



BEAVER TECHNOLOGY SERVICES

Pty Limited

CATALOGUE

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WORLD RECOGNISED
ACCREDITATION
No. 18940



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 - BTH1200CS

BTECH® ENTRYFIT-CS HARNESS

BTH1200CS – Full body harness c/w front & rear fall attachment points and confined space retrieval loops.



PURPOSE:

- 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 to rear Dee ring or front loops to limit access to fall situations.
- Recovery & Rescue - using both front loops connected together.
- Retrieval loops for connection with Spreader Bar for confined space applications.

PRODUCT FEATURES

- Light weight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest attachment points as standard.
- Fully adjustable leg, chest & shoulder straps.
- Quick release forged buckles on chest strap and legs.
- Trauma straps (OPTIONAL).
- Rear Dee and front fall arrest rated loops.
- Shoulder loops for confined space application.
- 3rd party certified by Global Mark.



FULL BODY HARNESS

HOTWORK - BTH1000K

BTECH®

BTECH® HOTWORK HARNESS

BTH1000K – Hot Work Manufactured with Nomex and Kevlar fibres 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 presents 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.
- Fully adjustable leg, chest & shoulder straps.
- Quick connect forged buckles on chest strap and legs.
- Rear Dee and front fall arrest rated loops.
- 3rd party certified by Global Mark.
- Optional Trauma straps.

Note:

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



FULL BODY HARNESS

ENTRYFIT-L - BTH1100L

BTECH® ENTRYFIT-L HARNESS

BTH1100L - Entry Fit with Lanyard, Full body harness c/w front and rear fall attachment points with integrated 2 metre energy absorbing webbing lanyard fitted to the large "stand off' REAR DEE.



PURPOSE:

- Ideal for use in buckets of elevated work platforms as a suitable fall arrest device / harness.
- Recovery & Rescue - using both front loops connected together.

PRODUCT FEATURES

- Light weight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest attachment points as standard.
- Fully adjustable leg, chest & shoulder straps.
- Quick release forged buckles on chest strap and legs.
- Trauma straps (OPTIONAL).
- Rear Dee and front fall arrest rated loops.
- Integrated 2m (6.5 ft) energy absorbing webbing lanyard fitted to the large "stand off' REAR DEE.
- Lanyard fitted with double action safety hook with anti- roll-out feature.
- 3rd party certified by Global Mark.



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FULL BODY HARNESS



Premium Harness - SAFETYFIT - BTH4100

BTECH® SAFETYFIT 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 hardware and gear.
- Trauma straps fitted as standard.
- 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.
- 3rd party certified by Global Mark.



LANYARDS & ACCESSORIES

BTECH®

Lanyards

BTECH® LANYARDS

BTL1772 – Lanyard 2m (6.56 ft)

Energy absorbing webbing lanyard 2m (6.56 ft) c/w double action snap hooks each end featuring built-in anti roll out protection. 3rd party certified by Global Mark.



Double Action
Hooks with built in
roll out protection

BTL4222HD – Twin Lanyard 2m (6.56 ft)

Energy absorbing twin webbing lanyard 2m (6.56 ft) c/w 1 x double action snap hook and 2 x double action scaffold hooks. 3rd party certified by Global Mark.



BTL1552-ADJ – Lanyard 2m (6.56 ft)

Energy absorbing 2m (6.56 ft) adjustable rope lanyard c/w Energy absorber, kernmantle rope, triple action karabiner & rope grab. 3rd party certified by Global Mark.



BTL15517-2ADJ – Twin Lanyard 1.7m (5.57 ft)

Energy absorbing twin tail 1.7m (5.57 ft) adjustable rope lanyard c/w Energy absorber, kernmantle rope, triple action karabiners & rope grabs. 3rd party certified by Global Mark.



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LANYARDS & ACCESSORIES



Lanyards & Trauma Straps

BTL1772K – Lanyard Nomex / Kevlar 2m (6.56 ft)

Nomex / Kevlar energy absorbing webbing lanyard 2m (6.56 ft) c/w double action snap hooks each end featuring built-in anti roll out protection. 3rd party certified by Global Mark.



Nomex protective cover
with Velcro closure and
Zipper Pouch



Double Action
Snap Hooks with
built-in anti roll out
protection

BIO0160-TC – Shock Absorber

Energy absorbing webbing shock pack c/w triple action karabiner with retaining pin on each end.

(To be used in conjunction with Verticlimb ladder system)



BTECH® ACCESS / RETRIEVAL SPREADER BAR

BRO5110 – Spreader bar

The BTECH spreader bar is designed for use with harnesses incorporating confined space loops and is ideal for confined space entry/exit and rescue and retrieval applications providing both comfort and security when lowering and lifting workers. Typically used in conjunction with a Winch and Davit Arm or Tripod assembly to raise and lower a worker into and out of a confined space. When used together during emergency retrieval operations, they keep the victim in an upright position and reduce the space needed to extract them.



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.

HARNESS FEATURES

The EntryFit 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.

- 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.
- 3rd party certified by Global Mark.
- Optional Trauma straps.



KIT FEATURES

- 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 6kN (1350 lbs).
- A hard wearing 12mm (0.47 in) Kernmantle 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.
- 3rd party certified by Global Mark.

KIT CONTAINS

Code	Quantity	Description
BTH1200CS	1	BTECH ENTRYFIT Harness.
BTL1772	1	2m (6.56 ft) Energy absorbing Lanyard.
BR210015	1	15m x 12mm (49.21 ft x 0.47 in) Kernmantle rope with triple action hook one end and manual rope grab.
BRS1000X1.5	1	1t x 1.5m (2,204 lbs x 4.92 ft in) round sling / Attachment strap.
BNA25TO	2	2 x Triple action aluminium alloy oval karabiners.
BSG246RWK	1	BTECH Backpack / Kit Bag.



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ROOFERS KIT

BTECH® SAFETYFIT Roofers Kit - BTR4100

BTECH® SAFETYFIT ROOFERS KIT

BTR4100 – The BTECH SAFETYFIT 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.

HARNESS FEATURES

The BTH4100 is a multi-purpose work positioning confined space and fall arrest harness that is suitable for a wide variety of applications. Fall Arrest, Recovery & Rescue, Restraint, Confined Spaces & Work positioning.

- Light weight, colour fast polyester webbing, durable and UV resistant.
- Front and rear fall-arrest attachment points as standard.
- Fully adjustable leg, shoulder, waist and chest straps.
- Quick release forged buckles on legs, chest strap & waist belt.
- Rear Dee and front fall arrest rated loops.
- Adjustable waist belt with work positioning side Dee rings.
- Confined space shoulder loops.
- Padded shoulders, waist and legs.
- Tool loops fitted on the waist belt.
- Trauma straps.
- 3rd party certified by Global Mark.



KIT FEATURES

- 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 6kN (1350 lbs).
- A hard wearing 12mm (0.47 in) 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.
- 3rd party certified by Global Mark.

KIT CONTAINS

Code	Quantity	Description
BTH4100	1	BTECH SAFETYFIT Harness.
BTL1772	1	2m (6.56 ft) Energy absorbing Lanyard.
BR210015	1	15m x 12mm (49.21 ft x 0.47 in) Kermantle rope with triple action hook one end and manual rope grab.
BRS1000X1.5	1	1t x 1.5m (2204 lb x 4.92 ft) round sling / Attachment strap.
BNA25TO	2	2 x Triple action aluminium alloy oval karabiners.
BSG246RWK	1	BTECH Backpack / Kit Bag.



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ROOFERS KIT



BTECH® COMFORTFIT Roofers Kit - BTR8100

BTECH® COMFORTFIT ROOFERS KIT

BTR8100 – The BTECH COMFORTFIT 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.

HARNESS FEATURES

The BTH8100 is a versatile work positioning and fall arrest harness that is suitable for a wide variety of purposes. It provides workers with an excellent mix of balance and comfort when suspended; whilst still allowing freedom of movement.

- A multitude of applications with our versatile design. Fall Arrest, Recovery & Rescue, Restraint, Confined Spaces & Work positioning.
- Pole strap attachment points.
- Front and rear fall arrest 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).
- Gear loops for storing excess hardware and gear on the waist belt.
- Elasticised leg risers.
- 3rd party certified by Global Mark.



KIT FEATURES

- 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 6kN (1350 lbs).
- A hard wearing 12mm (0.47 in) Kernmantle 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.
- 3rd party certified by Global Mark.

KIT CONTAINS

Code	Quantity	Description
BTH8100	1	BTECH COMFORTFIT Harness.
BTL1772	1	2m (6.56 ft) Energy absorbing Lanyard.
BR210015	1	15m x 12mm (49.21ft x 0.47 in) Kernmantle rope with triple action hook one end and manual rope grab.
BRS1000X1.5	1	1t x 1.5m (2,204 lbs x 4.92 ft) round sling / Attachment strap.
BNA25TO	2	2 x Triple action aluminium alloy oval karabiners.
BSG246RWK	1	BTECH Backpack / Kit Bag.



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MOBILE PLANT SAFETY LINE KIT



BTECH® Mobile Plant Safety Line Kit - BTSHLLKIT

BTECH® MOBILE PLANT SAFETY LINE KIT

BTSHLLKIT – 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.



KIT 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.
- 3rd party certified by Global Mark.

KIT CONTAINS

Code	Quantity	Description
BTH1200CS	1	BTECH ENTRYFIT Harness.
BTL1552-ADJ	1	2m (6.56 ft) Single leg rope Lanyard.
BR210015	1	15m x 12mm (49.21 ft x 0.47 in) Kernmantle rope with triple action hook one end.
BNA035TR	2	Triple Action Karabiner.
BNS50TE	3	Large Triple Action Karabiner.
HWDB-2	1	IKAR Inertia Real.
BTSG011	3	Fibre Rope Grabs.
BRS2000x1	2	2T x 1m (4480 lb x 3.28 ft) Round Sling.
BSG246RWK	1	BTECH Backpack / Kit Bag.



HARDWARE ACCESSORIES



Karabiners

KARABINERS

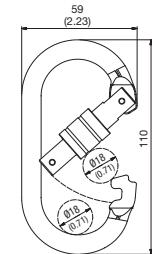
All BTS Karabiners are manufactured to the highest quality using corrosive resistant materials for safe and reliable service. Each is designed with safety double or triple action mechanism.

BSK0001



Screw Gate Oval Karabiner

Code:	BSK0001
Ultimate Strength:	23kN (5,170 lbs)
Karabiner Opening:	18mm (0.71 in)
Material:	Alloy Steel
Finish:	Nickel chrome plated body with orange gate screw

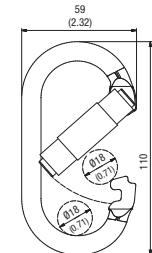
 mm
(inches)


BNS20TA



Triple Action Stainless Steel Oval Karabiner

Code:	BNS20TA
Ultimate Strength:	20kN (4,496 lbs)
Karabiner Opening:	18mm (0.71 in)
Material:	Stainless Steel
Finish:	Natural polished

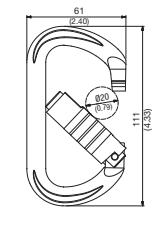


BNA25TO



Triple Action Aluminium Alloy Oval Karabiner

Code:	BNA25TO
Ultimate Strength:	25kN (5,620 lbs)
Karabiner Opening:	20mm (0.79 in)
Material:	Aluminium Alloy
Finish:	Orange body and black gate



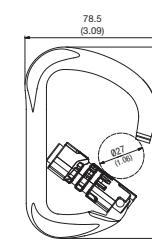
BNS50TE



Triple Action Large Square Gate Karabiner

Code:	BNS50TE
Ultimate Strength:	50kN (11,240 lbs)
Karabiner Opening:	27mm (1.06 in)
Material:	Alloy Steel
Finish:	Orange body and black gate

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



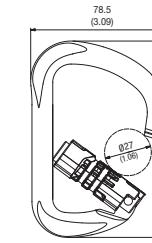
BNSS22TE



Double Action Stainless Steel Large Square Gate Karabiner

Code:	BNSS22TE
Ultimate Strength:	22kN (4,945 lbs)
Karabiner Opening:	27mm (1.6 in)
Material:	Stainless Steel
Finish:	Natural polished

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

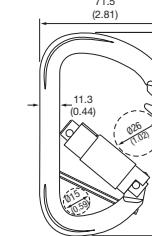


BNA035TR



Triple Action Karabiner with Retaining Pin

Code:	BNA035TR
Ultimate Strength:	35kN (7,868 lbs)
Karabiner Opening:	24mm (0.94 in)
Material:	Alloy Steel
Finish:	Orange body and black gate



HARDWARE ACCESSORIES



Safety Hooks

SAFETY HOOK

All BTS Safety Hooks 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.

BNIK728



BNK020DK



BTS0008



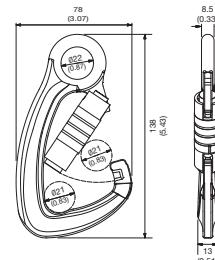
BYIH015



Fall arrest activation indicator

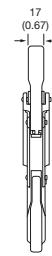
Triple Action Karabiner Safety Hook

Code:	BNIK728
Ultimate Strength:	28kN (6,294 lbs)
Hook Opening:	21mm (0.83 in)
Material:	Aluminium Alloy
Finish:	Orange body and black gate

mm
(inches)

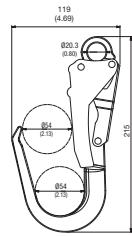
Double Action Karabiner Safety Hook

Code:	BNK020DK
Ultimate Strength:	20kN (4,496 lbs)
Hook Opening:	22mm (0.87 in)
Material:	Aluminium Alloy
Finish:	Orange body and black latch



Double Action Safety Scaffold Hook

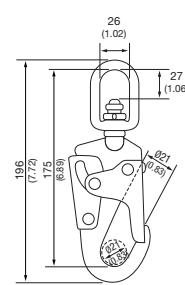
Code:	BTS0008
Ultimate Strength:	25kN (5,620 lbs)
Hook Opening:	54mm (2.13 in)
Material:	Alloy steel
Finish:	Nickel chrome plated body and orange safety latch



Double Action Swivel Safety Hook c/w Fall Arrest Indicator

Code:	BYIH015
Ultimate Strength:	23kN (4,945 lbs)
Hook Opening:	21mm (0.83 in)
Material:	Alloy Steel
Finish:	Zinc dichromate (gold finish)

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



HARDWARE ACCESSORIES



Rope Grabs

FIBRE & WIRE ROPE GRABS

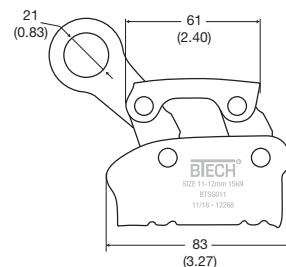
All BTS Rope Grabs are manufactured to the highest quality using corrosive resistant materials for safe and reliable service.



BTSG011

Fibre Rope Grab

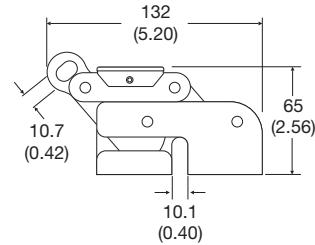
Code:	BTSG011
Ultimate Strength:	15kN (3372 lbs)
Size:	11-12mm (0.43-0.47 in)
Material:	Alloy Steel
Finish:	Zinc dichromate (gold finish)

 mm
(inches)


BTS1008

Stainless Steel Wire Rope Grab

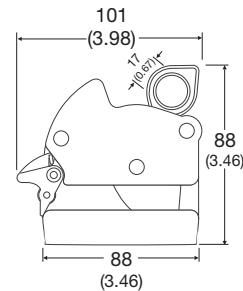
Code:	BTS1008
Ultimate Strength:	15kN (3372 lbs)
Size:	8 mm (0.31 in)
Material:	AISI 304 Stainless Steel
Finish:	Natural Polished



BTS1008I

Stainless Steel Wire Rope Grab

Code:	BTS1008I
Ultimate Strength:	15kN (3372 lbs)
Size:	8 mm (0.31 in)
Material:	AISI 304 Stainless Steel
Finish:	Natural Polished



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.





CONFINED SPACE

PRO-2G Davits

PRO-2G DAVITS



50015

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

60174



60217



30207

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 (6.88 ft) Offset reach 1.20m (3.93 ft).

PRODUCT FEATURES

- Rotates full 360 degrees.
- Man & Material Rated to 140Kg (310 lbs).
- Offset reach 1.20m (3.93 ft).
- Compatible with permanent davit bases.
- Stand-by person anchor point via winch interface bracket.

WORLD RECOGNISED
ACCREDITATION
No. 18940

FS603922

Specifications

Ultimate Strength Rating:	Jib: 15kN (3372 lbs). Bracket: 15kN (3372 lbs).
Capacity: Maximum number of users:	Max. 2 users, 1 person no more than 140Kg (310 lbs) per anchor point.
Allowable MAF/AAF for SRL/SRD:	6kN (1350 lbs).

PRO-2G DAVITS

Model Description	Reach m (ft)	Height m (ft)	Code
PRO-2G Analogue Series Davit c/w Winch Interface Bracket.	1.20 (3.93)	2.10 (6.88)	50015

PRO-2G DAVITS ACCESSORIES

Model Description	Code
Winch Interface Bracket c/w Pins & lanyard for Analogue Davit 50015/50048	60174
IKAR Rescue winch Bracket without Female Single Interface Brackets.	60202UIM-SP
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") HDG W/R with G80 Swivel S/L HK.	SSJC-C820
BTECH Man / Materials Rated Winch with 18, 30, 45, 60, 76 & 90 m (59, 98, 147, 196, 249 & 295 ft) wire rope.	See page 42-43
IKAR Inertia Reel and Recovery Winch 12, 18 or 24m (39, 59 or 78 ft).	HRA-12TA, HRA-18TA, HRA-24TA
BTECH Storage case.	30207

DAVIT PERMANENT BASES

Description	Material	Code
Core Mount Flush Mount.	Stainless Steel	BFMDB03SS
Flush Mount for wet concrete insert mounting.	Hot Dip Gal (MS)	BTS0026F
Floor Mount Davit Base c/w Screw locking pin.	Hot Dip Gal (MS)	BTS1109
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. To prevent build up of water and debris.	Stainless Steel	30069



BFMDB03SS



BTS0026F



BTS1109



BTS0025



BFMDB01SS



BTS0024



BFMDB02SS



30069

CONFINED SPACE

PRO-3G Davits

PRO-3G DAVITS



30106

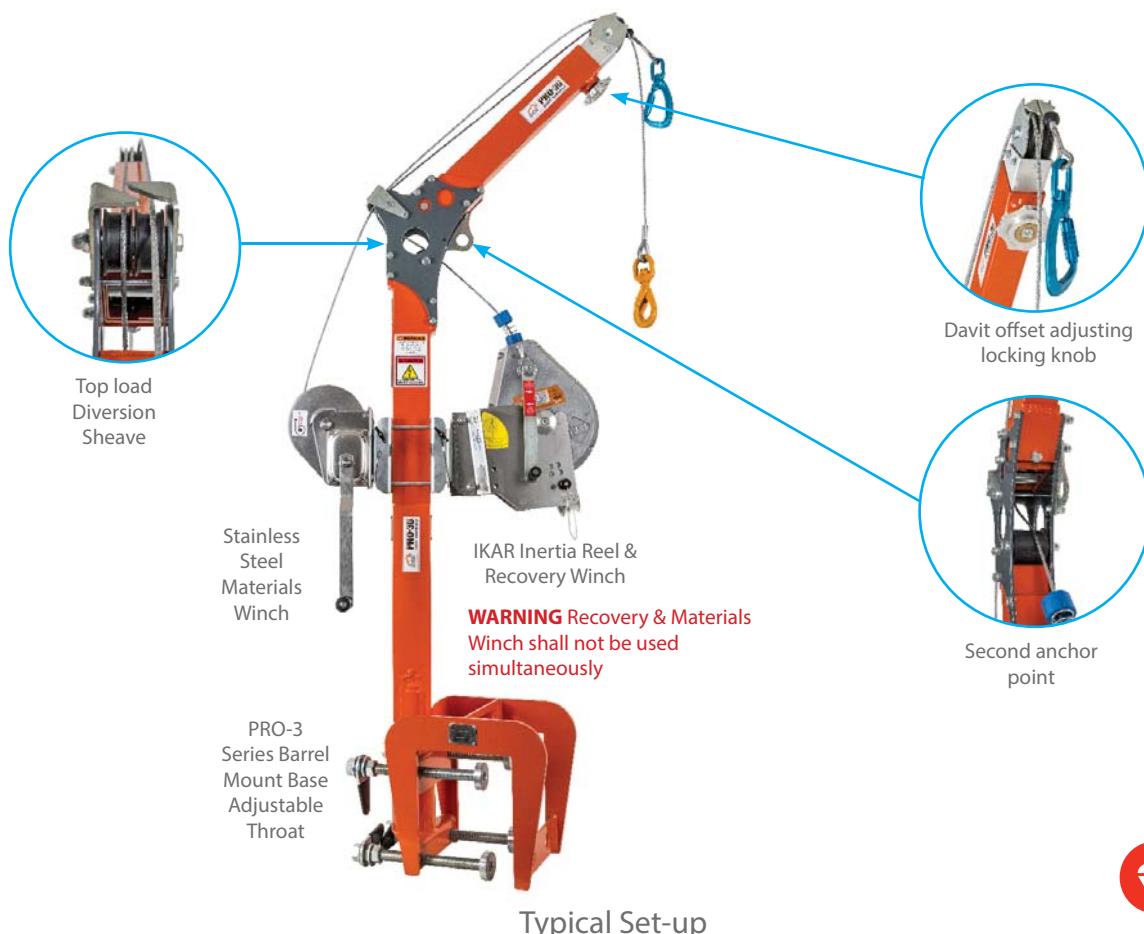
PRODUCT FEATURES

- Lightweight material graded 6061-T6 Aluminium.
- Powder-coated Safety Orange to increase visibility around a workplace .
- Modular in construction with no one component heavier than 10kg (22 lbs).
- Easy to store and can be transported by 1-person.
- Multi-offset mast with a variable reach from 0.5m (1.64 ft) to 0.7m (2.29 ft).
- 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 M.R.C. of 140kg (310 lbs) - (Material Rating Only).
- 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.

Specifications

Ultimate Strength Rating:	Jib: 12kN (2700 lbs). Mast: 13kN (2923 lbs).
Capacity (Rescue):	Max. 2 users, 1 person no more than 140kg (310 lbs) per anchor point.*
Capacity (Fall Arrest):	Max. 2 users, 1 person no more than 140kg (310 lbs) per anchor point.*
Allowable MAF/AAF for SRL/SRD:	6kN (1350 lbs).

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



WORLD RECOGNISED
ACCREDITATION
No. 18940



FS603922



CONFINED SPACE

PRO-3G Davits & Accessories

PRO-3G DAVITS & ACCESSORIES



PRO-3G DAVITS			
Model Description	Reach m (ft)	Height m (ft)	Code
PRO-3G Davit - 2.2m (7.21 ft) 3 piece c/w Quick Release Double Sided Universal Male Interface Bracket & 40003B BTECH storage/Carry Bag.	0.5 - 0.7 (1.64 - 2.29)	1.9 - 2.2 (6.23 - 7.21)	30106

PRO-3G DAVITS SPARE PARTS	
Model Description	Code
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 DAVITS ACCESSORIES	
Model Description	Code
Female Single Pro-3G Uni Interface Davit Winch Bracket.	60202UF
IKAR PRO-3G Davit Bracket c/w Female Single Interface Brackets.	60202UIM
BTECH Man / Materials Rated Winch with 18, 30, 45, 60, 76 & 90m (59, 98, 147, 196, 249 & 295 ft) wire rope.	See page 42-43
S/S Man Rated Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G1970 Wire rope with Double Action Swivel Safety Hook c/w Fall Arrest Indicator.	SSJC-C820M
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") HDG W/R with G80 Swivel S/L HK.	SSJC-C820
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") S/S W/R with G100 Swivel S/L HK.	SSJC-C820S
IKAR Recovery Winch 12, 18 or 24 m (39, 59 or 78 ft).	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

See pages 26, 27 & 28 for available bases.



SSJC-C820M



60202UF



SSJC-C820



60202UIM

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

30206 & 30207



SSJC-C820S



60217



40003B

CONFINED SPACE

PRO-4 Davits Accessories

PRO-4 DAVITS



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 (9.8 ft) and an offset reach of 2.0m (6.56 ft). 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, 1.7 & 2.0m (2.95, 3.93, 5.57 & 6.56 ft).
- Rotates full 360 degrees.
- Second anchor point via winch interface bracket.
- Internal overload indicator.
- Custom offset and heights available.
- Compatible with permanent davit bases.

Specifications

Ultimate Strength Rating:	Jib: 12kN (2700 lbs). Bracket: 15kN (3372 lbs).
Capacity: Maximum number of users:	Max. 2 users, 1 person no more than 140kg (310 lbs) per anchor point.
Allowable MAF/AAF for SRL/SRD:	6kN (1,350 lbs).

PRO-4 DAVITS

Model Description	Reach m (in)	Height m (in)	Code
PRO-4 Series Analogue Collapsible Davit.	2.0 (78.74)	2.8 (110.24)	50048

PRO-4 DAVITS ACCESSORIES

Model Description	Code
Winch Interface Bracket c/w Pins & Lanyard for Analogue Davit.	60174
IKAR Rescue Winch Bracket without Female Single Interface Brackets	60202UIM-SP
BTECH Man / Materials Rated Winch 18, 30, 45, 60, 76 & 90m (59, 98, 147, 196, 249 & 295 ft) wire rope.	See page 42-43
IKAR Inertia Reel & Recovery Winch 12, 18 or 24 m (39, 59 or 78 ft).	HRA-12TA, HRA-18TA, HRA-24TA
BTECH Storage case.	30207

DAVIT PERMANENT BASES

Description	Material	Code
Core Mount Flush Mount.	Stainless Steel	BFMDB03SS
Flush Mount for wet concrete insert mounting.	Hot Dip Gal (MS)	BTS0026F
Floor Mount Davit Base c/w Screw locking pin.	Hot Dip Gal (MS)	BTS1109
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 To prevent build up of water and debris.	Stainless Steel	30069

CONFINED SPACE

PRO-6G Davits

PRO-6G DAVITS



50506

PRODUCT FEATURES

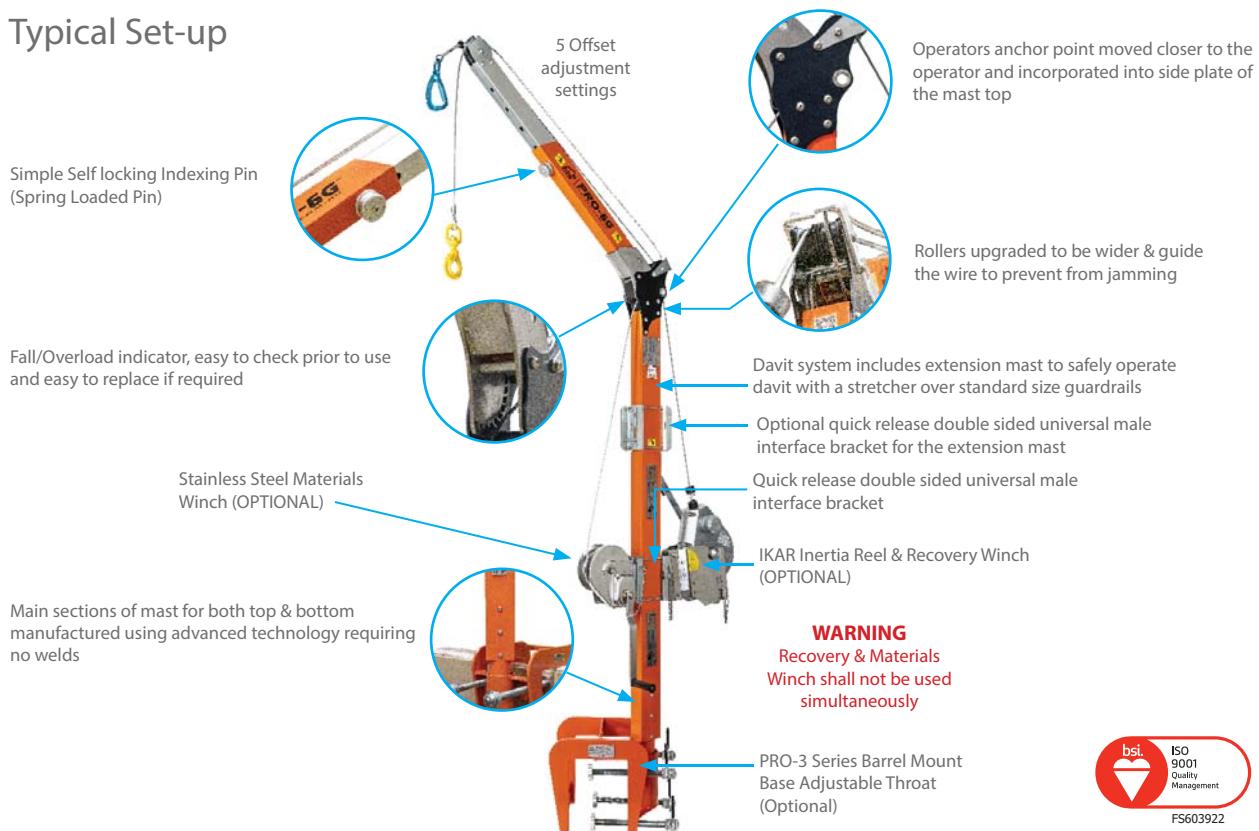
- Manufactured using 6061-T6 Aluminium.
- Powder-coated with AkzoNobel Interpon D610 advance coating.
- Modular construction of up to 4 pieces allowing for ease of transport and storage.
- Stainless steel CNC machined fail-safe device with mechanical fuses.
- 5 Offset adjustment settings from 0.5m (1.64 ft) to 0.75m (2.46 ft) with self locking indexing pin.
- No special tools required for assembly or disassembly.
- Suitable for both man and material lifting/lowering applications.
- Maximum rated capacity 140kg (310 lbs) material handling.
- Primary anchor is Man rated to 140kg (310 lbs) including all tools and clothing.
- Secondary anchor is man rated 140kg (310 lbs) (anchor point for winch operator).
- Suitable for use in both permanent and portable davit bases.
- Swivel 360 degrees.
- Quick connect winch interface bracket.
- Self locking Indexing Pin (Spring Loaded Pin) arrangement allows for quick and easy adjustment and locking of offset at different set intervals.
- No specialist tools required to repair the system after a fall or overload has occurred.
- Use of the in-line 0.6m (1.96 ft) mast extender allows for ease of positioning rescue stretchers over obstacles like guardrails.
- Patent Pending System.

Specifications

Ultimate Strength Rating:	Jib: 15kN (3372 lbs). Mast: 22.2kN (5000 lbs).
Capacity: Maximum number of users:	Max. 2 users, 1 person no more than 140kg (310 lbs) per anchor point.*
Allowable MAF/AAF for SRL/SRD:	6 kN (1,350 lbs).
Reach (5 Offset settings):	0.5m (1.64 ft) to 0.75m (2.46 ft).
Height:	Max: 2.79m (9.15 ft) Min: 1.96m (6.43 ft).

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

Typical Set-up



CONFINED SPACE

PRO-6G Davits & Accessories

PRO-6G DAVITS & ACCESSORIES



50506B



50506C



60202UB



50506D



50506E



SSJC-C820M



60202UF



SSJC-C820

PRO-6G DAVITS			
Model Description	Reach m (ft)	Height m (ft)	Code
PRO-6G Davit - 2.79m 4 piece c/w 1 x Quick Release Double Sided Universal Male Interface Bracket.	0.5m (1.64) to 0.75m (2.46)	Min: 1.96m (6.43) Max: 2.79m (9.15)	50506

PRO-6G DAVITS SPARE PARTS	
Model Description	Code
PRO-6G Davit - Section Boom.	50506B
PRO-6G Davit - Section Top Mast.	50506C
PRO-6G Davit - Section Mast Extension.	50506D
PRO-6G Davit - Section Bottom Mast.	50506E
Quick Release Double Sided Universal Male Interface Bracket.	60202UB

PRO-6G DAVITS ACCESSORIES	
Model Description	Code
Female Single Uni Interface Davit Winch Bracket.	60202UF
IKAR Rescue Winch Bracket c/w Female Single Interface Brackets.	60202UIM
BTECH Man / Materials Rated Winch with 18, 30, 45, 60, 76 & 90m (59, 98, 147, 196, 249 & 295 ft) wire rope.	See page 42-43
S/S Man Rated Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G1970 Wire rope with Double Action Swivel Safety Hook c/w Fall Arrest Indicator.	SSJC-C820M
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") HDG W/R with G80 Swivel S/L HK.	SSJC-C820
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") S/S W/R with G100 Swivel S/L HK.	SSJC-C820S
IKAR Recovery Winch 12, 18 or 24 m (39, 59 or 78 ft).	HRA-12TA, HRA-18TA HRA-24TA
Aluminium Equipment Storage Box for PRO-6G Davit.	50506BX
BTECH Storage/Carry Bag.	40003B

See pages 26, 27 & 28 for available bases





CONFINED SPACE

PRO-3G & 6G Davit Bases

PRO-3G & 6G DAVIT BASES

The PRO-3 Series Portable Bases are for rugged and demanding applications.

PORTABLE DAVIT BASES		
Description	Code	
PRO-3G & 6G Portable Base.	30070	
PRO-3G & 6G Portable Heavy Duty Base.	30115	
PRO-3G & 6G Bolt-On Flange Base.	30181	
PRO-3G & 6G External Tank Collar Base.-	30189	
PRO-3G & 6G Plus Hitch mount base.	30525	
PRO-3G & 6G Counterweight base.	30526	
PRO-3G & 6G I-Beam Clamp-On Sleeve 90mm (3.54 in) - 280mm (11.02 in).	30165	
PRO-3G & 6G Barrel Mount Base Adjustable Throat 30mm (1.18 in) - 620mm (24.40 in).	30029	
PRO-3G & 6G Barrel Mount Base Adjustable Throat 20mm (0.78 in) - 205mm (8.07 in).	30166R	
PRO-3G & 6G Sheet Piling Mount Base Adjustable Throat (0mm - 25mm).	30168S	

DAVIT PERMANENT BASES		
Description	Material	Code
Core Mount Flush Mount.	Stainless Steel	BFMDB03SS
Flush Mount for wet concrete insert mounting.	Hot Dip Gal (MS)	BTS0026F
Floor Mount Davit Base c/w Screw locking pin.	Hot Dip Gal (MS)	BTS1109
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. To prevent build up of water and debris.	Stainless Steel	30069



30070



30181



30189



30525



30526



30165



30029



30166R



30168S



BFMDB03SS



BTS0026F



BTS1109



BTS0025



BFMDB01SS



BTS0024



BFMDB02SS



30069

CONFINED SPACE

Portable Davit Bases

PRO SERIES PORTABLE DAVIT BASES

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



**PRO-3 Series Hitch mount base
(30093)**

- The PRO-3 Hitch mount davit base allows the user to connect to their vehicle and use its weight and stability as a counter weight.
- Weight 28kg (62 lbs).



**PRO-3 Series Plus Hitch mount base
(30525)**

- Independently adjustable support legs.
- Tow hitch counterweight system.
- Weight 24kg (53 lbs).



**PRO-3 Series Counterweight base
(30526)**

- Independently adjustable support legs.
- External plate counterweight (weights are NOT INCLUDED).
- Extensions are available to position system.
- Trolley counterweight base also available.
- Weight 54kg (119 lbs).

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 (4.42 ft) to Ø1.87m (6.13 ft).
- Weight 27kg (60 lbs).



PRO-3 Portable Heavy Duty base (30115)

- Independently adjustable support legs.
- Opening sizes Ø1.45m (4.75 ft) to Ø3.40m (11.15 ft).
- Weight 36kg (79 lbs).



