue/retrieval davit (30107) c/w winch, steel adjustable barrel davit mount & aluminium storage box
BTS6928-LP-TW	BTRENCHSAFE [®] Aluminium access/egress shoring platform & telescopic walkway
BTS6928-LP	BTRENCHSAFE [®] Aluminium access/egress shoring platform
BTS6928-TW	BTRENCHSAFE [®] Aluminium telescopic walkway
BTS603510	BTRENCHSAFE [®] Aluminium cross over walkway 3.5 x 0.9m c/w guardrails & ramps
BTS6928-LP-EP	BTRENCHSAFE [®] Ladder access fall arrest post kit
B-DES1/0808	BTRENCHSAFE [®] Aluminium heavy duty ladder. Span 2.4 - 4.2m @ approx. 12kg
B-DES1/1212	BTRENCHSAFE [®] Aluminium heavy duty ladder. Span 3.6 - 6.3m @ approx. 17kg
B-DES1/1616	BTRENCHSAFE [®] Aluminium heavy duty ladder. Span 4.8 - 8.7m @ approx. 23kg
BTS6000-2.0	BTRENCHSAFE [®] Aluminium Guardrail assembly c/w adjustable clamping devices x 2.0m
BTS6000-2.5	BTRENCHSAFE [®] Aluminium Guardrail assembly c/w adjustable clamping devices x 2.5m
BTS6000-3.0	BTRENCHSAFE [®] Aluminium Guardrail assembly c/w adjustable clamping devices x 3.0m
BTS6000-3.5	BTRENCHSAFE [®] Aluminium Guardrail assembly c/w adjustable clamping devices x 3.5m
BTS6000-4.0	BTRENCHSAFE [®] Aluminium Guardrail assembly c/w adjustable clamping devices x 4.0m
BTS6000-05EPS	BTRENCHSAFE [®] Steel barrier mesh for Guardrails 0.5 x 1.0m
BTS6000-11EPS	BTRENCHSAFE [®] Steel barrier mesh for Guardrails 1.0 x 1.0m

BTRENCHSAFE[®] ACCESSORIES

Part No.	Description
30206	BTRENCHSAFE [®] Aluminium equipment storage box to suit 30106
30207	BTRENCHSAFE [®] Aluminium equipment storage box LARGE to suit 30107 & 30108 PRO-3G Davits
BTS-6000	BTRENCHSAFE [®] Guardrail storage rack
30166RC	BTRENCHSAFE [®] Steel adjustable barrel davit mount Base (20 - 205mm)
30168S	BTRENCHSAFE [®] Steel adjustable sheet piling davit mount Base (0 - 25mm)
BTS6003	BTRENCHSAFE [®] Steel adjustable ACME thread clamping devices for Guardrails



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Rescue / Retrieval Davit & Storage box

BTRENCHSAFE[®] RESCUE/RETRIEVAL DAVIT C/W WINCH & SHORING PANEL BRACKET CODE: 30106SK & 30107SK

The BTRENCHSAFE[®] Rescue/Retrieval Davit c/w Type 3 SRL & Shoring Panel Bracket is designed to be mounted on trench shoring (steel and aluminium) panels and provides users with a safe means of extraction of personnel out of trenches and ground excavations.

Key Product Features:

Certifications

- All products comply to relevant Australian Standards including AS/NZS5532, AS/NZS1891.4 & relevant Codes of Practice. Products are also certified by a RPEQ for use within Queensland.

Davit

- Manufactured in lightweight ultra strong aluminium grade T6061 and powder-coated in hi-vis orange for increased visibility on sites.
- Built in visual overload fall indicator.
- Multiple adjustable offset reach to allow greater coverage in larger excavations.
- Modular construction with no single components weighing more than 12kgs for ease of movement on a site.
- Available in 1.9 - 2.2m & 2.5 - 2.8m height.

Inertia Reel c/w Recovery Winch mode

- 24mts effective working length.
- Robust aluminium construction.
- Minimal moving parts allowing for reduced chance of equipment damage or component failure due to rough handling on site.

Shoring Panel Bracket

- Steel construction and powder-coated in hi-vis orange for increased visibility on site.
- Adjustable throat opening to accommodate shoring panels with widths of 20mm to 200mm.
- Increased surface area of critical holding points that contacts the aluminium shoring panels to prevent puncture and piercing of panels when in use.



BTRENCHSAFE[®] ALUMINIUM EQUIPMENT STORAGE BOX CODE: 30206 & 30207

The BTRENCHSAFE[®] Aluminium Checker Plate Equipment Storage Box provides companies with an opportunity to safely secure and store high value items from damage when transporting equipment to site.

Key Product Features:

- Tough aluminium checker plate construction to suit the harshest of work sites.
- Innovative design and construction allows for ease of storage and multi-stacking when not in use.
- Integrated forklift pockets.
- Certified lifting points on 4 corners.
- Lockable lid with integral gas struts for ease of raising.
- Padded internal cutaways for storing of high value items.
- Internal pocket to securely store manuals, certificates and pertinent paperwork.
- External metal ID tag to scribe asset and serial numbers.
- Available in 2 size.



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Access/Egress Shoring Platform

BTRENCHSAFE[®] ACCESS/EGRESS SHORING PLATFORM AND TELESCOPIC WALKWAY CODE: BTS6928-LP, BTS6928-TW

The BTRENCHSAFE[®] Access/Egress Shoring Platform and Telescopic Walkway provides multiple users with a safe means of access and egress to and from the ground excavation and allowing users a safe 3-points of contact at all times.

Key Product Features:

Certifications

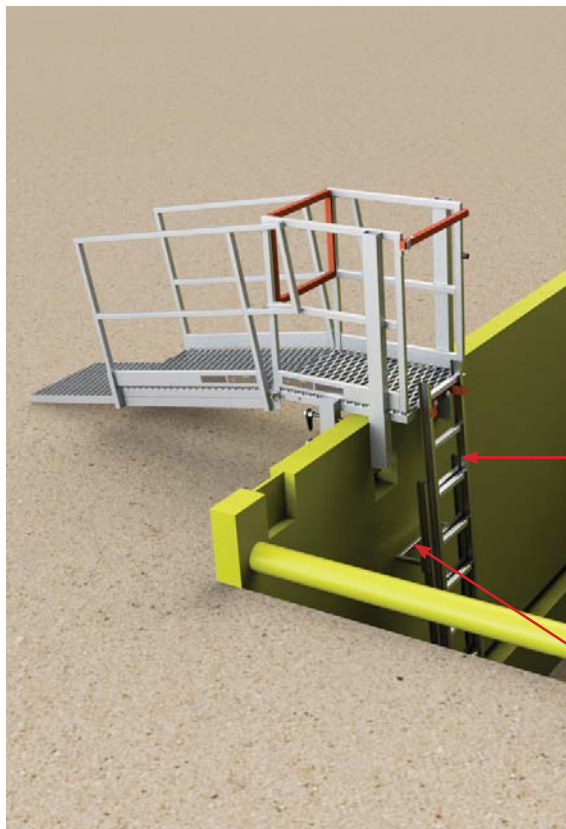
- All products comply to relevant Australian Standards including AS1657 and relevant Codes of Practice. Products are also certified by a RPEQ for use within QLD.

Access/Egress Platform

- Manufactured in lightweight ultra strong aluminium grade T6061 in natural finish.
- Non slip grid mesh floor construction with enlarged profile to minimise build-up of dirt and soil.
- Removable guardrails on two sides.
- Self closing gate.
- Secondary safety bar near excavation side for access and egress.
- To suit panel widths up to 205mm.
- Built-in ladder support bracket for safely securing vertical ladders onto platform.
- Extension ladder can be mounted on side or face of shoring panel (with bumpers to prevent ladder from pushing inwards into panel when in use and at the same time also allows for a greater area of foot contact when ascending/descending on the ladder).
- Optional fall arrest post complete with inertia reel to allow for personal fall arrest system when entering **3mtr+** ground excavations. No need for additional and costly ladder cage to meet Codes of Practices for Excavation Works.

Telescopic Walkway

- Manufactured in lightweight ultra strong aluminium grade T6061 in natural finish.
- Non slip grid mesh floor construction with enlarged profile to minimise build-up of dirt and soil.
- Removable guardrails on two sides
- Adjustable length of 1,240mm to 2,060mm and can be adjusted to a max of 30° for access/egress of platform.



BTRENCHSAFE[®]

Ladder access fall arrest post kit when entering 3 mtr + excavations
Code: BTS6928-LP-EP

Extension ladder can be mounted on side or face of shoring panel.

Ladder bumpers to prevent ladder from pushing inwards into panel when in use and at the same time also allows for a greater area of foot contact when ascending/descending on the ladder.



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Fall Arrest Post Kit & BTS Aluminium H/D ladders

BTRENCHSAFE[®] FALL ARREST POST KIT

CODE: BTS6928-LP-EP

The BTRENCHSAFE[®] Fall Arrest Post Kit consists of an engineered and rated fall arrest post that is designed to slot into either side of the BTRENCHSAFE[®] Access/Egress Shoring Platform, 9mtr inertia reel (x1), safety harness (x2) and safety bunting dropper line all supplied within a rugged hard wearing black canvas bag.

The Kit is designed to be used in conjunction with the BTRENCHSAFE[®] Access/Egress Shoring Platform to allow sites to be compliant with 2014 Safe Work Australia Codes of Practice for Excavations and also 2013 Codes of Practice for Managing the Risks of Falls in Workplace by having an appropriate fall arrest system in place whilst accessing ground excavations.

Certifications

- All products comply to relevant Australian Standards including AS/NZS1891 (parts 1 & 4), AS/NZS 5532, and relevant Codes of Practice. Products are also certified by a RPEQ for use within Queensland.



BTRENCHSAFE[®] ALUMINIUM HEAVY DUTY LADDERS

CODE: B-DES1/0808, B-DES1/1212, B-DES1/1616

The double extension ladder when used in conjunction with the BTRENCHSAFE[®] Access/Egress Shoring Platform provides a safe and secure means of accessing and egressing ground excavations with the added benefit of the user to maintain a 3-points of contact at all times.

Key Product Features:

Certifications

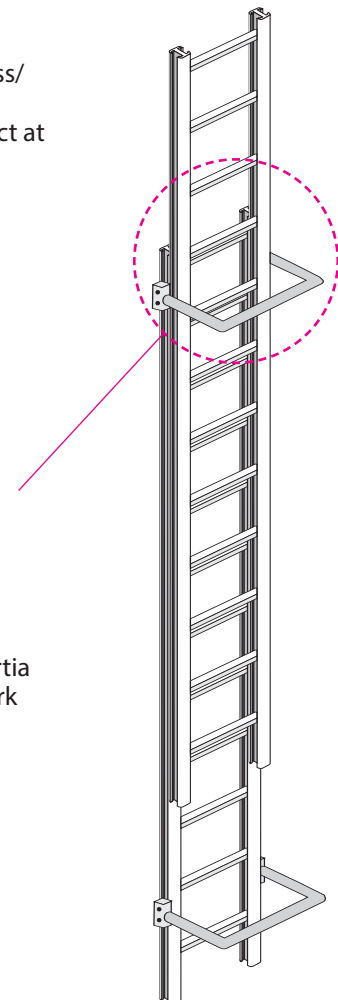
- All products comply to relevant Australian Standard AS/NZS1892.1.

Aluminium Ladders

- Manufactured in lightweight ultra strong aluminium in natural finish.
- Heavy duty surface gripping rubber ends enhance the ladders stability under load.
- Double swaged round rungs.
- 120kg capacity.
- Pre-installed engineered shoring panel bumpers to prevent inward movement of extension ladder when positioned against shoring panel in a vertical position.
- Ladder design allows the extension ladder to be used against a steel or aluminium shoring panel either in a vertical or incline position.
- When used in conjunction with the BTRENCHSAFE[®] optional fall arrest post c/w inertia reel provides for a complete fall arrest system and in accordance with 2014 Safe Work Australia - Codes of Practice for Excavation Works.

Lengths of ladder and approx. weight

- Span 2.4mtr to 4.2mtr @ approx. 12kg
- Span 3.6mtr to 6.3mtr @ approx. 17kg
- Span 4.8mtr to 8.7mtr @ approx. 23kgs



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Aluminium Cross over Walkway

BTRENCHSAFE[®] ALUMINIUM CROSS OVER WALKWAY C/W GUARD RAILS AND RAMPS

CODE: BTS603510

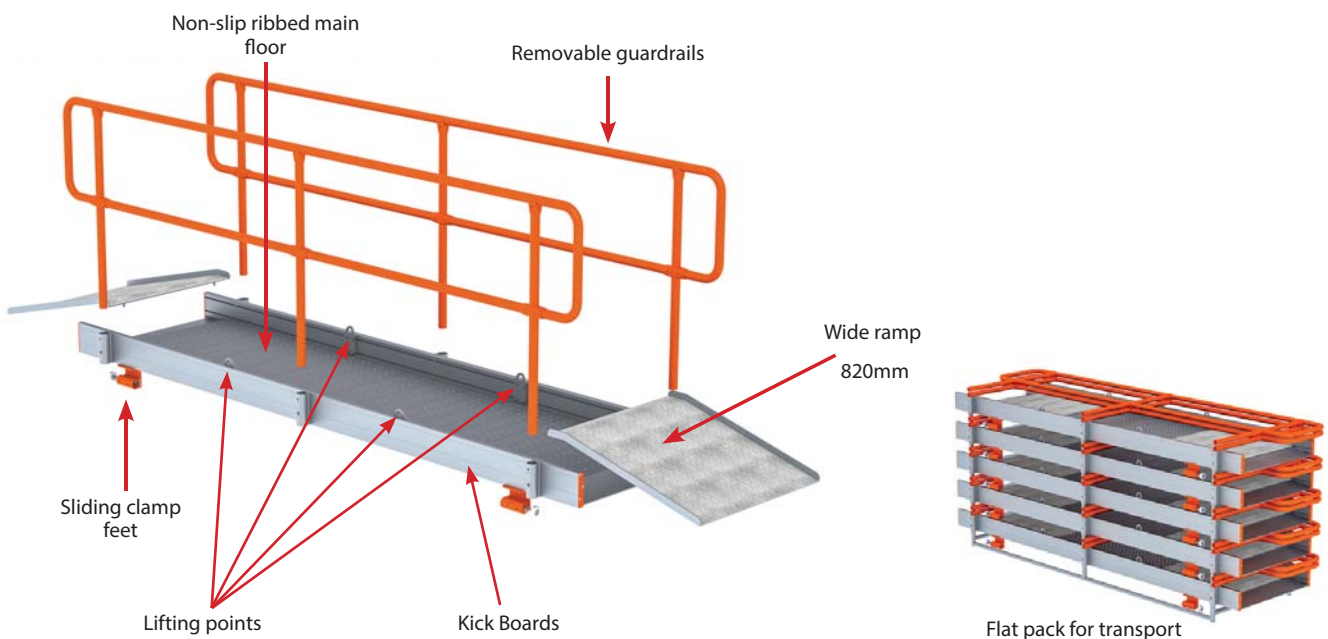
The BTRENCHSAFE[®] Shoring CrossOver Bridge allows workers safe method of mid-span access over trench excavations.

Certifications

- All Shoring CrossOver Bridges are designed, manufactured and tested to comply with AS/NZS1657 and relevant Codes of Practices.