**PRO-3 Bolt-On Flange base
(30181)**

- Independently adjustable support legs.
- Fits Flanges Ø0.32m (1.04 ft) to Ø3.35m (11.00 ft).
- Weight 29kg (64 lbs).



PRO-3 External Tank Collar base (30189)

- Independently adjustable support legs.
- Fits Flanges Ø0.32m 1.04 ft) to Ø3.35m. (11.00 ft).
- Grip range 5mm (0.19 in) - 83mm (3.26 in).
- Weight 30kg (66 lbs).

PORABLE I-BEAM & SHORING MOUNT DAVIT BASES



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

- Grip range 90mm (3.54 in) - 280mm (11.00 in).
- Weight 30kg. (66 lbs).



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

- Grip range 30mm (1.18 in) - 620mm (24.4 in).
- Weight 34kg. (75 lbs).



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

- Grip range 20mm (0.78 in) - 205mm (8.07 in).
- HD Raptor Coating.
- Weight 25kg (55 lbs).



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

- Grip range 0mm (0 in) - 25mm (1.0 in).
- HD Raptor Coating.
- Weight 18kg (40 lbs).

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.



Description	Material	
	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
Flush Mount for wet concrete insert mounting	BTS0026F	-
Floor Mount	BTS0025	-
Floor Mount c/w Screw locking pin.	BTS1109	-
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.

CONFINED SPACE

Rescue Stretcher Kit & Temporary Fall Arrest Post

BTS RESCUE STRETCHER KIT

A robust, compact and lightweight stretcher. The flexible material combined with a smooth finish allows for easy sliding and permits the stretcher to be rolled width ways or length ways to facilitate transport. No webbing passes under the stretcher preventing damage whilst dragging. Strong handles around the stretcher allow it to be maneuvered by several rescuers. The stretcher may be hauled vertically or horizontally. The lifting straps secure and allow the stretcher to mould around the casualty.

The BTS Stretcher may be used with a BTS Tripod or Davit for confined space rescue.

Contents:

BTS 100 Stretcher, Horizontal & Vertical Lifting Strap and Carry Bag



RESCUE 100 KIT

Conformance	Max. recommended user weight	Width	Length	Code
CE 93/42/EEC CLASS 1	150kg (330 lbs)	915mm (3 ft)	2300mm (7.54 ft)	SLIX100KIT

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.

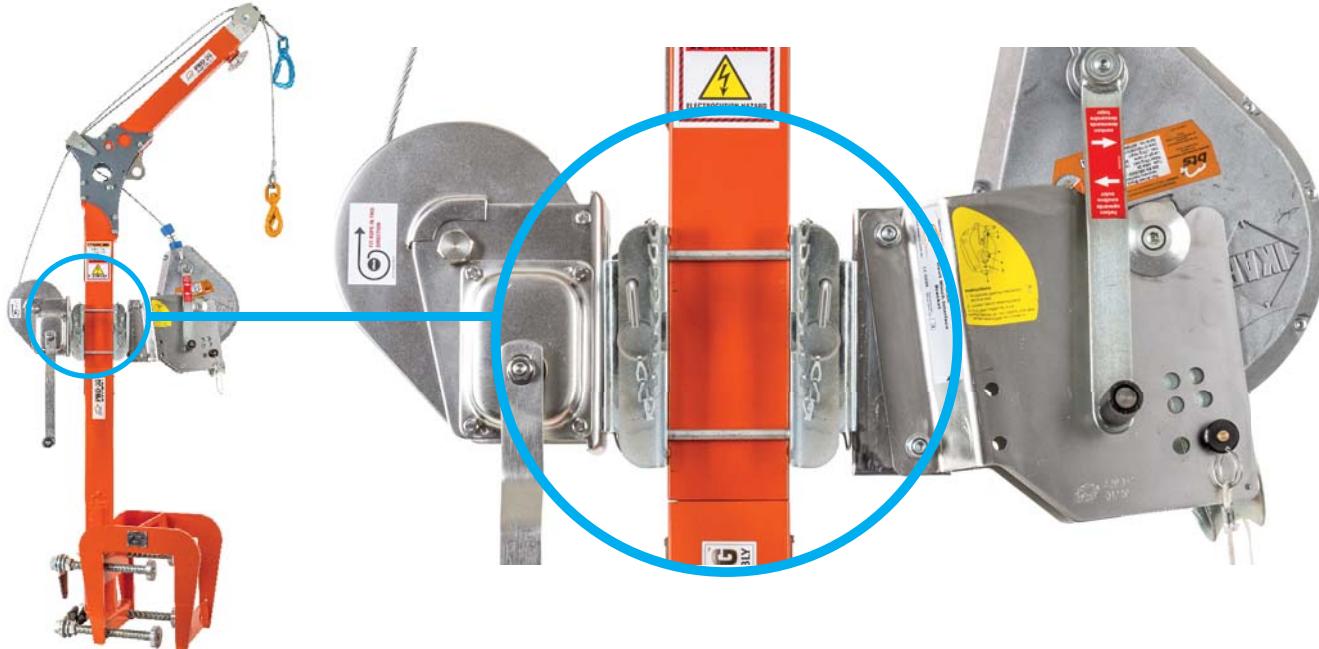
TEMPORARY FALL ARREST POST			
Description	Effective Length m (ft)	Ultimate Strength Rating	Code
Removable Anchor Post / Bollard.	1.1 m (3.60)	18kN (4046 lbs)	BPOST18KN



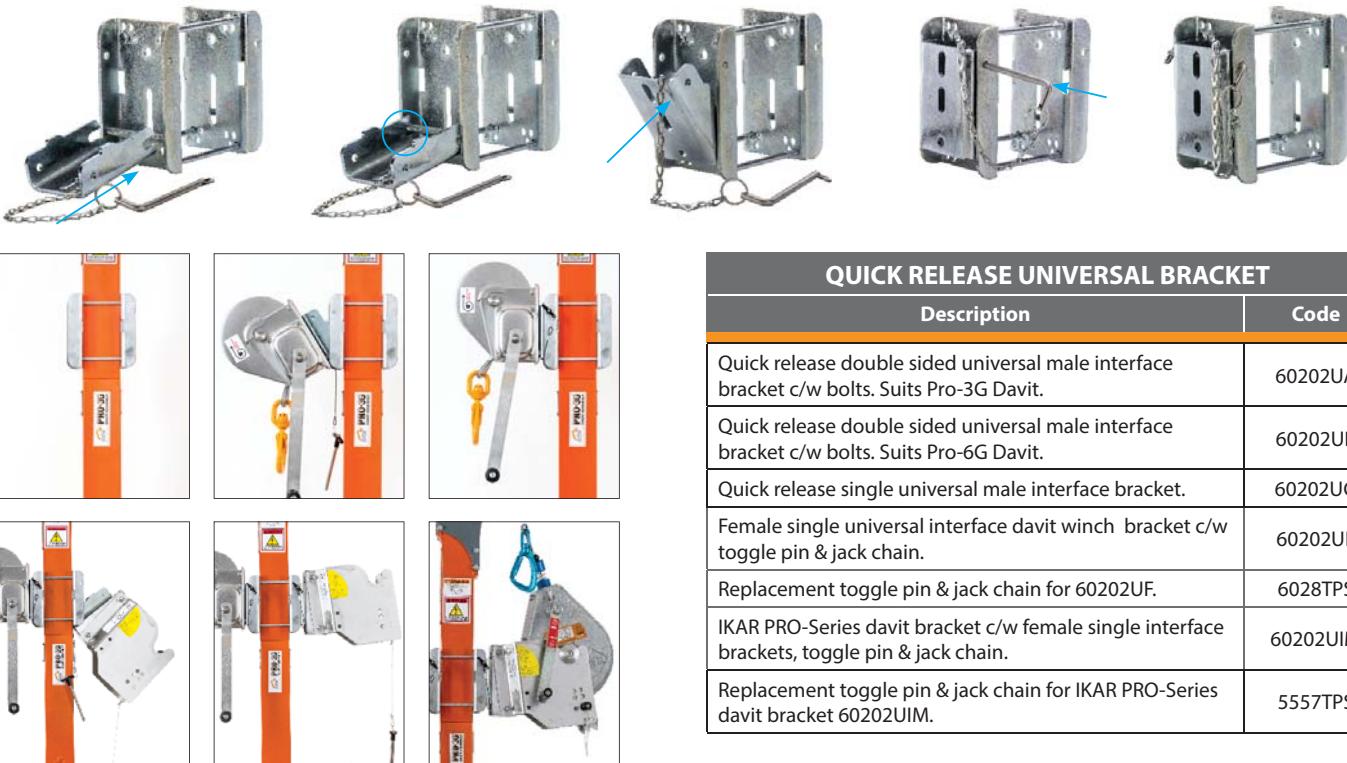
UNIVERSAL INTERFACE BRACKET

Universal Interface Bracket Assembly

UNIVERSAL INTERFACE BRACKET ASSEMBLY



Typical set-up



QUICK RELEASE UNIVERSAL BRACKET

Description	Code
Quick release double sided universal male interface bracket c/w bolts. Suits Pro-3G Davit.	60202UA
Quick release double sided universal male interface bracket c/w bolts. Suits Pro-6G Davit.	60202UB
Quick release single universal male interface bracket.	60202UG
Female single universal interface davit winch bracket c/w toggle pin & jack chain.	60202UF
Replacement toggle pin & jack chain for 60202UF.	6028TPS
IKAR PRO-Series davit bracket c/w female single interface brackets, toggle pin & jack chain.	60202UIM
Replacement toggle pin & jack chain for IKAR PRO-Series davit bracket 60202UIM.	5557TPS

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

Tripod

TRIPOD

The BTS Pro-3 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.



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.
- Use of chain optional.

Weight: 19.8 kg (43.65 lbs)

Maximum Height: 3.02 m (9.90 ft)

Minimum Height: 1.55 m (5.08 ft)

Capacity: Max. 2 users, 1 person no more than 140kg (310 lbs) per anchor point

Rated: 12kN (2,700 lbs) per anchor point

TRIPOD				
Model Description	Maximum Height m (ft)	Collapsed Height m (ft)	Weight kg (lbs)	Code
PRO-3, 3m 3 stage	3.02 (9.90)	1.55 (5.08)	19.8 (43.65)	40014
PRO-SERIES TRIPOD ACCESSORIES				
Model Description	Code			
Tripod Storage bag c/w wheels	30014SCB			
Quick Release Double Sided Universal Male Interface Bracket.	60202UAT			
Female Single Pro-Series Universal Interface Davit Winch Bracket.	60202UF			
Tripod Top Pulley Assembly.	30173			
IKAR PRO-Series Davit Bracket c/w Female Single Interface Brackets.	60202UIM			
Quick Release Male Tripod Bracket (Tool-less).	30014SB			
BTECH Man / Materials Rated Winch with 18, 30, 45, 60, 76 & 90m (59, 98, 147, 196, 249 & 295 ft) wire rope.	See page 42-43			
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") HDG W/R with G80 Swivel S/L Hook.	SSJC-C820			
S/S Material Winch c/w Female Interface Bracket with 18m x 6mm (59' x 1/4") S/S W/R with G100 Swivel S/L Hook	SSJC-C820S			
IKAR Recovery Winch 12, 18 or 24 m (39, 59 or 78 ft).	HRA-12TA, HRA-18TA HRA-24TA			
Diversion Sheave Block with S/S Karabiner .	41-Z20			
Spreader Bar.	BRO5110			





CONFINED SPACE

Tripod Accessories

TRIPOD ACCESSORIES

BTECH® DIVERSION SHEAVE BLOCK

BTECH® anchor point Diversion Sheave Block and Karabiner for attaching a HRA lifeline when a HRA Device is mounted onto an aluminium rescue tripod, or other BTS equipment such as; Davits or AirHooks.

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

Specifications

Pulley Type:	Single
Pulley Size:	Suits 6-8mm (1/4 - 5/16 in) wire rope.
Weight:	1.1Kg (2.42 lbs)
Rated Capacity:	1 person 140kg (310l bs) including operator and any equipment.

BTECH® DIVERSION SHEAVE BLOCK	
Code	Description
41-Z20	Diversion Sheave Block with S/S Karabiner.

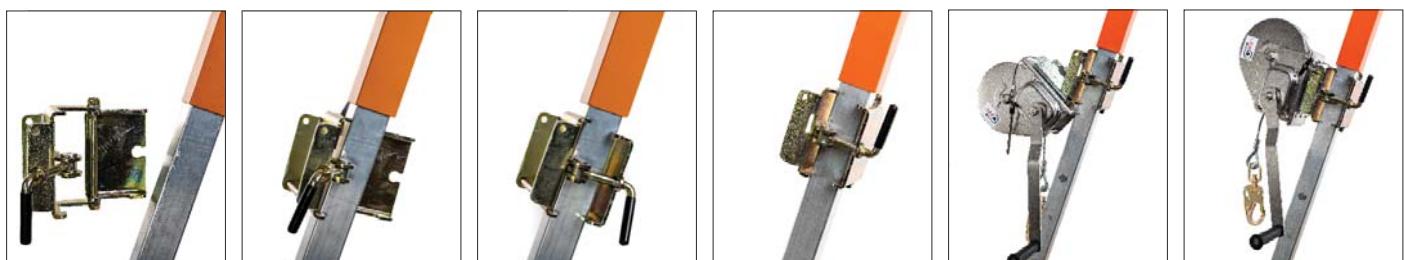


QUICK RELEASE TRIPOD BRACKET

The Universal quick release interface tripod bracket offers a tool free assembly and remove option on tripods when used in conjunction with a female universal interface bracket (60202UF).



QUICK RELEASE TRIPOD BRACKET	
Code	Description
30014SB	Quick Release Tripod Interface Bracket .



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 (26.24 ft) wide can be achieved using the PRO-Series Tripod and Beam Assembly. Horizontal beams are available in standard 3.5m (11.48 ft) length and custom lengths up to 8m (26.24 ft). Vertical and horizontal movement is controlled by the 2 winches supplied with the kit. The system is rated for 1 person.



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.

TRIPOD & BEAM ASSEMBLY	
Code	Description
MRTBS-3M	2 x 3.0m (9.84 ft) 3-Stage c/w 1 x 3.5m (11.48 ft) Horizontal Beam & Traveller.

ACCESSORIES / ADDITIONAL COMPONENTS	
Code	Description
60195	Power Drive Drill Adaptor for Recovery Rescue Winch 60003.

Specifications

Maximum Height (tripod):	3.0m (9.84 ft)
Maximum Height (beam):	2.5 (8.20 ft)
Maximum Length Rail:	3.5m (11.48 ft) Standard.
Rated Capacity:	1 person 140kg (310 lbs) including operator and any equipment.
Rail Length:	3.5m (11.48 ft) length or custom length up to 8m (26.24 ft).

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.

TOE-BOARDS

The optional Toe-boards 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	
Code	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.

EXTENSION SYSTEM

RAILGUARD 90	
Code	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.

Assembled Kit size	Overall size		Pole centres	
	Length	Width	Length	Width
Minimum size	1933mm (76 in)	1068mm (42 in)	1691mm (66 in)	826mm (32 in)
Maximum size	2643mm (104 in)	1568 (62 in)	2221mm (87 in)	1326mm (52 in)

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.



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 use in vertical, horizontal and inverted applications.



SRL & RECOVERY WINCHES

Self Retracting Lifelines

SELF RETRACTING LIFELINES

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.



SELF RETRACTING LIFELINES						
Code	Cable Type m (ft)	Housing	Weight kg (lbs)	Dimensions mm (inch)		Karabiner Length mm (inch)
HWB-2	2.0 (6.56) Web	Aluminium	0.8 (1.76)	240 x 84 x 61	(9.44 x 3.30 x 2.40)	140 (5.51)
HWB-2 X	2.5 (8.20) Web	Aluminium	1.1 (2.42)	425 x 85 x 67	(16.73 x 3.34 x 2.63)	280 (11.02)
HWB-3.5	3.5 (11.48) Web	Aluminium	1.1 (2.42)	270 x 88 x 64	(10.62 x 3.46 x 2.51)	140 (5.51)
HWPB-3.5TA	3.5 (11.48) Web	Plastic	1.2 (2.64)	326 x 104 x 78	(12.83 x 4.09 x 3.07)	140 (5.51)
HWPB-5.5TA	5.5 (18.04) Web	Plastic	1.5 (3.30)	300 x 130 x 78	(11.81 x 5.11 x 3.07)	140 (5.51)
HWPB-7TA	7.0 (22.96) Web	Plastic	1.8 (3.96)	300 x 165 x 80	(11.81 x 5.11 x 3.14)	140 (5.51)
HWPB-9TA	9.0 (29.52) Web	Plastic	2.3 (5.07)	335 x 168 x 88	(12.18 x 6.61 x 3.46)	140 (5.51)
HWPB-12TA	12.0 (39.37) Web	Plastic	3.4 (7.49)	370 x 195 x 95	(14.56 x 7.67 x 3.74)	140 (5.51)
HWPB-15 TA	15.0 (49.21) Web	Plastic	5.3 (11.68)	400 x 195 x 95	(15.74 x 7.67 x 3.74)	140 (5.51)
HWS-4.5	4.5 (14.76) Steel rope	Aluminium	2.7 (5.95)	400 x 130 x 78	(15.74 x 5.11 x 3.07)	185 (7.28)
HWS-6	6.0 (19.68) Steel rope	Aluminium	3.0 (6.61)	400 x 145 x 80	(15.74 x 5.70 x 3.14)	185 (7.28)
HWS-9TA	9.0 (29.52) Steel rope	Aluminium	3.7 (8.15)	455 x 160 x 85	(17.91 x 6.29 x 3.34)	185 (7.28)
HWS-12TA	12.0 (39.37) Steel rope	Aluminium	5.4 (11.90)	490 x 190 x 95	(19.29 x 7.48 x 3.74)	185 (7.28)
HWS-18TA	18.0 (59.05) Steel rope	Aluminium	6.9 (15.21)	540 x 220 x 97	(21.25 x 8.66 x 3.81)	185 (7.28)
HWS-24TA	24.0 (78.74) Steel rope	Aluminium	8.4 (18.51)	575 x 250 x 97	(22.63 x 9.84 x 3.81)	185 (7.28)
HWPS-3TA	3.0 (9.84) Steel rope	Plastic	1.9 (4.18)	390 x 104 x 78	(15.35 x 4.09 x 3.07)	185 (7.28)
HWPS-4.5TA	4.5 (14.76) Steel rope	Plastic	2.1 (4.62)	400 x 130 x 78	(15.74 x 5.11 x 3.07)	185 (7.28)
HWPS-6TA	6.0 (19.68) Steel rope	Plastic	2.5 (5.51)	420 x 145 x 80	(16.53 x 5.70 x 3.14)	185 (7.28)
HWPS-9TA	9.0 (29.52) Steel rope	Plastic	3.2 (7.05)	460 x 168 x 88	(18.11 x 6.61 x 3.46)	185 (7.28)
HWPS-12TA	12.0 (39.37) Steel rope	Plastic	4.9 (10.80)	500 x 195 x 95	(19.68 x 7.67 x 3.74)	185 (7.28)
HWPS-18TA	18.0 (59.05) Steel rope	Plastic	6.3 (13.88)	540 x 220 x 97	(21.25 x 8.66 x 3.81)	185 (7.28)



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

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.

IKAR ROBUSTO					
Code	Cable Type m (ft)	Housing	Weight kg (lbs)	Dimensions mm (inch)	Karabiner Length mm (inch)
H-12TA	12.0 (39.37) Steel rope*	Aluminium	5.9 (13.0)	450 x 195 x 90 (17.71 x 7.67 x 3.54)	185 (7.28)
H-18TA	18.0 (59.00) Steel rope*	Aluminium	9.5 (20.94)	550 x 240 x 100 (21.65 x 9.44 x 3.93)	185 (7.28)
H-24TA	24.0 (78.74) Steel rope*	Aluminium	13.5 (29.76)	630 x 275 x 110 (24.80 x 10.82 x 4.33)	185 (7.28)
H-33TA	30.0 (98.42) Steel rope*	Aluminium	18.0 (39.68)	640 x 320 x 120 (25.19 x 12.59 x 4.72)	185 (7.28)
H-42TA	42.0 (137.79) Steel rope*	Aluminium	27.2 (59.96)	750 x 370 x 120 (29.52 x 14.56 x 4.72)	185 (7.28)
H-65TA	65.0 (213.25) Steel rope*	Aluminium	38.0 (83.77)	780 x 390 x 150 (30.70 x 15.35 x 5.90)	185 (7.28)
HPB-7TA	7.0 (22.96) Webbing*	Plastic	2.9 (6.39)	370 x 195 x 100 (14.56 x 7.67 x 3.93)	185 (7.28)
HPB-12TA	12.0 (39.37) Webbing*	Plastic	4.4 (9.70)	550 x 240 x 100 (21.65 x 9.44 x 3.93)	185 (7.28)
HPS-6TA	6.0 (19.68) Steel rope*	Plastic	3.0 (6.61)	430 x 150 x 91 (16.92 x 5.90 x 3.58)	185 (7.28)
HPS-12TA	12.0 (39.37) Steel rope*	Plastic	4.6 (10.14)	470 x 190 x 114 (18.50 x 7.48 x 4.48)	185 (7.28)
HPS-18TA	18.0 (59.00) Steel rope*	Plastic	6.7 (14.77)	540 x 225 x 96 (21.25 x 8.85 x 3.77)	185 (7.28)



* 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

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.



HWDB-2

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.

HWDB-2-R



TWIN SELF RETRACTING LIFELINES							
Code	Description	Cable Type	Housing	Weight kg (lbs)	Connector	Dimensions	Hook Length mm (inch)
HWDB-2	TWIN Self Retracting Lifeline	2 x 2m (6.56 ft) Web	Aluminium	1.9 (4.18)	IKV20	250 x 165 x 60 (9.84 x 6.49 x 2.36)	180 (7.08)
HWDB-2-R	TWIN Self Retracting Lifeline	2 x 2m (6.56 ft) Web	Aluminium	2.8 (6.17)	IKV25	250 x 165 x 60 (9.84 x 6.49 x 2.36)	280 (11.02)

SRL & RECOVERY WINCHES



Self Retracting Lifelines & Recovery Winches

SRL FOR ELEVATED WORK PLATFORMS

The 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 work environments.
- Swivelling anchorage connector point to prevent twisting of webbing when in use.
- Extremely light weight at 0.96 kg (21.16 lbs).
- Overall retracted length of 370mm (14.56 in).
- Tested successfully over an edge with Radius $r=0.5\text{mm}$ (1/64 in).



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

Code	Description	Cable Type m (ft)	Housing	Weight kg (lbs)	Dimensions mm (inch)	Karabiner Length mm (inch)	M.A.F. kN (lbs)
ACB 1.8	Self Retracting Lifeline for EWP.	1.8 (5.90) Web	Plastic	0.96 (21.16)	240 x 83 x 130 (9.44 x 3.26 x 5.11)	130 (5.11)	3kN (675 lbs)

SELF RETRACTING LIFELINE WITH SELF RESCUE

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. 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.

SRL WITH AUTOMATIC LOWERING

Code	Cable Type m (ft)	Housing	Weight kg (lbs)	Dimensions mm (inch)	Karabiner Length mm (inch)
HAS-9TA	9.0 (29.52) Steel rope	Aluminium	5.0 (11.00)	455 x 160 x 120 (17.91 x 6.29 x 4.72)	185 (7.28)
HAS-18TA	18.0 (59.00) Steel rope	Aluminium	11 (24.25)	580 x 232 x 135 (22.83 x 9.13 x 5.31)	185 (7.28)
HAS-30TA	30.0 (98.42) Steel rope	Aluminium	17 (37.47)	610 x 280 x 140 (24.00 x 11.00 x 5.51)	185 (7.28)
HAS-9E	9.0 (29.52) VA-Rope	Aluminium	5.0 (11.00)	455 x 160 x 120 (17.91 x 6.29 x 4.72)	185 (7.28)
HAS-18E	18 (59.00) VA-Rope	Aluminium	11 (24.25)	580 x 232 x 135 (22.83 x 9.13 x 5.31)	185 (7.28)

PRODUCT FEATURES

- Maximum load : 136kg (300 lbs)
Max. load (only HAS-30) : 100kg (220 lbs)
- Proof load EN 341 : 170kg (375 lbs)
- Static proof load 1496 : 20kN (4,496 lbs)
- Maximum descent speed: 0.5m/s
- Steel rope size: Ø 4.8mm (3/16 in)
- Certified for 1 person.
- Aluminium housing.



HAS-18TA

HAS-30TA

SRL & RECOVERY WINCHES

Self Retracting Lifelines & Recovery Winches

IKAR RESCUE RECOVERY WINCHES

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

PRODUCT FEATURES

- Aluminium or Plastic Housing.
- Galvanized steel cable lifeline.
- Certified for 1 person.

IKAR RESCUE WINCHES					
Code	Cable Type mm (ft)	Housing	Weight kg (lbs)	Dimensions mm (inch)	Karabiner Length mm (inch)
HRA-12TA	12.0 (39.37) Steel rope	Aluminium	7.0 (15.43)	450 x 195 x 180 (17.71 x 7.67 x 7.08)	185 (7.28)
HRA-18TA	18.0 (59.00) Steel rope	Aluminium	11.5 (25.35)	570 x 240 x 200 22.44 x 9.44 x 7.87)	185 (7.28)
HRA-24TA	24.0 (78.74) Steel rope	Aluminium	16.0 (35.27)	630 x 275 x 220 (24.80 x 10.82 x 8.66)	185 (7.28)
HRA-33TA	30.0 (98.42) Steel rope	Aluminium	21.0 (46.29)	640 x 315 x 230 (25.19 x 12.40 x 9.05)	185 (7.28)
HRA-42TA	42.0 (137.79) Steel rope	Aluminium	40.0 (88.18)	740 x 370 x 235 (29.13 x 14.56 x 9.25)	185 (7.28)
HRA-65TA	65.0 (213.25) Steel rope	Aluminium	43.0 (94.79)	780 x 390 x 240 (30.70 x 15.35 x 9.44)	185 (7.28)
HRA-18PTA	18.0 (59.00) Steel rope	Plastic	10.3 (22.70)	620 x 231 x 152 (24.40 x 9.09 x 5.98)	185 (7.28)
HRA-12E	12.0 (39.37) VA-Rope	Aluminium	7.0 (15.43)	450 x 195 x 180 (17.71 x 7.67 x 7.08)	185 (7.28)
HRA-18E	18.0 (59.00) VA-Rope	Aluminium	11.5 (25.35)	570 x 240 x 200 (22.44 x 9.44 x 7.87)	185 (7.28)
HRA-24E	24.0 (78.74) VA-Rope	Aluminium	16.0 (35.27)	630 x 275 x 220 (24.80 x 10.82 x 8.66)	185 (7.28)
HRA-33E	30.0 (98.42) VA-Rope	Aluminium	21.0 (46.29)	640 x 315 x 230 (25.19 x 12.40 x 9.05)	185 (7.28)
HRA-42E	42.0 (137.79) VA-Rope	Aluminium	40.0 (88.18)	740 x 370 x 235 (29.13 x 14.56 x 9.25)	185 (7.28)
HRA-12D	9.0 (29.52) Dyn-Rope	Aluminium	6.0 (13.22)	450 x 195 x 180 (17.71 x 7.67 x 7.08)	185 (7.28)
HRA-18D	15.0 (49.21) Dyn-Rope	Aluminium	10.1 (22.26)	570 x 240 x 200 (22.44 x 9.44 x 7.87)	185 (7.28)
HRA-24D	20.0 (65.61) Dyn-Rope	Aluminium	14.1 (31.08)	630 x 275 x 220 (24.80 x 10.82 x 8.66)	185 (7.28)

IKAR ACCESSORIES	
Code	Description
41-S30	Winch chain drive, available for all HRA devices.
60202UIM-SP	Bracket for IKAR HRA to PRO-Series Davit & Tripod.
60202UIM	Bracket for IKAR HRA to PRO-Series Davit & Tripod - includes female adaptor.



60202UIM-SP
Ikar Bracket

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



60202UIM
IKAR HRA to PRO-Series
Davit & Tripod - includes
female adaptor.

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

MAN RATED WINCHES

Man Rated Winches & Accessories

STAINLESS STEEL HAND BRAKE WINCH

Designed for use with BTS PRO Series davits & tripods.

PRODUCT FEATURES

- Compact design.
- Rated Capacity: 140Kg (310 lbs) (Lifting) in line with Man Rated PRO-Series davits & tripods.
- 5:1 gear ratio.
- Very low operator effort required for easy operation.
- Double pawl safety feature.
- Stainless steel construction Grade 304.
- Automatic weather proof Weston brake.
- Automatic load actuated breaking system, no free wheeling under load.
- Winch bearings made from bronze for additional corrosion resistance.
- Ergonomic rubber handle.
- Enclosed gear train.
- Minimum handle effort to lift or pull.
- C/w 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G1970 Wire rope.
- C/w Double Action Swivel Safety Hook with fall arrest indicator.
- Quick Release female Single Universal Interface Bracket c/w locking toggle pin & jack chain lanyard designed specifically to match BTS Universal quick release interface tripod bracket (30014SB) or BTS Quick Release Double Sided Universal Male Interface Bracket (60202UA).

STAINLESS STEEL HAND BRAKE WINCH	
Code	Description
SSJC-C820M	Stainless Steel Hand Brake Winches c/w 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G1970 Wire rope, Double Action Swivel Safety Hook with fall arrest indicator & Quick Release Single Universal Interface Bracket.
SSJC-C820MS	Same as above, but with 6mm 7 X 19 Grade 316 Stainless Steel wire rope.
6028TPS	Replacement toggle pin & jack chain for 60202UF.



Note:
When using these winches for passenger elevation (Man Riding) the person being elevated MUST also be attached to a secondary SRL device. When a person is attached to this winch at NO time shall the person be exposed to a potential fall that could result in an impact greater than 6kN.

MATERIAL RATED WINCHES

BIECH®

Material Rated Winches

STAINLESS STEEL HAND BRAKE MATERIALS WINCH

PRODUCT FEATURES

- Compact design.
- Rated Capacity: 140Kg (310 lbs) (Lifting) in line with Man Rated Pro-Series Davit and Tripods.
- 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.
- Winch bearings made from bronze for additional corrosion resistance.
- Ergonomic rubber handle.
- Enclosed gear train.
- Minimum handle effort to lift or pull W.L.L (Working Load Limit).
- C/w 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G2070 Wire rope.
- C/w 6mm (1/4") Grade 80 Eye Swivel Self Locking Hook yellow powder coated.
- Quick Release Single Universal Interface Bracket c/w locking pin & lanyard designed specifically to match BTS davit & tripod interface bracket.



SSJC-C820
SSJC-C820S

Compliance plate

Quick Release Single Universal Interface Bracket

Toggle pin & Jack chain



Typical configuration

STAINLESS STEEL HAND BRAKE WINCH

Code	Description
SSJC-C820	Stainless Steel Hand Brake Winches c/w 18m x 6mm (59' x 1/4") 7x19 H.D.G Grade G2070 Wire rope, 6mm (1/4") Grade 80 Eye Swivel Self Locking Hook & Quick Release Single Universal Interface Bracket.
SSJC-C820S	Same as above but with 6mm (1/4") Grade 100 Eye Swivel Self Locking Hook & Stainless Steel Rope.
6028TPS	Replacement toggle pin & jack chain for 60202UF.

NOTE:

Consult manual before use.

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

MAN / MATERIAL RATED WINCHES

BTECH®

Man / Material Rated Winches & Accessories

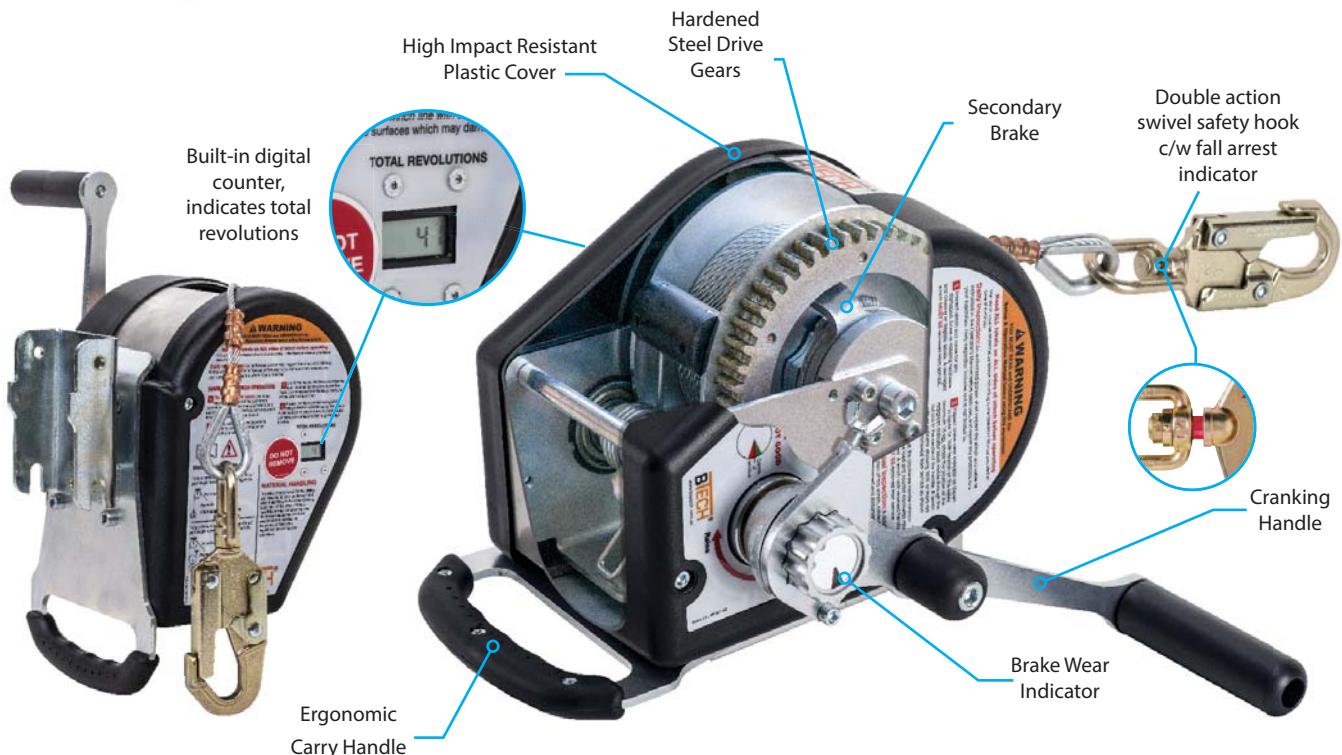
BTECH® MAN / MATERIAL RATED DIGITAL WINCHES

BTECH PRO-Series winches are available in a variety of cable lengths. With a W.L.L. of 140Kg (310 lbs), 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

- W.L.L. 140Kg (310 lbs)
- Winches are fitted with a digital counter so that the operator knows when the winch is due for service.
- 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.
- Power drive option helps prevent operator fatigue when recovering a worker from a deep excavation or tunnel.
- Ergonomic Carry Handle.
- Brake Wear Indicator.
- Secondary Brake.
- 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	Code	Cable Type	Weight
	60217	18m (59 ft) Stainless Steel rope	14.0kg (31 lbs)
	60219	18m (59 ft) Galvanised Steel rope	14.0kg (31 lbs)
	60218	30m (95 ft) Stainless Steel rope	15.2kg (33.5 lbs)
	60220	30m (95 ft) Galvanised Steel rope	15.2kg (33.5 lbs)
	60229	45m (147 ft) Stainless Steel rope	18.0kg (40 lbs)
	60231	45m (147 ft) Galvanised Steel rope	18.0kg (40 lbs)
	60230	60m (196 ft) Stainless Steel rope	19.5kg (43 lbs)
	60232	60m (196 ft) Galvanised Steel rope	19.5kg (43 lbs)
	60225	76m (249 ft) Stainless Steel rope	22.3kg (49 lbs)
	60227	76m (249 ft) Galvanised Steel rope	22.3kg (49 lbs)
	60226	90m (295 ft) Stainless Steel rope	23.8kg (52.5 lbs)
	60228	90m (295 ft) Galvanised Steel rope	23.8kg (52.5 lbs)



BTECH Pro-Series winch c/w 18m (59 ft) Galvanised Steel rope, double action swivel safety hook & quick release female single universal interface bracket



WINCH MOUNTING BRACKETS	
Code	Description
BTS60101	Interface bracket to mount PRO-1 BTECH Winch to PRO-Series Davit
60209	Interface bracket to mount PRO-2/3 BTECH Winch to PRO-Series Davit
60202UF	Female Universal interface bracket to mount PRO-1/2/3 BTECH Winch to PRO-Series Davit
30014SB	Quick release tripod bracket (Tool less)

BTECH WINCH BAGS

Code	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 (310 lbs)
Gear Ratio:	4:1
Weight: (Clutch Assembly)	2.23kg (4.91 lbs)
Weight: (4:1 Drive Assembly)	2.18kg (4.80 lbs)
Drill torque / Speed Requirements:	Minimum 20Nm (14.75 ft-lb), Max. 1200 RPM
Recommended Drill Make & Model	Hilti Model # UH240-A or similar

POWER DRIVE	
Code	Description
60195	Gear Reduction Drive 4:1 (Max Input 1200rpm, 310/620 lbs Clutch)



DESCENDERS

IKAR Controlled Descent Device Rescue Kit



CONTROLLED DESCENT DEVICE RESCUE KIT

Controlled descent rescue system with casualty lifting and remote reach capabilities; tested and certified to conform to EN/ANSI Standards.

Designed for workers using full body fall arrest harness in conjunction with energy absorbing lanyards; retractable type devices or guided type fall arresters offer a compact, fully assembled and easily transported rescue from height solution.

KIT CONTENTS

- IKAR ABS3WH controlled descent device with rescue lifting facility, for lifting and/or lowering the casualty.
- 1m webbing anchorage sling.
- Steel screw gate karabiner.
- Kernmantle rope Ø 10.5mm in standard lengths of 20m (65 ft), 50m (164 ft), 70m (229 ft) and 100m (328 ft) with IKV 11 small aluminium double action hook. Other rope lengths on request.
- IKAR extendable remote reach rescue pole (extendable up to 3.60m [11.8 ft]), with bracket to hold safety hook in gate open position.
- Robust backpack carrying and storage bag.
- User manual.

PRODUCT FEATURES

- Easy to use, low maintenance design.
- Pre-assembled for swift rescue.
- Pause and/or lower Rescue methods.
- Robust backpack carrying and storage bag.
- Single person load carry capacity.
- Direct and remote casualty attachment.
- World renowned German build quality.
- Weight approx. 6.2kg.

The ABS3WH device have automatic speed regulation. The brakes are controlled by centrifugal force which maintain a constant descent speed. An integral crank handle can be activated to disengage the automatic lower off, and by turning the handle the lifting facility is gained. The casualty can then be lifted to the original work platform or once the casualty has been raised sufficiently to release the used fall arrest device, the automatic function can be re-engaged to allow the casualty to be lowered. By using the lifting and release rescue action, the ABS3WH Rescue Kits are "NO CUT" rescue systems. These rescue kits can be used where the casualty can be reached by the rescue personnel and also when the casualty is hanging in free space below the rescue platform. The remote reach rescue pole extends, and the bracket holds the double action hook on the end of the rope in the gate open position. Once the hook locates in the casualty's harness, the pole is removed, and the safety gate closes and automatically locks.

These low maintenance devices have a hard wearing, shock proof aluminium housing, heavy duty plastic crank wheel and handle, and offer extremely low weight for the distance of rescue lower off available.



Specifications

Code	ABS 3 a WH
Maximum load	140 kg (310 lbs)
Minimum load	50 kg (110 lbs)
Static proof load	20kN (4,496 lbs)
Persons	1
Descent Speed	1.5m/s
Max. lifting performance	200m (656 ft)

RESCUE DEVICE PRE-RIGGED KITS		
Code	Description	Length
41-RSET/20	Rescue Kit	20m (65 ft)
41-RSET/50	Rescue Kit	50m (164 ft)
41-RSET/70	Rescue Kit	70m (229 ft)
41-RSET/100	Rescue Kit	100m (328 ft)

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 (1/2" x 49 ft)

MRG-9N-30 Auto Descender C/w 12mm x 30m (1/2" x 95 ft)

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 150kg [331 lbs]) from heights up to 100m (328 ft).

The MRG9N can be used in the vertical or horizontal axis. The MRG9N once loaded, will "free run" automatically at 0.8 m (2.62 ft) per second, lowering the person at a controlled constant speed.

Note: Other lengths available on request.



Specifications

Code	MRG-9N-15 or MRG-9N-30
Maximum descent	100m (328 ft)
Maximum load	150kg (331 lbs)
Minimum load	30kg (66 lbs)
Descent speed	0.8m/s
Rope size	12mm (1/2") x *15m (49 ft) or *30m (95 ft) Kernmantle
Service classification	Multi use, inspect after evacuation
Operating temperature	-30°C (-22°F) to + 40°C (104°F)
Class	A for EN 341

** Other lengths available.*



RESCUE DEVICE



BTECH Rescue Device

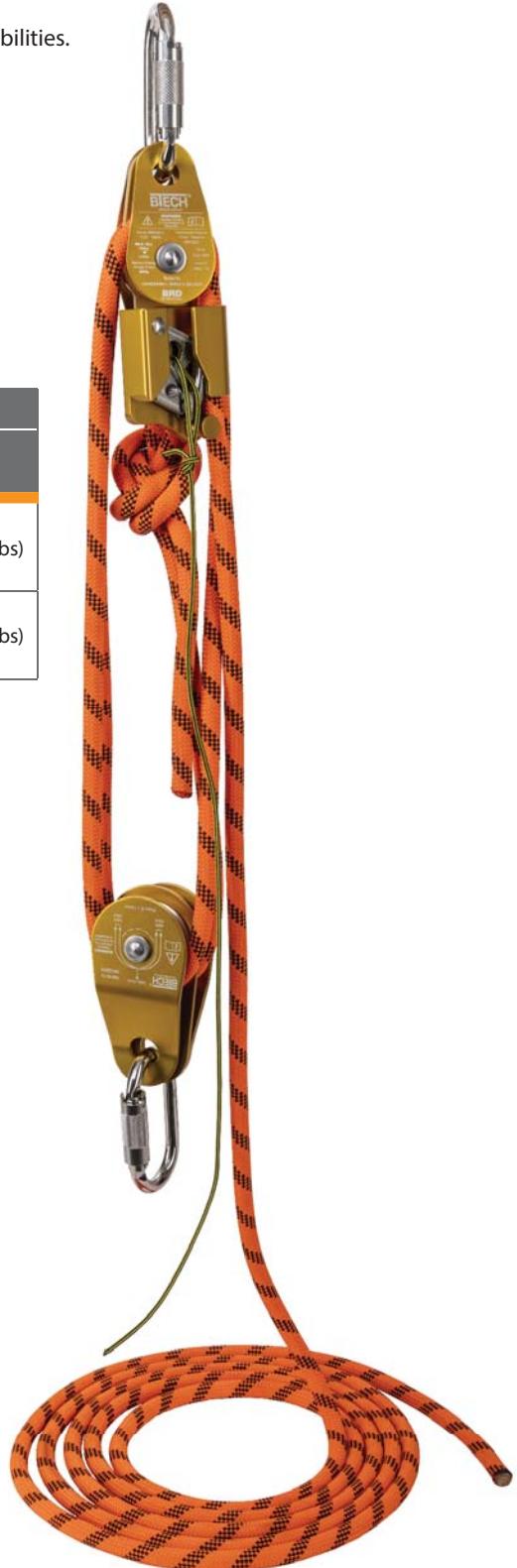
BTECH® RESCUE DEVICE

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-lock brake system for ascending and descending applications.
- High strength aluminium alloy component construction.
- 12mm Kernmantle rope.
- 4:1 mechanical advantage.
- Available in pre-rigged kits of 15m (49 ft), 30m (95 ft) and up to 100m (328 ft).

BTECH® RESCUE DEVICE PRE-RIGGED KITS					
Code	Description	Rope Length	Rope Size	Working Length	WLL
172015	BTECH Rescue Device c/w 15m (49 ft) Orange Kernmantle Rope.	15m (49 ft)	12mm (1/2")	3.75m (12 ft)	300kg (661 lbs)
172030	BTECH Rescue Device c/w 30m (95 ft) Orange Kernmantle rope.	30m (95 ft)	12mm (1/2")	7.5m (24.6 ft)	300kg (661 lbs)



HORIZONTAL SAFETY RAIL SYSTEM

Horizontal Aluminium Safety Rail System

HORIZONTAL SAFETY RAIL SYSTEM

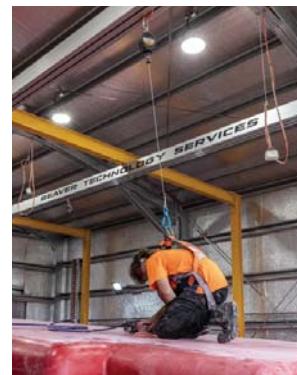
Innovative in design, the B-Rail Aluminium Overhead Rail and Trolley system is a proprietary overhead Limited Free Fall Arrest system that is suitable for use by multiple workers.

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

The B-Rail rigid rail system can span up to 10m (32 ft) between support brackets to allow for uninterrupted, smooth functioning travel via the proprietary ball bearing trolley system.

Ideal for 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.



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.
- Continuous twin track can have a span of 10m (32.8 ft) for up to 4 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.
- End stops prevent the trolley from coming off the end of the system.
- B-Rail proprietary ball bearing trolley system allows the user to connect to the rigid rail for uninterrupted smooth travel over the entire work area.
- The B-Rail Trolley is manufactured in aluminium alloy with hard wearing Acetal wheels on sealed ball bearings resulting in minimal wear and eliminating the opportunity of 'coil-back'.
- Available in custom lengths.



Specifications

System Capacity:	Four workers weighing a max. weight of 140kg (310 lbs) each including all clothing, tools, & equipment.
Arrest Force Rating for SRL:	4kN (900 lbs) MAX
Weight (10m assembled rail only):	150kg (331 lbs)
Weight (trolley):	0.9 kg (1.98 lbs) each
Rail Construction:	Extruded 6061-T6 Aluminium
Brackets:	Galvanized / Zinc-Plated Steel / Powder Coated Steel
Trolley Wheels:	Acetal with Sealed Ball Bearings
Hardware (minimum):	Grade 4.8 Zinc-Plated
Finish (aluminium):	Natural Finish
Standard Length:	10m (32.8 ft)
Rail Code: BTS7584	10m (32.8 ft) Twin Track (no trolleys)
Trolley Code: B70275	Four Bearing Wheel Trolley- 3 hole with extension tab



4 Wheel Trolley
Code: B70275

This product may be used as part of a complete fall arrest system designed, installed, and used under the supervision of a qualified person.

TEMPORARY FALL ARREST

Shipping 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 limited fall arrest anchor, two person limited free fall arrest or as a complete perimeter barricade system.

Also available as a stand alone post.

PRODUCT FEATURES

- Easy to install on top mount ISO corner casting.
- Rated for two (2) person tie-off unit at 18 kN (4,046 lbs).
- Adjustable Wire 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 140kg (310 lbs) per person when used as a limited free fall anchor point.
- Steel construction.



CONTAINER POST	
Code.	Description
CBPOST18 KN	18 kN (4,046 lbs) Removable Container Post.



Before using the SCAP, the user needs to be equipped with appropriate PPE and a full body harness.

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 (24 inches) 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

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 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 (1 inch) Polyester Tie Off Strap.
- 1 x Triple Action Aluminium Alloy Oval Karabiner.
- 1 x 8mm (5/16") Stainless Steel 7x7 Wire Rope Set 4.5m (15 ft) 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 Carry Bag.



LIFELINEKIT-40

Parts list:

- 1 x 25mm (1 inch) Polyester Tie Off Strap.
- 1 x Triple Action Aluminium Alloy Oval Karabiner.
- 1 x 8mm (5/16") Stainless Steel 7x7 Wire Rope Set 10m (33 ft) 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 Carry Bag.



Additional parts recommended but not included in the HLS Kit:

- 2 x CBPOST18KN – 18kN (4,046 lbs) Removable Shipping Container Anchor Post.
- 2 x BTECH full body harness.
- 2 x HWDB-2 – Double fall inertia reel aluminium housing c/w 2 x 2m (6.56 ft) webbing strap.
- 2 x BSK0001 - Screw Gate Oval Karabiner.



SAFE WORKING ZONES

SRL- Horizontal Life Line Safe Zone

SRL or 600mm (24") Energy absorber lanyard Safe Zone



TEMPORARY FALL RESTRAINT

BTS® ISO Container Static Line

BTS® ISO CONTAINER STATIC LINE

The BTS ISO Container Static Line is the ideal solution for workers needing to work safely on top of ISO Containers.

The BTS ISO Container Static Line is designed for maximum safety as a fall restraint system can be set-up in minutes and provides for continuous travel for 2 workers whilst providing unrestricted movement. Lightweight components allow for the entire system to be set-up from a platform ladder or similar by 1 worker and without the need to access the top of the ISO-Container.

Ideal for both temporary and permanent installations, all components are manufactured from the highest quality stainless steel and other material.

Features

- Low profile, high quality modular components.
- Ease of set-up and requiring basic hand tools.
- Uninterrupted access across the top of the ISO Container for 2 workers.



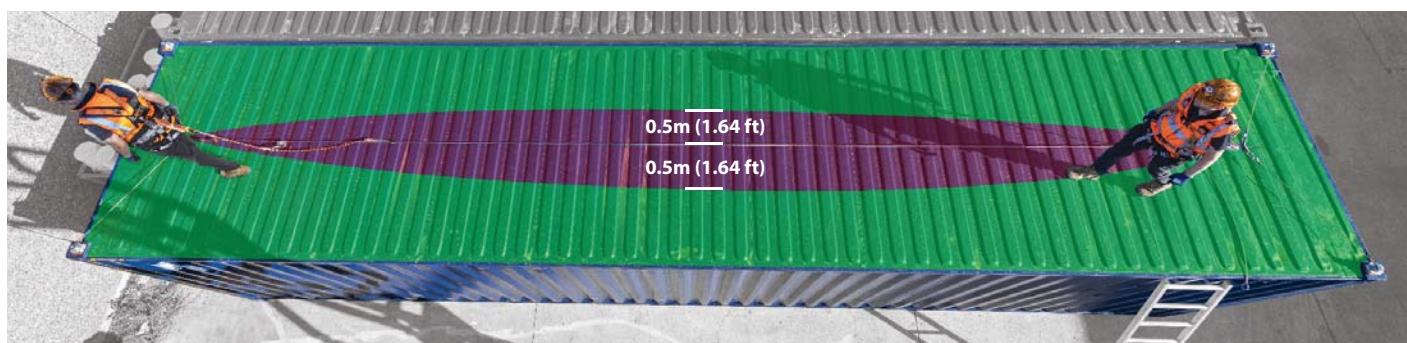
Single Worker Safe Zone



SAFE WORKING Zone



Two (2) Worker Safe Zone



SAFE WORKING Zone



NO GO Zone



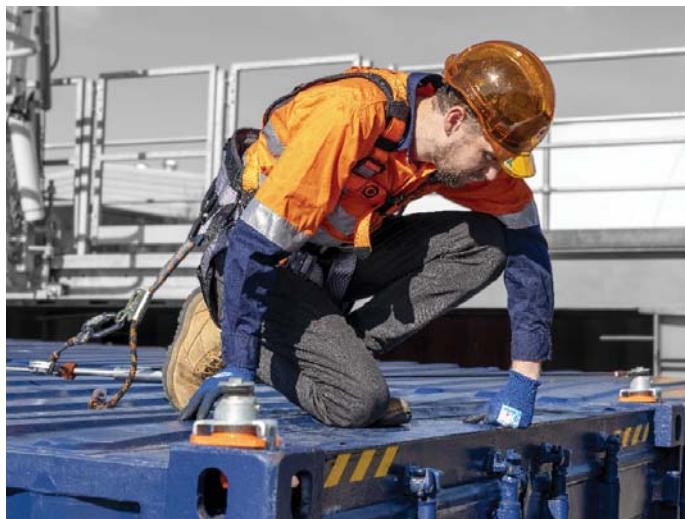
Note: a falling user could cause the line to deflect, potentially pushing or tripping a second user. To avoid this workers should not stand within 0.5m (1.64 ft) of the line when 2 people are using the system. (See diagram Above)

TEMPORARY FALL RESTRAINT



BTS® ISO Container Static Line

BTS® ISO CONTAINER STATIC LINE



20ft Code: LIFELINEKIT2-20

40ft Code: LIFELINEKIT2-40

Kit content

4 x Knuckle lock with attached stainless steel wire rope strap.

1 x Wire rope run kit.

1 x User connection kit.

Code: ISOLINEGLETT

1 x Fall restraint lanyard kit.

Code: BTL151.2-SDJ

Additional parts recommended but not included.

1 -Full body harness.

Code: BTH4100

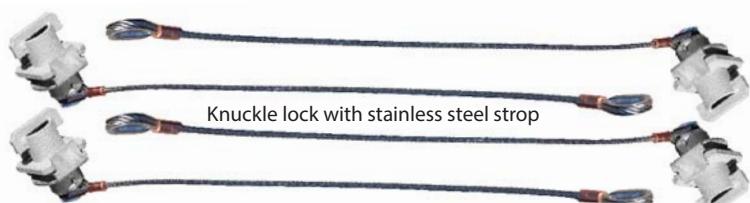
For Additional user

1 x User connection kit.

Code: ISOLINEGLETT

1 x Fall restraint lanyard kit.

Code: BTL151.2-SDJ



BTH4100 Full Body Harness
(optional)



Working Load Limit of HLS: Up to two (2) person, weighing a maximum of 140kg (310 lbs) each, including all clothing, tools and equipment.

TEMPORARY FALL RESTRAINT

BTS® ISO Container Static Line - Adjustable

BTS® ISO CONTAINER STATIC LINE

Adjustable Length

The BTS Adjustable Length ISO Container Lifeline System is another solution for worker safety while working on ISO Containers.

Ideal for multiple length applications or when system clearance from the centre of container is paramount. It allows for a maximum of two (2) workers to be attached to the line system and perform required tasks working at heights, while adhering to fall restraint techniques.

Lightweight components allow for the entire system to be set-up from a platform ladder or similar by 1 worker without the need for tools or access the top of the ISO Container.

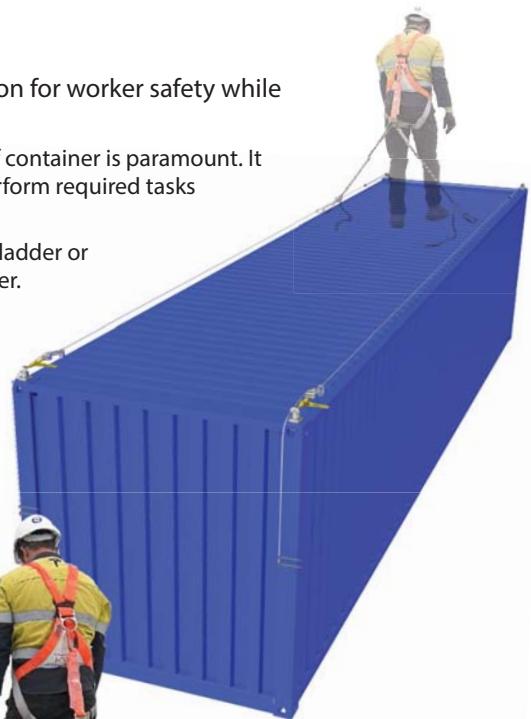
The BTS ISO Lock Knuckle utilises the corner castings on the container as the installation point for the system. The adjustable nature of this system means it can be easily fitted to ISO Containers ranging from 10ft to 40ft in length.

Code: LIFELINEKIT3-20 Suitable for containers up to 20ft

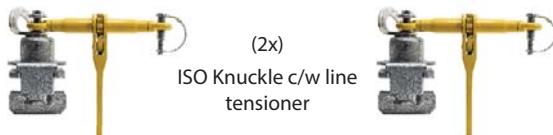
Code LIFELINEKIT3-40 Suitable for containers up to 40ft

Features

- Adjustable length system – system suitable for 20ft to 40ft Container.
- No tools required for setup. Simple ratchet style line tensioning, with built-in tension indicator.
- Entire kit can be stored and carried in two BTECH backpack bag (optional).
- Up to two (2) persons, weighing a maximum of 140kg (310lb) each, including all clothing, tools and equipment.



ISO Knuckle c/w Wire rope fitting



ISO Knuckle c/w line tensioner



Twin tail 2m adjustable rope lanyard



Additional parts recommended but not included

- 1 x BTH4100 - Full body harness
- 1x CRTL-KIT - BTECH telescopic Ladder Kit



BSG246RWK (x2) Storage bags
Optional



BTH4100 Full Body Harness
(optional)



BTL1552-2ADJ (x1)
Twin tail 2m adjustable rope lanyard

TEMPORARY FALL RESTRAINT



BTS® Escalator Line Restraint System

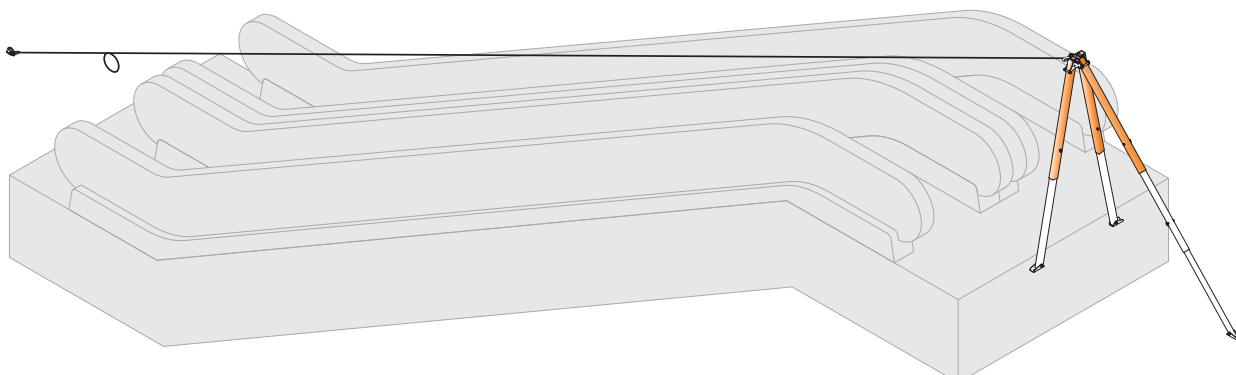
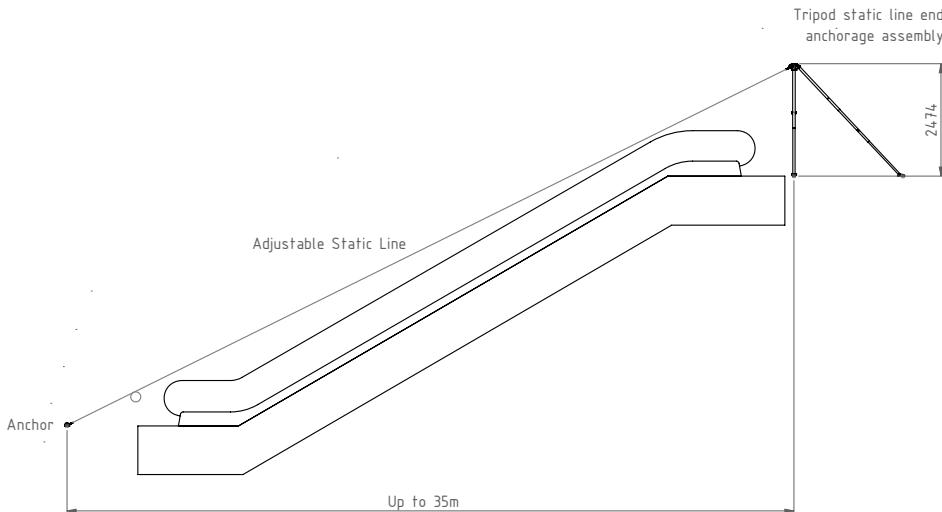
BTS® ESCALATOR LINE RESTRAINT SYSTEM

The BTS® Escalator Line Restraint System (ELRS), allows for a maximum of two (2) workers to be attached to the line system and perform required tasks working at heights, while adhering to fall restraint techniques.

Code: 7732-GA-INS

Features

- Setup is possible by a single person.
- Lightweight 25kg tripod style top anchorage.
- Kit can be packed within a rugged backpack / carry bag to protect against soiling and for ease of transportation. (optional)
- In-line force management system allows for less penetrations in anchorage.
- Only requires 4 anchor bolts to mount the system. Anchors can be either chem-set or undercut mechanical anchors.
- Adjustable length system – up to 35m.
- Simple ratchet style line tensioning.
- Up to two (2) persons, weighing a maximum of 140kg (310lb) each, including all clothing, tools and equipment.
- Inbuilt fall indicator.
- Narrow footprint allows workers to walk past the top anchorage.



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.

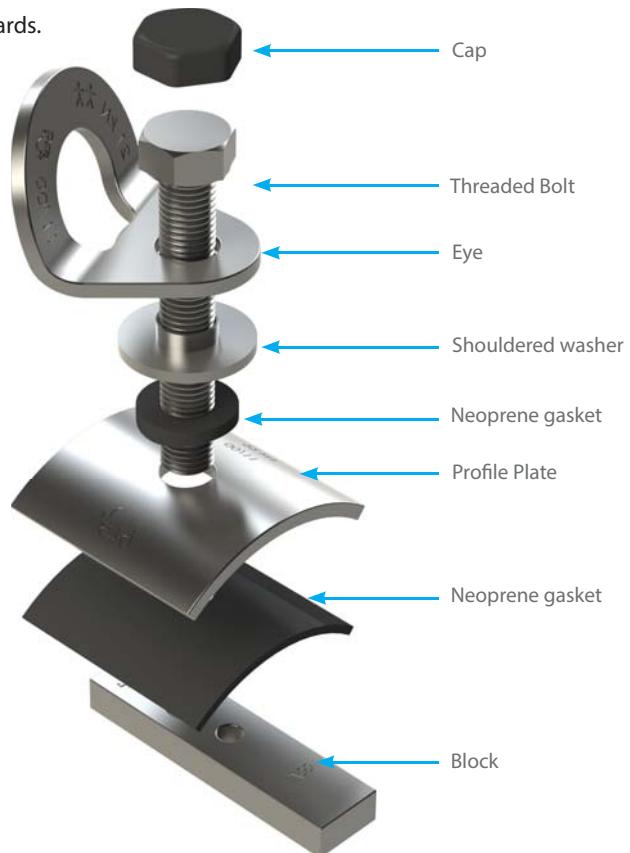
PRODUCT FEATURES

- 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 (4,720 lbs)
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 140kg (310 lbs) each.
Allowable MAF/AAF for SRL/SDR:	6 kN (1350 lbs)

PURLIN ANCHOR POINTS		
Code	Description	To Suit
BTS162	S/S 316 Safety Anchor Trim Deck / Long Span Metal deck roofing.	Trim Deck / Long Span Metal deck roofing.
BTS160	S/S 316 Safety Anchor Corrugated Purlin Mount.	Custom Orb Metal Deck Roofing.
BTS161	S/S 316 Safety Anchor Flat Purlin Mount.	Flat Metal Deck Roofing.
BTS162NZA	S/S 316 Safety Anchor Trim Deck Purlin Mount.	Trim Deck / New Zealand Profile.



BTS160
Custom Orb Metal
Deck Roofing



BTS161
Flat Metal Deck Roofing



BTS162
Trim Deck / Long Span Metal
deck roofing

BTS162NZA
Trim Deck / New Zealand Profile

ANCHOR POINTS

Purlin Anchors, Concrete Anchors & Bolt on Anchors

CONCRETE ANCHOR

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

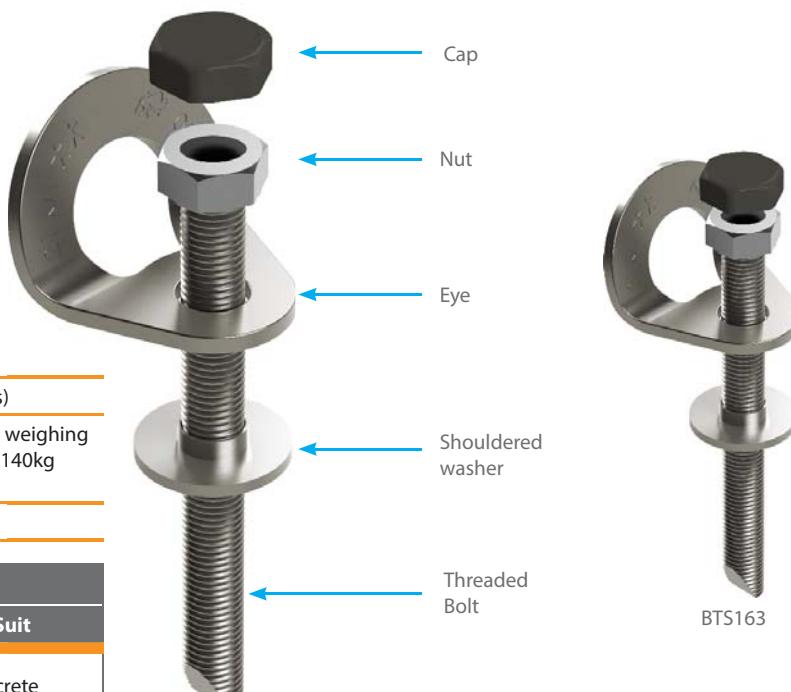
PRODUCT FEATURES

- M16 Stainless steel 316 threaded anchor bolt, nut, eye and cap.
- 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 (4,720 lbs)
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 140kg (310 lbs) each.
Allowable MAF/AAF for SRL/SRD:	6 kN (1350 lbs)

CONCRETE ANCHOR		
Code	Description	To Suit
BTS163	S/S 316 Safety Anchor Concrete Low Profile 21kN (4,720 lbs).	Concrete structures.



25kN (5620 LBS) ANCHOR PLATE c/w Concrete expansion bolt

The 25kN (5,620 lbs) anchor plate from BTS are a cost effective solution for working on concrete structures.

PRODUCT FEATURES

- M10 Stainless steel 316 threaded expansion bolt.
- Enlarged eye capable of accommodating main PPE providers.
- Expansion bolt securing to concrete.
- Architecturally inconspicuous.

Specifications

Ultimate Strength Rating:	25kN (5,620 lbs)
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 140kg (310 lbs) each
Allowable MAF/AAF for SRL/SRD:	6 kN (1350 lbs)

CONCRETE ANCHOR PLATE		
Code	Description	To Suit
BTS164	M10 S/S 316 Safety Anchor Concrete Low Profile 25kN (5,620 lbs).	Concrete structures.



ANCHOR POINTS

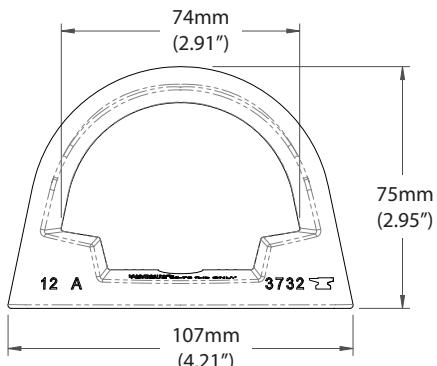
Purlin Anchors, Concrete Anchors & Bolt on Anchors

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 rope access.



Specifications

Ultimate Strength Rating:	22.2 kN (5000 lbs)
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 140kg (310 lbs) each
Allowable MAF Rating for SRL's:	6 kN (1350 lbs)

BOLT ON ANCHOR POINTS	
Code	Description
BTS3732	Bolt On Anchorage Connector c/w 13mm bolt, washers & nut.



BTS 3732

HORIZONTAL LIFELINE SYSTEM

BTECH[®]

All In One Lifeline - System

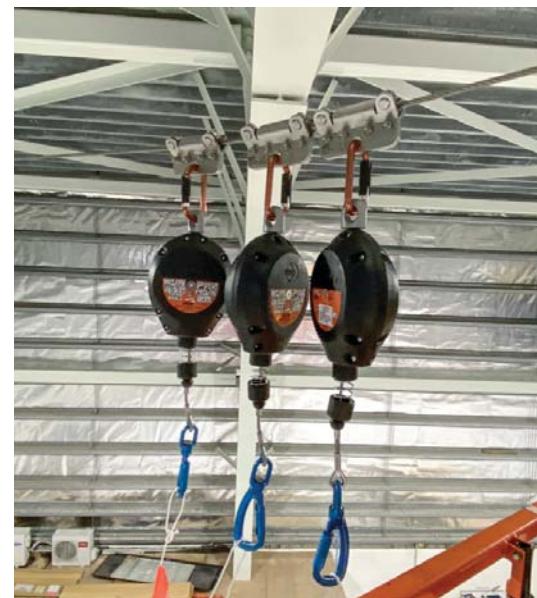
BTECH[®] - ALL IN ONE LIFELINE (AIO)



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

PRODUCT FEATURES

- System span of up to 300m (984 ft) between end anchor to end anchor and maximum support spacing up to 15m (49 ft) new point AIO can be installed in many orientations including at foot level.
- 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).



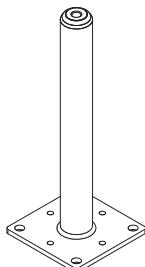
HORIZONTAL LIFELINE SYSTEM

BTECH®

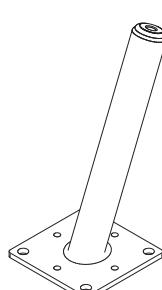
All In One Lifeline - Components

BTECH® - AIO LIFELINE POST SYSTEM

- AIOSTA-10-300 Standard Post 48mm Dia Height 300mm.
- AIOSTA-10-400 Standard Post 48mm Dia Height 400mm.
- AIOSTA-10-600 Standard post 48mm Dia H 600mm.
- AIOSTA-11-340 Steep Roof Post 48mm Dia Height 340mm.



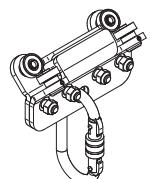
AIO STA-10



AIO STA-11

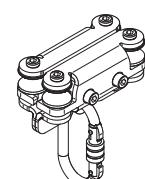
BTECH® - AIO LIFELINE PASS THROUGH TRAVELLERS

- 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).



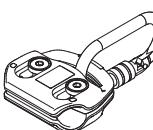
AIO GLEIT-11

Travelling eye-bolt for overhead lifeline systems, passes over intermediate brackets. Not suitable for curves. Non detachable.



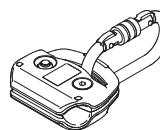
AIO GLEIT-12

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.

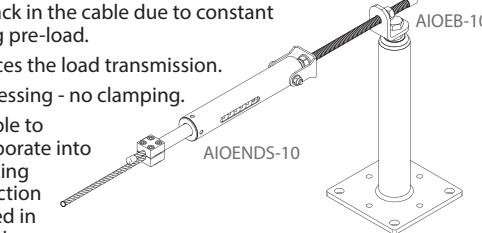


AIO GLEIT-13

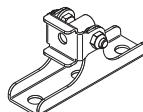
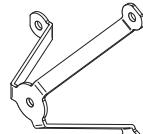
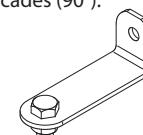
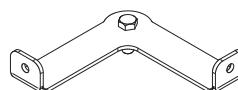
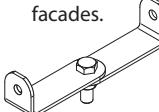
Travelling eye-bolt for horizontal lifeline systems, passes over intermediate brackets and curves. Non detachable.

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)

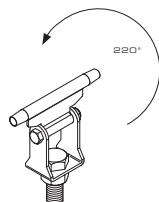


AIOENDS-10
Innovative end lock serves as a main component for Innotech lifeline systems.