Key Product Features:

- Manufactured in lightweight ultra-strong aluminum grade 60601-T6 with natural finish
- Non-slip ribbed main floor construction with removable checker plate access ramps on both ends
- Removable guardrails on both sides to protect workers from falls
- Wide ramp at 820mm to allow for small plant equipment to be walked across
- Sliding clamp feet engages against trench box to lock and prevent accidental movement of CrossOver Bridge
- Aluminium Safety, Kick boards. Fall protection from falling foreign materials or tools
- Effective length of 3.5mtrs with other lengths available to be manufactured on order.
- Easily assembled & dismantled for transportation.
- Intergrated lifting points.



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Aluminium Guardrail & storage rack

BTRENCHSAFE[®] ALUMINIUM ADJUSTABLE CLAMPING GUARDRAIL CODE: BTS6000-2.0 / 2.5 / 3.0 / 3.5 / 4.0

The BTRENCHSAFE[®] Aluminium Adjustable Clamping Guardrail provides sites with much needed physical barricades to prevent workers falling into open trenches and excavations.

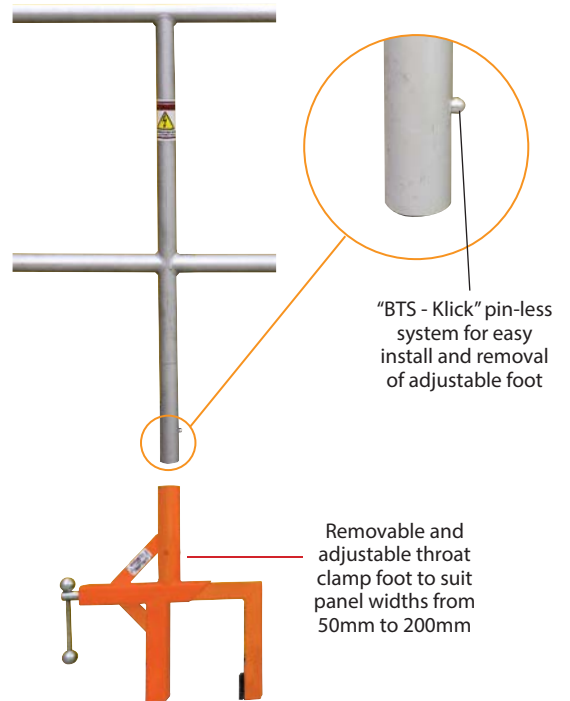
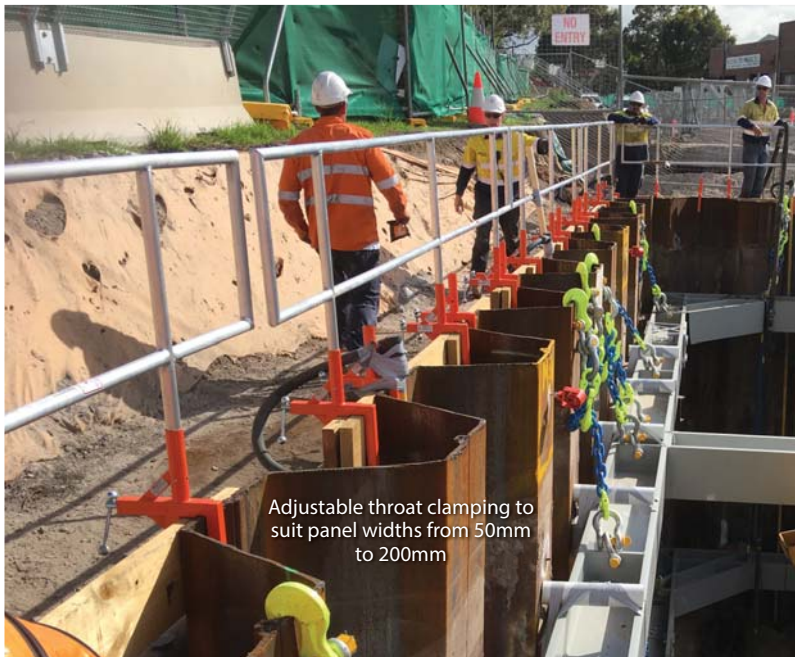
Key Product Features:

Certifications

- All products comply to relevant Australian Standards including AS4994, AS1657 and relevant Codes of Practice. Products are also certified by a RPEQ for use within Queensland.

Adjustable Clamping Guardrail

- Manufactured in lightweight ultra strong aluminium grade T6061 in natural finish.
- Adjustable throat clamping to suit panel widths from 50mm to 200mm.
- High density rubber padding on clamp to provide even surface contact.
- Available in finished lengths of 2.0, 2.5, 3.0, 3.5 & 4.0m.
- Modular in design and construction allowing for ease of storage and stacking on site and whilst in transport.

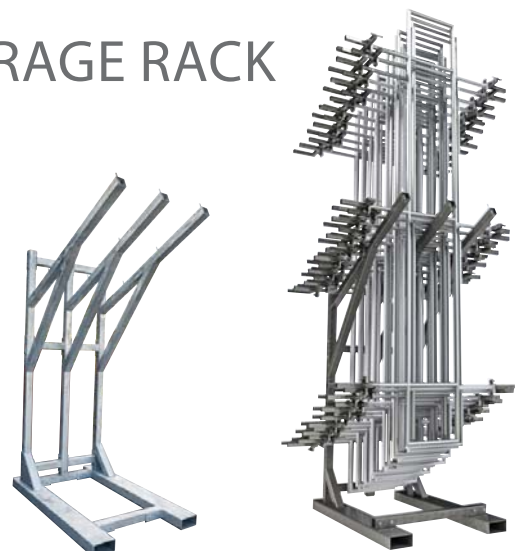


BTRENCHSAFE[®] GUARDRAIL STORAGE RACK CODE: BTS-6000

The BTRENCHSAFE[®] Aluminium Adjustable Clamping Guardrail Storage Rack provides hire companies with an opportunity to safely secure and store multiple quantities of shoring guardrails.

Key Product Features:

- Tough grade Q235 steel construction with HDG finish.
- Store 25 guardrails of 2m, 3m or 4m long per rack.
- Rack can be positioned on its own or stacked back to back.
- Relatively small footprint of 1,700mm long x 1,100mm wide.
- Steel prongs to separate guardrails into batches thus preventing crushed guardrails due to weight.



CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Ground Excavation & Trench System - BTS Steel Barrier Mesh for Guardrails

BTRENCHSAFE[®] STEEL EDGE PROTECTION MESH BARRIERS FOR ALUMINIUM GUARDRAIL GUARDS

CODE: BTS6000-05EPS for 1 single panel approximately 0.5m x 1.0m

CODE: BTS6000-11EPS for 1 single panel approximately 1.0m x 1.0m

The **BTRENCHSAFE**[®] Mesh Barriers are an ideal product solution for construction sites requiring practical solutions to manage the risks of injury to personnel from dropped objects when working within open ground excavations.

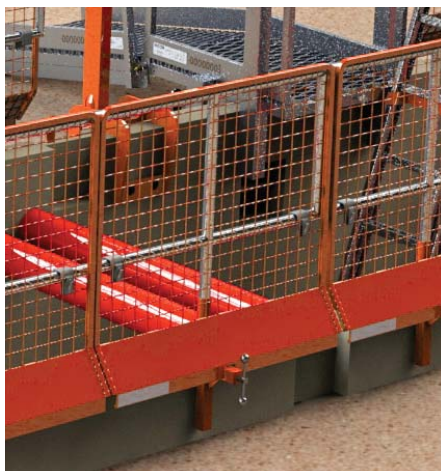
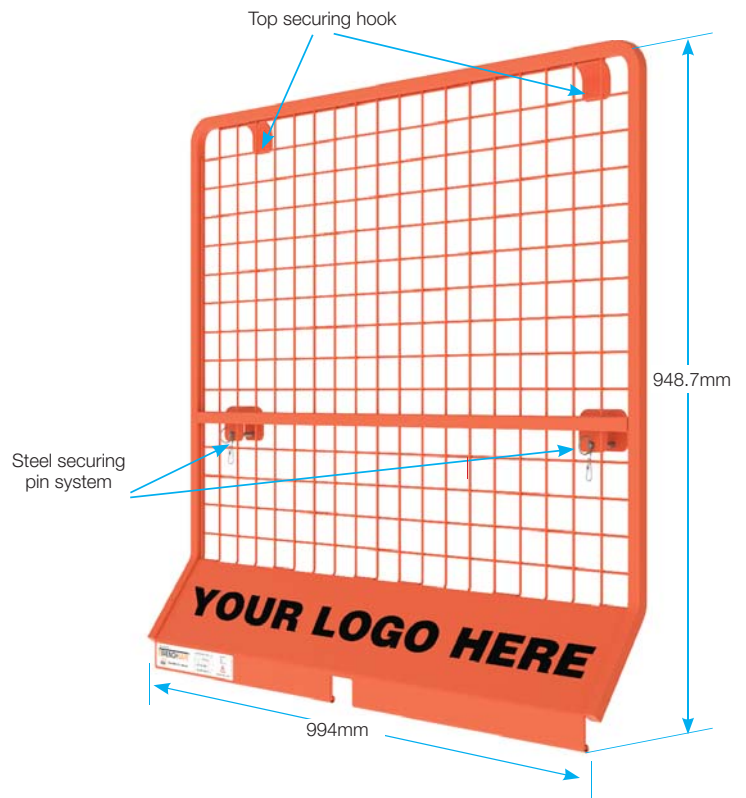
Each **BTRENCHSAFE**[®] Mesh Barrier is lightweight yet robust in construction and complements sites who use the **BTRENCHSAFE**[®] Aluminium Guardrails as a physical barricade around open shoring excavations. Small mesh pockets prevent penetration of debris, tools and other small equipment from falling into the excavation resulting in injury to workers below.

The **BTRENCHSAFE**[®] Mesh Barriers can be installed by 1 person in a matter of seconds onto an existing **BTS**[®] Aluminium Guardrail using the steel securing pins System.

BTRENCHSAFE[®] Mesh Barriers are tested to and meet the requirements of AS/NZS and EN product safety and strength standards.

Key Product Features:

- Lightweight panels, weigh only 5.5kg & 9kg
- Durable finish with option of powder coating in company colours
- Now available in **BTRENCHSAFE**[®] corporate colours of orange
- 0.5m x 1.0m & 1.0m x 1.0m mesh panels
- Two top hooks on securing points for securing to aluminium guardrails
- Two steel security pin devices for securing to aluminium guardrail to avoid accidental dislodgement
- Extra wide and slanted kick plate at the bottom.
- To be used in conjunction with the **BTRENCHSAFE**[®] 2.0m, 2.5m, 3m 3.5m & 4.0m Aluminium Guardrails
- Company logo and website can be stencilled on the kick plates for easy identification and advertising purposes.
- Tested and complies with requirements of AS/NZS and EN standards



Storage rack hold 27 Mesh Barriers and can be lifted / moved with a crane using the top included rated M16 eye bolts or suitably rated forklift.

Storage Racks can be stacked up to three (3) high.

CONFINED SPACE SHORING SYSTEM **BTRENCHSAFE**[®]

BTRENCHSAFE Mobile Anchor Cube (MAC)

BTRENCHSAFE[®] MOBILE ANCHOR CUBE (MAC)

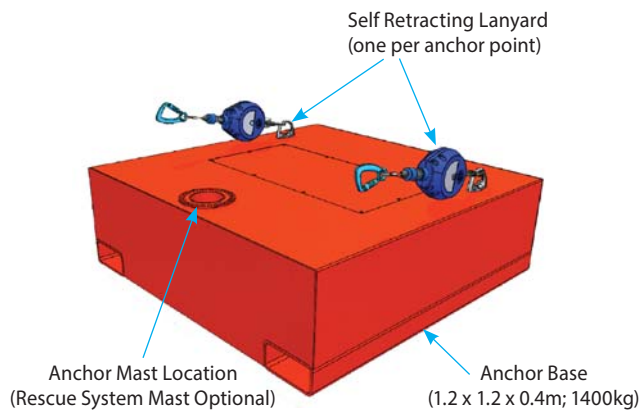
CODE: 70207 – Mobile Anchor Rescue Cube

CODE: 70208 – Mobile Anchor Rescue Cube c/w Mast & Winch Bracket

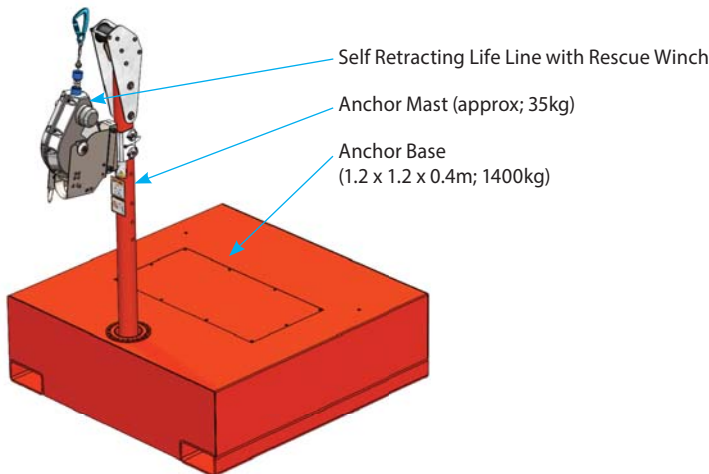
The **BTRENCHSAFE**[®] Mobile Anchor Cube (MAC) provides for a practical solution for individuals working around open trenches & excavations where there is a risk of falls into unprotected edges. Counterweighted in design and requiring no permanent fixation with built-in lifting pockets allows the MAC to be moved around a site with relative ease. The MAC provides fall protection for 2 workers and can be set-up with either inertia reel or inertia reel c/w rescue & recovery winch feature.

Key Product Features:

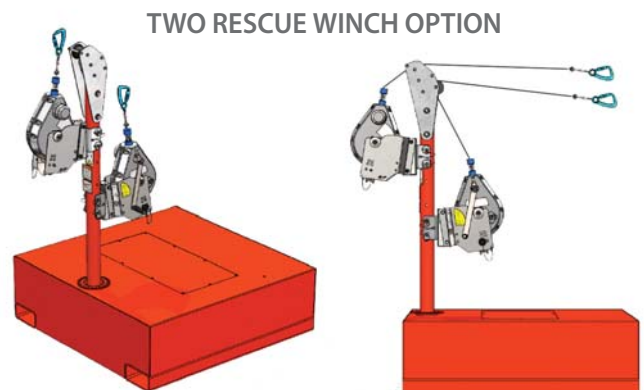
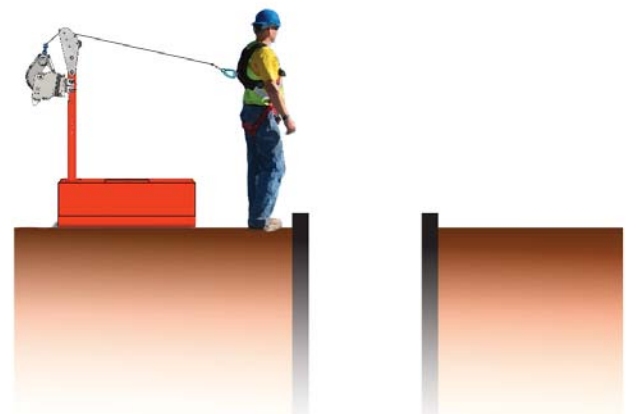
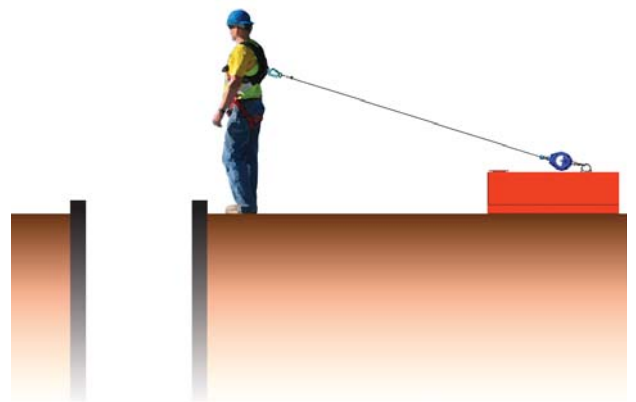
- Self-counterweighted base with built-in lifting pockets
- Overall dimensions of 1.2 x 1.2 x 0.4m and weighing 1400kg
- 2-person fall arrest system with optional fall arrest c/w rescue & recovery winch feature
- Can be set-up as a fall restraint system and/or as a fall arrest and rescue & recovery system
- Complies to AS5532 as a fall arrest rated anchor point



CODE: 70207
Base & Anchors Only
(SRL's Additional depending on length)



CODE: 70208
Base, Mast & Winch bracket Only
(SRL's Additional depending on length)



MATERIALS HANDLING

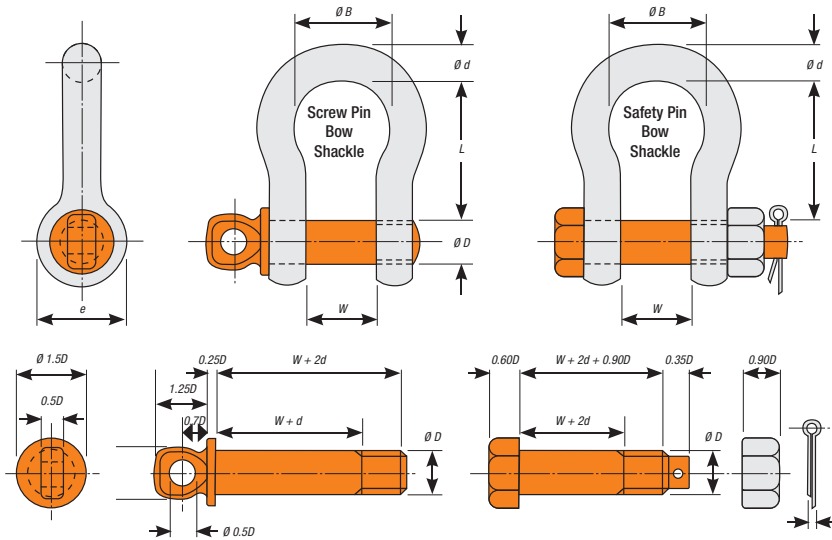


BTS Alloy Grade 'S/6' Bow Lifting Shackles with Orange Pin to AS2741-2002 and EN13889-2003

BTS ALLOY GRADE 'S/6' BOW LIFTING SHACKLES WITH ORANGE PIN

BTS Alloy Grade 'S' Shackles with **Orange Pin** have been developed in accordance with Australian Standard AS2741-2002 and European Standard EN13889-2003

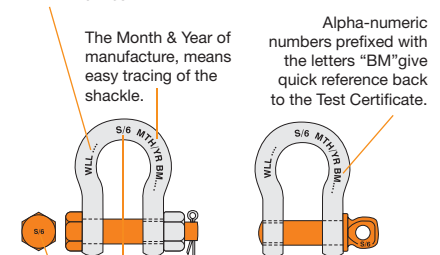
All BTS Grade 'S' **Orange Pin** Shackles are easily identified and traceable in accordance with our Quality Assurance system. The following identification marks are forged on the shackle.



1. Individually stamped with the working load limit in tonnes (i.e. W.L.L. 1T).
2. The grade appears on the top of the shackle. The letter 'S' indicating that it is an Alloy Grade 'S' lifting shackle. The number 6 indicates that the shackle is compliant with European requirements.
3. An alpha-numeric number - prefixed with "BM number" can be traced back to the test certificate.
4. The month and year of manufacture adds further traceability of the materials used and to the relevant test certificates for sizes 6mm to 57mm.
5. When requested, and at no extra charge, **BTS Alloy Grade 'S' Orange Pin Shackles** come with **BTS's** standard Test Certificate. Alternatively a **BTS NATA** Test Certificate can be supplied at an extra cost.
6. **BTS Alloy Grade 'S' Orange Pin Shackle** bodies are two thirds punched and the remaining third machined, this means consistent dimensions and that the shackle pin always fits correctly.
7. **BTS Alloy Grade 'S' Orange Pin Shackles** come in Screw Pin Bows & Safety Pin Bows.

Screw Pin Bow Shackle	Nominal Size	Dia. Body	Dia. Pin	Inside Width	Inside Width of Bow	Inside Length	Dia. Boss	Working Load Limit	Safety Pin Bow Shackle
BTS Code	Dia. mm	d mm	D mm	W mm	B mm	L mm	e mm	W.L.L. Tonnes	BTS Code
BT242306	6	6	8	12	20	29	17	0.50	N/A
BT242308	8	8	10	13	21	31	21	0.75	N/A
BT242310	10	10	11	17	26	37	25	1.0	N/A
BT242311	11	11	13	18	29	43	27	1.5	N/A
BT242313	13	13	16	21	33	48	33	2.0	BT244313
BT242316	16	16	19	27	43	61	40	3.2	BT244316
BT242319	19	19	22	32	51	72	48	4.7	BT244319
BT242322	22	22	25	37	58	84	54	6.5	BT244322
BT242325	25	25	29	43	68	95	60	8.5	BT244325
BT242329	29	29	32	46	74	108	67	9.5	BT244329
BT242332	32	32	35	52	83	119	76	12	BT244332
BT242335	35	35	38	57	92	133	84	13.5	BT244335
BT242338	38	38	41	60	98	146	92	17	BT244338
BT242344	44	44	51	73	127	178	110	25	BT244344
BT242351	51	51	57	83	146	197	127	35	BT244351
BT242357	57	57	63	95	160	222	143	42.5	BT244357
BT242363	63	63	70	105	184	267	152	55	BT244363

Individually stamped with W.L.L. showing the Working Load Limit in tonnes.



The Letter 'S' here indicates an Alloy Grade 'S' Shackle suitable for lifting, and '6' is equivalent to 'S' but indicates that the shackle is Grade S as per Australian standards and the 6 is as per the European standard.



MATERIALS HANDLING

BTECH-ALLOY V® Weld-on Lifting Lugs

BTECH-ALLOY V® WELD-ON LIFTING LUGS

FOR LIFTING AND LASHING

MODEL: BTAV

As a high strength attachment point for both lifting and lashing **BTech-Alloy V Weld-on Lugs** offer a permanent solution. Applications for this leading edge product are in all sectors of mining, rail and road transportation, construction, marine and offshore exploration.

- The Working Load Limit remains constant at any angle of lift.
- Welding the lug assembly into the desired position is easily achieved with weld height tabs under the weld block.
- The lug and weld block are made using Grade 100 Alloy Steel, then quenched and tempered.
- All **B-Tech Alloy V Weld-on Lugs** are magnetically crack inspected (MPI) after manufacture.
- Lifting lug is finished in powder coated baked enamel for greater corrosion resistance.
- The lifting lug and weld block are marked with BT-ALLOY V, WLL (Working Load Limit) and the month and year of manufacture along with an individual test number for easy tracing and identification.
- Designed to lay flat when not in use.
- Detailed welding instructions are supplied with each set.
- Test Certificate available.



CAPACITIES AVAILABLE
WLL IN TONNES
 1.5, 2.5, 4, 6.7, 10 & 16. **LIFTING LUG MARKINGS**

Front

Back



BT-Alloy Logo

Product ID

Test No.

Month/Year of Manufacture

WELD BLOCK MARKINGS

Top View

Side View

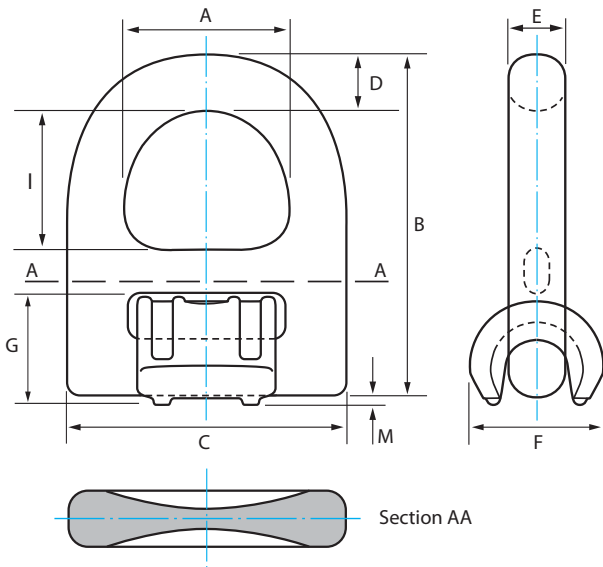
End View



Test No.

Month/Year of Manufacture

WELDING SEAM ATTACHMENT



Part Code	WLL tonnes	A mm	B mm	C mm	D mm	E mm	F mm	G mm	I mm	M mm	Weld mm HV+aL	Weight Kg
BTAV015	1.5	38	79	66	14	13.5	32	25	31	2	HV5+3	0.40
BTAV025	2.5	45	92.5	77	16	13.5	36	27	37	3.5	HV7+3	0.60
BTAV040	4	51	102	87	18	16.5	42	32	40.5	2	HV8+3	0.90
BTAV067	6.7	67	138	115	24	22.5	61	44	55	4	HV12+4	2.0
BTAV100	10	67.5	142	129	26.5	26	75	53	57.5	4	HV16+4	3.0
BTAV160	16	100	215	190	40	57.5	95	69	85	5	HV25+6	6.9

MATERIALS HANDLING



SLINGTECH Polyester Round Slings to Australian Standards AS 4497

SLINGTECH POLYESTER ROUND SLINGS

are made from high quality synthetic materials; they are manufactured and tested to Australian Standards AS 4497

Round slings are constructed from high-tenacity continuous multifilament polyester fibre strands enclosed in a hard wearing seamless sleeve. SLINGTECH Round slings are colour coded to their specific safe working load, they are also manufactured in black specifically for the Entertainment Industry. Round slings are used for lifting where it is necessary to protect the load from damage, such as objects with a smooth or polished surface. SLINGTECH Round slings are ideal for lifting objects in a choke position such as tubes and pipes, due to their low stretch. SLINGTECH Endless round slings are the most cost effective sling to purchase.

All slings have a working load limit (WLL) which is the maximum load that can be applied in tension, taking into account the mode of connection used, and the nature of the load to be lifted.



Safety Inspection I.D. Tag Protection



All SLINGTECH Round slings are manufactured with Safety Label protective covers to prevent snagging and damage to the Safety Label. The Safety Label can be uncovered and easily read by simply sliding back the protective cover as shown above.

Colour Coded to meet International lifting Standards

BTS Code:	Colour	W.L.L Tonnes	VERTICAL		CHOKE		BASKET		60°		90°		120°		60°		60° CHOKE	
			W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	
BRS1000	Violet	1.0	1.0	0.8	2.0	1.7	1.4	1.0	1.7	1.3								
BRS2000	Green	2.0	2.0	1.6	4.0	3.4	2.8	2.0	3.4	2.7								
BRS3000	Yellow	3.0	3.0	2.4	6.0	5.1	4.2	3.0	5.1	4.1								
BRS4000	Grey	4.0	4.0	3.2	8.0	6.9	5.6	4.0	6.9	5.5								
BRS5000	Red	5.0	5.0	4.0	10.0	8.6	7.0	5.0	8.6	6.9								
BRS6000	Brown	6.0	6.0	4.8	12.0	10.3	8.4	6.0	10.3	8.2								
BRS8000	Blue	8.0	8.0	6.4	16.0	13.8	11.2	8.0	13.8	11.0								
BRS10000	Orange	10.0	10.0	8.0	20.0	17.3	14.1	10.0	17.3	13.8								

MATERIALS HANDLING



SLINGTECH Polyester Round Slings to Australian Standards AS 4497

Synthetic Round Sling Standard Sizes Complies with AS 4497

BTS Code:	W.L.L kgs.	Length mtr.	Width mm.	Colour	Description
1,000kgs Polyester Round Sling					
BRS1000X1	1000	1.0	47	Violet	Round Sling
BRS1000X1.5	1000	1.5	47	Violet	Round Sling
BRS1000X2	1000	2.0	47	Violet	Round Sling
BRS1000X2.5	1000	2.5	47	Violet	Round Sling
BRS1000X3	1000	3.0	47	Violet	Round Sling
BRS1000X3.5	1000	3.5	47	Violet	Round Sling
BRS1000X4	1000	4.0	47	Violet	Round Sling
BRS1000X4.5	1000	4.5	47	Violet	Round Sling
BRS1000X5	1000	5.0	47	Violet	Round Sling
BRS1000X6	1000	6.0	47	Violet	Round Sling
2,000kgs Polyester Round Sling					
BRS2000X1	2000	1	51	Green	Round Sling
BRS2000X1.5	2000	1.5	51	Green	Round Sling
BRS2000X2	2000	2.0	51	Green	Round Sling
BRS2000X2.5	2000	2.5	51	Green	Round Sling
BRS2000X3	2000	3.0	51	Green	Round Sling
BRS2000X3.5	2000	3.5	51	Green	Round Sling
BRS2000X4	2000	4.0	51	Green	Round Sling
BRS2000X4.5	2000	4.5	51	Green	Round Sling
BRS2000X5	2000	5.0	51	Green	Round Sling
BRS2000X6	2000	6.0	51	Green	Round Sling
BRS2000X8	2000	8.0	51	Green	Round Sling
3,000kgs Polyester Round Sling					
BRS3000X1	3000	1.0	66	Yellow	Round Sling
BRS3000X1.5	3000	1.5	66	Yellow	Round Sling
BRS3000X2	3000	2.0	66	Yellow	Round Sling
BRS3000X2.5	3000	2.5	66	Yellow	Round Sling
BRS3000X3	3000	3.0	66	Yellow	Round Sling
BRS3000X3.5	3000	3.5	66	Yellow	Round Sling
BRS3000X4	3000	4.0	66	Yellow	Round Sling
BRS3000X4.5	3000	4.5	66	Yellow	Round Sling
BRS3000X5	3000	5.0	66	Yellow	Round Sling
BRS3000X6	3000	6.0	66	Yellow	Round Sling
BRS3000X8	3000	8.0	66	Yellow	Round Sling
4,000kgs Polyester Round Sling					
BRS4000X1	4000	1.0	70	Grey	Round Sling
BRS4000X1.5	4000	1.5	70	Grey	Round Sling
BRS4000X2	4000	2.0	70	Grey	Round Sling
BRS4000X2.5	4000	2.5	70	Grey	Round Sling
BRS4000X3	4000	3.0	70	Grey	Round Sling
BRS4000X3.5	4000	3.5	70	Grey	Round Sling
BRS4000X4	4000	4.0	70	Grey	Round Sling
BRS4000X4.5	4000	4.5	70	Grey	Round Sling