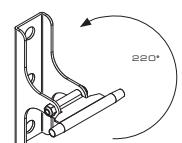
AIO EB-10
Installation on Sta, Falz, Vario, Sand, Syst.AIO EB-11
Installation on facades.AIO EB-12
Installation on facades (90°).AIO EB-15
Installation on Sta, Falz, Vario, Sand, Syst.AIO EB-13
For fixing two end locks at a 90° angle.AIO EB-14
For fixing two end locks at an intermediate point in the lifeline system, rotates freely.

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.

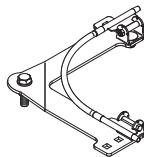


AIO SZH-10
220° range of function - walk-able on both sides of the lifeline system without needing to unhook. Installation on Sta, Falz, Vario, Sand, Syst.



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°).



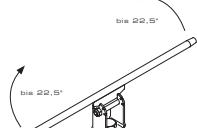
AIO EDLE-11
For constructing complex corner formations (45° - for 90° corners, 2 pieces are necessary).



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

BTECH®

Pre-Assembled Lifeline System Kits

PRE-ASSEMBLED LIFELINE SYSTEM KITS

Sturzsicherungen /// experts in safety systems



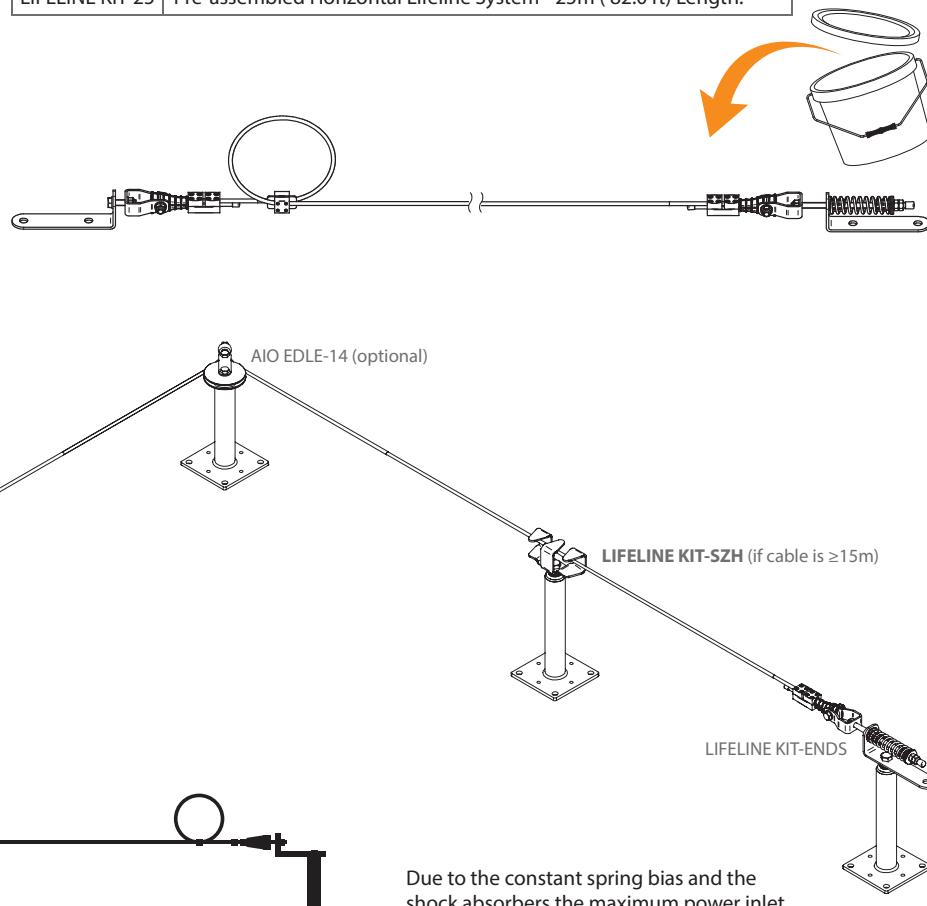
Code LIFELINE KIT

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 (2,248 lbs). 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 (2,248 lbs).

PRE-ASSEMBLED LIFELINE SYSTEM KITS	
Code	Description
LIFELINE KIT-10	Pre-assembled Horizontal Lifeline System - 10m (32.8 ft) Length.
LIFELINE KIT-15	Pre-assembled Horizontal Lifeline System - 15m (49.2 ft) Length.
LIFELINE KIT-25	Pre-assembled Horizontal Lifeline System - 25m (82.0 ft) Length.



Due to the constant spring bias and the shock absorbers the maximum power inlet to the substructure in the corners and end units is max.10 kN (2248 lbs).

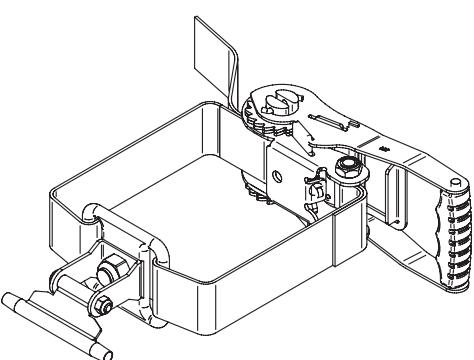
TEMPORARY FALL ARREST SYSTEM



Temporary Horizontal Lifeline System



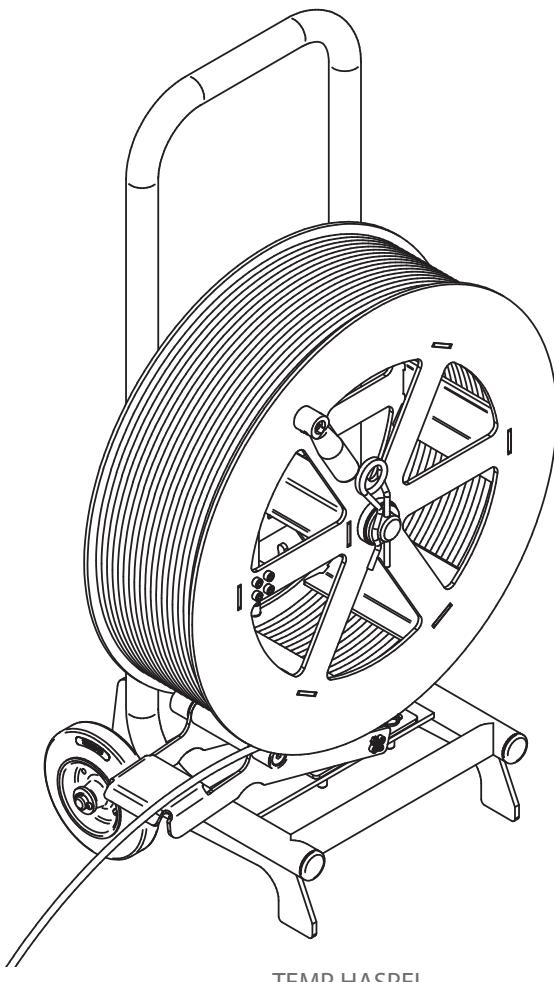
Code TEMP



TEMP ENDS-10

TEMPORARY HORIZONTAL LIFELINE SYSTEM

Code	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 HASPEL

LADDER LIFELINE SYSTEMS

BTS Vertical Ladder Lifeline Systems

VERTICLIMB - LADDER CLIMBING LIFELINE SYSTEM

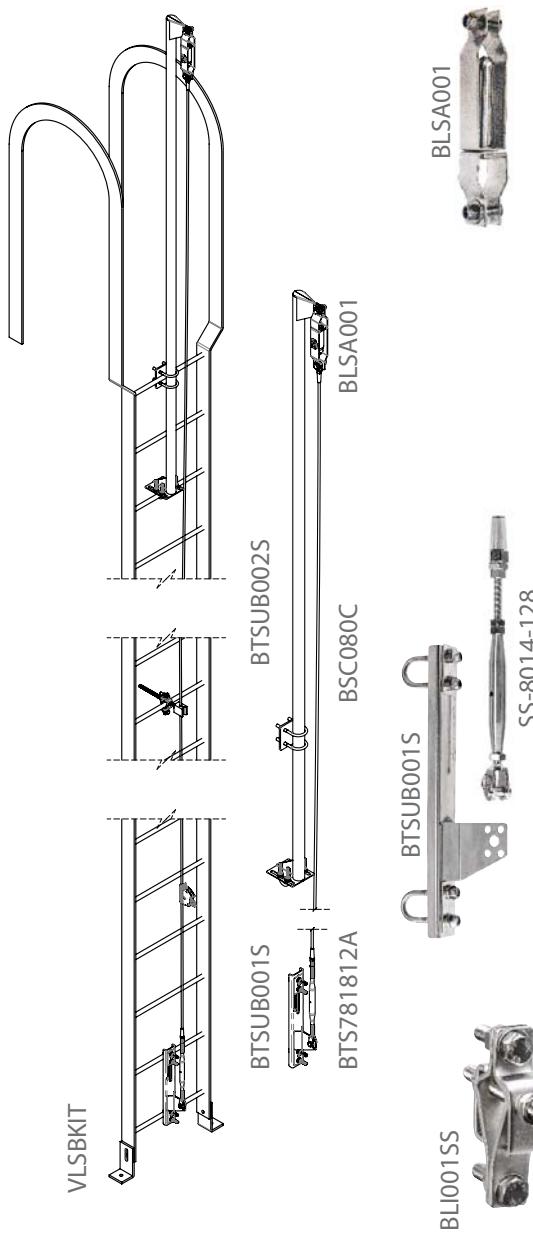
The BTS VertiClimb is a fixed stainless steel wire rope vertical climbing lifeline system that provides 100% Fall Protection from the ground up. Using an easily operated detachable sliding type 1 fall arrester, the user can move up and down the entire system which consists of stainless steel swageless 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 (11.8 in). Once the karabiner is installed, the type 1 fall arrester cannot be unintentionally removed from the cable.

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 swaging required on site.
- Integral Shock Absorber with Overload Indicator reduces the load transferred onto the attaching ladder or structure in the event of a fall.
- All Verticlimb ladder hardware components are manufactured in AISI Stainless Steel Grade 316.
- Can be attached to side or centre of a ladder.
- Detachable rope grab that allows for removal from system preventing unauthorised access.
- Also available with a 2.5m (8.2 ft) extension for safe ladder access and egress.
- System designed to secure a maximum of 1 person.



BTS VERTICLIMB PARTS	
Code	Description
BLSA001	Stainless Steel Top Shock Absorber with overload indicator.
BTSUB002S	Stainless Steel Top Ladder Bracket - Extendable to 2.5m (8.2 ft) 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 (5/16") 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.
BIO0160-TC	Shock Absorber Lanyard.

TEMPORARY GUARD RAILINGS

Tuff-Truck®

Trailer Edge Protection

TRAILER EDGE PROTECTION SYSTEM

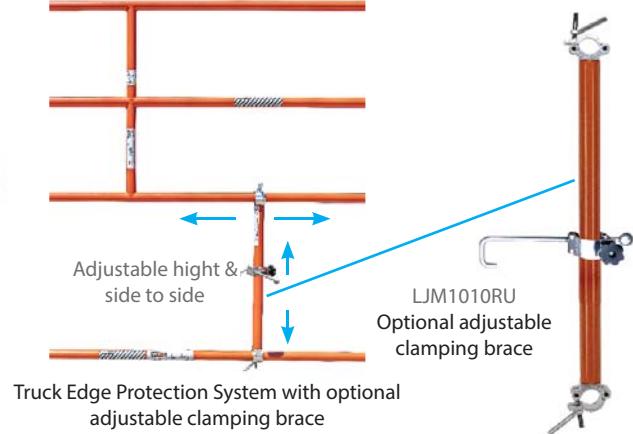
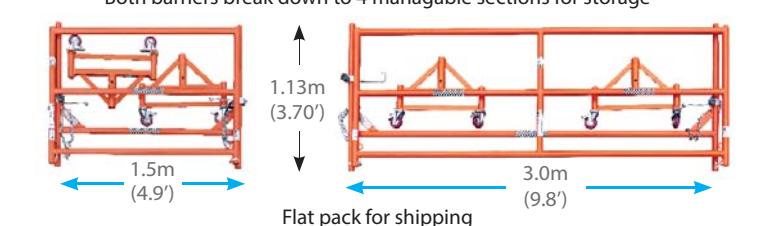
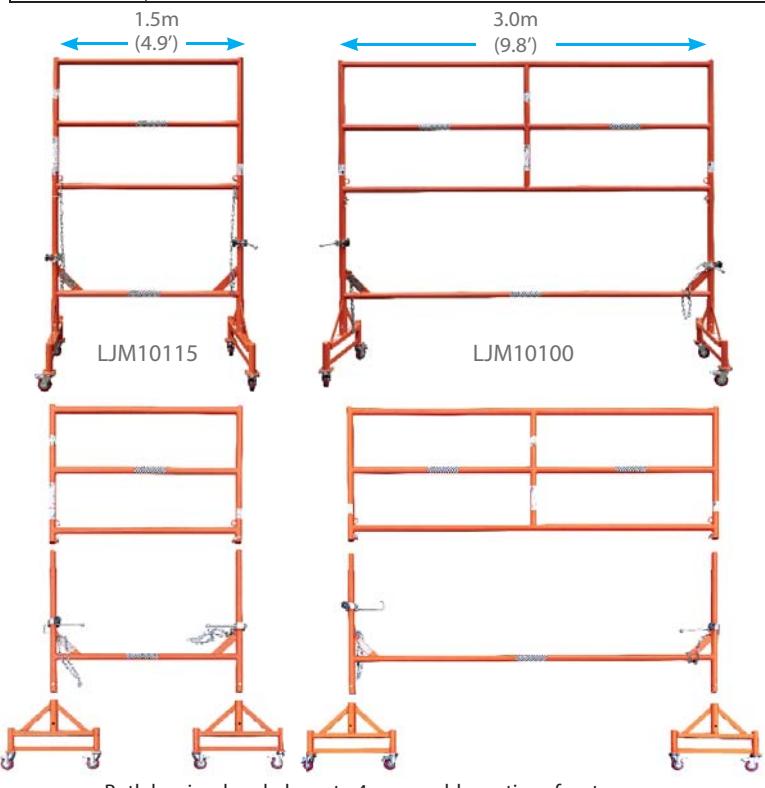


The Flat Bed Trailer Edge Protection System is designed to fit and lock between a wide range of truck trailer combing and tie down rails, the design accommodates the vertical movement in a trailer as it is loaded and unloaded.

The Flat Bed Trailer Edge Protection System (TEPS) is now available in 2 sizes, 3.0m (9.8 ft) long and 2.5m (8.2 ft) high and with a weight of approx. 38kg (83.7 lbs) and 1.5m (4.9 ft) long and 2.5m (8.2 ft) high and with a weight of approx. 22kg (48.5 lbs) which allows the units to be easily picked up by 2 operators and positioned next to the trailer or on smooth floor surfaces like warehouses, wheeled over to the truck and locked into position. The system when not in use can be nestled within each other as to not utilise high levels of floor space or disassembled & flat packed for shipping.

The optional Adjustable Clamping Brace is designed to be used on the 3.0m (9.8 ft) barrier in situations where the standard locking arms need to be in a different position (Closer together).

TRAILER EDGE PROTECTION SYSTEM	
Code	Description
LJM10115	Truck Edge Protection System 1.5m (4.9 ft) x 2.5m (8.2 ft).
LJM10100	Truck Edge Protection System 3.0m (9.8 ft) x 2.5m (8.2 ft).
LJM1010RU	Adjustable Clamping Brace for Large Mobile Barriers.



TEMPORARY GUARD RAILINGS

Tuff-Truck®

Trailer Edge Protection

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 (6.5 ft) long and 1.3m (4.2 ft) high and with an approximate weight of 9kg (19.8 lbs) which allows the unit to be easily picked up by 1 operator and positioned into place.

TRAILER MINI EDGE PROTECTION SYSTEM	
Code	Description
LMN20120	Truck Mini Edge Protection System 2m (6.5 ft) x 1.3m (4.2 ft).



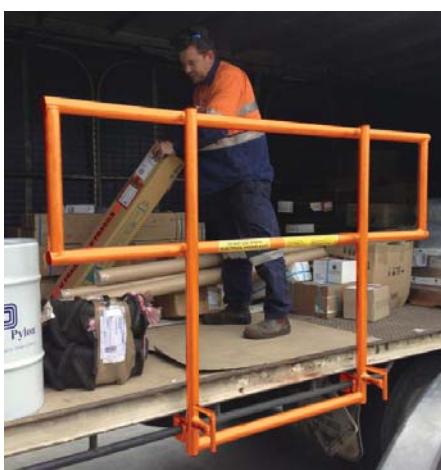
EASY SETUP - MAX PROTECTION



Lift barrier & position brackets between tie down rails and trailer deck. Turn handle so that handle and locking plate are 90° to tie down rail



and push handle down until it locks against barrier upright. Repeat for opposite side. Check barrier is secure at both ends. Then proceed to board trailer ensuring 3 points of contact at all times. Always work behind barrier. More than one barrier can be used to accommodate the length of the trailer.



" Now with adjustable locking depth feature."

MOBILE FALL PROTECTION

BTS AirHook Max PRO Trailer Electric / Hydraulic Fall Arrest Trailer

BTS AirHook Max PRO Trailer

At an anchor point height of 15mts (49.4 ft), the AirHook Max PRO Trailer is the tallest mobile overhead fall protection anchor rated for 4-workers. With a total weight of approx. 2.4T (2.6 ton), the AirHook Max Pro Trailer is designed to be towed for use in both on-road and off-road work environments



MOBILE FALL PROTECTION

BTS AirHook Max PRO Trailer **Electric / Hydraulic Fall Arrest Trailer**

BTS AirHook Max PRO Trailer

PRODUCT FEATURES

- Four (4) single user anchor points rated system.
- Maximum overhead anchor point height of 15m (49.2 ft) and with two 2m (6.5 ft) offset arms that can rotate 360° independently.
- Self-contained 12v Electric/hydraulic system.
- Set-up and anchor height adjusting is carried out with simple push button controls.
- 4 stage telescopic mast, adjustable to 15m anchor point height.
- Mast retracts down effortlessly onto the trailer and is securely held in place.
- Takes 10 minutes to set-up for use and a similar amount of time to lower the unit after use.
- Equipped with electric/hydraulic brakes and a independent 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 panels and mains power battery charger also charges whilst connected to a suitably wired towing vehicle.
- Lockable toolboxes for safe storage of equipment such as harnesses and fall arrestors.
- Multiple fork lift pockets for ease of lifting and storing when shipping equipment around the countryside. Optionally can be fitted with rated lifting points, and self-levelling jacks.
- Heavy duty off road construction for use in rugged and harsh work environments.
- Equipped with safety features including lockable Isolation switch, warning beacon, warning alarm and emergency stop.
- Accessories: Inertia Reels and Inertia Reels with Self Rescue Capability.
- Full size spare wheel as standard.
- 12v wide beam work lights.



Specifications

Code	70728
Ultimate Strength Rating:	4x 12kN (2,700 lbs) anchor points Tested (statically and dynamically)
Capacity (Fall Arrest):	Max. 4 workers weighing not more than 140kg (310 lbs) each
Allowable MAF/AAF for SRL/SRD:	6 kN (1350 lbs)
Height:	Adjustable from 6.1m (20.0 ft) to 15m (49.4 ft)
Reach:	2m (6.5 ft)
Foot print:	L: 4.9m (16.0 ft) x W: 2.2m (7.2 ft) x H: 1.9m (6.2 ft)
Weight:	2.4T (2.6 ton)
Anchorage type:	Limited Free Fall Arrest



MOBILE FALL PROTECTION

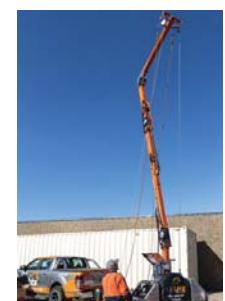
BTS AirHook Trailer - Electric / Hydraulic Fall Arrest Trailer

BTS AirHook Trailer

ELECTRIC/HYDRAULIC LIFELINE FALL ARREST TRAILER

The BTS AirHook Trailer is a complete overhead fall protection system that 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

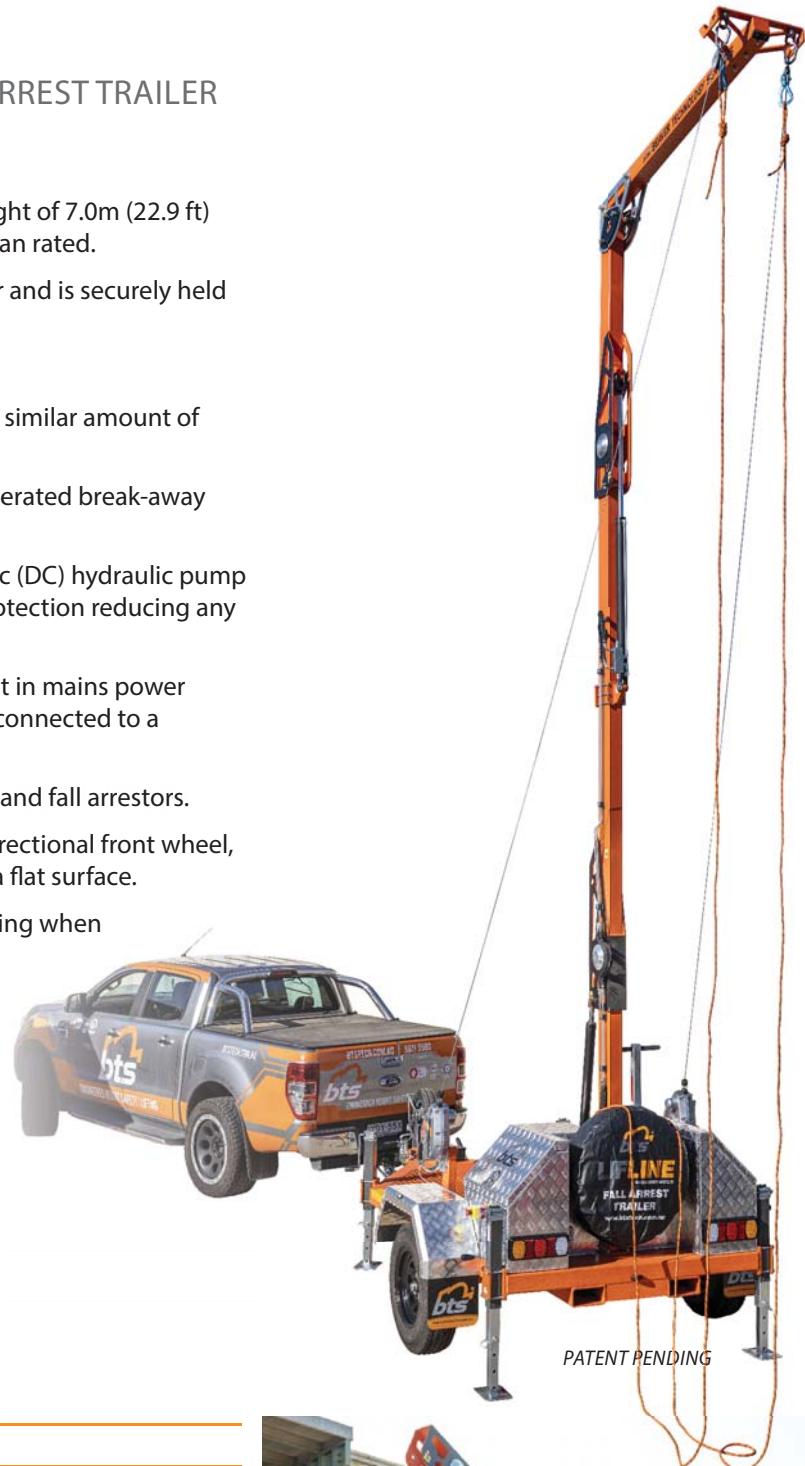
BTS AirHook Trailer - Electric / Hydraulic Fall Arrest Trailer

BTS AirHook Trailer

ELECTRIC/HYDRAULIC LIFELINE FALL ARREST TRAILER

PRODUCT FEATURES

- Maximum working overhead anchor point height of 7.0m (22.9 ft) and with a 1.3m (4.2 ft) 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 mains power battery charger also optionally 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, allows trailer to be manoeuvrable by hand on a flat surface.
- Forklift tyne pockets for ease of lifting and storing when shipping the 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.
- Accessories: Inertia Reels, Inertia Reels with Self Rescue Capability, Inertia Reel with Assisted Rescue feature.
- Full size spare wheel as standard.



Specifications

Code:	LFAT73EHEU
Ultimate Strength Rating:	2 x 15kN (3,372 lbs) anchor points
Capacity (Fall Arrest):	Max. 2 workers weighing not more than 140kg (310 lbs) each
Allowable MAF/AAF for SRL/SRD:	6 kN (1348 lbs)
Height:	7.0m (22.9 ft) Max.
Reach:	1.3m (4.2 ft)
Foot print:	L: 4.0m (13 ft) x W: 2.2m (7.2 ft)
Weight	1.7T (1.9 ton)
Anchorage type:	Limited Free Fall Arrest



MOBILE FALL PROTECTION

BTS 14m AirHook Max PRO

BTS AirHook Max PRO

PORTABLE OVERHEAD ANCHOR

The BTS 14m (45.9 ft) AirHook Max PRO Portable Overhead anchor provides up to four people working at heights with independent overhead anchor points.

An ideal product solution for sites where an overhead structure or existing anchor point may not be suitable, it can be moved easily around a site via a forklift.

Available with an adjustable height of 14m (45.9 ft) and a reach of 2m (6.5 ft). 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. The two independent rotating arms can also be utilised as part of a truck loading and unloading process in warehouse and distribution facilities servicing multiple bays per system.





MOBILE FALL PROTECTION

BTS 14m AirHook Max PRO

BTS AirHook Max PRO

AUTOMATED HEAVY DUTY HEIGHT SAFETY WITH A SMALL FOOTPRINT

PRODUCT FEATURES

- Four (4) single user anchor points rated system.
- Maximum overhead anchor point height of 14m (45.9 ft) and with two, 2m (6.5 ft) off set masts that can rotate 360° independently.
- Self-contained 12v Electric/hydraulic system
- Set-up and anchor height adjusting is carried out with simple push button controls.
- 4 stage telescopic mast, adjustable to 14m (45.9 ft) anchor point height.
- Mast retracts down effortlessly onto the 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.
- 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 mains powered battery charger.
- Lockable toolbox for safe storage of equipment such as harnesses and fall arrestors.
- Fork lift pockets and rated lifting points for ease of lifting and storing when shipping equipment around the countryside. Optionally can be fitted with heavy duty casters to tow the cubes around the factory.
- Heavy duty levelling jacks for use on uneven ground.
- Equipped with safety features including lockable Isolation switch, warning beacon, warning alarm and emergency stop.
- Accessories: Inertia Reels and Inertia Reels with Self Rescue Capability
- Footprint of only 1.9m x 1.8m perfect for work areas with restricted floor space.

Specifications

Code:	70720S
Ultimate Strength Rating:	4 x 12kN (2,700 lbs) anchor points Tested (statically and dynamically)
Capacity (Fall Arrest):	Max. 4 workers <i>Weighing not more than 140 kg (310 lbs) each</i>
Allowable MAF/AAF Rating for SRL/SRD:	6kN (1,350 lbs)
Height:	Adjustable to 14.0m (45.9 ft) Max.
Reach:	2.0m (6.5 ft)
Foot print:	L: 1.9m (6.2 ft) x W: 1.8m (5.9 ft)
Weight	2.2t (2.4ton)
Anchorage type:	Limited Free Fall

The BTS AirHook Max Pro 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 BTS AirHook Max Pro can be set-up for use by one (1) person in less than ten (10) minutes.



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 AirHook Lite 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. 360 degree swivel allows for the injured person to be rotated away from the confined space entry and moved across to ground level for any First Aid requirements.

(See next page for details)



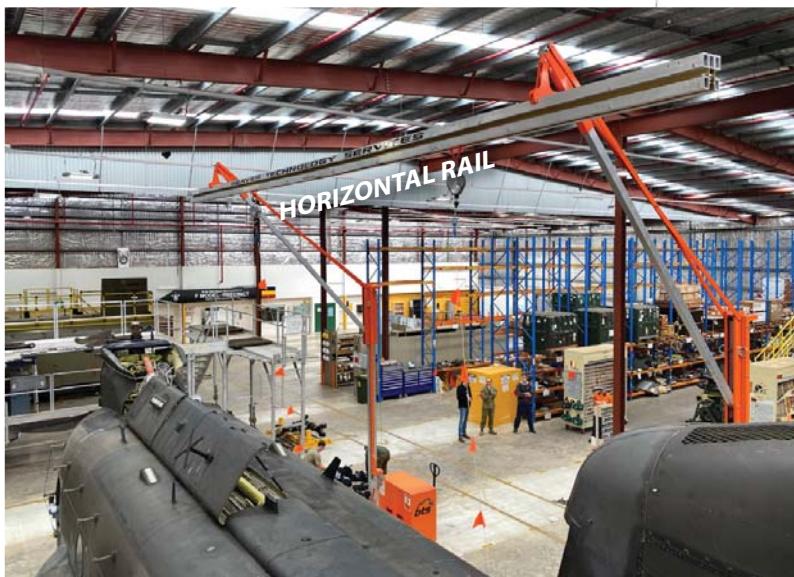
MOBILE FALL PROTECTION

BTS AirHook Lite

BTS AirHook LITE

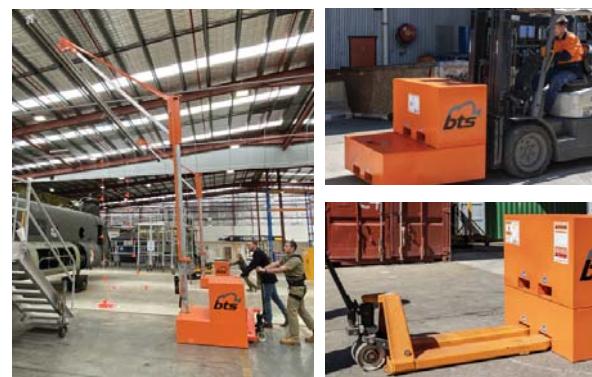
PRODUCT FEATURES

- 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 1.2m (3.9 ft) x 1.2m (3.9 ft).
- Height adjustment of mast from 4.7m (15.4 ft) to 7.2m (23.6 ft).
- Offset mast of approx. 3.0m (9.8 ft) from central vertical mast.
- Available in Horizontal Rail configurations (as shown) to suit overhead rail application for up to two (2) workers.
- Rated for (2) workers when two AirHook Lite 7 are used in tandem and with an optional BTECH Rail & Trolleys.



Specifications

Code	70206
Ultimate Strength Rating:	12kN (2,700 lbs)
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 140kg (310 lbs) (Max. 2 workers weighing not more than 140kg (310 lbs) each with Rail)
Allowable MAF/AAF Rating for SRL/SRD:	6 kN (1,350 lbs)
Height:	5.0m (16.4 ft) Min. (24.6 ft) 7.5m Max.
Reach:	3m (9.8 ft)
Foot print:	1.2m (3.9 ft) x 1.2m (3.9 ft)
Weight	2.7 T (3.0ton)
Anchorage type:	Limited Free Fall



STATIC FALL PROTECTION

BTS AirDavit

BTS AirDavit

PERMANENT FIXED ARTICULATED OVERHEAD ANCHOR POINT

The BTS AirDavit is a permanently fixed articulated overhead fall arrest anchor point providing for fall protection for up to 2 workers. Designed and manufactured for maximum worker safety with an articulating arm to provide an anchor point directly overhead, reducing the potential for injury from pendulum swing and reducing worker fatigue. The system also contains an in-line shock absorbing feature, the AirDavit will absorb majority of the arrest forces generated in the event of a person falling whilst at the same time reducing the force impact to the attaching infrastructure.

A working anchor point height of 5.8m (19.0 ft) and available in single and twin arm configuration.

(See next page for details)



STATIC FALL PROTECTION

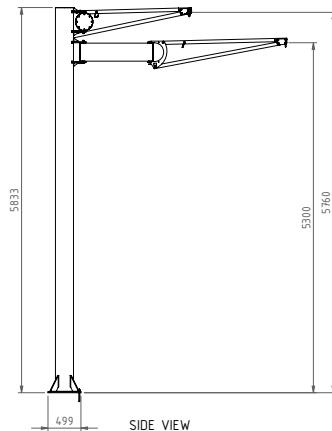
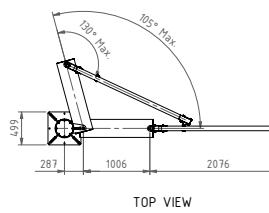
BTS AirDavit

BTS AirDavit

With a working anchor point height of 5.7m (18.7 ft) and available in single and twin arm configuration, the BTS AirDavit is an ideal overhead fall protection anchor for both indoor and outdoor environments.

PRODUCT FEATURES

- Overhead fall arrest anchor point.
- Single or dual independent articulating arms for 1 or 2 person system.
- Overhead anchor point of approx. 5.7m (18.7 ft) and 3.0m (9.8 ft) offset.
- Provides 360° protection with arms that can wrap around the back of the post, providing up to a 10.5m (34.4 ft) safe work zone.
- Rotational boom allows for the anchor point to be above the worker, reducing hazardous pendulum swing falls.
- Stainless steel CNC machined failsafe device with mechanical fuses.
- Installation on engineered concrete slabs as little as 150mm thick.
- Small footprint of just 0.5m (1.6 ft) x 0.5m (1.6 ft) and installed with 8x M16 anchor bolts.
- Quick and simple field installations with bolt-together components – no welding required.
- Constructed using a combination of 6061-T6 aluminium and HDG steel to suit the harshest of environments.
- Ideal for loading and unloading situations, inside or outside, working on mobile plant and general work at heights activities.