4,000kgs Polyester Round Sling (continued)					
BRS4000X5	4000	5.0	70	Grey	Round Sling
BRS4000X6	4000	6.0	70	Grey	Round Sling
BRS4000X8	4000	8.0	70	Grey	Round Sling
5,000kgs Polyester Round Sling					
BRS5000X1	5000	1.0	80	Red	Round Sling
BRS5000X1.5	5000	1.5	80	Red	Round Sling
BRS5000X2	5000	2.0	80	Red	Round Sling
BRS5000X3	5000	3.0	80	Red	Round Sling
BRS5000X4	5000	4.0	80	Red	Round Sling
BRS5000X5	5000	5.0	80	Red	Round Sling
BRS5000X6	5000	6.0	80	Red	Round Sling
BRS5000X8	5000	8.0	80	Red	Round Sling
6,000kgs Polyester Round Sling					
BRS6000X2	6000	2.0	80	Brown	Round Sling
BRS6000X3	6000	3.0	80	Brown	Round Sling
BRS6000X3.5	6000	3.5	80	Brown	Round Sling
BRS6000X4	6000	4.0	80	Brown	Round Sling
BRS6000X5	6000	5.0	80	Brown	Round Sling
BRS6000X6	6000	6.0	80	Brown	Round Sling
BRS6000X8	6000	8.0	80	Brown	Round Sling
8,000kgs Polyester Round Sling					
BRS8000X2	8000	2.0	86	Blue	Round Sling
BRS8000X2.5	8000	2.5	86	Blue	Round Sling
BRS8000X3	8000	3.0	86	Blue	Round Sling
BRS8000X4	8000	4.0	86	Blue	Round Sling
BRS8000X5	8000	5.0	86	Blue	Round Sling
BRS8000X6	8000	6.0	86	Blue	Round Sling
BRS8000X8	8000	8.0	86	Blue	Round Sling
10,000kgs Polyester Round Sling					
BRS10000X2	10000	2.0	100	Orange	Round Sling
BRS10000X2.5	10000	2.5	100	Orange	Round Sling
BRS10000X3	10000	3.0	100	Orange	Round Sling
BRS10000X4	10000	4.0	100	Orange	Round Sling
BRS10000X5	10000	5.0	100	Orange	Round Sling
BRS10000X6	10000	6.0	100	Orange	Round Sling
BRS10000X8	10000	8.0	100	Orange	Round Sling
BRS10000X10	10000	10.0	100	Orange	Round Sling
20,000kgs Polyester Round Sling					
BRS20000X3	20000	3.0	>150	Orange	Round Sling
BRS20000X10	20000	10.0	>150	Orange	Round Sling
50,000kgs Polyester Round Sling					
BRS50000X6	50000	6.0	>250	Orange	Round Sling
BRS50000X8	50000	8.0	>250	Orange	Round Sling

Other sizes & Configurations available upon request
 Note: Minimum quantities may apply

MATERIALS HANDLING



SLINGTECH Polyester Flat Slings to Australian Standards AS 1353

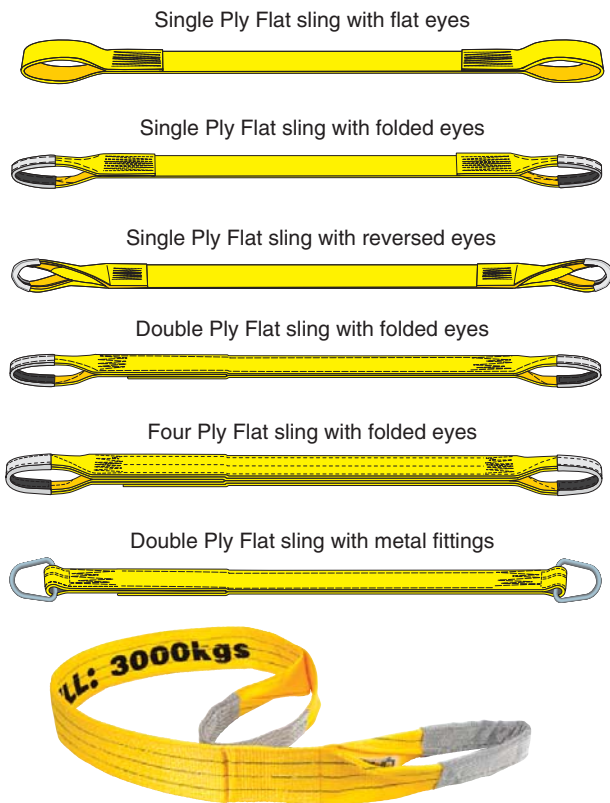
SLINGTECH FLAT WEBBING SLINGS

are made from quality synthetic materials; they are manufactured and tested to Australian Standards AS 1353

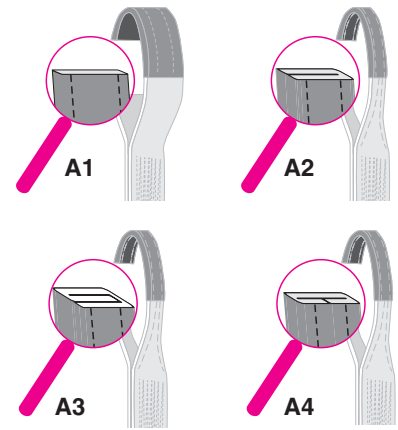
Webbing slings are flat belt straps that can be supplied with a variety of eye types at each end; these include flat eyes, folded eyes and reversed eyes. They are usually manufactured in double ply for extra safety. Made from 100% polyester webbing, the slings are colour coded to the relevant safe working load, and come supplied with test certificates as standard. Webbing slings are commonly used over chains, bundles of timber and wire ropes due to their ability to be more flexible and lighter; they also cause very little damage and help reduce scratching and denting to loads being lifted. Wide flat webbing offers greater surface contact.

All slings have a working load limit (WLL) which is the maximum load that can be applied in tension, taking into account the mode of connection, used and the nature of the load to be lifted.

Flat Sling Types



Types of Folded Eyes



Safety Inspection I.D. Tag Protection



All SLINGTECH Flat slings are manufactured with Safety Label Laminated protective covers to prevent damage to the Safety Label. The Safety Label can be easily read through the transparent protective cover as shown above.

BTS Code:	Colour	W.L.L Tonnes	VERTICAL		CHOKE		BASKET		60°		90°		120°		60°		60°	
			W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes	W.L.L Tonnes
BFS2-1000	Violet	1.0	1.0	0.8	2.0	1.7	1.4	1.0	1.7	1.3								
BFS2-2000	Green	2.0	2.0	1.6	4.0	3.4	2.8	2.0	3.4	2.7								
BFS2-3000	Yellow	3.0	3.0	2.4	6.0	5.1	4.2	3.0	5.1	4.1								
BFS2-4000	Grey	4.0	4.0	3.2	8.0	6.9	5.6	4.0	6.9	5.5								
BFS2-5000	Red	5.0	5.0	4.0	10.0	8.6	7.0	5.0	8.6	6.9								
BFS2-6000	Brown	6.0	6.0	4.8	12.0	10.3	8.4	6.0	10.3	8.2								
BFS2-8000	Blue	8.0	8.0	6.4	16.0	13.8	11.2	8.0	13.8	11.0								
BFS2-10000	Orange	10.0	10.0	8.0	20.0	17.3	14.1	10.0	17.3	13.8								

MATERIALS HANDLING



SLINGTECH Polyester Flat Slings to Australian Standards AS 1353

Double Ply Flat Sling Standard Sizes Complies with AS 1353

BTS Code:	W.L.L kgs.	Length mtr.	Width mm	Colour	Description
1,000kgs Double Ply Flat Sling					
BFS2-1000X1	1000	1.0	50	Violet	Double Ply Flat Sling
BFS2-1000X1.5	1000	1.5	50	Violet	Double Ply Flat Sling
BFS2-1000X2	1000	2.0	50	Violet	Double Ply Flat Sling
BFS2-1000X2.5	1000	2.5	50	Violet	Double Ply Flat Sling
BFS2-1000X3	1000	3.0	50	Violet	Double Ply Flat Sling
BFS2-1000X3.5	1000	3.5	50	Violet	Double Ply Flat Sling
BFS2-1000X4	1000	4.0	50	Violet	Double Ply Flat Sling
BFS2-1000X4.5	1000	4.5	50	Violet	Double Ply Flat Sling
BFS2-1000X5	1000	5.0	50	Violet	Double Ply Flat Sling
BFS2-1000X6	1000	6.0	50	Violet	Double Ply Flat Sling
2,000kgs Double Ply Flat Sling					
BFS2-2000X1	2000	1	65	Green	Double Ply Flat Sling
BFS2-2000X1.5	2000	1.5	65	Green	Double Ply Flat Sling
BFS2-2000X2	2000	2.0	65	Green	Double Ply Flat Sling
BFS2-2000X2.5	2000	2.5	65	Green	Double Ply Flat Sling
BFS2-2000X3	2000	3.0	65	Green	Double Ply Flat Sling
BFS2-2000X3.5	2000	3.5	65	Green	Double Ply Flat Sling
BFS2-2000X4	2000	4.0	65	Green	Double Ply Flat Sling
BFS2-2000X5	2000	5.0	65	Green	Double Ply Flat Sling
BFS2-2000X6	2000	6.0	65	Green	Double Ply Flat Sling

Other sizes & Configurations available upon request
Note Minimum quantities may apply

3,000kgs Double Ply Flat Sling					
BFS2-3000X1	3000	1.0	90	Yellow	Double Ply Flat Sling
BFS2-3000X1.5	3000	1.5	90	Yellow	Double Ply Flat Sling
BFS2-3000X2	3000	2.0	90	Yellow	Double Ply Flat Sling
BFS2-3000X2.5	3000	2.5	90	Yellow	Double Ply Flat Sling
BFS2-3000X3	3000	3.0	90	Yellow	Double Ply Flat Sling
BFS2-3000X4	3000	4.0	90	Yellow	Double Ply Flat Sling
BFS2-3000X5	3000	5.0	90	Yellow	Double Ply Flat Sling
BFS2-3000X6	3000	6.0	90	Yellow	Double Ply Flat Sling
4,000kgs Double Ply Flat Sling					
BFS2-4000X2	4000	2.0	120	Grey	Double Ply Flat Sling
BFS2-4000X3	4000	3.0	120	Grey	Double Ply Flat Sling
BFS2-4000X4	4000	4.0	120	Grey	Double Ply Flat Sling
BFS2-4000X5	4000	5.0	120	Grey	Double Ply Flat Sling
BFS2-4000X6	4000	6.0	120	Grey	Double Ply Flat Sling
BFS2-4000X8	4000	8.0	120	Grey	Double Ply Flat Sling
5,000kgs Double Ply Flat Sling					
BFS2-5000X2	5000	2.0	150	Red	Double Ply Flat Sling
BFS2-5000X3	5000	3.0	150	Red	Double Ply Flat Sling
BFS2-5000X4	5000	4.0	150	Red	Double Ply Flat Sling
BFS2-5000X5	5000	5.0	150	Red	Double Ply Flat Sling
6,000kgs Double Ply Flat Sling					
BFS2-6000X2	6000	2.0	200	Brown	Double Ply Flat Sling
BFS2-6000X3	6000	3.0	200	Brown	Double Ply Flat Sling



MATERIALS HANDLING



BLACK Stage rigging gear that always gives a great performance.

STAGE RIGGING

BLACK Endless Round Slings

Rated Capacities: 1 and 2 tonne

In theatres, concerts or large outdoor venues, Black Endless Round Slings are the rigger's choice when overhead suspension or lifting equipment is required.

Features & Benefits

- Easily set up and lightweight compared to wire rope slings.
- Reduced risk of damage to equipment when lifting.
- Offers a good strength to weight lift ratio.
- Less chance of hand injuries when using.
- Cost competitive compared to chain or wire rope slings.
- Easy to store and maintain.



Complies with AS4497.1-1997

	SLINGTECH Round Slings Comply to AS 4497.							
	L = LOAD FACTOR		L = 1.0	L = 0.8	L = 2.0	L = 1.7	L = 1.4	L = 1.0
BTS Code:	Colour	W.L.L Tonnes	VERTICAL W.L.L Tonnes	CHOKE W.L.L Tonnes	BASKET W.L.L Tonnes	60° W.L.L Tonnes	90° W.L.L Tonnes	120° W.L.L Tonnes
BRB1000	Black	1.0	1.0	0.8	2.0	1.7	1.4	1.0
BRB2000	Black	2.0	2.0	1.6	4.0	3.4	2.8	2.0

BTS Code:	W.L.L kgs.	Length mtr.	Width mm.	Colour	Description
1,000kgs Polyester Round Sling					
BRB1000X0.5	1000	0.5	47	Black	Round Sling
BRB1000X1	1000	1.0	47	Black	Round Sling
BRB1000X1.5	1000	1.5	47	Black	Round Sling
BRB1000X2	1000	2.0	47	Black	Round Sling

BTS Code:	W.L.L kgs.	Length mtr.	Width mm.	Colour	Description
2,000kgs Polyester Round Sling					
BRB2000X0.5	2000	0.5	51	Black	Round Sling
BRB2000X1	2000	1.0	51	Black	Round Sling
BRB2000X1.5	2000	1.5	51	Black	Round Sling
BRB2000X2	2000	2.0	51	Black	Round Sling
BRB2000X2.5	2000	2.5	51	Black	Round Sling
BRB2000X3	2000	3.0	51	Black	Round Sling
BRB2000X4	2000	4.0	51	Black	Round Sling



MATERIALS HANDLING



SLINGTECH boat slings can be used in many applications from lifting small boats to hoisting large ships.

BOAT LIFTING SLINGS

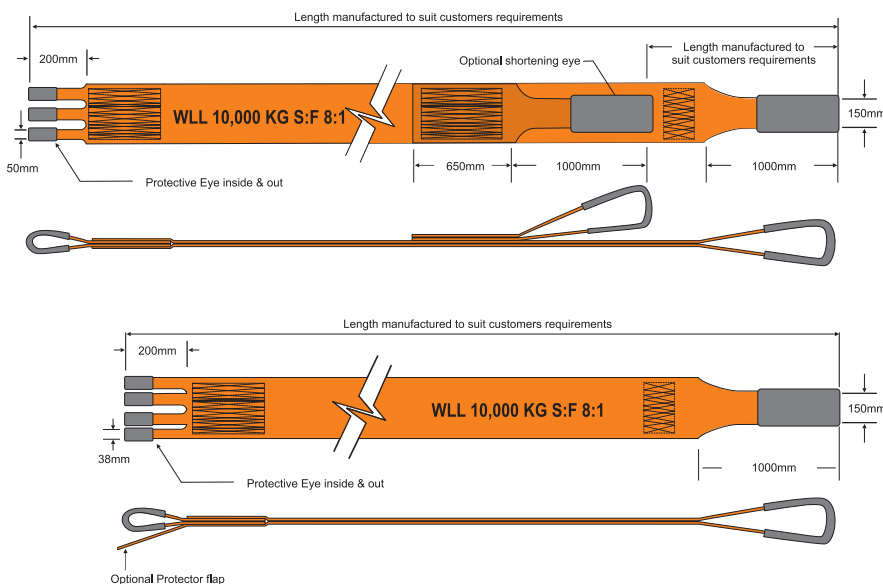
Boat lifting slings are used for raising boats and ships out of the water for maintenance and transfer over land. These marine slings are made with a special lifting sling application in mind and may require one or many specific features including: Chine pads, disconnects, sliding wear pads, sewn in weights or additional sewn eyes for adjustment. These boat slings, sometimes called travel lift slings, come in many different sizes and with a variety of options.

Please contact your sales consultant and they can provide you with a quote form with some common questions to fill out for an accurate quote. For further information on boat hoist slings, please read on below.

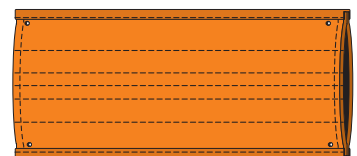


SLINGTECH Boat Slings can have specialty sewing included with one or many of the following custom sling options:

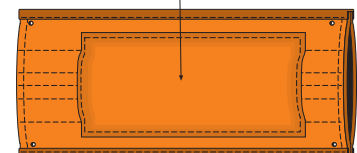
- SLINGTECH Boat slings are made from polyester webbing utilising its UV resistance, resistance to certain chemicals during cleaning and its low elongation properties.
- Keel Pads - The keel pad can be made with, or without, lead weights sewn in and is padded to protect damage to the keel. The lead weights help weigh the sling down in the water so the boat sling stays under the boat/ship easier.
- Disconnect Pin - The boat slings are typically disconnected with sewn fingers and a special pin that is used to keep the sling together. The disconnect is usually off centre to avoid contact with the keel. The disconnect of the webbing sling can also have an additional protective flap sewn in to protect the surface of the boat from abrasion damage.
- Chine Pads - Chine pads are to protect the chine, or angle in the hull, of a boat. These chine pads for the boat lifting slings typically slide or float on the boat sling allowing for them to be adjusted to the chines of the boat.
- Additional Eyes - On the longer boat sling, opposite of the disconnect, additional eyes can be sewn in on the strap to allow the polyester sling to be adjusted to alternate lengths. The more eyes sewn in, the more lengths the boat sling can accommodate for additional uses.
- Tapered Eyes or Flat Eyes - The eyes of the boat sling can have flat eyes or we can taper the width to allow for easier use with hardware. The tapered eyes allow for smaller shackles, or links, to be used to connect to the frame of the boat hoist you are using.
- SLINGTECH boat slings can be used in many applications from lifting small boats to hoisting large ships.



Chine Sleeve



Keel Pad
10Kg total Sheet lead insert (One side only)



MATERIALS HANDLING

BTS PRO-4G Industrial Chain & lever block with safety overload protection



PRO-4G™

MATERIALS HANDLING

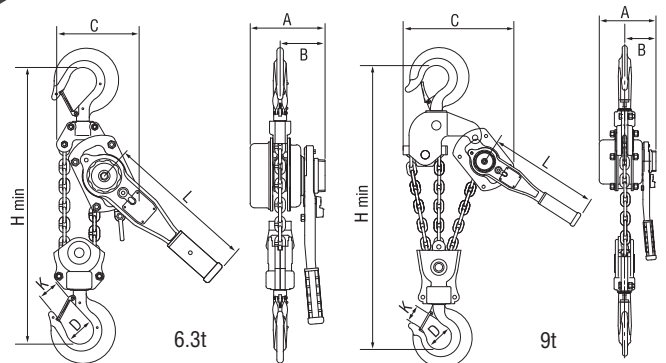
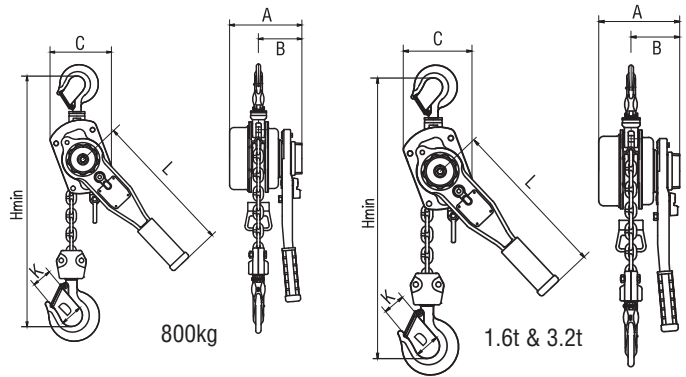
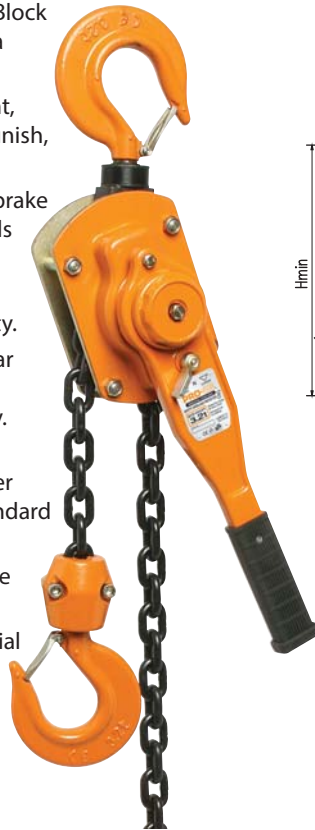
BTS PRO-4G Industrial lever block with safety overload protection

INDUSTRIAL LEVER BLOCKS

The PRO-4G Industrial Hoist incorporates a Patent Pending overload clutch system to protect the operator from serious injury and possible damage to the hoist or property if the load exceeds the rated capacity.

PRO-4G Lever Block Key Features:

- The BTS PRO4G Industrial Chain Lever Block mechanism and gears are enclosed in a robust all steel compact shell.
- The load chain is made of wear resistant, alloy steel Grade T(80), black oxidized finish, heat treated and calibrated.
- Weather protected automatic Weston brake mechanism incorporating 2 brake pawls for added safety.
- Incorporating safety overload clutch mechanism that ensures operator safety.
- The short lever arm and the precise gear ratio allows minimum effort to raise maximum load with maximum security.
- Bottom hook fitted with thrust roller bearings to enable hook to swivel under load in accordance with Australian Standard requirements.
- Top and bottom hooks swivel and come complete with safety cast latches.
- Traceability of each BTS PRO4G Industrial Chain Lever Block is by means of an individual serial number, which is engraved on the Stainless steel etched & colour filled identification side plate - this number relates directly to a test certificate.
- Every BTS PRO4G Industrial Chain Lever Block is operationally tested to its rated capacity and supplied with a BTS test certificate and Safety Instruction / Operation Manual.
- 'ID' plates and rivets are stainless steel to avoid dangerous sparking.
- Spare parts are available, complete with full repair facilities and re-testing to NATA requirements.
- All PRO-4G Industrial Hoists comply to Australian Standard AS1418.2.



Product Code	XZ-0815	XZ-1615	XZ-3215	XZ-6315	XZ-9015
Rated Capacity	800kg	1.6t	3.2t	6.3t	9.00t
No. of load chain falls	1	1	1	2	3
Effort to lift Rated Capacity	180N	380N	450N	500N	550N
Test Load	1.00t	2.00t	4.00t	7.88t	11.20t
Net Weight*	7.4kg	11.6kg	19.9kg	29.4kg	45kg
Load Chain Diameter	6mm	8mm	10mm	10mm	10mm
Standard Lift	1.5m	1.5	1.5	1.5	1.5
Weight per extramtere of lift	0.8kg	1.1kg	2.2kg	4.4kg	6.6kg
Dimensions					
A	148mm	172mm	200mm	200mm	200mm
B	90mm	98mm	115mm	115mm	115mm
C	136mm	160mm	180mm	235mm	335mm
D	40mm	52mm	60mm	68mm	85mm
H	320mm	380mm	480mm	600mm	740mm
K	28mm	38mm	42mm	50mm	55mm
L	250mm	300mm	375mm	375mm	375mm

Other lift heights of chain are available on request. * Net weight based on standard 1.5m Lift.

MATERIALS HANDLING



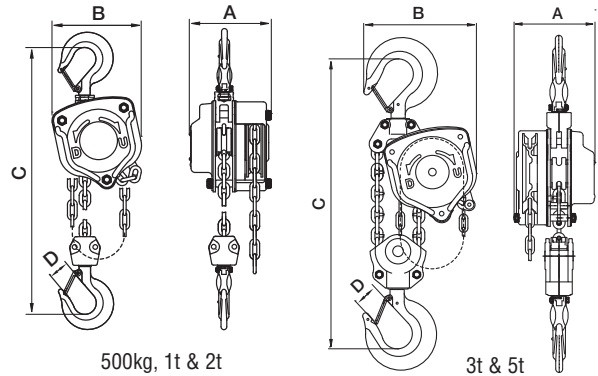
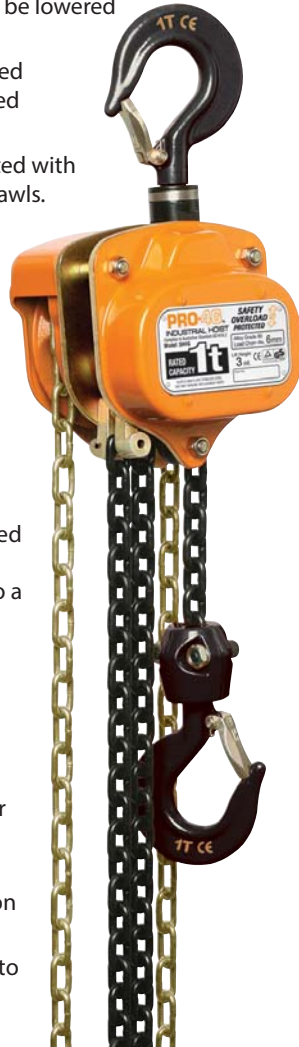
BTS PRO-4G Industrial Chain block with safety overload protection

INDUSTRIAL CHAIN HOISTS

The PRO-4G Industrial Hoist incorporates a Patent Pending overload clutch system to protect the operator from serious injury and possible damage to the hoist or property if the load exceeds the rated capacity.

PRO-4G Chain Block Key Features:

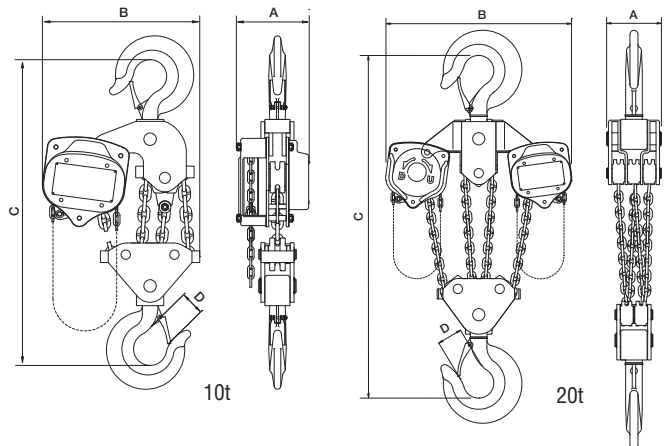
- The clutch system allows the load to be lowered safely in the event of an overload.
- All steel construction with an enclosed gearbox and mechanism for increased durability and long life.
- Weather protected Weston brake fitted with asbestos free brake discs and twin pawls.
- The load chain is made of wear resistant, alloy steel Grade T(80), black oxidized finish, heat treated and calibrated.
- Innovative design, with minimum effort required to raise the load and minimize fatigue.
- Traceability of each BTS PRO4G Industrial Chain hoist is by means of an individual serial number, which is engraved on the Stainless steel etched & colour filled identification ID side plate - this number relates directly to a test certificate.
- Thrust roller bearings are fitted to the bottom hook, allowing the hook to swivel easily when under load. (Australian Standard requirement).
- Both top and bottom hooks fitted with cast steel safety latches. Powder coated finish for durability in most environments.
- Additional lift heights are available on request to customers requirements.
- All PRO-4G Industrial Hoists comply to Australian Standard AS1418.2.



500kg, 1t & 2t

3t & 5t

SAFETY OVERLOAD PROTECTION



10t

20t

Product Code	3m Lift	800053MB	800103MB	800203MB	800303MB	800503MB	801003MB	802003MB
	6m Lift	800056MB	800106MB	800206MB	800306MB	800506MB	801006MB	802006MB
Rated Capacity		500kg	1t	2t	3t	5t	10t	20t
No. of load chain falls		1	1	1	2	2	4	8
Effort to lift Rated Capacity		231N	309N	320N	360N	414N	420N	420N x 2
Test Load		6.42t	1.27t	2.55t	3.82t	6.37t	12.74t	25.48t
Net Weight*		7kg	10.5kg	18kg	22kg	40kg	70kg	162kg
Load Chain Diameter		5mm	6mm	8mm	7.1mm	9mm	10mm	10mm
Weight Per Extra Metre Lift		1.5kg	1.8kg	2.3kg	4.2kg	4.6kg	9.8kg	19.6kg
Dimensions								
A		126.5mm	143mm	152mm	156mm	181mm	181mm	192mm
B		136mm	156mm	198mm	214mm	266mm	365mm	630mm
C		270mm	330mm	414mm	465mm	636mm	798mm	890mm
D		25.5mm	28mm	38mm	42mm	50mm	57mm	84mm

Other lift heights of chain are available on request. * Net weight based on standard 3m Lift.

MATERIALS HANDLING



BTS PRO-3G Colour Coded Industrial Chain block with safety overload protection

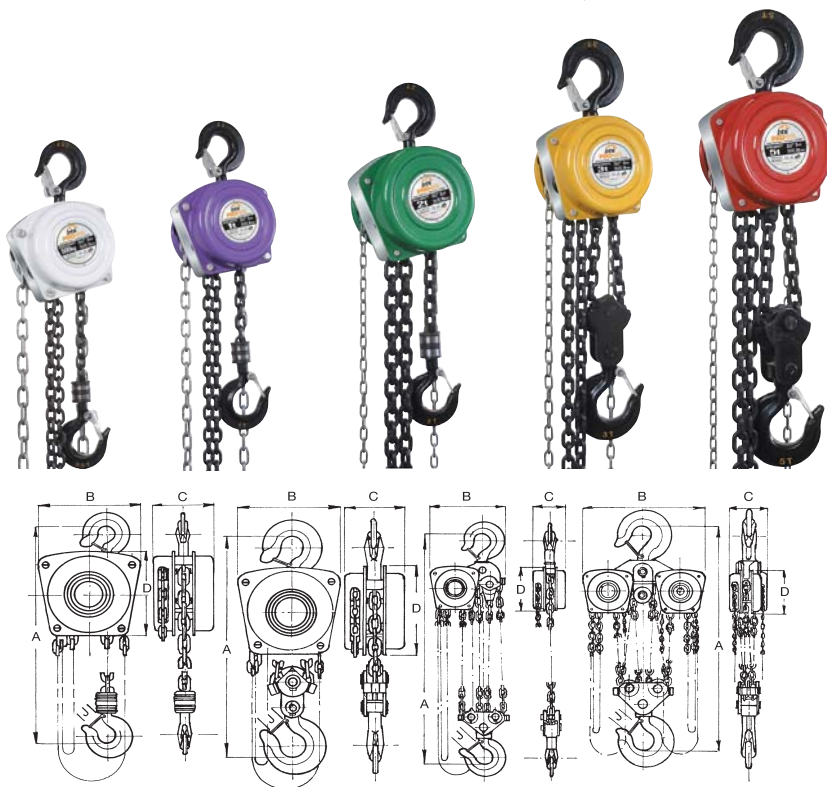
COLOUR CODED INDUSTRIAL CHAIN HOISTS

Rated Capacity	500kg	1t	2t	3t	5t	10t	20t
Colour	WHITE	VIOLET	GREEN	YELLOW	RED	ORANGE	ORANGE

This range of colour coded BTS PRO-3G Industrial Chain Hoists offer you a system of identification that makes choosing the correct capacity block much easier and safer. This is important when working in harsh or muddy environments where rated capacity 'ID' plates on this type of equipment can become obscured. The BTS PRO-3G has stainless steel I.D. plates that are etched & colour filled to ensure all relevant information is not obscured. These BTS PRO-3G Industrial Chain Hoists are ideal for the construction, engineering, logging and mining industries. The colours are matched to those used for synthetic lifting slings to ensure a standandising of colours for lifting products in the capacity needed to be used.