Manufacturing & Maintenance Areas



Truck Loading Bays

Specifications

Code	40010 (1 user)	40012 (2 users)
Ultimate Strength Rating:	15 kN (3,372 lbs) per anchor point (User must be attached with a self-retracting lifeline)	
Capacity (Fall Arrest):	Max. 1 worker weighing not more than 140kg (310 lbs).	Max. 2 workers, 1 worker weighing not more than 140kg (310 lbs) per arm.
Allowable MAF Rating for SRL's:	6 kN (1350 lbs)	6 kN (1350 lbs)
Height:	5.8m (19.0 ft) Max.	5.8m (19.0 ft) Max.
Reach:	3.3m (10.8 ft) Max.	3.3m (10.8 ft) Max.
Foot print:	0.5m (1.6 ft) x 0.5m (1.6 ft)	0.5m (1.6 ft) x 0.5m (1.6 ft)
Weight:	315kg (694 lbs) (Post) 77kg (169.7 lbs) (arm)	
Anchorage type:	Limited Free Fall	Limited Free Fall

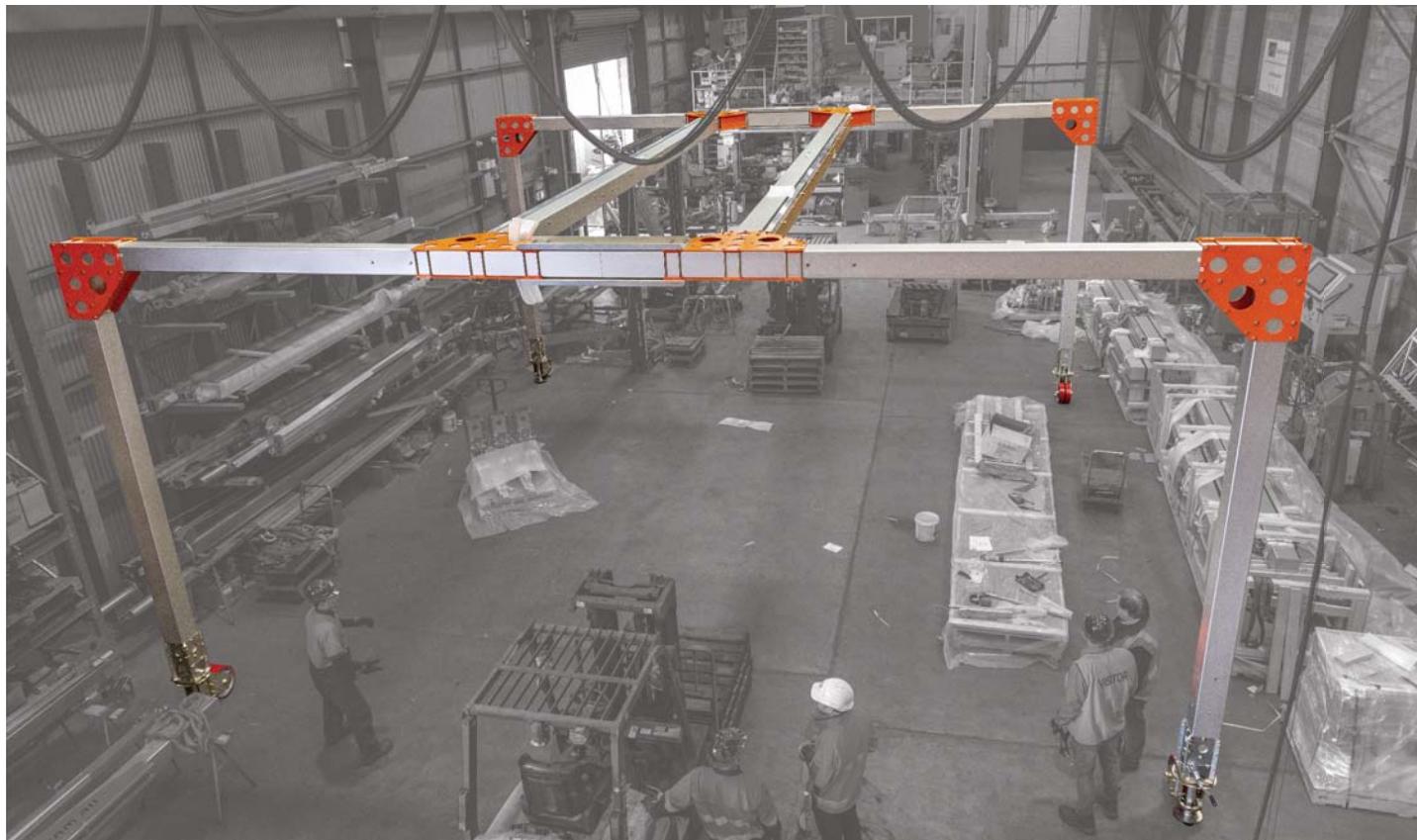
OVERHEAD RAIL SYSTEMS



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 roll 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.



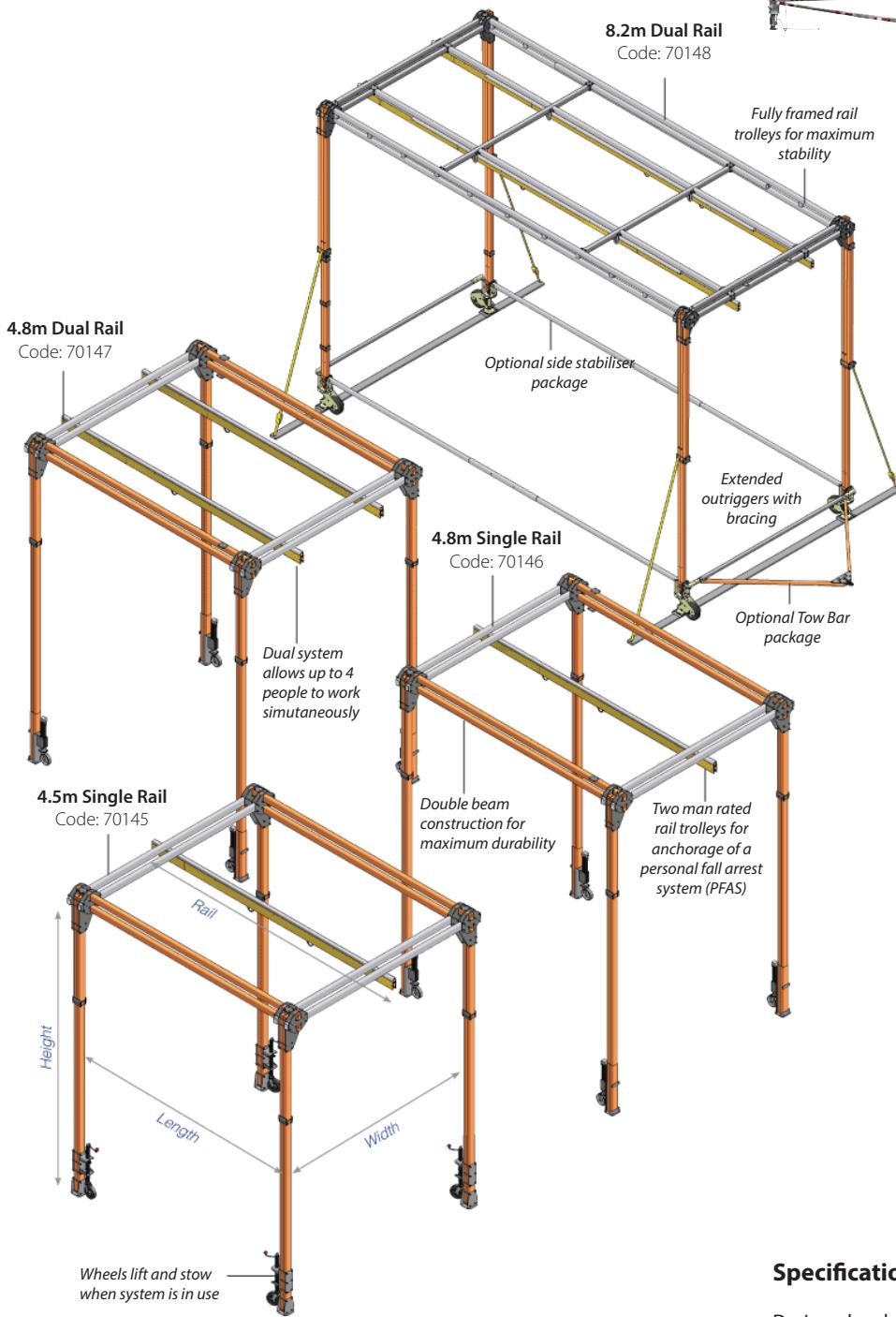
OVERHEAD RAIL SYSTEMS

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.



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



Specifications

Designed and manufactured to customer specification.

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

- 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.

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)

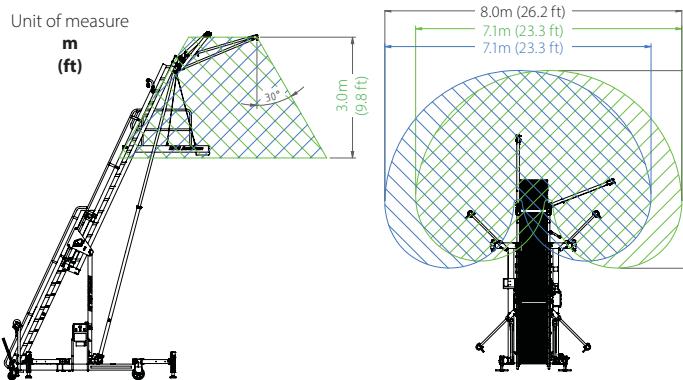


Figure 2a Typical Safe Working Zone for fall protection Code: 703357

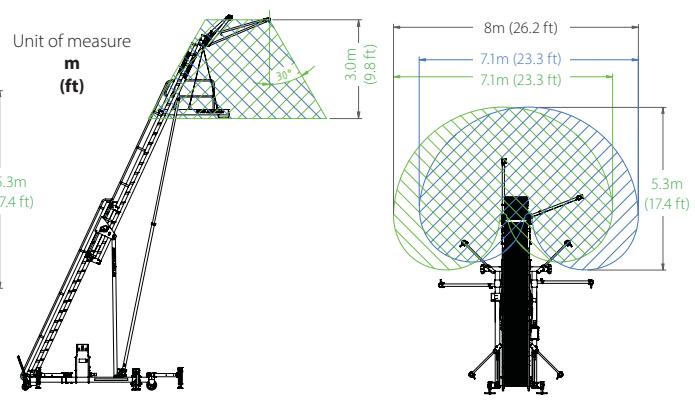
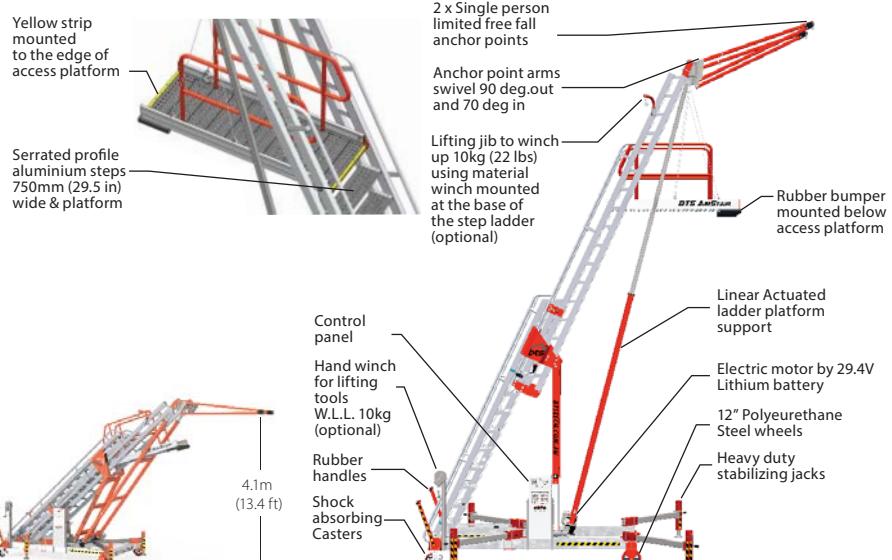
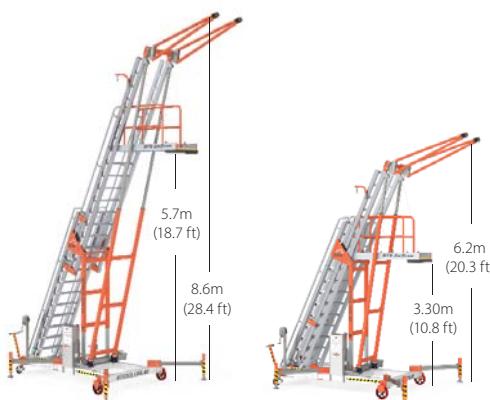


Figure 2b Typical Safe Working Zone for fall protection Code: 704884

BTS AirStair 703357

Two person fall arrest stair system

- Platform height 3.3m (10.8 ft) to 5.7m (18.7 ft).
- Swivel arms to maximize safe working area.
- SRL protection while climbing step ladder.
- 750mm (29.5 in) wide aluminium step ladder.
- Electric motor driven by 30V Lithium battery to raise and lower the platform.
- Heavy duty stabilizing jack.



BTS AirStair 703357 Unit is designed with a mechanical option to fold down to an overall height clearance of 4.1m (13.4 ft).

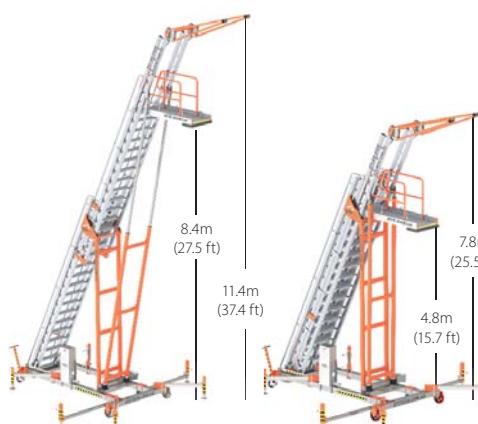
BTS AirStair 703357 is operated via a control panel and electrical motor connected to its own 29.4V Lithium battery powered supply.

Optional winch & tool's basket can be installed to lift 10kg (22 lbs) of equipment up to the top platform, eliminating the need to carry tools up the stair.

BTS AirStair 704884

Two person fall arrest stair system

- Platform height 4.8m (15.7 ft) to 8.4m (27.5 ft).
- Swivel arms to maximize safe working area.
- SRL protection while climbing step ladder.
- 750mm wide aluminium step ladder.
- Electric motor driven by 30V Lithium battery to raise and lower the platform.
- Heavy duty stabilizing jack.



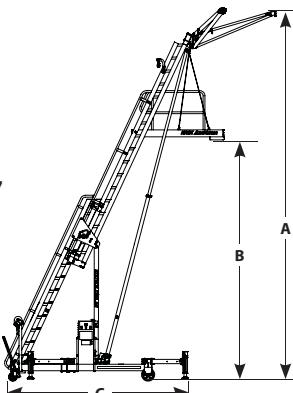
BTS AirStair 704884 is operated via a control panel and electrical motor connected to its own 29.4V Lithium battery powered supply.

STAIR SYSTEMS

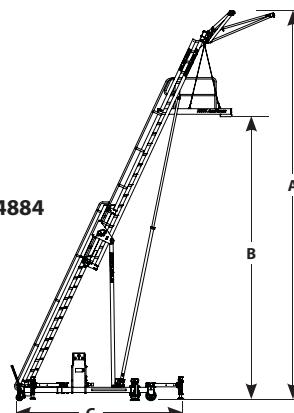
BTS AirStair Free Standing Access Stair System

BTS AirStair SPECIFICATIONS & AIRCRAFT HEIGHT

Code: 703357

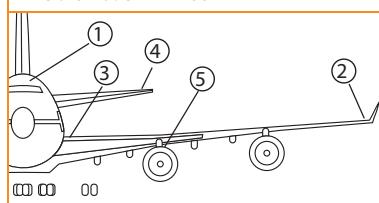


Code: 704884



Code	Retracted Height (A)	Extended Height (A)	Platform Height (B)		Base Length (C)	
			Min.	Max.	Retracted	Extended
703357	6.3m (20.6 ft)	8.7m (28.5 ft)	3.3m (10.8 ft)	5.7m (18.7 ft)	3.5m (11.48 ft)	4.2m (13.7 ft)
704884	7.8m (25.6 ft)	11.4m (37.4 ft)	4.8m (15.7 ft)	8.4m (27.5 ft)	4.1m (13.45 ft)	4.9m (16.7 ft)

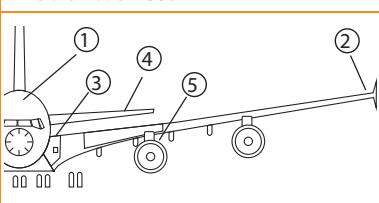
Aircraft Model 747-400



Height

(1) Fuselage	9.8m (32.1 ft)
(2) Wing Tip	5.1m (16.7 ft)
(3) Wing / Fuselage	4.7m (15.4 ft)
(4) Tail Plane	8.0m (26.2 ft)
(5) Engine Nacelle	4.8m (15.7 ft)

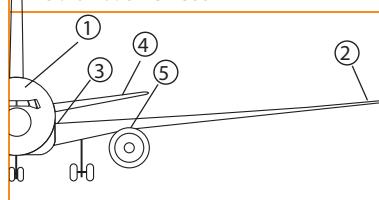
Aircraft Model A380



Height

(1) Fuselage	10.7m (35.1 ft)
(2) Wing Tip	7.5m (24.6 ft)
(3) Wing / Fuselage	5.3m (17.3 ft)
(4) Tail Plane	7.5m (24.6 ft)
(5) Engine Nacelle	6.2 / 7.0m (20.3 / 23.0 ft)

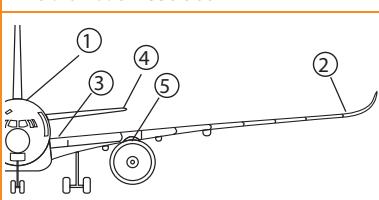
Aircraft Model 787-800



Height

(1) Fuselage	7.6m (24.9 ft)
(2) Wing Tip	7.2m (23.6 ft)
(3) Wing / Fuselage	2.5m (8.2 ft)
(4) Tail Plane	6.7m (22.0 ft)
(5) Engine Nacelle	4.4m (14.4 ft)

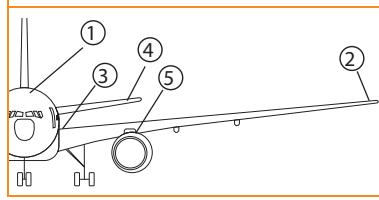
Aircraft Model A350-900



Height

(1) Fuselage	8.5m (27.8 ft)
(2) Wing Tip	6.6m (21.6 ft)
(3) Wing / Fuselage	3.4m (11.1 ft)
(4) Tail Plane	7.6m (24.9 ft)
(5) Engine Nacelle	4.6m (15.0 ft)

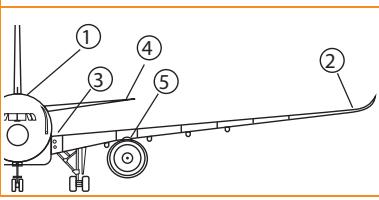
Aircraft Model 777



Height

(1) Fuselage	8.3m (27.2 ft)
(2) Wing Tip	7.0m (23.0 ft)
(3) Wing / Fuselage	4.8m (15.7 ft)
(4) Tail Plane	7.5m (24.6 ft)
(5) Engine Nacelle	5.0m (16.4 ft)

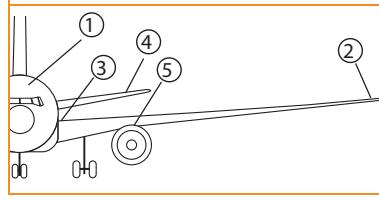
Aircraft Model A330-300



Height

(1) Fuselage	5.6m (18.3 ft)
(2) Wing Tip	6.4m (20.9 ft)
(3) Wing / Fuselage	4.0m (13.1 ft)
(4) Tail Plane	7.5m (24.6 ft)
(5) Engine Nacelle	4.3m (14.1 ft)

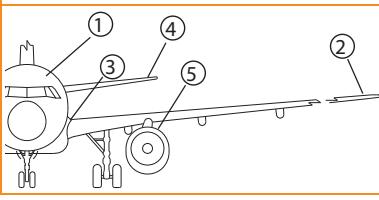
Aircraft Model 767



Height

(1) Fuselage	7.2m (23.6 ft)
(2) Wing Tip	4.9m (16.0 ft)
(3) Wing / Fuselage	4.5m (14.7 ft)
(4) Tail Plane	5.8m (19.0 ft)
(5) Engine Nacelle	4.6m (15.0 ft)

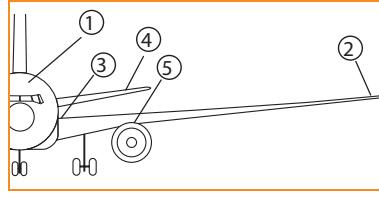
Aircraft Model A320



Height

(1) Fuselage	4.1m (13.4 ft)
(2) Wing Tip	4.0m (13.1 ft)
(3) Wing / Fuselage	3.5m (11.4 ft)
(4) Tail Plane	5.4m (17.7 ft)
(5) Engine Nacelle	3.0m (9.8 ft)

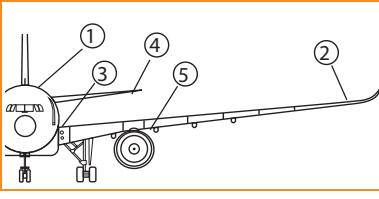
Aircraft Model 737 - 800



Height

(1) Fuselage	5.6m (18.3 ft)
(2) Wing Tip	3.9m (12.7 ft)
(3) Wing / Fuselage	3.2m (10.4 ft)
(4) Tail Plane	5.6m (18.3 ft)
(5) Engine Nacelle	3.1m (10.1 ft)

Aircraft Model 737 - 800 With Winglets, BBJ2



Height

(1) Fuselage	5.6m (18.38 ft)
(2) Wing Tip	4.3m (14.1 ft)
(3) Wing / Fuselage	3.2m (10.4 ft)
(4) Tail Plane	5.6m (18.3 ft)
(5) Engine Nacelle	3.1m (10.1 ft)

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

STAIR SYSTEMS

BTS AirStep Engine Cowl Maintenance Ladder

BTS AirStep



The BTS AirStep Engine Cowl Maintenance Ladders 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 Ladders 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 with an SRL allows user to be protected from ground-up. Additional work positioning anchors allow for the user to restrain work position with work positioning straps.

The AirStep Engine Cowl Maintenance Ladder 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 Ladder.

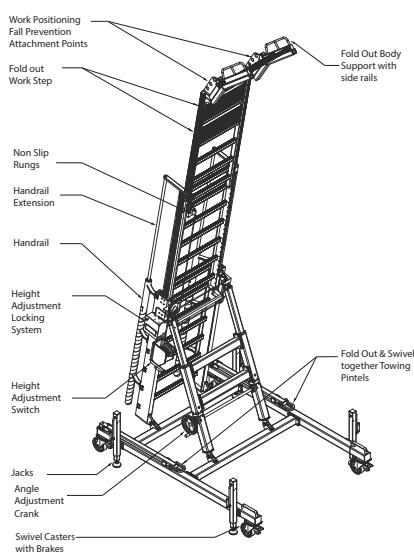
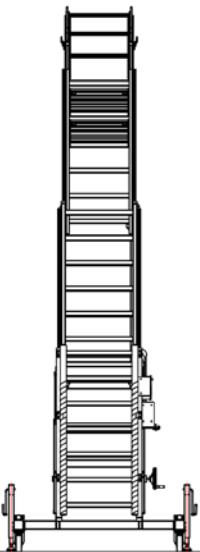
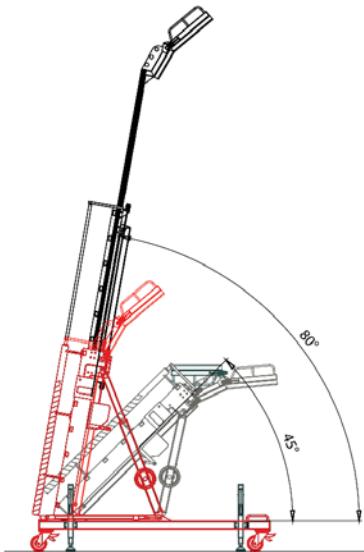
PRODUCT FEATURES

- Available in two models to allow reach of working heights of 2.40m (7.87 ft) to 5.9m (19.35 ft).
- Allows uninterrupted access to the top and underside of the cowl covers for engine access.
- Built-in working at heights fall 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 used around aircraft.

STAIR SYSTEMS

BTS AirStep Engine Cowl Maintenance Stairs

BTS AirStep SPECIFICATIONS



Model Number: BTS7565 / BTS7565XL

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

Specifications	BTS7565	BTS7565XL
Overall Dimension:	L 2.3m (7.5 ft) x W 1.7m (5.6 ft) x H 1.7 (5.6 ft) ~ 5.1m (16.7 ft)	L 2.8m (9.2 ft) x W 1.80m (5.9 ft) x H 2.0 (6.6 ft) ~ 5.9m (19.4 ft)
Product Rating:	1 Person, max. weight 140kg (310 lbs)	1 Person, max. weight 140kg (310 lbs)
Max. Towing Speed:	10 km/h (6 mph)	10 km/h (6 mph)



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 (5.80 ft) to 4.72m (15.48 ft).



STAIR SYSTEMS

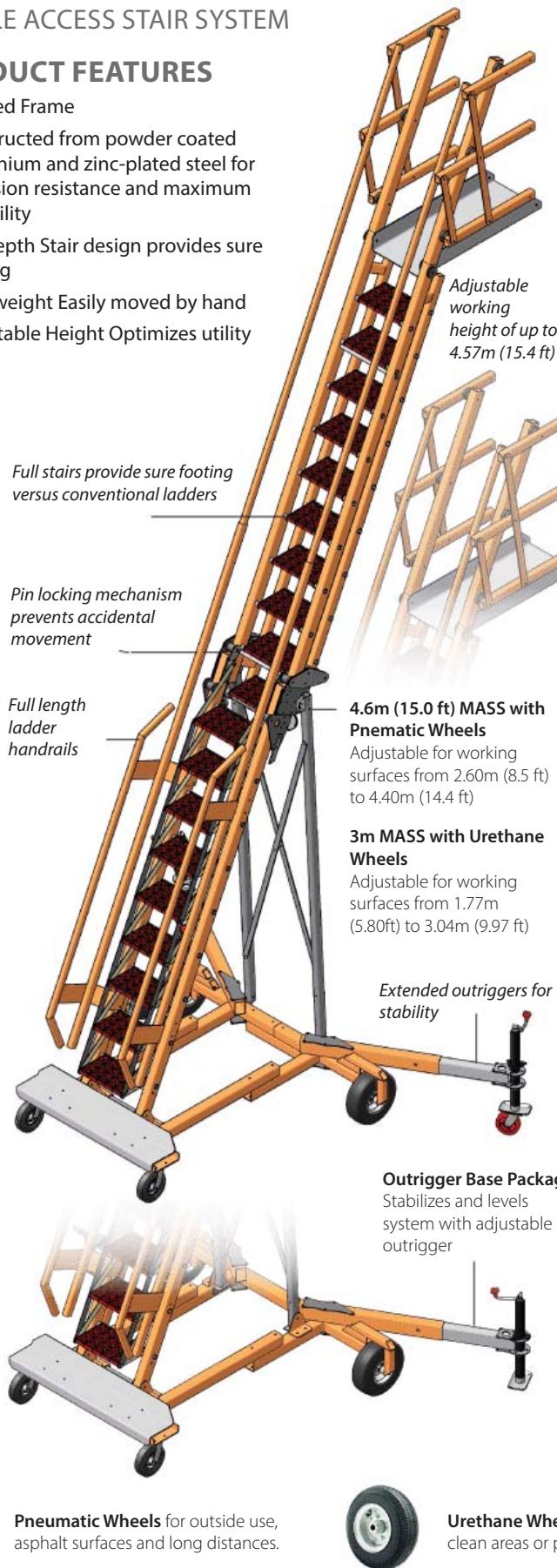
BTS AirDeck Mobile Access Stair System

BTS AirDeck

MOBILE ACCESS STAIR SYSTEM

PRODUCT FEATURES

- Rugged Frame
- Constructed from powder coated aluminium and zinc-plated steel for corrosion resistance and maximum durability
- Full depth Stair design provides sure footing
- Lightweight Easily moved by hand
- Adjustable Height Optimizes utility



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



1.8m (5.9 ft) 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 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 tread plate aluminium panels. 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 ergonomic, cost competitive and applicable standards compliant working environment. BTS prides itself in designing products to follow requirements of appropriate standards and testing required.



BTS Multiuse WORK PLATFORM

The BTS Multiuse Work Platform is designed to provide portable, safe, convenient access to work locations, with working platforms at 0.7 and 1.2m the worker may find the most appropriate height to ergonomically access the work area reducing stress and fatigue. The system provides independent height adjustable guard-railing to allow the platform to be positioned effectively to maximise safety when working in various locations.



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.
- Modular design, easy installation, reduced obstruction to ground movement and walk ways.
- The main body is made of high grade 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.

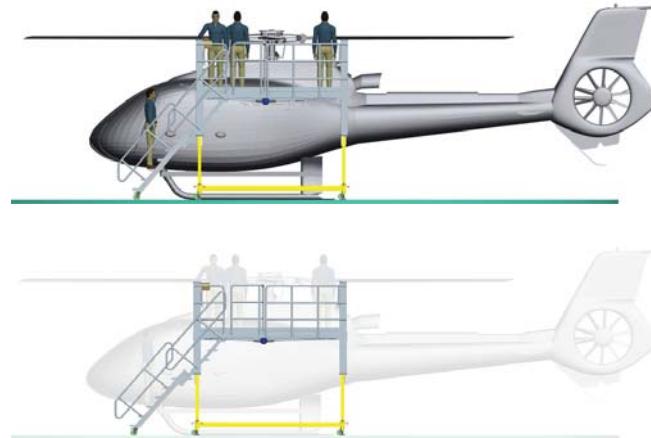
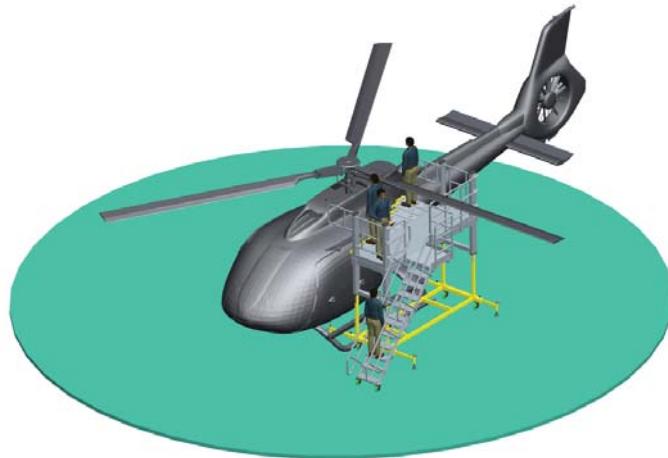
Modular platforms are designed for quick assembly and installation.

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

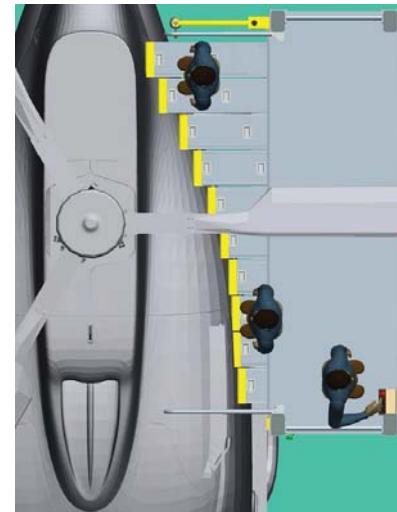
BTS AirDock / Servicing Platforms

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.
- 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

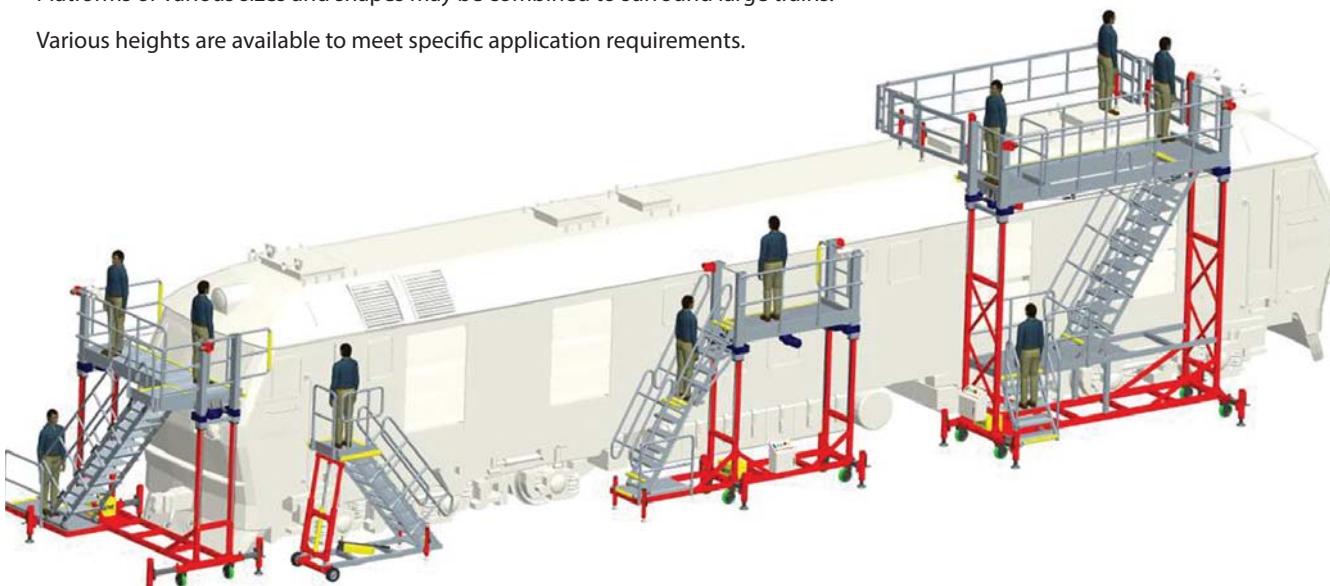


The rail inspection platform system includes either permanent inspection / maintenance platforms or mobile inspection / maintenance platforms or both.