Key Features

- The BTS PRO-3G Industrial Chain Hoist has improved design features to ensure full protection of the gears, shafts and bearings.
- The side covers are made from reinforced heavy duty steel.
- Both side plates are galvanised for added protection.
- The load chain is calibrated alloy Grade T(80) material which guarantees safety when lifting loads, and the chain is marked according to AS1418.2.
- The industrial strength bearings ensure minimum lifting effort even under full load.
- Hand chain is supplied electro-galvanised (silver) finish.
- Superior Weston type friction braking system with high strength twin pawls for additional safety.
- Roller chain guides top and bottom to help eliminate tangling and jamming of the load chain, ensuring trouble-free service.
- Improved top and bottom hook design, ensures that the ball bearings cannot become dislodged and that the hooks can rotate under load as per the requirements of AS1418.2.
- Traceability of each BTS PRO-3G Chain Hoist is by means of an individual serial number, which co-relates directly to the test certificate.
- Each BTS PRO-3G Chain Hoist is individually tested to its rated capacity and is supplied with a BTS test certificate.
- BTS PRO-3G Chain Hoist 'ID' plates and rivets are supplied in stainless steel material in order to avoid dangerous sparking.
- All BTS PRO-3G stainless steel I.D. plates are etched & colour filled to ensure the details are protected.
- Orange plastic Safety and Warning cylinder supplied with all Chain Blocks.
- A comprehensive range of spare parts are available, complete with full repair facilities and re-testing to NATA requirements.



COMPLIES WITH AS1418.2

Product Code	3m Lift	NN0053	NN0103	NN0203	NN0303	NN0503	NN1003	NN2003
	6m Lift	NN0056	NN0106	NN0206	NN0306	NN0506	NN1006	NN2006
Rated Capacity		500kg	1t	2t	3t	5t	10t	20t
Colour		WHITE	VIOLET	GREEN	YELLOW	RED	ORANGE	ORANGE
Falls of Chain		1	1	1	2	2	4	8
Efforts to lift Rated Capacity		21kg	33kg	36kg	39kg	42kg	45kg	45kg
Net Weight*		8kg	11kg	25kg	26kg	39kg	78kg	122kg
Hand Chain moved to lift load one metre		32m	39m	77m	154m	154m	308m	2x308m
Load Chain Diameter		5mm	6mm	10mm	8mm	10mm	10mm	10mm
Dimensions								
A (Headroom)		290mm	340mm	450mm	500mm	620mm	840mm	1060mm
B (Width)		142mm	170mm	240mm	205mm	240mm	240mm	240mm
C (Depth)		114mm	135mm	128mm	155mm	178mm	178mm	210mm
D (Diameter)		128mm	150mm	218mm	185mm	218mm	218mm	218mm

Other lift heights of chain are available on request. * Net weight based on standard 3m Lift.

MATERIALS HANDLING



BTECH Load Scale Hoist

BTECH® LOAD SCALE HOISTS

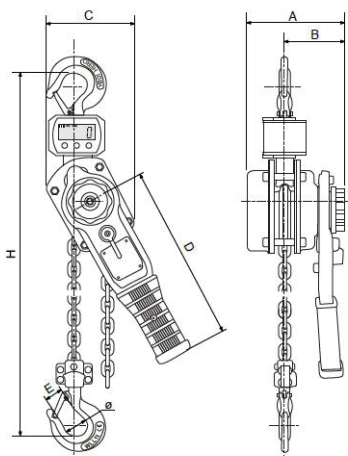
Prevent Accidents, never overload again! With the BTECH® Load Scale Hoist you know the exact weight of any item being lifted. Can be used for tensioning wire fences, permanent lifeline installations and applications where you need an accurate reading of weight or tension. Available in 1,000 or 2,000kg models.

Key Features

- The included indicator on the hoist shows immediately the weight of the load being lifted.
- Only hoist on the market that gives reliable readings when you are approaching overload, mechanical overload protectors do not protect the hoist from actual overloading but react after an overload.
- If the load being lifted is over hoist capacity the display shows the text "OVER".
- You can choose between kg / lbs for the display.
- Simple to operate as a normal crane scale
- Two sizes to suit WLL 1000 and WLL 2000 kg
- Every unit has been tested to 1.5 x WLL.
- The included display uses normal AA battery, running time about 150 work hours
- Battery energy saving system as standard turns off when not being used
- Ball bearing mechanisms located inside hoist and hooks for easy use
- Large new generation eye hooks
- Standard lifting height of 3 m
- Packed in a strong metal & plastic box with handle for easy storage



COMPLIES WITH AS1418.2



Product Code	Rated Capacity	Standard Lift length	Falls of chain	Effort to lift Rated Capacity	Test load	Headroom	Load Chain Dia.	Length of lever handle	Net Weight	Dimensions			
						H		D		A	B	C	E
	Kg	m		Kg	Tonne	mm	mm	mm	kg	mm	mm	mm	mm
XZC-1015	1000	1.5	1	14	1.25	400	6	250	8	148	90	136	30
XZC-2015	2000	1.5	1	22	2.5	460	8	320	12.8	172	98	160	38

MATERIALS HANDLING

LIFTKET
WORKS SINCE 1948

LIFTKET® Electric Chain Hoists

LIFTKET

INDUSTRY

LIFTKET electric-chain hoists are used in almost every sector of industry. Whether it's for a stonemason or the food industry, shipyards or power stations – we lift and move weights in a safe, precise and reliable way.

The LIFTKET product portfolio offers you standardized hoists that can be adjusted to your requirements in a modular way, as well as highly specialized solutions. Larger lifting and operating heights are just as viable as deviating voltages and special solutions of any kind.

You tell us what you want to move – and we will develop and supply the perfect solution.



FEATURES

- From 80 kg to 25,000 kg we lift everything that moves you
- FEM ratings from Fem 1Bm to 4m (ISO M3 to M7)
- Protection class IP55, insulation class F
- Galvanised load chain to DIN 818.-7 quality class DAT
- A wide range of options can be selected as standard
- Optional one or two lifting speeds from 2 to 32 m/min
- With heavy-duty end position switch-off as standard (at 24VAC)

STATIONARY VERSION

- Stationary version with hook or eye
- Eye (connection between crane and trolley) compatible with all commercially available trolleys and suspensions



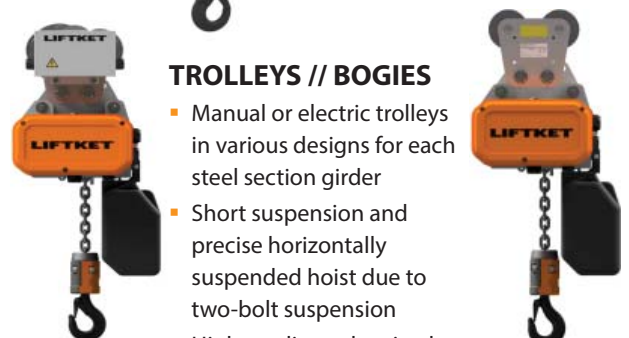
STAR VFD

- Load-dependent, infinitely variable control from 2 to 36 m/min
- Up to 200 % faster without load
- Easy-to-read display with operating hours, remaining service life according to FEM
- Brake cycles and starts



TROLLEYS // BOGIES

- Manual or electric trolleys in various designs for each steel section girder
- Short suspension and precise horizontally suspended hoist due to two-bolt suspension
- High-quality, galvanized impellers and fall protections



SPEED LINE

Features

- Custom STAR LIFTKET Products
- All Models are "Made in Germany" / Wurzen
- 24VAC low voltage control, operating voltage 3ph / 380-415V / 50Hz, upper and lower limit switches, pendant with quick-change connection
- up to around 20m hook path
- with one hole suspension eye, hook suspension(not rotatable), hand- or electro trolley (5+20m/min)



SPEEDLINE					
kgs	ISO	TYPE	STAR	EN818-7DAT	m/min
125	M7	125/1-8-2	SLS 031/53	5,2x15mm	8/2
250	M6	250/1-8/2	SLS 031/51	5,2x15mm	8/2
500	M6	500/2-4/1	SLS 031/51	5,2x15mm	4/1
	M5	500/1-8/2	SLM 071/54	7,2x21mm	8/2
1000	M5	1000/2-4/1	SLM 071/54	7,2x21mm	4/1
	M5	1000/1-6/1,5	SLM 071/55	7,2x21mm	6/1,5
1600	M5	1600/1-8/2	SLL 091/55	9x27mm	8/2
2000	M5	2000/2-3/0,75	SLM 071/5	7,2x21mm	3/0,75
2500	M5	2000/2-3/0,75	SLL 111/52	11,3x31	10/2,5
3200	M5	3200/2-4/1	SLL 091/55	9x27mm	4
5000	M5	5000/2-5/1,25	SLL 111/52	11,3x31	5/1,25

MATERIALS HANDLING

LIFTKET
WORKS SINCE 1948

LIFTKET® Electric Chain Hoists

LIFTKET
INDUSTRY

STAR VFD

Our 1st electronically controlled chain hoist STAR VFD was developed for almost every lifting application and is convincing all along the line:

Features

- load-dependent, infinitely variable speed control
- from 2 to 24 m/min
- one hoist for a worldwide use (380 – 480V / 50 and 60Hz)
- the hoists can be operated with up to 200 % of the nominal speed by moving without load
- first chain hoist with integrated display for displaying the following values:
 - Remaining useful life
 - operating hours
 - full load hours
 - number of brake clearances
 - inverter temperature
- decreases the maintenance effort and costs
- CE and UL solutions available
- protection class IP55
- all mechanical accessories and components are fully compatible (e.g. Chain bags, trolleys, special chains, variations, etc.)



STAR VFD					
kgs	ISO	TYPE	STAR	EN818-7DAT	m/min
125	M6	125/1-24 V	050/52V	5,2x15mm	2-24
250	M6	250/1-24 V	050/52V	5,2x15mm	2-24
500	M3	500/1-18 V	050/55V	5,2x15mm	2-24
1000	M3	1000/2-9 V	050/55V	7,2x21mm	1-12
	M5	1000/1-6 V	070/55V	7,2x21mm	1-12
2000	M5	2000/2-3 V	070/55V	7,2x21mm	0,3-6

STAR LIFTKET 125 kg – 6,300 kg

STAR LIFTKET – Electric chain hoists are currently available for three-phase operation with a capacity of 125kg to 6,300kg, and for single-phase operation from 125kg to 2,000kg

Features

- **High duty rate**
even in tropical climate conditions. This has been achieved by using a fan cooled motor, the cooling fins on the motor follow the LIFTKET design line. The special STAR LIFTKET clutch brake design exchanges the heat safely to the ambient, keeps the heat away from the motor and allows so to cool the hoist body efficiently.
- **Patented clutch system**
A high level of safety due to the arrangement of the sliding clutch between the motor and brake – because of our new patented clutch system, we have again achieved positive locking connections between brake and load. Already implemented on the LIFTKET, this safety principle means that “no load drop is possible if the clutch fails”.
Continued over page



STAR LIFTKET 125 kg - 365 kg								
SWL	ISO / FEM	Lifting speed (m/min)			Type	Chain mm	Power (kW)	
		50 Hz	60 Hz	5-100 Hz			50 Hz	60 Hz
125	M7 / 4m	8	9.6		030/62	5,2x15	0.55	0.65
125	M7 / 4m	8/2	9,6/2,4		031/53	5,2x15	0,32/0,08	0,38/0,1
125	M6 / 3m			2-36	050/52 V	5,2x15	3	3
250	M7 / 4m	4	4.8		030/65	5,2x15	0.37	0.44
250	M6 / 3m	8	9.6		030/64	5,2x15	0.55	0.65
250	M6 / 3m	8/2	9,6/2,4		031/51	5,2x15	0,32/0,08	0,38/0,1
250	M5 / 2m	12	14.4		030/50	5,2x15	0.55	0.65
250	M6 / 3m	12/3	14,4/3,6		051/52	5,2x15	0,55/0,12	0,66/0,14
250	M6 / 3m	18/4,5	21,6/5,4		051/55	5,2x15	0,9/0,2	1,1/0,24
250	M6 / 3m	24	28.8		050/52	5,2x15	1.1	1.3
250	M6 / 3m			2-36	050/52 V	5,2x15	3	3
365	M4 / 1Am	4	4.8		030/54	5,2x15	0.37	0.44

MATERIALS HANDLING



LIFTKET® Electric Chain Hoists

LIFTKET INDUSTRY

STAR LIFTKET 125 kg – 6,300 kg *Continued*

STAR LIFTKET – Electric chain hoists are currently available for three-phase operation with a capacity of 125kg to 6,300kg, and for single-phase operation from 125kg to 2,000kg

Features *Continued*

- First class material and technologies**

First class material and technologies have been implemented, ensuring excellent parts quality – this was proved and confirmed by our test lab after performing complicated, time-consuming tests. The lifetime of the parts exceeds all the requirements of the FEM.

- Extremely low maintenance design**

Extremely low maintenance design with the best possible accessibility and interchangeability of all parts to ensure safe operation, even for the remotest parts of our planet where specialists may not be available – this is achieved by the consequent modular design. Motor, oil filled and oil sealed gear box, pre-adjusted brake and control module are separately interchangeable. There is no special adjustment required other than a clutch adjustment using a test load.

- Contactors control with conventional and individually interchangeable components**

The controls are very easy and efficient in maintenance and repair due to modular design.

- Fast and failsafe conversion of single fall to double fall and vice versa**

Conversion of single fall to double fall and vice versa – easy, fast and failsafe – this work has been reduced now to a few minutes. This newsolution ensures exceptional protection against assembly errors.

- Technical versions**



STAR LIFTKET 500 kg - 2,500 kg								
SWL	ISO / FEM	Lifting speed (m/min)			Type	Chain mm	Power (kW)	
		50 Hz	60 Hz	5-100 Hz			50 Hz	60 Hz
500	M6 / 3m	4/1	4,8/1,2		031/51	5,2x15	0,32/0,08	0,38/0,1
500	M3 / 1Bm	8	9.6		030/52	5,2x15	0.7	0.84
500	M5 / 2m	8/2	9,6/2,4		071/54	7,2x21	0,9/0,2	1,1/0,24
500	M5 / 2m	10	12		070/51	7,2x21	1.1	1.3
500	M5 / 2m	10/2,5	12/3		071/53	7,2x21	0,9/0,2	1,1/0,24
500	M3 / 1Bm	18	21.6		050/55	5,2x15	1.5	1.8
500	M3 / 1Bm			2-36	050/55 V	5,2x15	3	3
800	M5 / 2m	8	9.6		070/54	7,2x21	1.1	1.3
1000	M5 / 2m	4			070/61	7,2x21	0.75	0.9
1000	M5 / 2m	4/1	4,8/1,2		071/54	7,2x21	0,9/0,2	1,1/0,24
1000	M5 / 2m	5			070/51	7,2x21	1.1	1.3
1000	M5 / 2m	5/1,25			071/53	7,2x21	0,9/0,2	1,1/0,24
1000	M5 / 2m	6	7.2		070/55	7,2x21	1.1	1.3
1000	M5 / 2m	6/1,5	7,2/1,8		071/55	7,2x21	1,1/0,2	1,3/0,27
1000	M6 / 3m	8/2	9,6/2,4		091/51	9x27	1,8/0,45	2,16/0,54
1000	M4 / 1Am	10	12		070/53	7,2x21	1.7	2.1
1000	M6 / 3m	10/2,5	12/3		091/52	9x27	1,8/0,45	2,16/0,54
1000	M3 / 1Bm			1-18	050/55 V	5,2x15	3	3
1000	M5 / 2m			1-12	070/55 V	7,2x21	3	3
1600	M5 / 2m	4	4.8		070/54	7,2x21	1.1	1.3
1600	M5 / 2m	8	9.6		090/55	9x27	2.2	2.6
1600	M5 / 2m	8/2	9,6/2,4		091/55	9x27	3,0/0,75	3,6/0,9
1600	M5 / 2m	10/2,5	12/3		091/56	9x27	3,0/0,75	3,6/0,9
2000	M5 / 2m	3	3.6		070/55	7,2x21	1.1	1.3
2000	M5 / 2m	3/0,75	3,6/0,9		071/55	7,2x21	1,1/0,2	1,3/0,27
2000	M6 / 3m	4/1	4,8/1,2		091/51	9x27	1,8/0,45	2,16/0,54
2000	M4 / 1Am	5	6		070/53	7,2x21	1.7	2.1
2000	M6 / 3m	5/1,25	6/1,5		091/52	9x27	1,8/0,45	2,16/0,54
2000	M5 / 2m	8	9.6		110/54	11,3x31	4	4.8
2000	M5 / 2m	8/2	9,6/2,4		111/56	11,3x31	3,0/0,75	3,6/0,9
2000	M5 / 2m			0,3-6	070/55 V	7,2x21	3	3
2500	M6 / 3m	4	4.8		090/55	9x27	2.2	2.6
2500	M6 / 3m	4/1	4,8/1,2		091/55	9x27	3,0/0,75	3,6/0,9
2500	M6 / 3m	5/1,25	6/1,5		091/56	9x27	3,0/0,75	3,6/0,9
2500	M4 / 1Am	8	9.6		110/54	11,3x31	4	4.8
2500	M4 / 1Am	8/2	9,6/2,4		111/54	11,3x31	4,4/1,1	5,2/1,3
2500	M5 / 2m	10	12		110/52	11,3x31	4	4.8
2500	M5 / 2m	10/2,5	12/3		111/52	11,3x31	4,4/1,1	5,2/1,3

MATERIALS HANDLING



LIFTKET® Electric Chain Hoists



STAR LIFTKET 125 kg – 6,300 kg *Continued*

STAR LIFTKET – Electric chain hoists are currently available for three-phase operation with a capacity of 125kg to 6,300kg, and for single-phase operation from 125kg to 2,000kg

STAR LIFTKET 3,200 kg - 6,300 kg								
SWL	ISO / FEM	Lifting speed (m/min)			Type	Chain mm	Power (kW)	
		50 Hz	60 Hz	5-100 Hz			50 Hz	60 Hz
3200	M5 / 2m	4	4.8		090/55	9x27	2.2	2.6
3200	M5 / 2m	4/1	4,8/1,2		091/55	9x27	3,0/0,75	3,6/0,9
3200	M5 / 2m	5/1,25	6/1,5		091/56	9x27	3,0/0,75	3,6/0,9
3200	M3 / 1Bm	8	9.6		110/54	11,3x31	4	4.8
3200	M3 / 1Bm	8/2	9,6/2,4		111/54	11,3x31	4,4/1,1	5,2/1,3
4000	M5 / 2m	4	4.8		110/54	11,3x31	4	4.8
4000	M5 / 2m	4/1	4,8/1,2		111/56	11,3x31	4,4/1,1	5,2/1,3
5000	M5 / 2m	5	6		110/52	11,3x31	4	4.8
5000	M5 / 2m	5/1,25	6/1,5		111/52	11,3x31	4,4/1,1	5,2/1,3
6300	M3 / 1Bm	4	4.8		110/54	11,3x31	4	4.8
6300	M3 / 1Bm	4/1	4,8/1,2		111/54	11,3x31	4,4/1,1	5,2/1,3



B13/POWER LIFTKET 4,000 kg – 25,000 kg

In this range you'll find electric chain hoists with a high lifting capacity. Two different models are available in this area: LIFTKET B13 and our POWER LIFTKET. We solely offer single fall or double fall designs even for these big capacities in order to ensure an economically big lifting speed, to avoid intensive chain wear on more than two chain falls, to keep an economic price especially on bigger lifting heights and to ensure a high grade of efficiency by avoiding chain diversion points.

Our **LIFTKET B13** can be ordered for loads weighing between 4,000 and 12,500 kg. It can be ordered with single or double fall execution and the option of a suspension eye, a hook suspension or an electric trolley.

Our **POWER LIFTKET** is available with single or double fall execution and the option of a suspension eye or an electric trolley for loads between 8,000 kg and 25,000 kg.

Electric chain hoists do have great advantages even on these big capacities:

- A single point suspension is possible because the center of gravity is always underneath the suspension point. Different from wire rope hoists where the rope (load) has to move along a wide drum and a multipoint suspension is requested.
- Good for big lifting heights and mobile use at construction sites
- Very low and easy maintenance
- Very easy conversion from single to double fall and vice versa
- Very easy change to different lifting heights (impossible for rope hoists)



LIFTKET B13



POWER LIFTKET

MATERIALS HANDLING



LIFTKET® Electric Chain Hoists

LIFTKET
INDUSTRY

B13/POWER LIFTKET 4,000 kg – 25,000 kg *Continued*

B13/POWER LIFTKET 4,000 kg - 25,000 kg							
SWL	ISO / FEM	Lifting speed (m/min)		Type	Chain mm	Power (kW)	
		50 Hz	60 Hz			50 Hz	60 Hz
4000	M5 / 2m	5,6/1,4	6,7/1,7	B13/00X	16x45	6,0/1,3	7,2/1,56
5000	M4 / 1Am	5,6/1,4	6,7/1,7	B13/00X	16x45	6,0/1,3	7,2/1,56
6300	M3 / 1Bm	5,6/1,4	6,7/1,7	B13/00X	16x45	6,4/1,6	7,2/1,56
8000	M5 / 2m	2,8/0,7	3,4/0,8	B13/00X	16x45	6,0/1,3	7,2/1,56
8000	M5 / 2m	6,4/1,6	7,7/1,9	235/50	23,5x66	12,5/3,1	15,0/3,7
10000	M4 / 1Am	2,8/0,7	3,4/0,8	B13/00X	16x45	6,0/1,3	7,2/1,56
10000	M4 / 1Am	6,4/1,6	7,7/1,9	235/50	23,5x66	12,5/3,1	15,0/3,7
12500	M3 / 1Bm	2,8/0,7	3,4/0,8	B13/00X	16x45	6,4/1,6	7,2/1,56
12500	M3 / 1Bm	6,4/1,6	7,7/1,9	235/50	23,5x66	12,5/3,1	15,0/3,7
16000	M5 / 2m	3,2/0,8	3,8/1,0	235/50	23,5x66	12,5/3,1	15,0/3,7
20000	M4 / 1Am	3,2/0,8	3,8/1,0	235/50	23,5x66	12,5/3,1	15,0/3,7
25000	M3 / 1Bm	3,2/0,8	3,8/1,0	235/50	23,5x66	12,5/3,1	15,0/3,7



LIFTKET B13



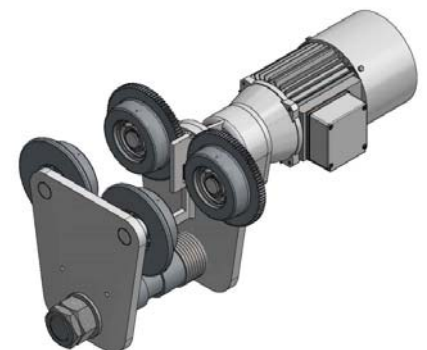
POWER LIFTKET

Single bolt push and electric trolleys

- The higher capacity wheels have undergone a special heat treatment procedure in order to reduce wear
- The profile of the wheels makes them suitable for use on parallel and tapered flanges
- All trolleys are equipped with safety drop stops
- All parts are virtually maintenance-free
- All the electric trolleys are equipped with our robust electromagnetic disk brake
- All bolts, distance tubes and spacing washers are galvanized to protect them from corrosion



Single bolt push trolleys



Single bolt electric trolleys

SINGLE BOLT PUSH AND ELECTRIC TROLLEYS				
Electric Trolley	Push Trolley	Beam width F (mm)	Trolley speed I 50 Hz (m/min)	Trolley speed II 50 Hz (m/min)
EEFW 1000	EHW 1000	66-135	5+20	16
EEFW 1000	EHW 1000	137-215	5+20	16
EEFW 1000	EHW 1000	220-300	5+20	16
EEFW 2000	EHW 2000	82-155	5+20	16
EEFW 2000	EHW 2000	137-215	5+20	16
EEFW 2000	EHW 2000	220-300	5+20	16
EEFW 3200	EHW 3200	82-155	5+20	
EEFW 3200	EHW 3200	137-215	5+20	
EEFW 3200	EHW 3200	220-300	5+20	
EEFW 6300	EHW 6300	82-155	4+16	
EEFW 6300	EHW 6300	160-236	4+16	
EEFW 6300	EHW 6300	230-310	4+16	

ENTERTAINMENT



Stage rigging gear that always gives a great performance.

STAGE CHAIN HOISTS

Complies with AS1418.2

Model: 800110EB

Rated Capacity 1 tonne

A reliable, quality chain hoist to suit most applications for lifting and stage rigging with the added security of overload protection.

Features & Benefits



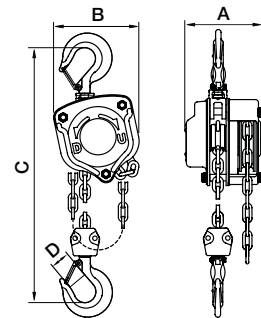
- Patent Pending unique overload feature ensures protection for the operator from serious injury and possible damage to the structure if the load exceeds the hoists' capacity.
- The unique design allows the load to be lowered easily in the event of an overload occurring.
- All steel construction with an enclosed gear box and mechanism for long life and durability.
- Weather protected Weston brake complete with asbestos free brake discs.
- The braking system includes two brake pawls engineered and positioned for additional safety.
- The load chain is Grade T(80) alloy steel, black finished, heat treated and calibrated.
- Hand chain has corrosion resistant Zinc dichromate (Gold) finish.
- Stainless steel identification plate secured with brass rivets.
- The load chain end stop design helps ensure load integrity.
- Thrust roller bearings are fitted to the bottom hook to allow the load to swivel smoothly and easily when under load (as per Australian standard requirements).
- Both hooks are fitted with cast steel safety latches.
- Each hoist has an individual, traceable serial number and is supplied with a Test Certificate.
- Durable powder coated finish.

Options

- Chain bags to suit various lift heights available.
- Extra lift heights for load chain and hand chain are available on request.



Product Code		800110EB
Rated Capacity	tonne	1
Standard Lift	m	10
Falls of Chain		1
Effort to Lift Rated Capacity	N	309
Test Load	kN	12.5
Net Weight	Kg	11.9
Load Chain Diameter	mm	6
Weight per extra metre lift	Kg	1.8
Clearance Dimensions		
	A	mm 143
	B	mm 156
	C	mm 317
	D	mm 27



STAGE INTEGRAL PUSH TROLLEY & CLAMP

Complies with AS1418.2

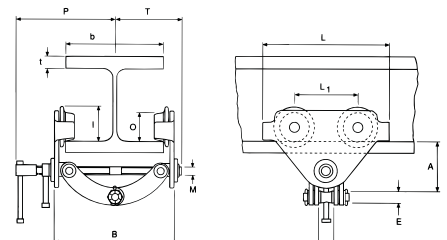
Model: 270020YTEB

Rated Capacity 2 tonne

A safe and secure attachment point to overhead girders that provides easy movement along the girder when repositioning is required. Suitable for mounting most types of electric hoists, chain and lever blocks or other related equipment.

Features & Benefits

- Designed to operate on a variety of beam types (RSJ, UB and WC).
- Anti-derailment end plates incorporated into the design for additional safety.
- Trolley wheels incorporate pre-greased roller bearings for easy movement.
- Fully adjustable to fit a wide range of flange widths from 75 to 200mm.
- Integrated load bar for reduced headroom.
- Zinc plated threaded spindle mechanism for long term corrosion protection.
- All steel construction for durability.
- Custom finished in black enamel.
- The easy-lock lever secures the spindle against the side plate preventing any movement along the beam.
- All PRO-3G Integral Push Trolley & Girder Clamps are stamped with an individual serial number and are supplied with a Test Certificate that relates to that number.
- Factory tested to 150% of the rated capacity with results shown on the Test Certificate.



Rated Capacity Tonnes	Adjustable Beam width mm	Net Weight kg	Dimensions shown in mm										
			A	D	E	I	L	L1	M	O	P	T	t max
2	75 - 200	9.9	106-155	42	20	71.5	260	130	M18	60	205	139	25

ENTERTAINMENT



Stage rigging gear that always gives a great performance.

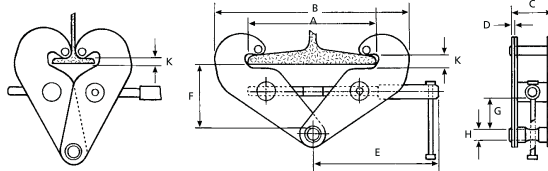
STAGE GIRDER CLAMPS Complies with AS4991:2004

Model: 270010YB & 270020YB
Rated Capacity 1 and 2 tonne

Specifically designed to provide a permanent or non-permanent lifting or anchor point for attachment to universal beams and girders.