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. Adjustable 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

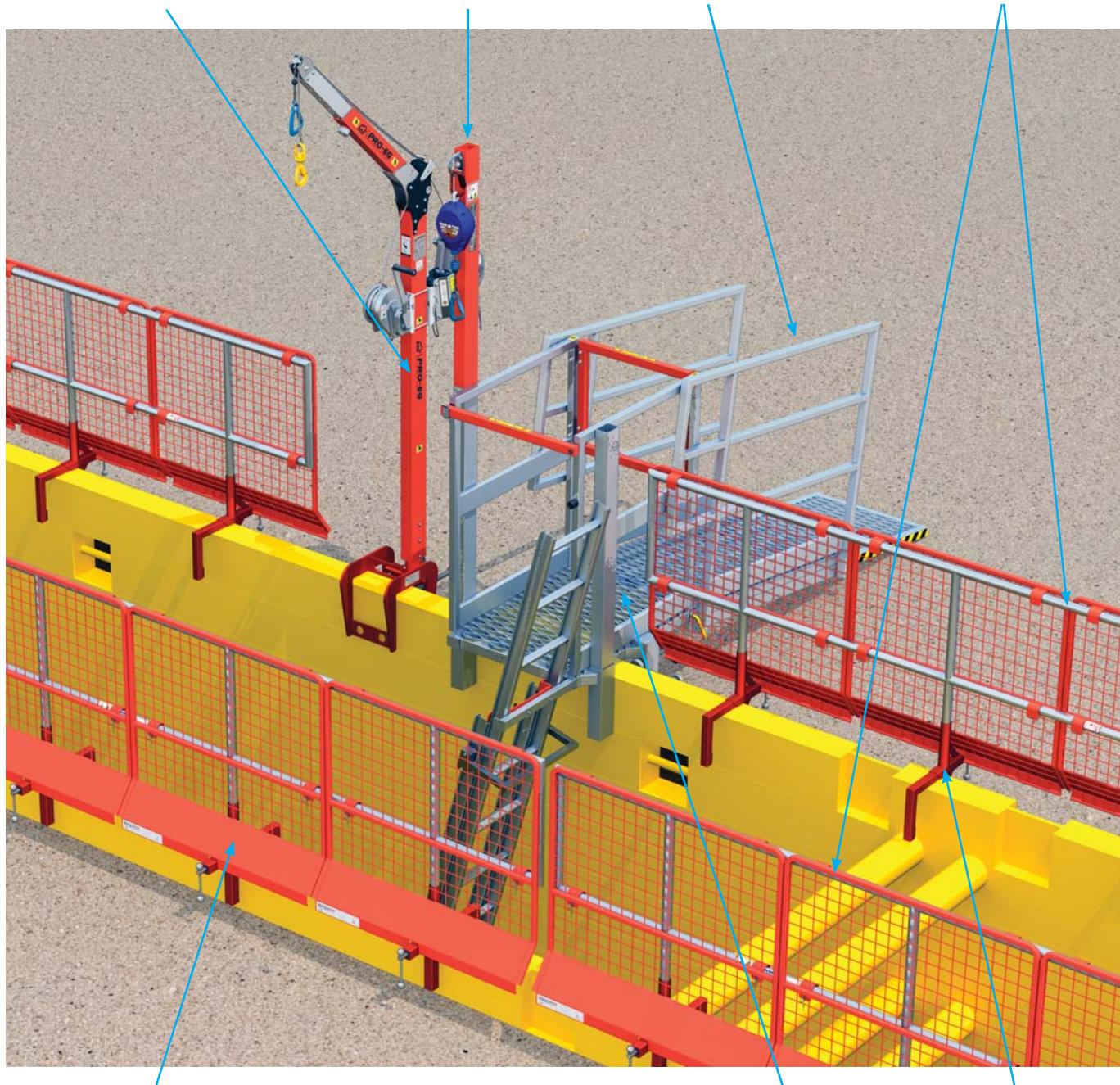
BTRENCHSAFE[®] GROUND EXCAVATION & TRENCH SYSTEM

Aluminium rescue/retrieval davit with man and material rated winches, steel adjustable shoring panel davit mount & aluminium equipment storage box
Code: 50506-KIT

Ladder access fall arrest post kit for fall protection when climbing up/down the ladder
Code: BTS6928-LP-EP

Aluminium access/egress telescopic walkway
Code: BTS6928-TW

Steel & Aluminium 2.0m (6.56 ft), 3.0m (9.84 ft) 3.5m (11.48 ft) & 4.0m (13.12 ft) guardrail assembly with adjustable clamping devices
Code: BTS6000-2.0 / 3.0 / 3.5 / 4.0



Steel mesh barriers
0.5 x 1.0m (1.64 x 3.28 ft)
Code: BTS6000T-0.5EPS
1.0 x 1.0m (3.28 x 3.28 ft)
Code: BTS6000T-11EPS

Aluminium access/egress shoring platform
Code: BTS6928-LP

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

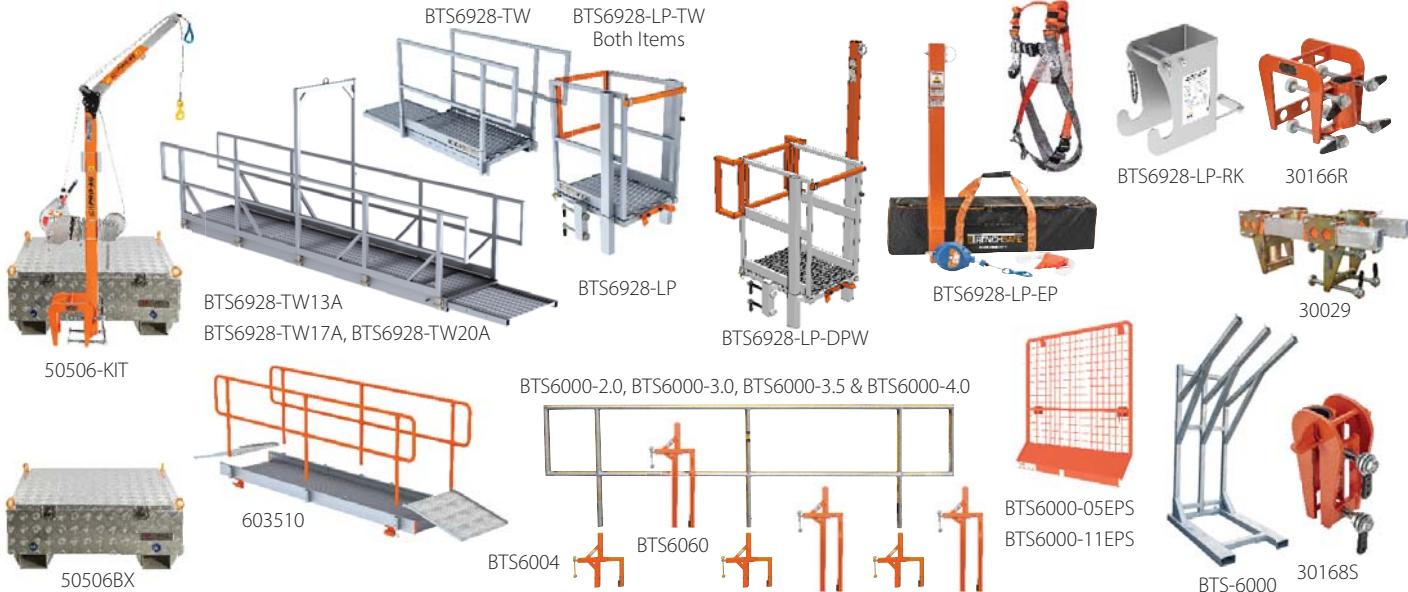
Using the **BTRENCHSAFE**[®] Shoring Solutions, your worksite will be much safer and at the same time also allow your site to be compliant with relevant Codes of Practice for Excavation Work and Working in Confined Spaces.

BTRENCHSAFE[®] SHORING SOLUTIONS

Code	Description
50506-KIT	BTRENCHSAFE [®] Aluminium rescue/retrieval davit (50506) with man & materials rated winches, steel adjustable shoring panel 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-LP-DPW	BTRENCHSAFE [®] Aluminium access/egress shoring platform c/w guardrail wings, anchor post & Stillage.
BTS6928-TW	BTRENCHSAFE [®] Aluminium telescopic walkway 1.2 to 2.0m (4.0 to 6.75 ft).
BTS6928-TW13A	BTRENCHSAFE [®] Aluminium telescopic walkway 3.0 to 4.0m (10 to 13 ft).
BTS6928-TW17A	BTRENCHSAFE [®] Aluminium telescopic walkway 4.3 to 5.2m (14 to 17 ft).
BTS6928-TW20A	BTRENCHSAFE [®] Aluminium telescopic walkway 5.2 to 6.0m (17 to 20 ft).
603510	BTRENCHSAFE [®] Aluminium cross over walkway 3.5m x 0.9m (11.48 x 2.95 ft) with guardrails & ramps.
BTS6928-LP-EP	BTRENCHSAFE [®] Ladder access fall arrest post kit.
BTS6928-LP-RK	BTRENCHSAFE [®] HRA attachment bracket for Ladder access fall arrest post.
BTS6000-2.0	BTRENCHSAFE [®] Aluminium Guardrail assembly with adjustable clamping devices (BTS6004) x 2.0m (6.56 ft).
BTS6000-3.0	BTRENCHSAFE [®] Aluminium Guardrail assembly with adjustable clamping devices (BTS6004) x 3.0m (9.84 ft).
BTS6000-3.5	BTRENCHSAFE [®] Aluminium Guardrail assembly with adjustable clamping devices (BTS6004) x 3.5m (11.48 ft).
BTS6000-4.0	BTRENCHSAFE [®] Aluminium Guardrail assembly with adjustable clamping devices (BTS6004) x 4.0m (13.12 ft).
BTS6000-05EPS	BTRENCHSAFE [®] Steel mesh for Guardrails 0.5m x 1.0m (1.64 x 3.28 ft).
BTS6000-11EPS	BTRENCHSAFE [®] Steel barrier mesh for Guardrails 1.0m x 1.0m (3.28 x 3.28 ft).

BTRENCHSAFE[®] ACCESSORIES

50506BX	BTRENCHSAFE [®] Aluminium equipment storage box to suit 50506 PRO-6G Davits.
BTS-6000	BTRENCHSAFE [®] Guardrail storage rack.
30166R	BTRENCHSAFE [®] Steel adjustable shoring panel davit mount Base: 20mm - 205mm (0.78 - 8.18 in).
30029	BTRENCHSAFE [®] Steel adjustable shoring panel davit mount Base: 30mm - 620mm (1.18 - 24.40 in).
30168S	BTRENCHSAFE [®] Steel adjustable sheet piling davit mount Base: 0.1mm - 25mm (0.003 - 0.98 in).
BTS6004	BTRENCHSAFE [®] Steel adjustable ACME thread clamping devices for Guardrails (Standard).
BTS6060	BTRENCHSAFE [®] Steel adjustable ACME thread clamping devices for Guardrails 600mm (23.62 in) to suit knife edge or inverted panel installations.



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

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

BTRENCHSAFE[®] RESCUE/RETRIEVAL DAVIT KIT

c/w winches & shoring panel base Code: 50506-KIT

The BTRENCHSAFE[®] Rescue/Retrieval Davit c/w Type 3 SRL, Materials winch & Shoring Panel Base 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:

Davit

- Manufactured using 6061-T6 Aluminium.
- Powder-coated with AkzoNobel Interpon D610 advance coating.
- Modular construction of up to 4 pieces allowing for ease of transport and storage.
- Inbuilt visual fall & overload indicator.
- 5 Offset adjustment settings from 0.5m to 0.7m (1.64 to 2.29 ft) with self locking indexing pin.
- No special tools required for assembly or disassembly.
- Suitable for either man or material lifting/lowering applications.
- Working load limit 140kg (310 lbs) material handling.
- Primary anchor is man rated to 136kg (300 lbs) including all tools and clothing.
- Secondary anchor is rated 150kg (330.69 lbs) (anchor point for winch operator).
- Suitable for use in both permanent and portable davit bases.
- Swivel 360 degrees.
- Quick connect winch interface bracket.
- Patent Pending.



Inertia Reel with Recovery Winch mode

- 24m (78.74 lbs) 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.



Stainless Steel Hand Brake Materials Winch

- Rated Capacity: 140kg (310 lbs) (Lifting) in line with Materials Rated Pro-Series Davit.
- 5:1 gear ratio.
- Very low operator effort required for easy operation.
- Double pawl safety feature.
- Stainless steel construction Grade 304.
- C/w 18m x 6mm (59 ft x 1/4 in) 7x19 H.D.G Grade G2070 Wire rope & 6mm (1/4 in) Grade 80 Eye Swivel Self Locking Hook yellow powder coated.

Shoring Panel Bracket Davit Base

- Steel construction and powder-coated in hi-vis orange for increased visibility on site.
- Adjustable throat opening to accommodate shoring panels with widths of 30mm - 620mm (1.18 - 24.40 in).
- Increased surface area of critical holding points that contacts the aluminium and steel shoring panels to prevent puncture and piercing of panels when in use.



Heavy Duty Storage Tool Box

- 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.

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

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

BTRENCHSAFE[®] ACCESS/EGRESS SHORING PLATFORM & 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.



Optional ladder access fall arrest post kit Code:
BTS6928-LP-EP



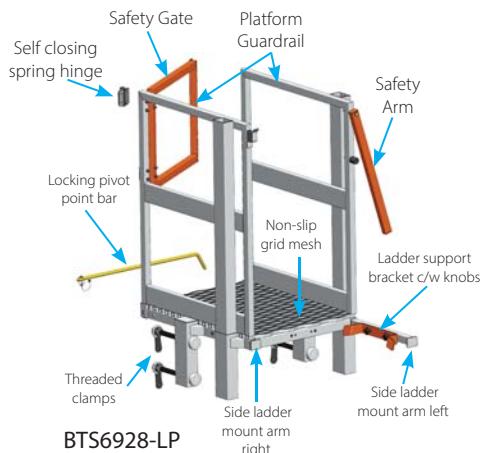
Key Product Features:

Access/Egress Platform

- Manufactured in lightweight ultra strong aluminium grade 6061-T6 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 (8.0 in).
- Built-in ladder support bracket for safely securing vertical ladders onto platform.
- 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 Ladder access fall arrest post kit for fall protection when climbing up/down the ladder.

Telescopic Walkway

- Manufactured in lightweight ultra strong aluminium grade 6061-T6 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
- Available in adjustable length of
 - Code: BTS6928-TW 1.2 to 2.0m (4.0 to 6.75 ft)
- Can be adjusted to a max of 30° for access/egress of platform.



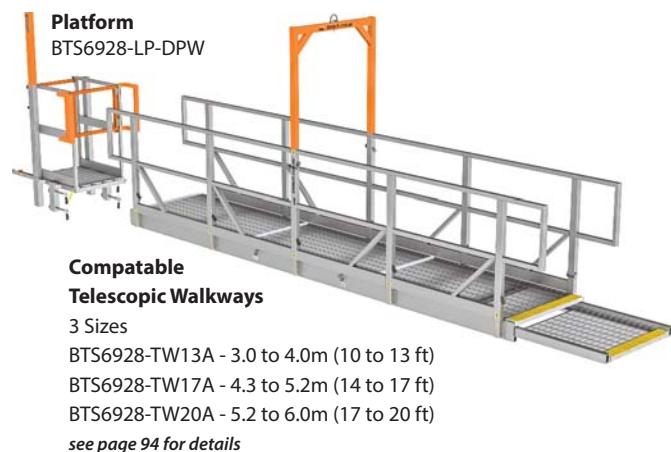
Comes with Flat Pack stillage for storage & transport

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

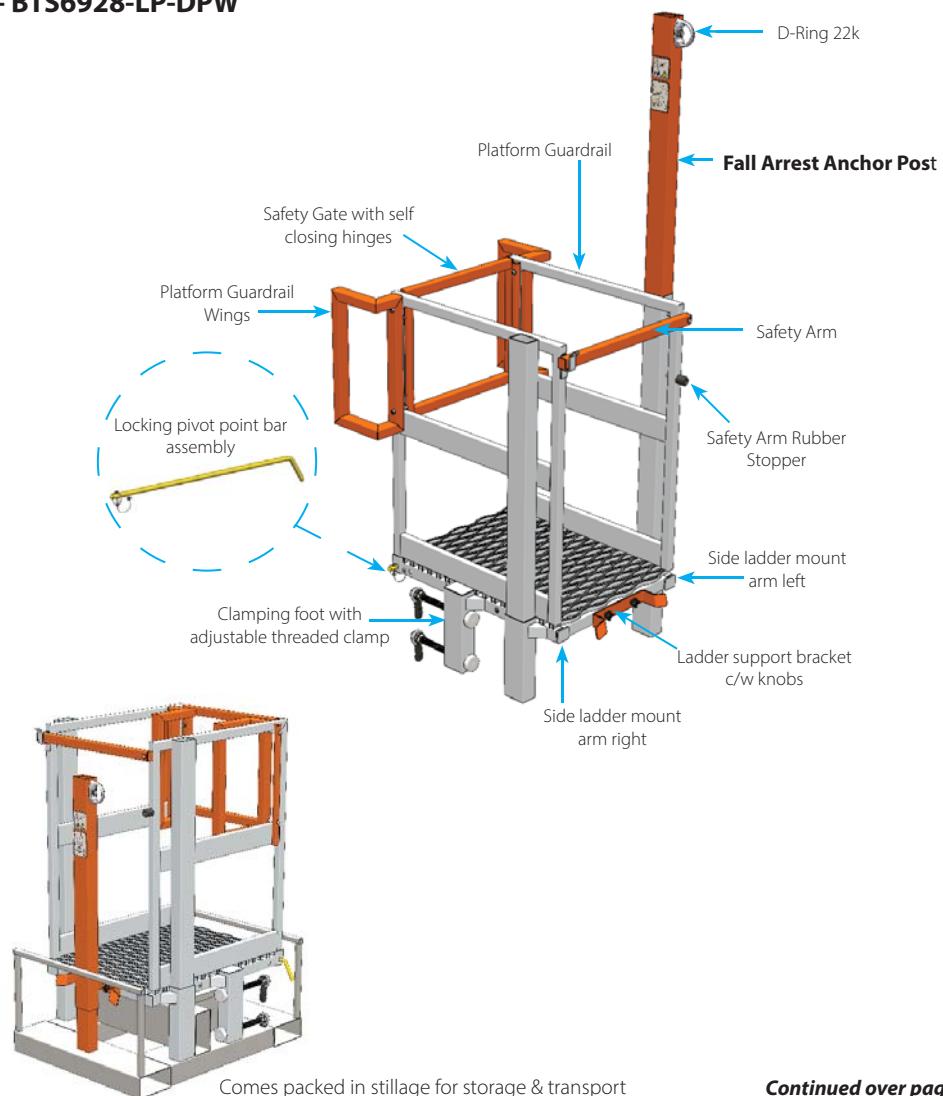
BTRENCHSAFE Ground Excavation & Trench System - BTS Access/Egress Shoring Platform

BTRENCHSAFE[®] ACCESS/EGRESS SHORING PLATFORM & TELESCOPIC WALKWAYS Code: BTS6928-LP-DPW, BTS6928-TW-13A, 17A & 20A

The BTRENCHSAFE[®] Access/Egress Shoring Platform BTS6928-LP-DPW, equipped with guardrail wings and its dedicated stillage, is designed to seamlessly integrate with the three Telescopic Walkway sizes detailed on page 94. Requiring minimal assembly, this platform ensures a secure access and egress solution for multiple users entering and exiting ground excavations, promoting a safe three-point contact at all times.



Aluminum Ladder Access Platform - BTS6928-LP-DPW



BTS6928-LP-DPW

Stillage contains:

- Platform
- Guardrail wings
- Anchor post

Comes packed in stillage for storage & transport

Continued over page

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

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

BTRENCHSAFE[®] TELESCOPIC WALKWAYS

Code: BTS6928-LP-DPW, BTS6928-TW-13A, 17A & 20A

BTRENCHSAFE Telescopic Walkways

- Manufactured in lightweight ultra strong aluminium grade 6061-T6 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
- Available in 3 adjustable lengths of
 - Code: BTS6928-TW13A 3.0 to 4.0m (10 to 13 ft)
 - Code: BTS6928-TW17A 4.3 to 5.2m (14 to 17 ft)
 - Code: BTS6928-TW20A 5.2 to 6.1m (17 to 20 ft)
- Can be adjusted to a max of 30° for access/egress of platform.



Non Slip grid mesh floor construction with enlarged profile to minimise dirt & soil build-up.



Rated locking pins with keeper & lanyard.



BTS6928-TW20A
5.2 - 6.0m (17 - 20 ft)



Rated top lifting point.



Rated lifting points on platform base 2 either side.



Compliance Plate fitted to platform base



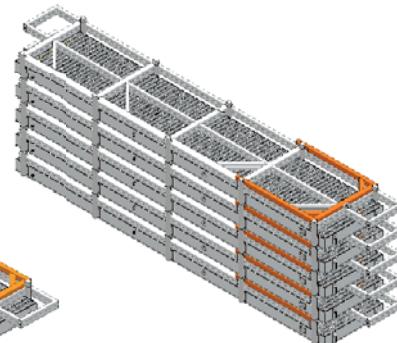
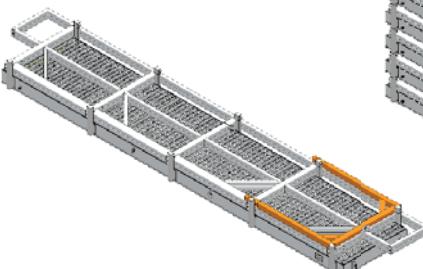
BTS6928-TW13A
3.0 - 4.0m (10 - 13 ft)



Platform attachment pivot point.



BTS6928-TW13A,
BTS6928-TW17A
& BTS6928-TW20A
dismantle into flat pack for easy
storage & transport.



Can be stacked 5 high

TRENCH SHORING EQUIPMENT



BTRENCHSAFE Ground Excavation & Trench System - BTS Fall Arrest Post Kit & HRA Bracket

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, inertia reel (x1), safety harness 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 by having an appropriate fall arrest system in place whilst accessing ground excavations.



BTRENCHSAFE® HRA ATTACHMENT BRACKET

for Anchor post Code: BTS6928-LP-RK

This bracket is designed to be used in conjunction with the BTRENCHSAFE® Fall Arrest Post Kit to enable the use of a HRA for rescue / retrieval purposes.

HRA & Anchor post not included



Code: BTS6928-LP-RK

BTRENCHSAFE® ADJUSTABLE SHORING MOUNT BASE

Code: 300029

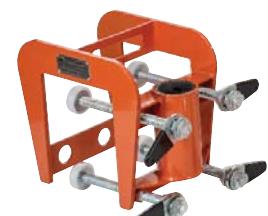
- Grip range 30mm (1.18 in) - 620mm (24.40 in).
- Electro galvanised and powder coated.
- Weight 34kg (75 lbs).
- Includes stillage for ease of transportation.



BTRENCHSAFE® SHORING MOUNT BASE

Code: 30166R

- Grip range 20mm (0.78) - 205mm (8.07 in).
- Electro galvanised with powder coat.
- Weight 25kg (55 lbs).



BTRENCHSAFE® SHEET PILING MOUNT BASE

Code: 30168S

- Grip range 0.1mm (0.003 in) - 25mm (0.98 in).
- Electro galvanised with powder coat.
- Weight 18kg (40 lbs).



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 603510 / GRID MESH OPTION Code 603510S

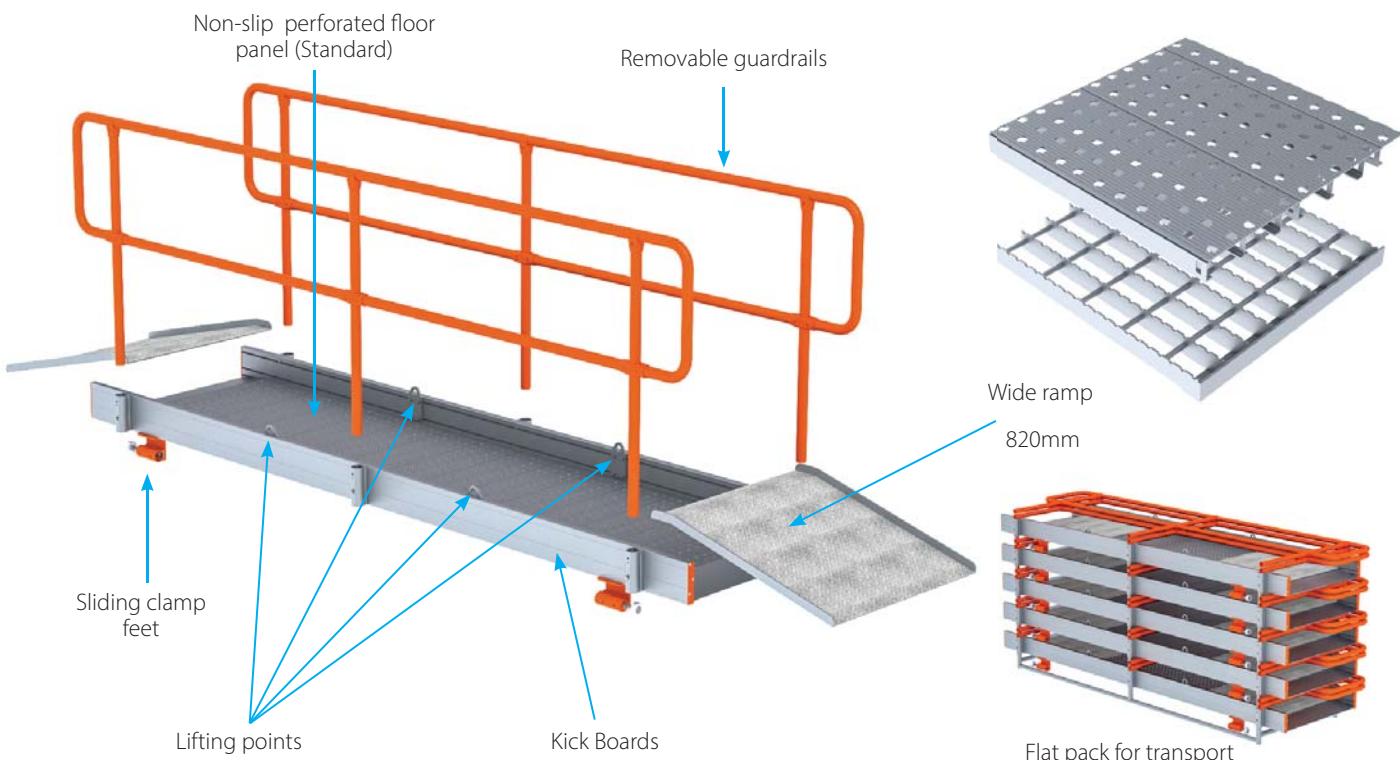
The BTRENCHSAFE[®] Shoring Cross Over Bridge allows workers safe method of mid-span access over trench excavations.

Key Product Features:

- Manufactured in lightweight ultra-strong aluminium grade 6061-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 (32.28 in) 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 3.5m (11.48 ft) with other lengths available to be manufactured on order.
- Easily assembled & dismantled for transportation.
- Integrated lifting points.

Flooring Options:

- Lightweight Aluminium perforated floor panel (Standard).
- Optional Aluminium non-slip grid mesh.



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

BTRENCHSAFE Ground Excavation & Trench System - BTS Aluminium Guardrail & Storage Rack

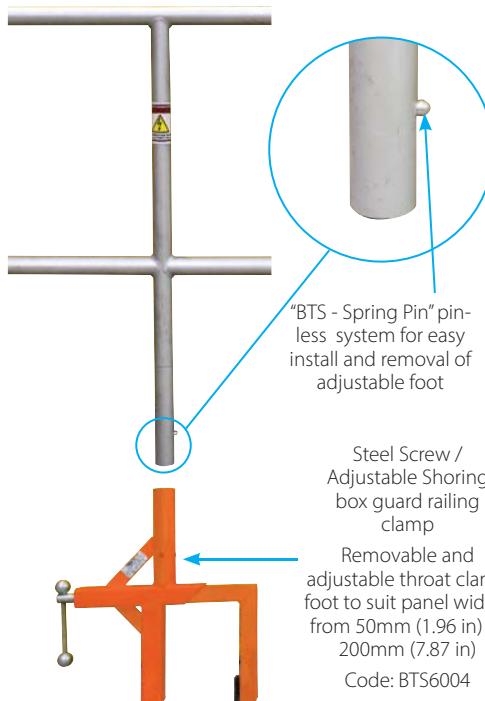
BTRENCHSAFE[®] ALUMINIUM ADJUSTABLE CLAMPING GUARDRAIL Code: BTS6000-2.0 / 3.0 / 3.5 / 4.0

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

Key Product Features:

Adjustable Clamping Guardrail

- Manufactured in lightweight ultra strong aluminium grade 6061-T6 in natural finish.
- Adjustable throat clamping to suit panel widths from 50mm (1.96 in) to 200mm (7.87 in).
- High density rubber padding on clamp to provide even surface contact.
- Available in guardrail lengths of 2.0m (6.56 ft), 3m (9.84 ft), 3.5m (11.48 ft) & 4.0m (13.12 ft).
- 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 steel construction with HDG finish.
- Store 25 guardrails of 2.0m (6.56 ft), 3m (9.84 ft), 3.5m (11.48 ft) & 4.0m (13.12 ft) long per rack.
- Rack can be positioned on its own or stacked back to back.
- Relatively small footprint of 1,700mm (66.92 in) long x 1,100mm (43.30) 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 guard rails

Code: BTS6000-05EPS for 1 single panel approximately 0.5m x 1.0m (1.64 W x 3.28 in H)

Code: BTS6000-11EPS for 1 single panel approximately 1.0m x 1.0m (3.28 W x 3.28 in H)

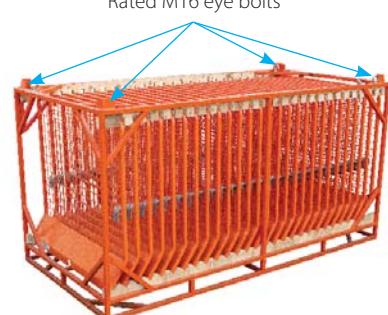
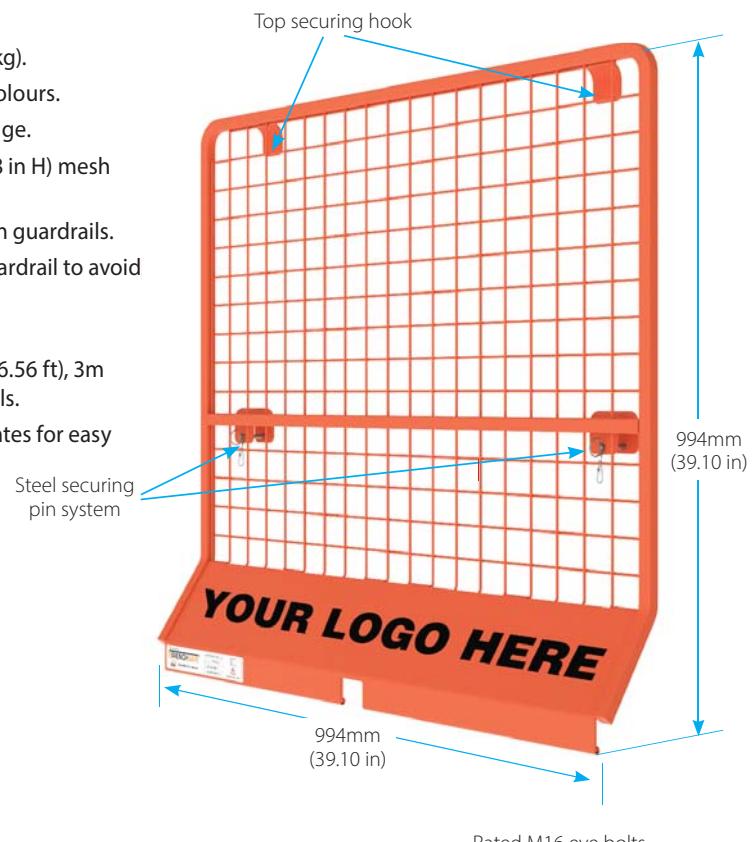
The **BTRENCHSAFE**[®] Mesh Barriers are an ideal product solution for construction sites requiring practical solutions to manage the risks of injury to personnel from dropped objects when working within open ground excavations.

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.

Key Product Features:

- Lightweight panels, weigh only 12.1lbs & 19.8lbs (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 (1.64 W x 3.28 in H) & 1.0m x 1.0m (3.28 W x 3.28 in H) 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 (6.56 ft), 3m (9.84 ft), 3.5m (11.48 ft) & 4.0m (13.12 ft) Aluminium Guardrails.
- Company logo and website can be stencilled on the kick plates for easy identification and advertising purposes.



Storage rack hold 25 Mesh Barriers and can be lifted / moved with a crane or forklift.

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

CONFINED SPACE SHORING SYSTEM **TRENCHSAFE**

BTRENSAFE Mobile Anchor Cube (MAC)

TRENCHSAFE MOBILE ANCHOR CUBE (MAC)

Code: 70208 – Mobile Anchor Rescue Cube c/w Mast

The **TRENCHSAFE** 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. The counterweighted design requiring no permanent fixation. The MAC has built-in lifting pockets allows the unit to be moved around a site with relative ease. The MAC provides fall protection for 2 workers and can be set-up with type 2 and/or type 3 inertia reels with rescue recovery winch feature.



CODE: 70208
Base & Mast Only

Key Product Features:

- Counterweighted base with built-in lifting pockets.
- Overall dimensions of 1.2 x 1.2 x 0.4m (47.2 x 47.2 x 15.7 in) and weighing 1400kg (3,087 lbs).
- 2-person fall arrest system with optional type 3 rescue recovery winch feature.
- Can be set-up as a fall restraint system.



BNS20TA



60174



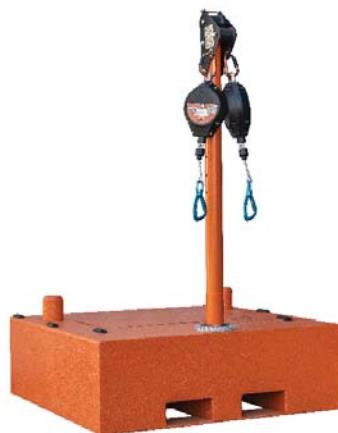
60202UIM-SP



HWPS-9TA



HRA-24TA



CODE: 70208
Base and Mast Only
Shown with 2 x Karabiners & SRLs
(Karabiners & SRLs are not included. SRLs are
available in various lengths)



CODE: 70208
Base and Mast Only
Shown with 2x Brackets & HRA's
(Bracket & HRA's are not included. HRA's are
available in various lengths)



CODE: 70208M Anchor Mast
approx; 35kg (38 lbs)

CODE: 70208B Anchor Base
1.2 x 1.2 x 0.4m (47.2 x 47.2 x 15.7 in)
1400kg (3,087 lbs)

MOBILE ANCHOR CUBE (MAC) & ACCESSORIES

Model Description	Code
Mobile Anchor Cube (MAC) Mast & Base.	70208
Anchor Base only.	70208B
Anchor Mast Only.	70208M
IKAR Rescue winch Bracket without Female Single Interface Brackets.	60202UIM-SP
Steel bracket adaptor for davit c/w two pins finish in zinc dichromate (gold) finish with wire rope lanyard.	60174
Screw Gate Oval Karabiner.	BSK0001
IKAR Self Retracting Lifelines 9, 12, 18 or 24 m (29, 39, 59 or 78 ft).	HWPS-9TA, HWPS-12TA, HWPS-18TA, HWPS-24TA
IKAR Inertia Reel and Recovery Winch 12, 18 or 24m (39, 59 or 78 ft).	HRA-12TA, HRA-18TA, HRA-24TA

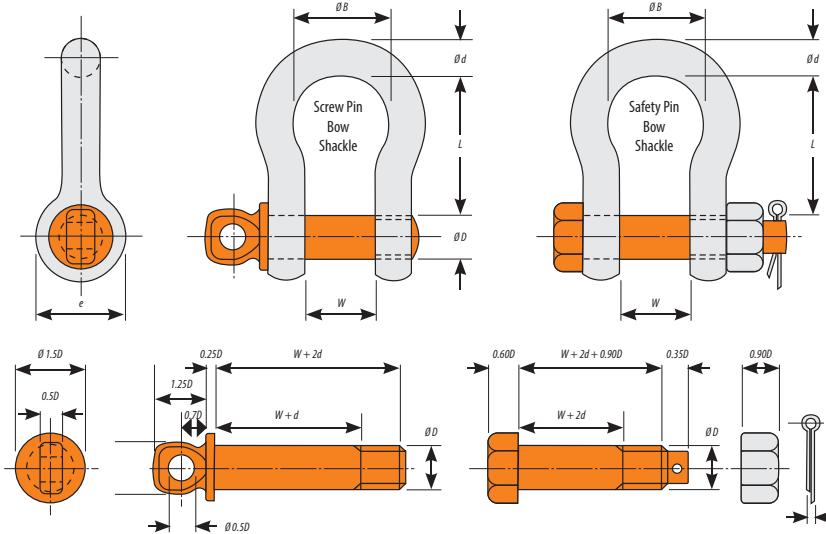
MATERIAL HANDLING

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

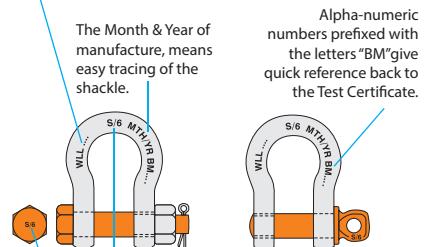
All **BTS Grade 'S' Orange Pin Shackles** are easily identified and traceable in accordance with our Quality Assurance system. The following identification marks are forged on the shackle.



- Individually stamped with the working load limit in tonnes (i.e. W.L.L. 1T).
- 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.
- An alpha-numeric number - prefixed with "BM number" can be traced back to the test certificate.
- The month and year of manufacture adds further traceability of the materials used and to the relevant test certificates for sizes 6mm to 57mm.
- 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.
- 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.
- 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.



MATERIAL HANDLING

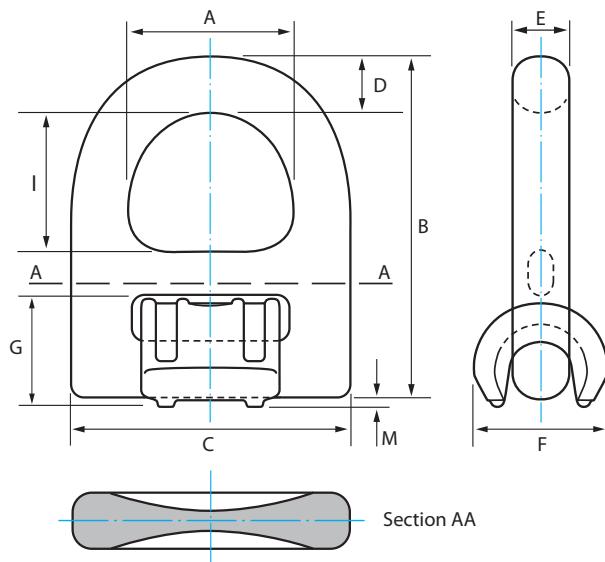
BTECH-ALLOY V® Weld-on Lifting Lugs

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.



BTECH-ALLOY V®

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	21.5	190	40	57.5	95	69	85	5	HV25+6	6.9



CAPACITIES AVAILABLE

WLL IN TONNES

1.5, 2.5, 4, 6.7, 10 & 16.

LIFTING LUG MARKINGS

Front Back



WELD BLOCK MARKINGS



WELDING SEAM ATTACHMENT



MATERIAL HANDLING

BTECH-ALLOY® Swivel Lifting Points

BTECH-ALLOY® 360° SWIVEL LIFTING POINTS FOR LIFTING

MODEL: BTSL

BTECH-ALLOY 360° Swivel Lifting Points are a high strength steel bolt on attachment point, suitable for use in Lifting and Lashing applications. Its design allows the lifting point to be loaded in all directions. Available from bolt size M8 to M48, these heavy duty lifting points are manufactured to meet the following requirements,

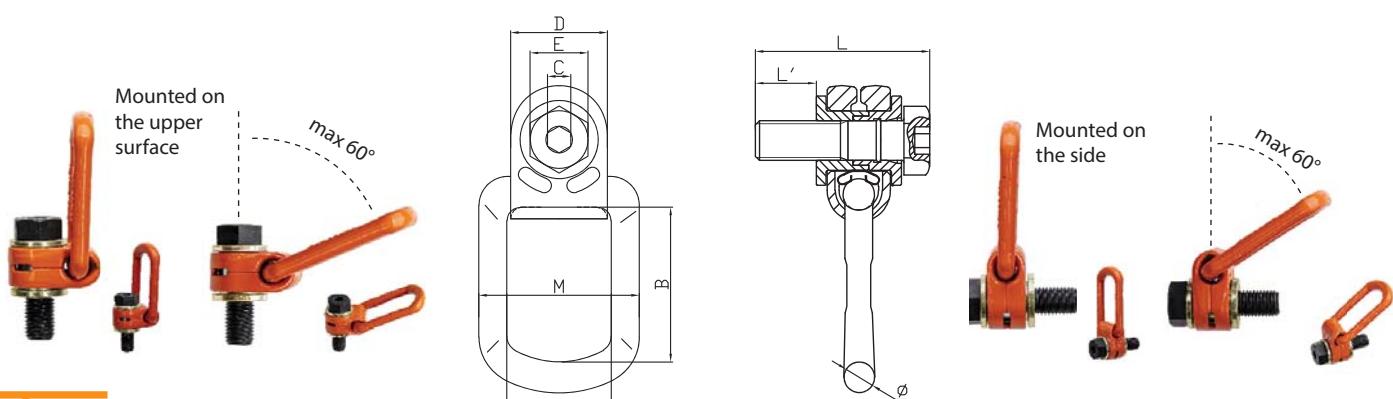
- Forged super alloy steel- Quenched and Tempered.
- Marked with WLL in tonne, nominal size in mm, quality mark and BTECH branding.
- Bolts are metric thread grade 12.9 alloy socket head screw.
- Proof tested to 2 x working load limit.
- 4:1 design factor.
- Break test.
- 100% Magnaflux crack detection.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



The heavy duty hoist ring swivel 360 degrees and pivots 180 degrees. Swivelling under full load is permissible provided the inclination angle is not perpendicular to the screw-in direction. The lifting suitable for permanent swivelling under full load.

The hoist ring will turn 360°, adjustable to the direction of the pull.

BTECH-ALLOY lifting points offer lifting solutions for the manufacturing, construction, concrete, trenching, and pre-cast industries, automotive, construction, entertainment, food processing, forestry, heavy equipment manufacturing, mining, oil& gas, power/utilities, towing, wind energy, transportation and tool & die makers.



BTECH-ALLOY

Code	Thread Pitch	Working load limit (t)	Torque settings (N.m)	A ± 1 mm	B ± 1 mm	C mm	D mm	E mm	M ± 1.5 mm	L ± 1.5 mm	L' ± 1.5 mm	Ø ± 0.5 mm	Weight (kg)
BTSL003	M8 x 1.25	0.3	10-15	35	52.5	6	30	13	45	46	10.4	14	0.36
BTSL0063	M10 x 1.5	0.63	10-15	35	52.5	6	30	17	45	52	15.4	14	0.38
BTSL010	M12 x 1.75	1	10-15	40	54	8	36	19	68	62	18	18	0.71
BTSL015	M16 x 2.0	1.5	20-30	40	54	8	36	19	68	70	24	18	0.74
BTSL025	M20 x 2.5	2.5	50-70	54	80	12	50	30	83	88	30	16	1.19
BTSL040	M24 x 3.0	4	130-160	54	94	14	50	36	83	95	35	18	1.35
BTSL040A	M27 x 3.0	4	180-220	73	106	17	68	41	120	120	38	27	4.18
BTSL050	M30 x 3.5	5	200-250	73	106	17	68	41	120	132	48	27	4.4
BTSL070	M36 x 4.0	7	280-400	73	106	17	68	41	120	142	54	27	4.65
BTSL0100	M42 x 4.5	10	500-600	94	140.5	24	86	65	156	176	72	31	8.2
BTSL0200	M48 x 5.0	20	500-650	104	155	27	95	75	176	194	74	40	13

MATERIAL HANDLING

BTECH-ALLOY® Key Eye Lifting Points

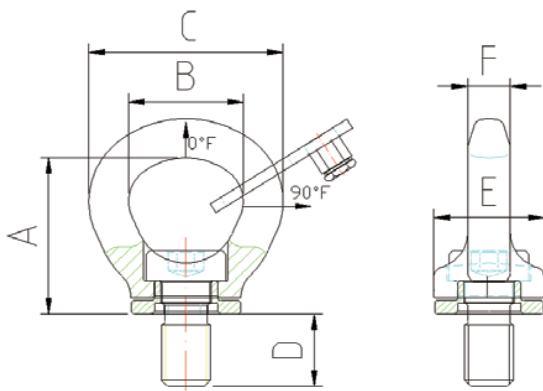
BTECH-ALLOY® KEY EYE LIFTING POINTS FOR LIFTING

MODEL: BTKE

BTECH-ALLOY Key Eye Points, are the modern way to safely lift loads as opposed to the traditional DIN style eye bolts. Key eye points are equipped with a rotational 360-degree body, which automatically adjusts the tensile stress angle to the optimal direction when engaged to a load. BTECH-ALLOY key eye points come standard with their own key to assist in easier engagement during installation.

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

BTECH-ALLOY Key eye points offer lifting solutions for the manufacturing, construction, concrete, trenching, and pre-cast industries, automotive, construction, entertainment, food processing, forestry, heavy equipment manufacturing, mining, oil& gas, power/utilities, towing, wind energy, transportation, and tool & die makers.



BTECH-ALLOY

Code	Weight (kg)	Working load limit (t)		A mm	B mm	C mm	D mm	E mm	F mm
		0°	90°						
BTKE003	0.11	0.8	0.3	38 ± 2	26 ± 2	45.3 ± 2	11.5 ± 2	25 ± 1	8 ± 1
BTKE004	0.12	1.0	0.4	38 ± 2	26 ± 2	45.3 ± 2	14 ± 2	25 ± 1	8 ± 1
BTKE0075	0.20	2.0	0.75	43.5 ± 3	32 ± 3	54 ± 3	17 ± 2.5	33 ± 2	10 ± 1.5
BTKE015	0.35	4.0	1.5	52 ± 3	37.5 ± 3	63.5 ± 3	24 ± 2.5	36 ± 2	14 ± 1.5
BTKE023	1.66	6.0	2.3	63 ± 4	44.5 ± 4	78.5 ± 4	30 ± 3	47.5 ± 3	20.6 ± 2
BTKE032	1.10	8.0	3.2	74 ± 4	51.6 ± 2	92 ± 4	35.3 ± 3	53 ± 3	20 ± 2
BTKE045	2.07	12.0	4.5	92 ± 4	65 ± 4	118 ± 4	45 ± 3	68 ± 3	24 ± 2

MATERIAL HANDLING

SLINGTECH

SLINGTECH Polyester Round Slings to Australian Standards AS 4497

SLINGTECH ROUND WEBBING SLINGS

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

Round slings are constructed from high-tenacity continuous multi-filament 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.



Colour Coded to meet International lifting Standards

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.

 SLINGTECH	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	L = 1.7	L = 1.38	
BTS Code:	Colour	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

MATERIAL 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

MATERIAL HANDLING

SLINGTECH

SLINGTECH Polyester Flat Slings to Australian Standards AS 1353

SLINGTECH FLAT WEBBING SLINGS

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

Single Ply Flat sling with flat eyes



Single Ply Flat sling with folded eyes



Single Ply Flat sling with reversed eyes



Double Ply Flat sling with folded eyes



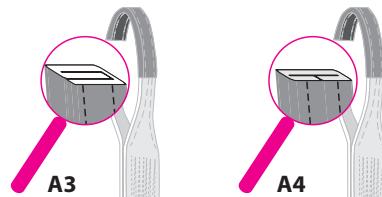
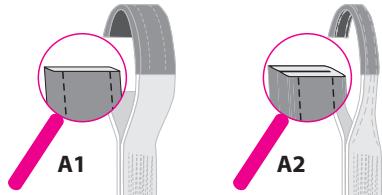
Four Ply Flat sling with folded eyes



Double Ply Flat sling with metal fittings



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.

 SLINGTECH	SLINGTECH Flat Slings Comply to AS 1353								
	L = LOAD FACTOR	L = 1.0	L = 0.8	L = 2.0	L = 1.7	L = 1.4	L = 1.0	L = 1.7	L = 1.38
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	60° W.L.L Tonnes
BFS2-1000	Violet	1.0	1.0	0.8	2.0	1.7	1.4	1.0	1.7
BFS2-2000	Green	2.0	2.0	1.6	4.0	3.4	2.8	2.0	3.4
BFS2-3000	Yellow	3.0	3.0	2.4	6.0	5.1	4.2	3.0	5.1
BFS2-4000	Grey	4.0	4.0	3.2	8.0	6.9	5.6	4.0	6.9
BFS2-5000	Red	5.0	5.0	4.0	10.0	8.6	7.0	5.0	8.6
BFS2-6000	Brown	6.0	6.0	4.8	12.0	10.3	8.4	6.0	10.3
BFS2-8000	Blue	8.0	8.0	6.4	16.0	13.8	11.2	8.0	13.8
BFS2-10000	Orange	10.0	10.0	8.0	20.0	17.3	14.1	10.0	17.3

MATERIAL HANDLING

SLINGTECH

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

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

Other sizes & Configurations available upon request

Note Minimum quantities may apply



MATERIAL HANDLING

SLINGTECH

BLACK Stage rigging gear that always gives a great performance.

STAGE RIGGING

BLACK Endless Round Slings

Rated Capacities: 1 and 2 tonne

In theaters, 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	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



MATERIAL HANDLING

SLINGTECH

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

BOAT LIFTING SLINGS

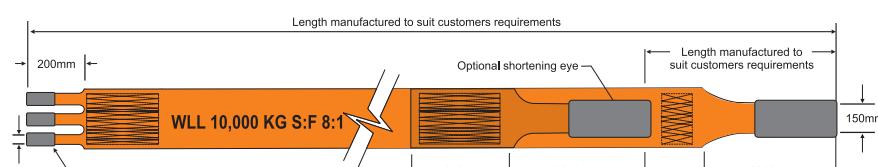
Boat lifting slings are used for raising boats and ships out of the water for maintenance and transfer over land. These marine slings are made with a special lifting sling application in mind and may require one or many specific features including: Chine pads, disconnects, sliding wear pads, sewn in 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.

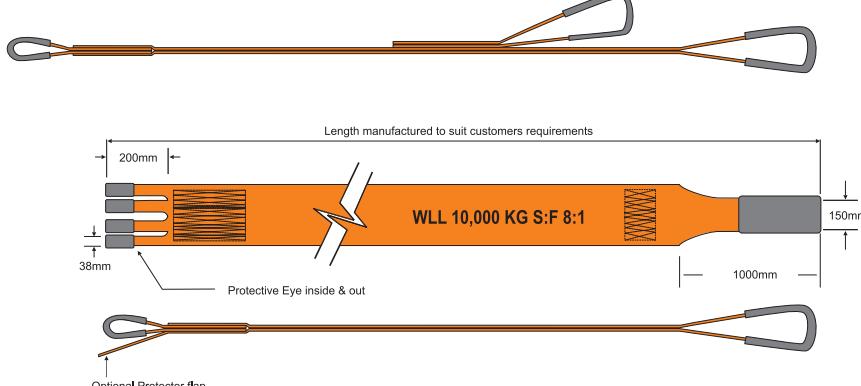
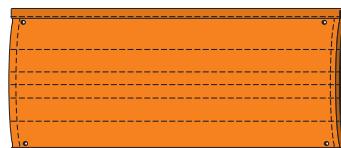


SLINGTECH Boat Slings can have specialty sewing included with one or many of the following custom sling options:

- 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)



MATERIAL HANDLING



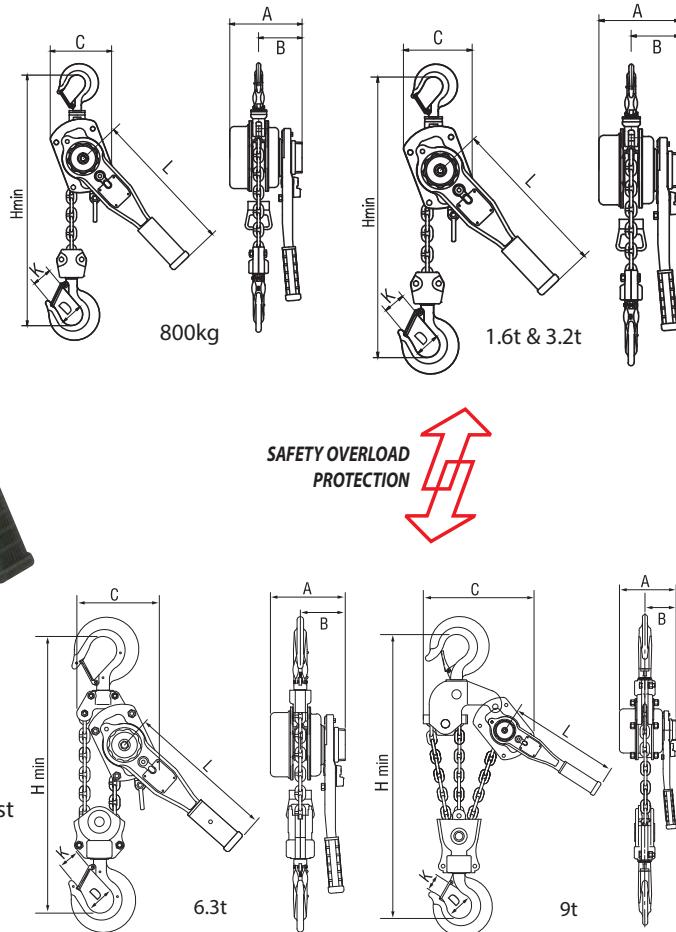
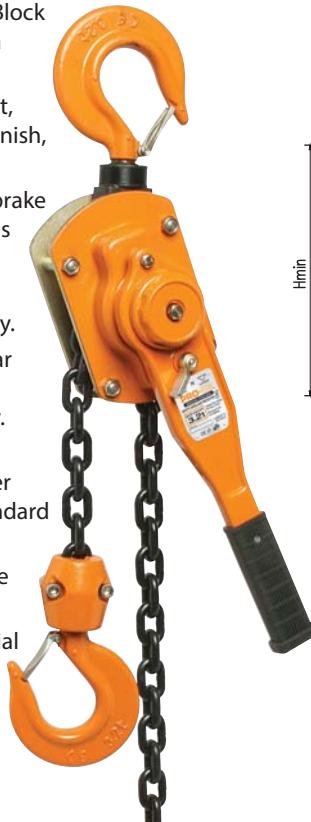
BTS PRO-4G Industrial Chain & lever block with safety overload protection

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

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

MATERIAL HANDLING



BTS PRO-6G 800kg Industrial lever block with safety overload protection

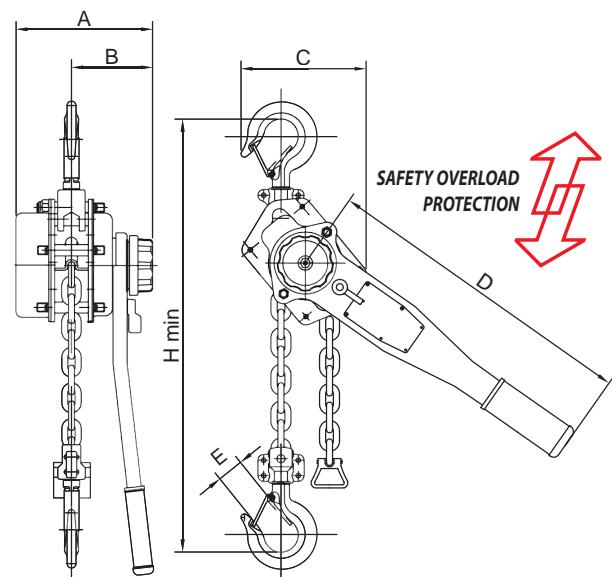
800KG INDUSTRIAL CHAIN LEVER BLOCK

The Pro-6G Industrial chain lever block has been designed and developed to be strong, robust and reliable product to meet Australia's harsh and demanding work environments.

The Pro-6G incorporates a Patent Pending safety 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. Careful selection of key componentry and manufacture QA procedures has delivered a quality and economical product for on-site cost control.

PRO-6G Chain Lever Block Key Features:

- Innovative design, with minimum effort required to raise the load and minimize fatigue.
- All steel construction with an enclosed gearbox and mechanism for increased durability and long life.
- The clutch system allows the load to be lowered safely in the event of an overload.
- 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.
- 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.
- Every BTS PRO-6G Industrial chain lever block is operationally tested to its rated capacity in our NATA certified testing facility and supplied with a BTS test certificate, Safety Instruction / Operation Manual.
- All PRO-6G Industrial chain lever blocks comply to Australian Standard AS1418.2.



Product Code	XZ-0815B	
Rated Capacity	800kg	
Standard Lift	m	1.5
Test Load	kN	11.3
Headroom	H mm	325
Effort on lever to lift full load	N	140
No. of load chain falls	-	1
Diameter of chain	mm	6x18
Dimensions (mm)		
A	148	
B	90	
C	136	
E	30	
D	280	
Net Weight	Kg	7



MATERIAL HANDLING



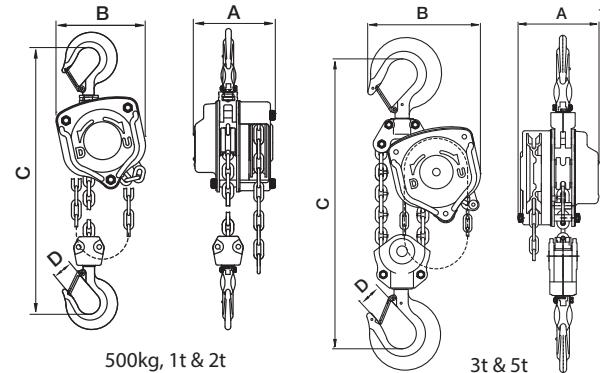
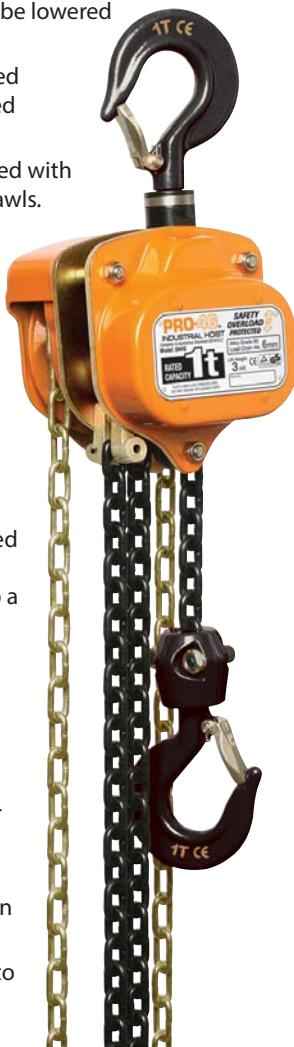
BTS PRO-4G Industrial Chain block with safety overload protection

INDUSTRIAL CHAIN HOISTS

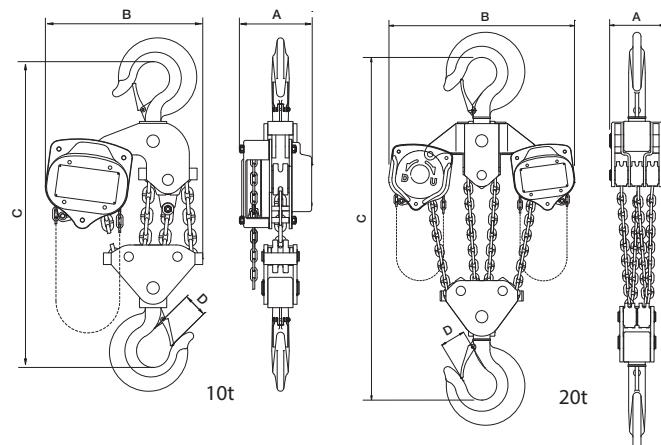
The PRO-4G Industrial Hoist incorporates a Patent Pending overload clutch system to protect the operator from serious injury and possible damage to the hoist or property if the load exceeds the rated capacity.

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 minimise 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.



SAFETY OVERLOAD PROTECTION



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	0.64t	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.

MATERIAL HANDLING



PRO-3G™

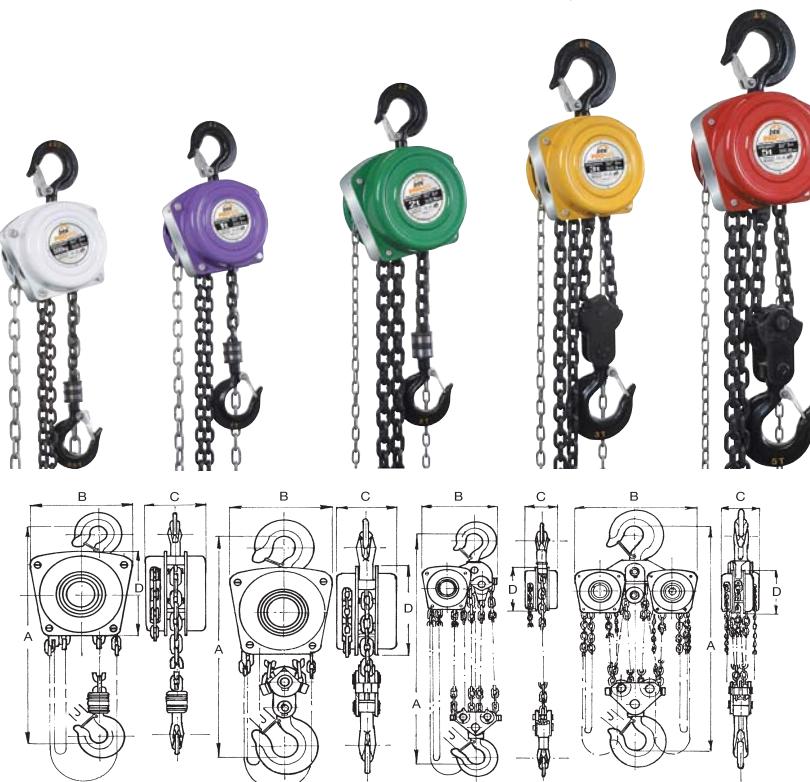
BTS PRO-3G Colour Coded Industrial Chain blocks

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 standardising 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.

MATERIAL 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 2000kg.
- 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 3m.
- 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
												mm	mm
	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

MATERIAL HANDLING

BTS elebia evo Automatic Crane Hooks

BTS® elebia® evo AUTOMATIC CRANE HOOKS

elebia, the unique automatic hook that allows you to attach and release the load remotely

The patented elebia automatic hook is equipped with a magnet in its lower section. When the magnet is close to the load, it attracts and correctly positions the sling. The operator pushes the control button, the safety hook closes, catches the ring and lifts the load without any additional handling. The lifting hook works with cable slings, chains slings, master links, textile slings and even big bags. With the unique elebia automatic crane hook, you will be able to pick up and release loads remotely, avoiding any manual handling concerns, minimising risks, enhancing safety and increasing productivity.



1.



the magnet attracts the ring.....

2.



...adjusts the lifting hook...

3.



...and elevates the load

MATERIAL HANDLING

BTS elebia evo Automatic Crane Hooks

BTS® elebia® evo 2 Main Features

Small, Compact, Light & Tough

We have created an automatic hook that is lighter, smaller and more compact but equally as strong.

Top Link

The system that links the automatic hook with the crane can be customized in order to adapt itself to any kind of situation.

Swivel with Bearings

The bearings allow the hook to rotate freely.

Swivel with Lock

The operator can lock it at every 90° position.

Position Encoder

The evo2 incorporates an innovative position encoder. This allows the user to know the exact position of the hook, allowing better control. This results in longer motor life and safer operations.

The sensor is contact-less: No wearing and zero maintenance.

BTS Hard Storage Case

(Optional) Code:522920



BTS® elebia® evo 5 to evo 25 Main Features

Swivel with bearings

If required, the swivel can be set in a fixed position (optional).

Weighing scale

Unit can be upgraded with optional weighing scale.

Removable and rechargeable

lithium battery with LED charge indicator and locking system.

Clutch protected

electric motor.

WELDOX®

high strength structural steel body.

Manual operation button

elebia magnetic field generator

If required, sensor will indicate when ring is in position (optional).

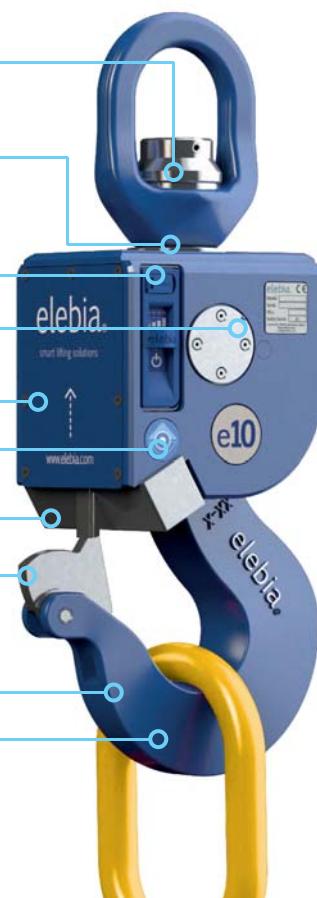
Spring-operated

stainless steel safety latch.

Forged hook

Impact and corrosion resistant

polyester coating. If required, coating for marine environments is available (optional).



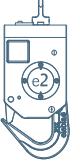
The innovative position encoder has been integrated into the evo10, evo10c, evo20 and evo25 lifting hooks.

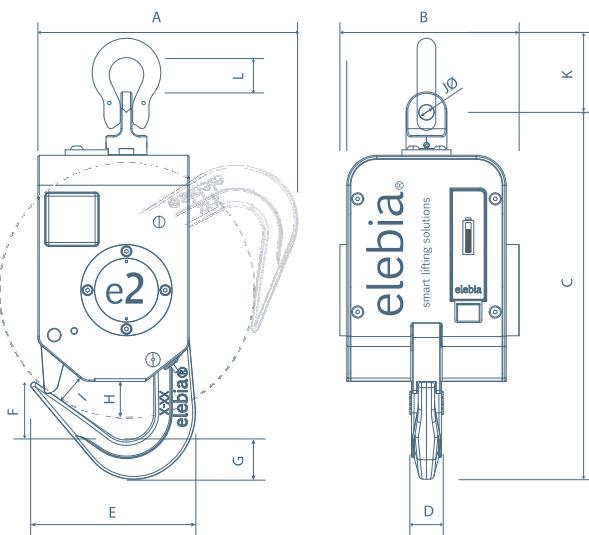
(This feature is optional for the evo5 automatic hook).

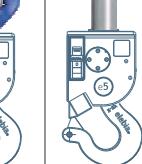
MATERIAL HANDLING

BTS elebia evo Automatic Crane Hooks

BTS® elebia® evo AUTOMATIC CRANE HOOKS

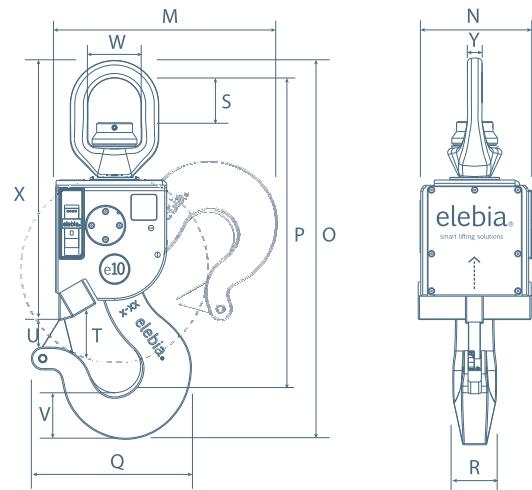
Hook Model	evo2				
W.L.L Safety Factor 4:1	2,500 kg / 5,511 lb				
Top Link Option	--	Ω	P2	ML3.15	ML5.4
					
Weight	7 kg 15.43 lb	7.2 kg 15.87 lb	7.3 kg 16.09 lb	8.5 kg 18.74 lb	9.5 kg 20.94 lb
Size Chart mm/in					
A	188 / 7.40	188 / 7.40	188 / 7.40	188 / 7.40	188 / 7.40
B	131.5 / 5.18	131.5 / 5.18	131.5 / 5.18	131.5 / 5.18	131.5 / 5.18
C	269.3 / 10.60	269.3 / 10.60	269.3 / 10.60	269.3 / 10.60	269.3 / 10.60
D	22 / 0.87	22 / 0.87	22 / 0.87	22 / 0.87	22 / 0.87
E	120.9 / 4.76	120.9 / 4.76	120.9 / 4.76	120.9 / 4.76	120.9 / 4.76
F	42.5 / 1.67	42.5 / 1.67	42.5 / 1.67	42.5 / 1.67	42.5 / 1.67
G	28.8 / 1.13	28.8 / 1.13	28.8 / 1.13	28.8 / 1.13	28.8 / 1.13
H	26.7 / 1.05	26.7 / 1.05	26.7 / 1.05	26.7 / 1.05	26.7 / 1.05
I	21.3 / 0.84	21.3 / 0.84	21.3 / 0.84	21.3 / 0.84	21.3 / 0.84
J	11 / 0.43	11 / 0.43	11 / 0.43	11 / 0.43	11 / 0.43
K	- / -	55 / 2.16	111 / 4.37	- / -	- / -
L	- / -	23.5 / 0.92	- / -	- / -	- / -



evo5				
	5,000 kg / 11,023 lb			
	--	B10	B20	L5
				
Weight	26 kg 57.32 lb	31 kg 68.34 lb	38 kg 83.77 lb	---*

* weight varies

M	277 / 10.91	277 / 10.91	277 / 10.91	277 / 10.91
N	170 / 6.69	170 / 6.69	170 / 6.69	170 / 6.69
O	469 / 18.46	519.8 / 20.46	598.9 / 23.58	CUSTOM
P	409 / 16.10	451.3 / 17.76	519.5 / 20.45	CUSTOM
Q	194 / 7.64	194 / 7.64	194 / 7.64	194 / 7.64
R	43 / 1.70	43 / 1.70	43 / 1.70	43 / 1.70
S	49 / 1.93	68 / 2.68	105 / 4.13	CUSTOM
T	57.6 / 2.26	57.6 / 2.26	57.6 / 2.26	57.6 / 2.26
U	25 / 0.98	25 / 0.98	25 / 0.98	25 / 0.98
V	41 / 1.61	41 / 1.61	41 / 1.61	41 / 1.61
W	58 / 2.28	82 / 3.23	115 / 4.53	CUSTOM
X	350 / 13.78	400.4 / 15.76	480 / 18.87	CUSTOM
Y	15 / 0.59	22 / 0.87	29 / 1.14	CUSTOM



MATERIAL HANDLING

BTS elebia evo Automatic Crane Hooks



BTS® elebia® evo AUTOMATIC CRANE HOOKS

Hook Model	evo10c		
W.L.L Safety Factor 4:1	10,000 kg / 22,046 lb		
Top Link Option	--	B20	L10
Weight	31 kg 68.34 lb	38 kg 83.77 lb	---*

Hook Model	evo10		
W.L.L Safety Factor 4:1	10,000 kg / 22,046 lb		
Top Link Option	--	B20	L10
	36 kg 79.36 lb	43 kg 94.79 lb	---*

Hook Model	evo20		
W.L.L Safety Factor 4:1	20,000 kg / 44,092 lb		
Top Link Option	--	L20	
	43 kg 94.79 lb	---*	

Hook Model	evo25		
W.L.L Safety Factor 4:1	25,000 kg / 55,115 lb		
Top Link Option	--	L25	
	48 kg 105.82 lb	---*	

Size Chart mm / in

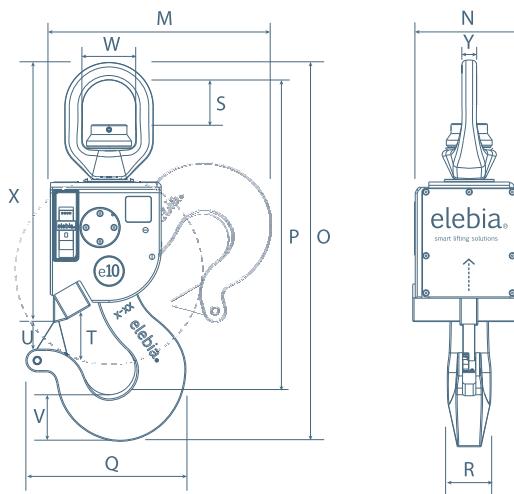
* weight varies

M	277 / 10.91	277 / 10.91	277 / 10.91
N	170 / 6.69	170 / 6.69	170 / 6.69
O	519.8 / 20.46	598.9 / 23.58	CUSTOM
P	451.3 / 17.76	519.5 / 20.45	CUSTOM
Q	194 / 7.64	194 / 7.64	194 / 7.64
R	43 / 1.70	43 / 1.70	43 / 1.70
S	68 / 2.68	105 / 4.13	CUSTOM
T	57.6 / 2.26	57.6 / 2.26	57.6 / 2.26
U	25 / 0.98	25 / 0.98	25 / 0.98
V	41 / 1.61	41 / 1.61	41 / 1.61
W	82 / 3.23	115 / 4.53	CUSTOM
X	400.4 / 15.76	480 / 18.87	CUSTOM
Y	22 / 0.87	29 / 1.14	CUSTOM

342 / 13.46	342 / 13.46	342 / 13.46
182.3 / 7.18	182.3 / 7.18	182.3 / 7.18
584 / 23.99	663 / 26.10	CUSTOM
485 / 19.10	553 / 21.77	CUSTOM
246 / 9.68	246 / 9.68	246 / 9.68
66 / 2.60	66 / 2.60	66 / 2.60
68 / 2.68	105 / 4.13	CUSTOM
83 / 3.27	83 / 3.27	83 / 3.27
42 / 1.65	42 / 1.65	42 / 1.65
72 / 2.83	72 / 2.83	72 / 2.83
82 / 3.23	115 / 4.53	CUSTOM
400.4 / 15.76	480 / 18.90	CUSTOM
22 / 0.87	29 / 1.14	CUSTOM

341 / 13.43	341 / 13.43
182.3 / 7.18	182.3 / 7.18
663 / 26.10	CUSTOM
553 / 21.77	CUSTOM
246 / 9.68	246 / 9.68
66 / 2.60	66 / 2.60
105 / 4.13	CUSTOM
83 / 3.27	83 / 3.27
42 / 1.65	42 / 1.65
72 / 2.83	72 / 2.83
115 / 4.53	CUSTOM
480 / 18.90	CUSTOM
29 / 1.14	CUSTOM

341 / 13.43	341 / 13.43
182.3 / 7.18	182.3 / 7.18
735 / 28.94	CUSTOM
618 / 24.33	CUSTOM
246 / 9.68	246 / 9.68
66 / 2.60	66 / 2.60
138.5 / 5.45	CUSTOM
83 / 3.27	83 / 3.27
42 / 1.65	42 / 1.65
72 / 2.83	72 / 2.83
133 / 5.24	CUSTOM
550 / 21.65	CUSTOM
34 / 1.34	CUSTOM

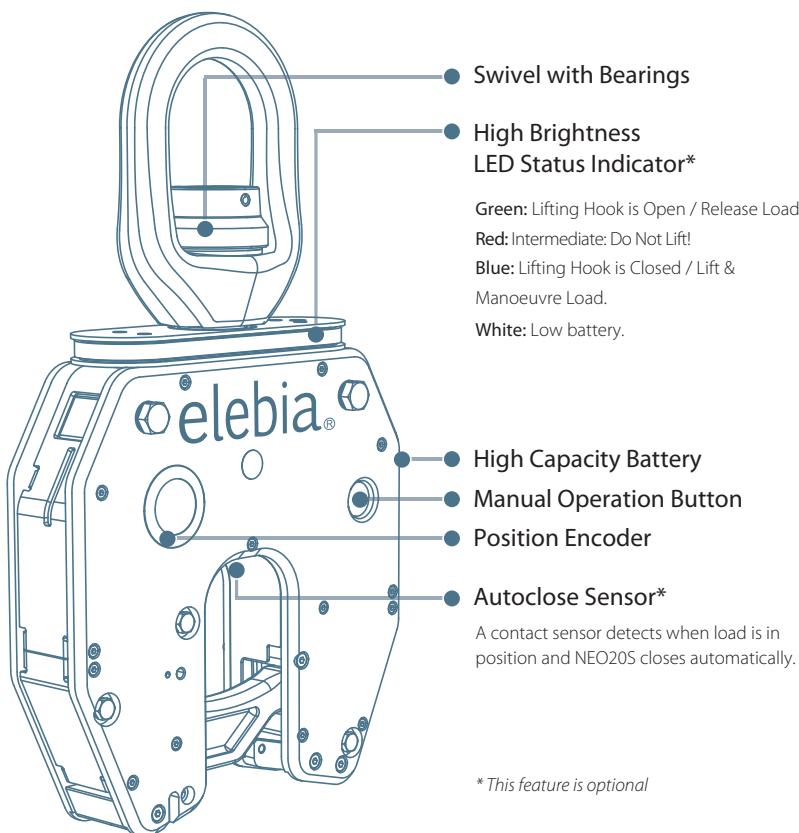


MATERIAL HANDLING

BTS elebia NEO20S Lifting Hook

We've made the NEO20S 15mm Slimmer, (by rearranging the position of its motor), and given the NEO20S an additional 60mm in height clearance. This is ideal when the lifting point has a very narrow opening and its contact point is lower than usual. With its 20,000 kgs (44,092 lbs.) lifting capacity, its ideal for oversize lifting points of up to (Ø) 100mm.