Features & Benefits

- Suitable to fit an extensive range of beams and RSJ girders from 75mm up to 230mm flange width.
- For improved safety the threaded adjustment screws are each secured by a recessed allen head screw which in turn locks the adjustment bar in position with a copper flat washer.
- Damage or stress to the flange is avoided by the unique jaw design which transfers the load away from the edge of the flange.
- Reduced head room is achieved with the integrated load bar.
- Rugged all steel construction for reliability and long service life.
- Finished in custom black enamel.
- Each PRO-3G Girder Clamp has an individual serial number on the identification plate as well as stamped on the side of the clamp.
- A Test Certificate is supplied with each clamp showing all relevant details for tracing and test reference to the manufacturer.
- Factory tested and loaded to 150% of the rated capacity before shipping.



BTECH Product Code	Rated Capacity Kg	Adjustable Beam width mm	Net Weight kg	Dimensions shown in mm											
				A		B		C	D	E	F		G	H	K
				max	min	max				min	max	min		min	max
270010YB	1000	75 - 230	3.8	266	186	400	66	4	230	90	115	44	20	14	21
270020YB	2000	75 - 230	4.8	266	186	400	74	6	230	90	115	44	20	14	21

STAGE ENDLESS ROUND SLING Complies with AS4497.1-1997

Model: STERS-1 & STERS-2
Rated Capacity 1 and 2 tonne

At theatres, concerts or large outdoor venues the rigging choice when overhead suspension or lifting equipment is required.

Features & Benefits

- Easily set up and lightweight compared to wire rope slings.
- Reduced risk of damage to equipment when lifting.
- Offers a good strength to weight lift ratio.
- Less chance of hand injuries when using.
- Cost competitive compared to chain or wire rope slings.
- Easy to store and maintain.
- Complies with AS4497.1-1997

See Page 91 for more details

BTS Code:	W.L.L kgs.	Length mtr.	Width mm.	Colour	Description
1,000kgs Polyester Round Sling					
BRB1000X0.5	1000	0.5	47	Black	Round Sling
BRB1000X1	1000	1.0	47	Black	Round Sling
BRB1000X1.5	1000	1.5	47	Black	Round Sling
BRB1000X2	1000	2.0	47	Black	Round Sling



BTS Code:	W.L.L kgs.	Length mtr.	Width mm.	Colour	Description
2,000kgs Polyester Round Sling					
BRB2000X0.5	2000	0.5	51	Black	Round Sling
BRB2000X1	2000	1.0	51	Black	Round Sling
BRB2000X1.5	2000	1.5	51	Black	Round Sling
BRB2000X2	2000	2.0	51	Black	Round Sling
BRB2000X2.5	2000	2.5	51	Black	Round Sling
BRB2000X3	2000	3.0	51	Black	Round Sling
BRB2000X4	2000	4.0	51	Black	Round Sling

ENTERTAINMENT



Stage rigging gear that always gives a great performance.

STAGE COMPACT LEVER BLOCK

Complies with AS1418.2

Model: XZ-0210B

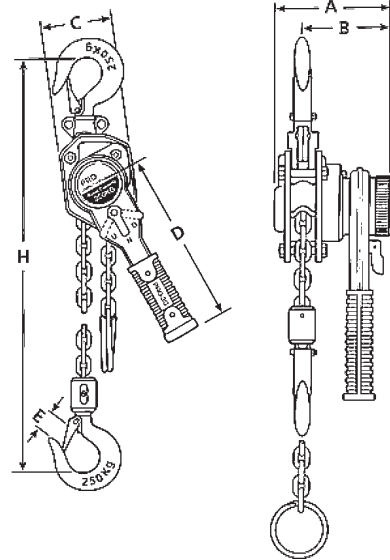
Rated Capacity 250Kg

A strong, lightweight professional working tool that weighs just 2.13kg and can easily be carried on a work belt or in a backpack. Suitable for pulling, lifting, tensioning, positioning and most lashing applications.



Features & Benefits

- All steel construction with impact resistant gear case cover.
- Fitted with an automatic Weston brake, weather protected for reliable service.
- Chain is Grade 80 with corrosion resistant electro galvanised finish.
- Standard lift is 1 metre.
- Gear system is free wheeling type.
- The top and bottom hooks swivel on roller bearings.
- Secure safety catches fitted to both hooks.
- Sturdy rubber grip handle.
- Each PRO-3G Compact Lever Block is factory tested to 125% of the rated capacity.
- Individual serial number is stamped on the identification plate for service reference.
- Test certificate available.
- Complies with AS1418.2



PRO-3G Product Code	Rated Capacity	Standard Lift length	Falls of chain	Effort to lift Rated Capacity	Test load	Headroom	Load Chain Dia.	Length of lever handle	Net Weight	Dimensions			
						H		D		A	B	C	E
	Kg	m		N	kN	mm	mm	mm	kg	mm	mm	mm	mm
XZ-0210B	250	1.0	1	260	3.125	245	4	160	3.12	87	66	27	61

ENTERTAINMENT

Stage rigging gear that always gives a great performance.

LIFTKET STAGE

STAGEKET

Since the eighties of the last century the electric chain hoists have got more and more important for the light, stage and entertainment industry. If used for simple build ups of trade fairs, the positioning of displays and screens or for the movement of weights during a show – the chain hoist from Wurzen can fulfil all these jobs.

One of our latest developments is the STAGEKET-line. It has been specially designed for the needs of the entertainment industry for the coming years. STAGEKET is the answer to all difficult tasks involving low operating noise, safety and flexibility.

Specially developed for applications in the field of lighting, stage and event technology, the STAGEKET electric chain hoists are capable of lifting loads from 125 kg to 6,300 kg. Safely, quietly, and - if desired - customized to your individual needs.

Our customers and visitors alike appreciate the compact design, easy handling and proven LIFTKET quality on site around the world.

We move with high-tech and at high-speed when engaged at mobile events or at fixed installations thereby making moments move.



STAGE APPLICATIONS

- Exhibitions/Museums • Shopping Centres
- Hotels • Convention Multipurpose Halls
- Concert Halls • Fairs • Open Air Events
- Party Locations • Schools • Town Halls
- Sports arenas • Theatres • TV Studios
- Amusement Parks

Features

- Use in normal or climbing position
- Simple assembly and disassembly
- Electromagnetic brake, optionally with additional safety brake
- Flip bag chain box that adapts itself to the installation position
- Galvanized or black phosphate load chain DAT according to DIN EN 818-7
- Direct or contactor control
- Low noise emission
- Optionally with gear limit switch and incremental encoder as well as sturdy and ergonomic handles made of aluminium
- Electronic load recording according to DGUV V17 standard (ehm. BGV C1)

STAGEKET							
Lifting speed at 50Hz [m/min]	125 kg	250 kg	500 kg	1000 kg	1600 kg	2500 kg	6300 kg
4		x	x	x	x	x	
5	x			x	x		
6		x					
8		x	x	x		x	
10			x	x	x		
12		x					
16				x			
20			x				
24		x					
5/1,25				x			
5,6/1,4							x
10/2,5		x		x			
16/4		x					

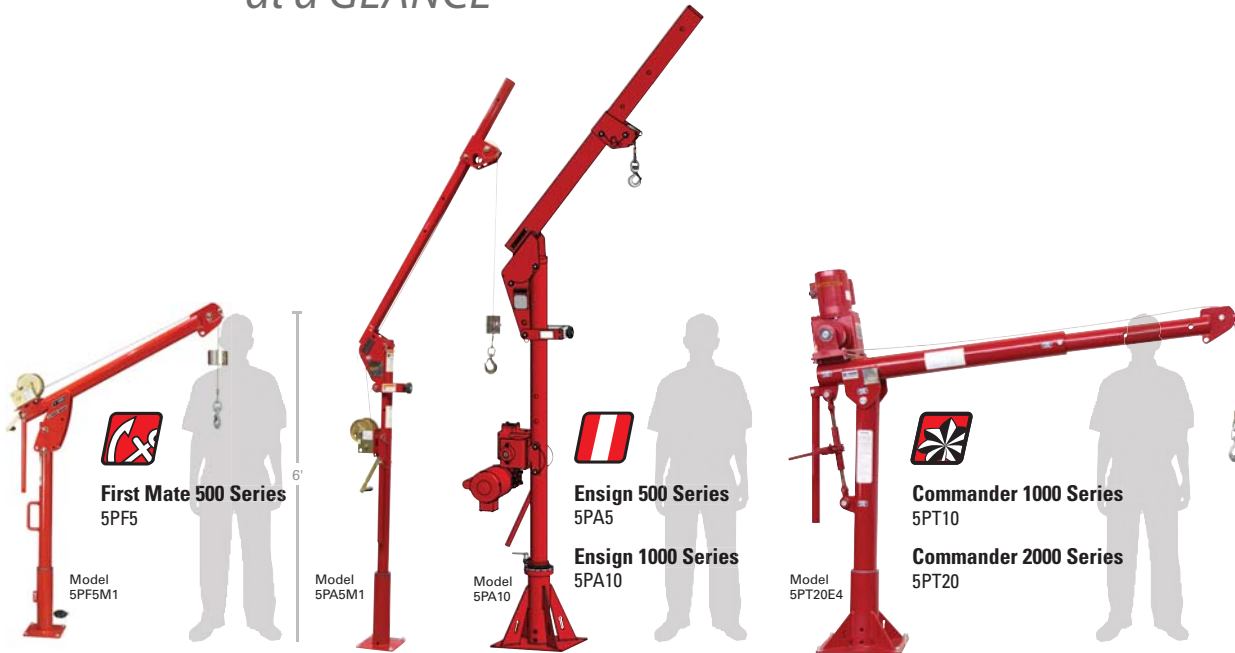
MATERIALS HANDLING



TERN® Winches & Cranes Proudly Made in the USA



PORTABLE / STATIONARY DAVIT CRANE at a GLANCE



MODEL	Max Capacity	PORTABLE		MAXIMUM HOOK				ADJUSTABLE BOOM	
		Yes	No	Reach	Height (above floor)	Standard Lift (below floor)	Long Lift (below floor)	Length	Angle
First Mate 500 Series 5PF5	358 kg 850 lb	●		1066 mm 42 in	1524 mm 60 in	19.8 m 65 ft	86.8 m 285 ft		●
Ensign 500 Series 5PA5	226 kg 500 lb	●		914 mm 36 in	2565 mm 101 in	22.8 m 75 ft	71.6 m 235 ft	●	●
Ensign 1000 Series 5PA10	544 kg 1200 lb	●		1219 mm 48 in	3048 mm 120 in	21.6 m 71 ft	85.3 m 280 ft	●	●
Commander 1000 Series 5PT10	544 kg 1200 lb	●		1676 mm 66 in	2159 mm 85 in	23.4 m 77 ft	86.8 m 285 ft	●	●
Commander 2000 Series 5PT20	904 kg 2000 lb	●		2082 mm 82 in	2463 mm 97 in	18.2 m 60 ft	132.5 m 435 ft	●	●
Captain 1500 Series 571	680 kg 1500 lb		●	2209 mm 87 in	2997 mm 118 in	17.1 m 56 ft	85.3 m 280 ft		⊙
Captain 2200 Series 572	997 kg 2200 lb		●	2692 mm 106 in	3556 mm 140 in	15.8 m 52 ft	144.7 m 475 ft		⊙
Admiral 3000 Series 5PT30	1360 kg 3000 lb	●		2844 mm 112 in	3886 mm 153 in	16.8 m 55 ft	144.7 m 475 ft		⊙

*Long lift ratings require electric winches. Max capacity may vary depending on wire rope diameters. Contact factory.

⊙ Boom angle adjustment with optional ratchet-style screw-jack.

■ Non-standard configuration.

MATERIALS HANDLING



TERN® Winches & Cranes Proudly Made in the USA



WINCHES					FINISHES						Quick Disconnect Anchor	WHY THIS CRANE
MANUAL			POWER		Powder Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Gray)		
Spur	Worm	SS Spur	AC	DC								
●	●	●	●	●	●		●	●	●	●	●	Lightweight, economical, easy to carry and easy to use, the First Mate 500 is perfect for a wide variety of simple jobs where adjustable height and reach are not required.
●	●	●	●	●	●		●	●	●	●	●	Longer mast and boom provide increased hook height, making the Ensign 500 an excellent choice for clearing tall objects, such as hand rails, or lifting tall loads.
●	●	●	●	●	●		●	●	●	●	●	Shorter horizontal reach than the Commander Series, the Ensign 1000 features increased vertical hook height for clearing tall objects, such as hand rails, or lifting tall loads.
●	●	●	●	●	●		●	●	●	●	●	Our work horse crane for mid-range loads, easy to carry when disassembled, and includes an adjustable boom to reach a wide range of height and reach combinations.
●	●	●	●	●	●		●	●	●	●	●	Our largest fully portable crane, capable of handling larger loads with an adjustable boom for a full range of height and reach options, with only a 6" concrete floor required.
●	●	■	●	●	●		●			●	●	Designed for permanent installation and smooth rotation, the Captain 1500 provides extended height and reach, and still only requires a 6" concrete floor for installation.
●	●		●	●			●			●		Designed for permanent installation and smooth rotation, the Captain 2200 handles larger loads with extended reach and height. Requires a foundation pad for installation.
●	●		●	●			●			●		The best of all worlds, handling large loads up to 1.5 tons, with an adjustable boom for high lifts and almost 10 feet of reach , and can still be disassembled for relocation

*Long lift ratings require electric winches. Max capacity may vary depending on wire rope diameters. Contact factory.

⊙ Boom angle adjustment with optional ratchet-style screw-jack.

■ Non-standard configuration.



NOTES

Notes



Beaver Technology Services (BTS) commitment to supply quality products and service means that we are able to supply a wide variety of services in our NATA accredited laboratory. This commitment starts with our AS/NZS ISO9001-2000 Quality Assurance right through to our highly trained and competent staff (many of our staff have been factory trained on a number of Materials Handling and Height Safety products).

Our NATA scope includes Australian, European and Military Standards. Our experienced staff have been providing technical assistance to the Construction, Mining, Maritime, Military, Engineering and Materials Handling sectors for many years. All of our testing work is carried out in accordance with the relevant standard.

All of our testing equipment is routinely calibrated as per Australian Standards (copies of calibration certificates are available on request) also all of our test beds produce computerised test certificates with graphical results showing force over time.

BTS has also developed a number of specialised testing and inspection regimes in conjunction with a number of customers to meet their specific needs, outside of the usual scope of products. BTS also ensures that dedicated equipment is tested in conjunction with the manufacturer's requirements and site specific needs.

Our NATA laboratory is located at our Girraween head office where we can offer the following services:

- Horizontal tensile testing to 270 metric tonne
- Compression testing to 100 metric tonne
- Vertical test machines in 30 & 100 metric tonne
- Portable load cells from 5 to 25 metric tonnes
- Chain block, lever block and hoist testing
- Magnetic crack testing (MCC)
- Product recertification
- Height safety dynamic and static testing to AS/NZS and EN standards
- Drop testing on height safety anchor points on our custom designed testing tower and also on our mobile drop test trailer (to AS/NZS5532-2013)
- Hardness testing (HRC, BHN & HV)
- Charpy impact testing

We also offer:

- On-site testing and inspections
- Hydraulic testing of Height Safety anchor points
- Testing officers / Riggers for your on-site emergencies
- Fast turn around with competitive rates
- Rigging services
- Setting up and maintenance of Testing and Equipment registers
- Issuing of test certificates

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Read Instruction Manual before using.



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