Main Features of the NEO20S Lifting Hook



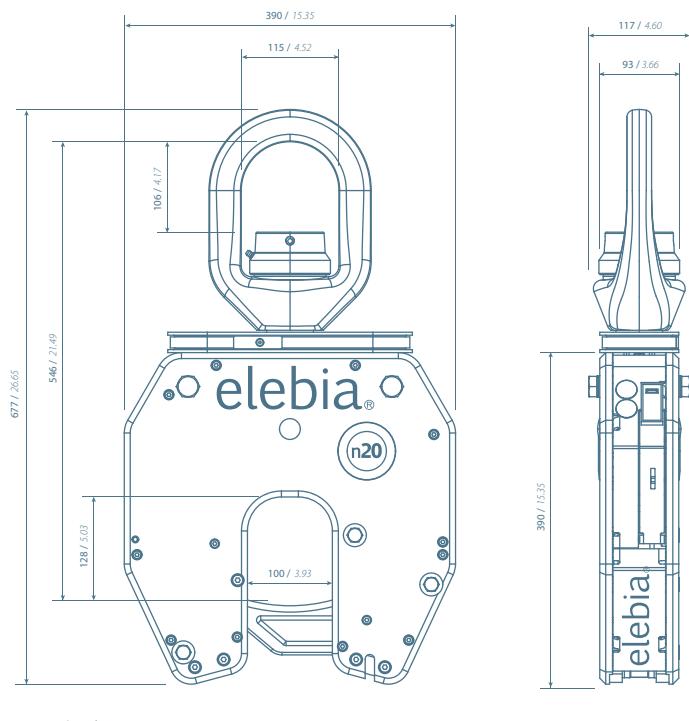
WORKING LOAD LIMIT 20,000 kgs. / 44,093 lbs.

Remote Control

We produce different remote controls tailored to our customer's needs.

All of them allow simple, flexible, precise and reliable control in a fail-safe way.

The NEO20S can be paired to either the eMAX, eMINI or eINST remote controls, or to all 3 if necessary.



MATERIAL HANDLING

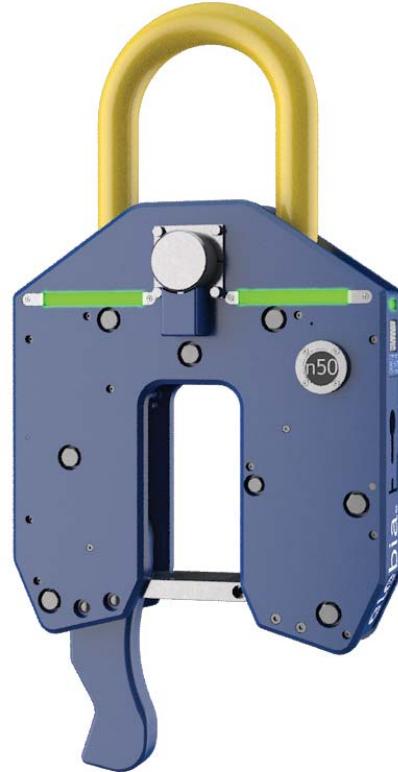
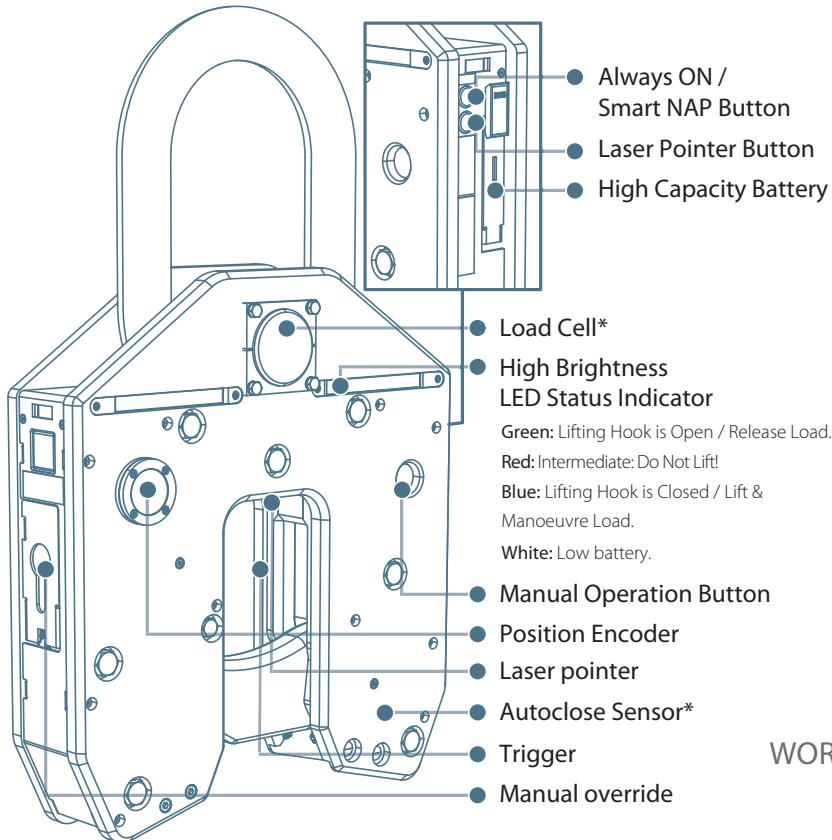


BTS elebia NEO50 Lifting Hook

BTS® elebia® NEO50 LIFTING HOOK

The NEO50 lifting hook has been designed as a solution for lifting and transporting any load, as well as for oversized lifting points of up to (Ø) 130mm. With its 50,000 kg. (110.231 lb.) lifting capacity and advanced safety and productivity features, the NEO50 lifting hook is the smartest lifting solution yet.

Main Features of the NEO50 Lifting Hook



WORKING LOAD LIMIT 50,000 kgs. / 110,231 lbs.

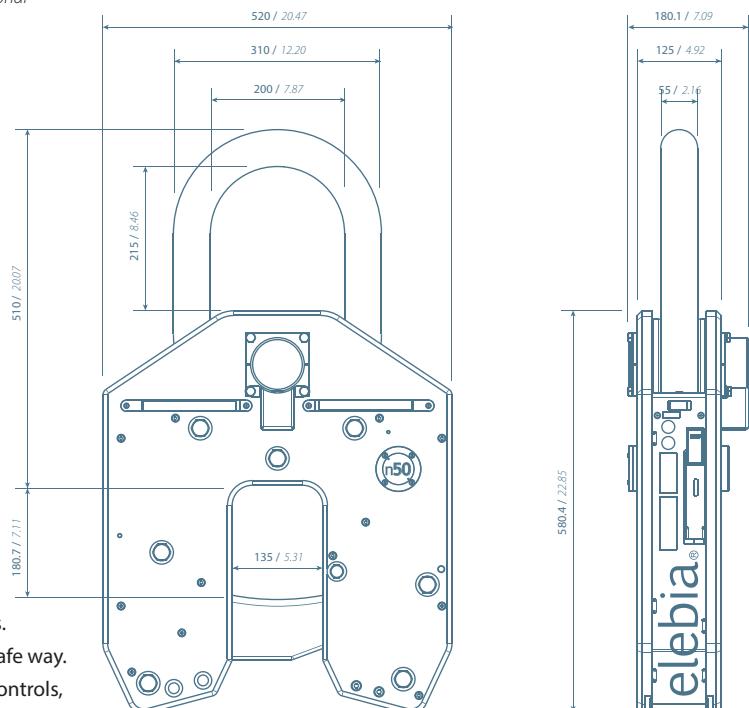
mm / inches



Remote Control

We produce different remote controls tailored to our customer's needs

All of them allow simple, flexible, precise and reliable control in a fail-safe way. The NEO50 can be paired to either the eMAX, eMINI or eINST remote controls, or to all 3 if necessary.



MATERIAL HANDLING

BTS elebia C5 Automatic Lifting Clamp

BTS® elebia® C5 AUTOMATIC LIFTING CLAMP

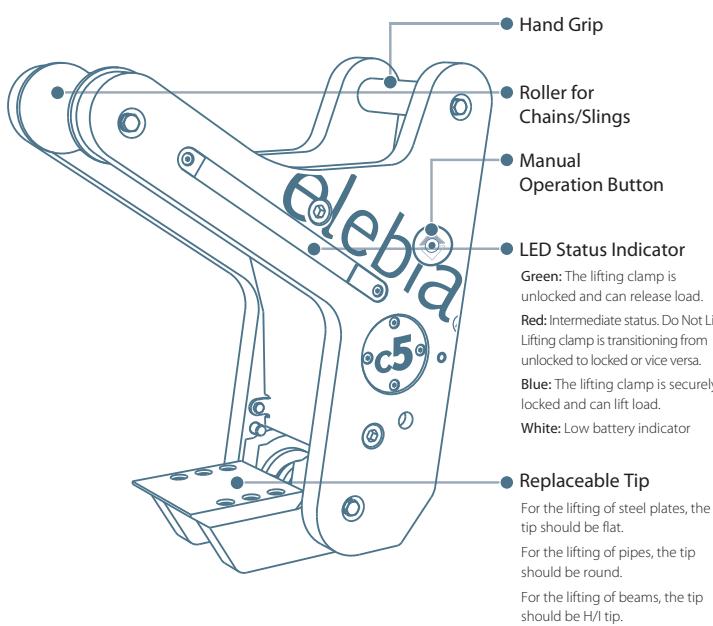
The C5 automatic lifting clamps are ideal for lifting and moving steel plates, beams or pipes thanks to the automatic remote release feature and its fail-safe design. Lifting and transport with the C5 automatic release lifting clamps in a safe & secure manner, minimising risks, enhancing safety and increasing productivity in your lifting operations.



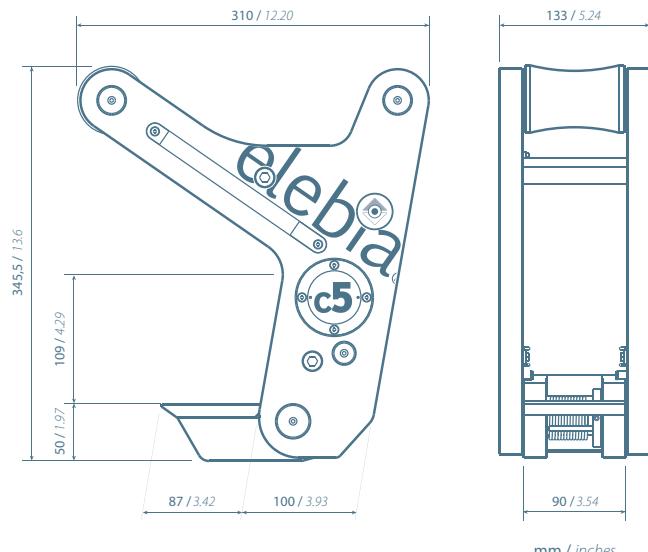
Open and close the C5 & C6 clamps or receive real-time information of weight, battery level, and other values of the lifting and manoeuvring operation. Just like the rest of our lifting products, the automatic lifting clamps can be paired to any of our remote controls.



Main Features of the C5 Automatic Lifting Clamp



WORKING LOAD LIMIT 5,000 kgs. / 11,023 lbs.



MATERIAL HANDLING

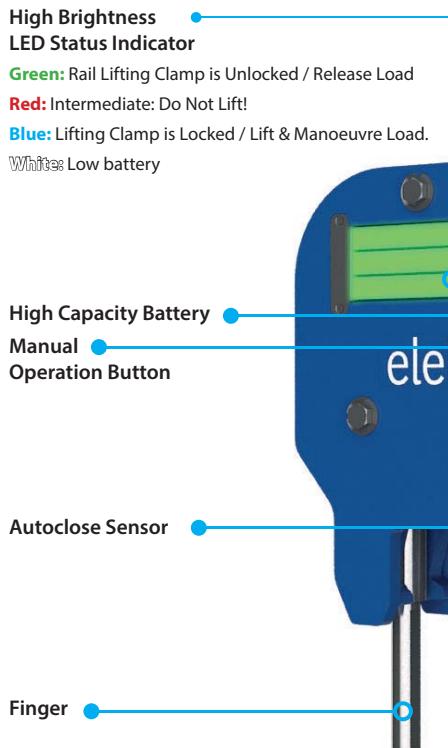
BTS elebia eTrack Rail Lifting Clamp



BTS® elebia® eTrack RAIL LIFTING CLAMP

The eTrack rail lifting clamp, with its 2,000 kg./4,409 lb. lifting capacity, has been designed to ease the lifting, handling and transporting of singular rail sections safely and securely.

Main Features of the eTrack Rail Lifting Clamp

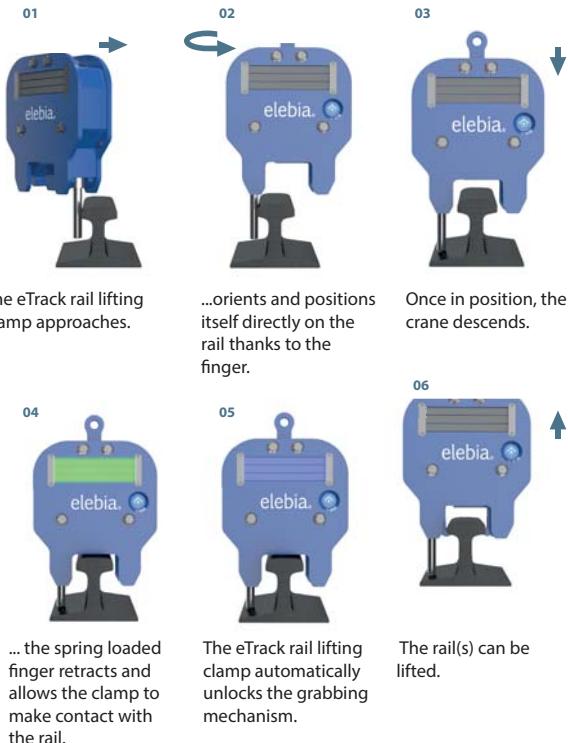


Lifting Procedure Release



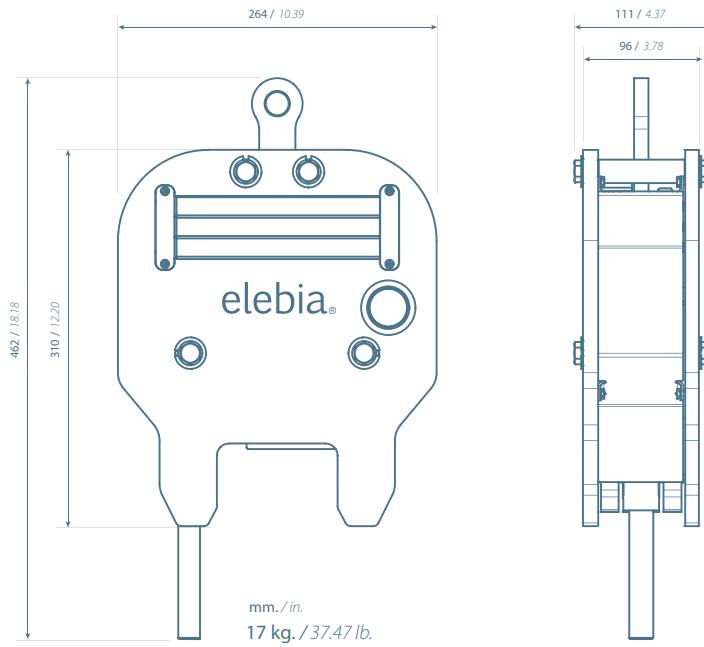
The release order can be given via remote control. (Green colour in LED status indicator)

Lifting Procedure Engage



The eTrack rail lifting clamp can be paired to the eMAX remote control, the eMINI remote control or the eINST installable remote control.

WORKING LOAD LIMIT 2,000 kg. / 4,409 lbs.



MATERIAL 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 standardised hoists that can be adjusted to your requirements in a modular way, as well as highly specialised solutions. Larger lifting and operating heights are just as viable as deviating voltages and special solutions of any kind.

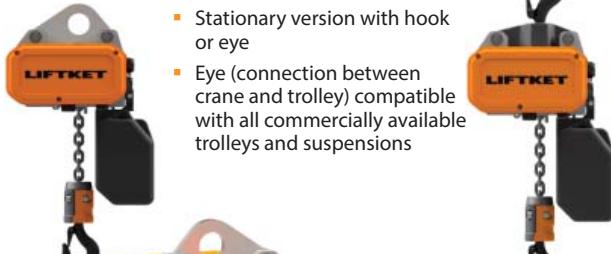
You tell us what you want to move – and we will develop and supply the perfect solution.



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

MATERIAL HANDLING

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, 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.)



Integrated LIFETIME display to show the following values:

Remaining useful life | operating hours | full load hours | number of brake cycles | inverter temperature

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			
125	M7 / 4m	8	9.6		030/62	5,2x15	0.55
125	M7 / 4m	8/2	9,6/2,4		031/53	5,2x15	0,32/0,08
125	M6 / 3m			2-36	050/52 V	5,2x15	3
250	M7 / 4m	4	4.8		030/65	5,2x15	0.37
250	M6 / 3m	8	9.6		030/64	5,2x15	0.55
250	M6 / 3m	8/2	9,6/2,4		031/51	5,2x15	0,32/0,08
250	M5 / 2m	12	14.4		030/50	5,2x15	0.55
250	M6 / 3m	12/3	14,4/3,6		051/52	5,2x15	0,55/0,12
250	M6 / 3m	18/4,5	21,6/5,4		051/55	5,2x15	0,9/0,2
250	M6 / 3m	24	28.8		050/52	5,2x15	1.1
250	M6 / 3m			2-36	050/52 V	5,2x15	3
365	M4 / 1Am	4	4.8		030/54	5,2x15	0.37
							0.44

MATERIAL HANDLING

LIFTKET
WORKS SINCE 1948

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 most remote 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.

▪ Contactor 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 new solution ensures exceptional protection against assembly errors.



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

MATERIAL HANDLING

LIFTKET
WORKS SINCE 1948

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.

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

MATERIAL HANDLING

LIFTKET
WORKS SINCE 1948

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

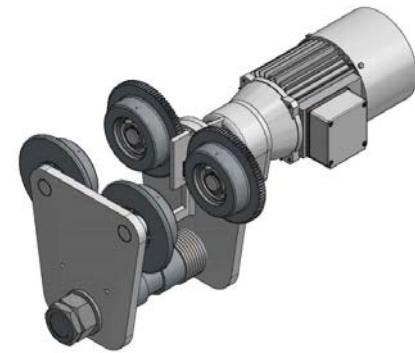
Single bolt push and electric trolleys

- 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 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	EHFW 1000	66–135	5+20	16
EEFW 1000	EHFW 1000	137–215	5+20	16
EEFW 1000	EHFW 1000	220–300	5+20	16
EEFW 2000	EHFW 2000	82–155	5+20	16
EEFW 2000	EHFW 2000	137–215	5+20	16
EEFW 2000	EHFW 2000	220–300	5+20	16
EEFW 3200	EHFW 3200	82–155	5+20	
EEFW 3200	EHFW 3200	137–215	5+20	
EEFW 3200	EHFW 3200	220–300	5+20	
EEFW 6300	EHFW 6300	82–155	4+16	
EEFW 6300	EHFW 6300	160–236	4+16	
EEFW 6300	EHFW 6300	230–310	4+16	



Single bolt push trolleys



Single bolt electric trolleys

ENTERTAINMENT



Stage rigging gear that always gives a great performance.

STAGE CHAIN HOISTS

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

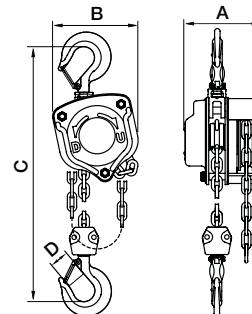
- Unique overload feature ensures protection for the operator from serious injury and possible damage to the structure if the load exceeds the hoists' capacity.
- The unique design allows the load to be lowered easily in the event of an overload occurring.
- All steel construction with an enclosed gear 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

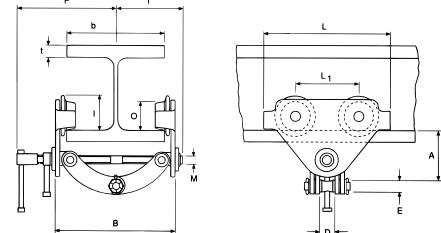
Model: 270020YTEB

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

Model: 270010YB & 270020YB

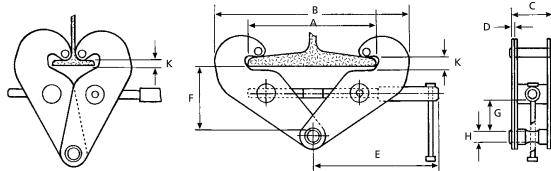
Rated Capacity 1 and 2 tonne

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										G		H		K			
				A			B			C			D			E			F		
				max	min	max	max	min	max	max	min	max	max	min	max	max	min	max	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

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

Model: XZ-0210B

Rated Capacity 250kg

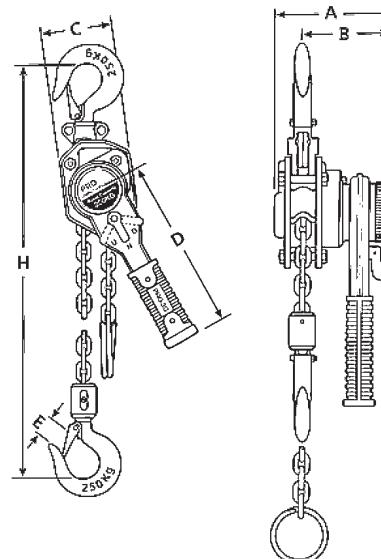
A strong, lightweight professional working tool that weighs just 2.13kg and can easily be carried on a work belt or in a backpack.

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
										N	kN	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

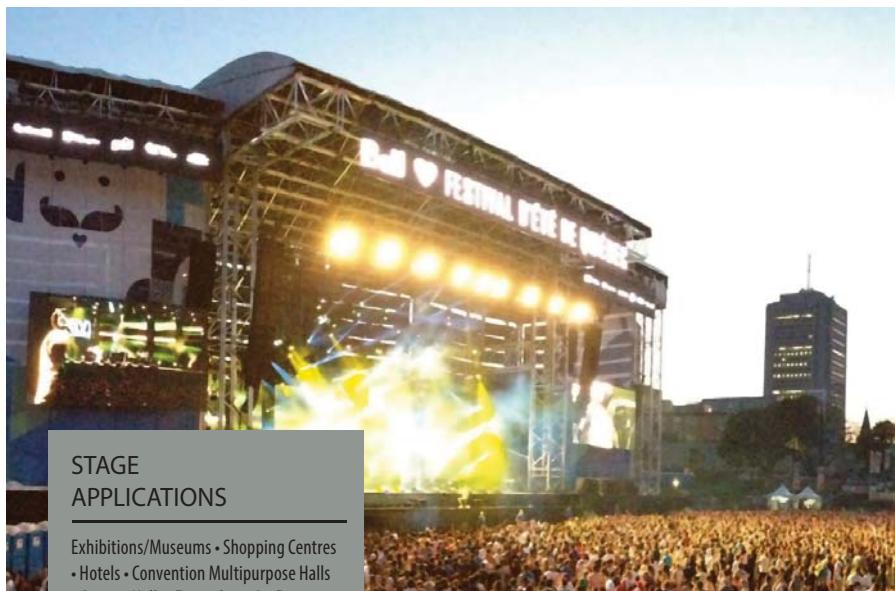
Electric chain hoists have become more and more important for the light, stage and entertainment industry. If used for simple build ups of trade fairs, the positioning of displays and screens or for the movement of weights during a show – the chain hoist from Wurzen can fulfill all these jobs.

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.



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					

MATERIAL HANDLING

BTS THERN® Winches & Cranes

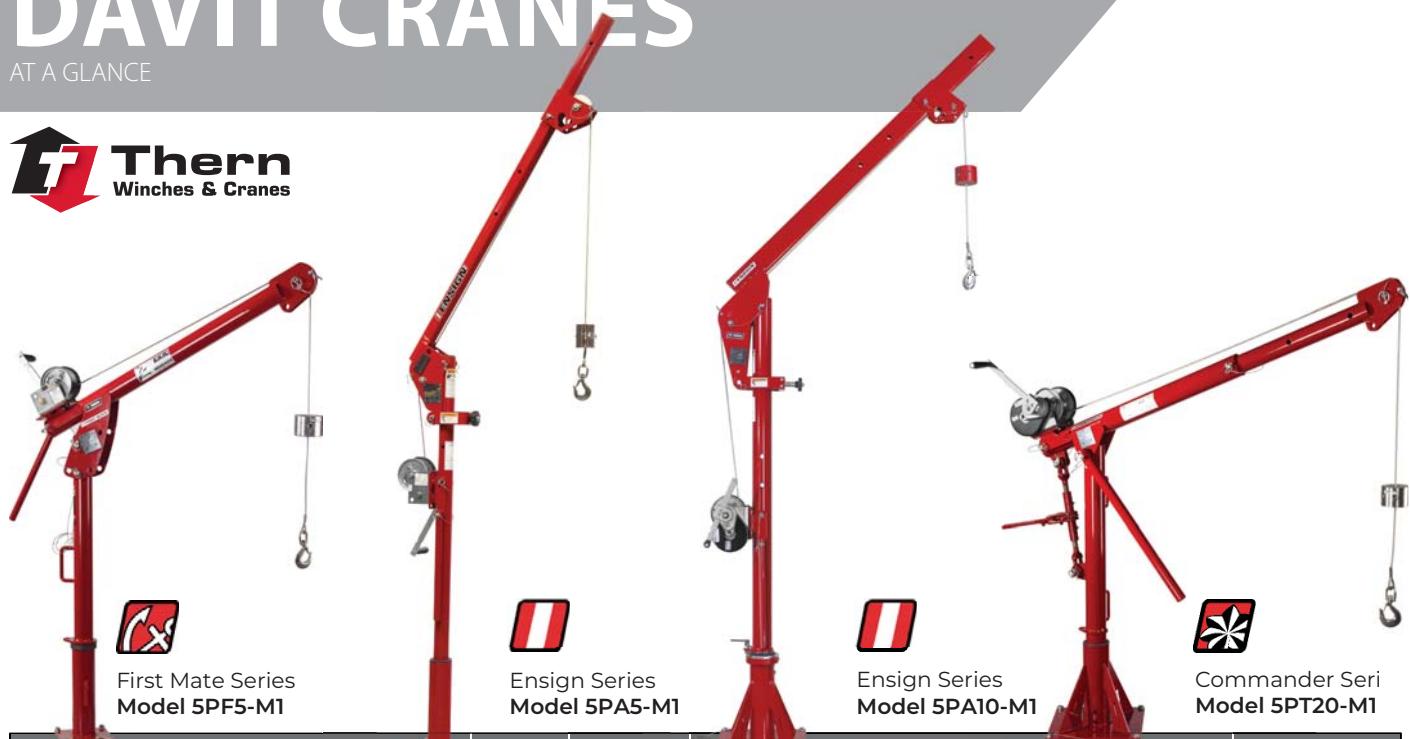
  **Thern**
Winches & Cranes

PORTABLE / STATIONARY

DAVIT CRANES

AT A GLANCE

 **Thern**
Winches & Cranes



MODEL	Max Capacity	PORTABLE		MAXIMUM HOOK				ADJUSTABLE BOOM	
		Yes	No	Reach	Height (above floor)	Lift Distance (below floor)	Long Lift (below floor)	Length	Angle
 First Mate 500 Series 5PF5	385 kg 850 lb	●		1066 mm 42 in	1524 mm 60 in	23.1 m 76 ft	71.9 m 236 ft		●
 Ensign 500 Series 5PA5	226 kg 500 lb	●		914 mm 36 in	2565 mm 101 in	18.2 m 60 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	85.6 m 281 ft	●	●
 Commander 500 Series 5PT5	300 kg 650 lb	●		1676 mm 66 in	2159 mm 85 in	23.4 m 77 ft	87.4 m 287 ft	●	●
 Commander 1000 Series 5PT10	544 kg 1200 lb	●		1676 mm 66 in	2159 mm 85 in	23.4 m 77 ft	87.4 m 287 ft	●	●
 Commander 2000 Series 5PT20	907 kg 2000 lb	●		2082 mm 82 in	2463 mm 97 in	18.2 m 60 ft	132.5 m 435 ft	●	●
 Captain 2000 Series 5FT20	907 kg 2000 lb		●	2540 mm 100 in	3175 mm 125 in	16.1 m 53 ft	84.7 m 278 ft	●	●
 Captain 2500 Series 5FT25	1270 kg 2800 lb		●	3098 mm 122 in	3810 mm 150 in	29.8 m 98 ft	84.7 m 278 ft	●	●
 Captain 4000 Series 5FT40	2500 kg 5500 lb		●	3098 mm 122 in	3886 mm 153 in	14.9 mm 49 ft	53 mm 174 ft	●	●
 Admiral 3000 Series 5PT30	1360 kg 3000 lb	●		2844 mm 112 in	3886 mm 153 in	14.9 m 49 ft	68.2 m 224 ft	●	Optional

*Contact BTS for long lift ratings requirements. Max capacity may vary depending on wire rope diameters.

MATERIAL HANDLING

BTS THERN® Winches & Cranes

ELEVATE YOUR EXPECTATIONS

Choose a crane that's built to last lift after lift.

We also offer a variety of finish, base and winch options to meet the needs of your specific application. No one knows cranes like Thern. We build our stationary davit cranes and portable davit cranes to exacting specifications to ensure long-lasting performance and reliability. Our standard cranes are available in multiple styles and sizes to raise and lower **loads up to 2,500 kg / 5,500 lbs.**



WINCHES			FINISHES						WHY THIS CRANE
MANUAL		POWER	Powder Coat (Red)	Enamel Paint (Red)	Galv	304 SS	316 SS	Epoxy Paint (Gray)	
Spur	SS Spur	Worm	(AC, DC, Pneumatic, Hydraulic)						
●	●	●	●	●	●	●	●	●	User-friendly, light-weight, economical and extremely portable with quick-release clevis pins and lifting power of 385kg / 850lb. An optional base extension adds 0.38m / 15" of hook height to enhance utility.
●	●	●	●	●	●	●	●	●	A 2.6m/8'5" hook height makes this portable, user-friendly solution perfect for lifting light loads over tall obstacles with minimum boom adjustment. Quick-release clevis pin design enhances transit to other locations or storage.
●	●	●	●	●	●	●	●	●	A portable, user-friendly solution for lifting medium loads over the tallest obstacles—its 3m / 10' hook height minimises boom adjustment. Standard roller bearings and rotational lock enhance control and load placement.
●	●		●	●	●	●	●	●	A portable solution for lighter loads, packed with features like an extendable multi-position boom, quick-release clevis pins, as well as standard quick-mount winch bracket for multiple winch options.
●	●	●	●	●	●	●	●	●	A "go to" portable solution for medium lifts that is easy to disassemble and carry. A quick-mount bracket for multiple winches (standard) enhances utility. Add optional bearing with 12-position lock for increased precision.
●	●	●	●	●	●	●	●	●	A portable solution for heavy loads in multiple locations. A load-disconnect feature allows disassembly and transport to another base or storage. Extended reach and hook height (2.4m / 8') facilitate clearance over high obstacles.
●	●	●	●	●	●	●	●	●	A stationary crane designed for the smooth rotation of heavy loads where extended reach and height are also required. Twelve-position integral mast locking mechanism facilitates loading and stabilizes unloading.
●		●	●	●	●			●	The perfect answer for heavy stationary lifting power, boasts smooth rotation with tapered rolling bearings for precision load placement and integral mast locking mechanism (12 positions) to stabilize unloading.
●		●	●	●	●	●		●	The ideal stationary solution for the heaviest loads requiring extensive reach and hook height. Integral slewing drive withstands large axial, radial and moment loads—ideal for marine vessels and ports.
●		●	●	●	●	●	●	●	Extreme lifting power, extensive reach and maximum hook height move the heaviest loads with precision. A modular design allows disassembly for use in multiple locations.

*Contact factory for long lift ratings requirements. Max capacity may vary depending on wire rope diameters.

MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

FIRST MATE® 5PF5

PORTABLE DAVIT CRANE

ECONOMICAL, LIGHTWEIGHT & Easy-to-Use Lifting Power

The 5PF5 First Mate 500 portable davit crane up to 385 kg (850 pounds) isn't complicated—but it gets the job done with features and quality you expect from Thern.

A fixed boom length, with three operating angles, makes it lightweight, easy to carry, and easy to use.

It is perfect for simple jobs where adjustable length is not required. An ergonomic design makes it ideal for water/wastewater applications.



Enhanced Portability

- Disassemble and reassemble easily, using quick-release hardware and pins for quick transport or storage—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the tab of the pedestal base or into an optional wire rope keeper or cable spool.

Flexible Configurations

- A variety of base and mounting options, including pedestal, flush, and wall-mount, as well as wheel-base, help meet a variety of lifting needs.
- A quick-mount winch bracket is standard (no tools required) and accommodates several Thern winches.
- Optional base extension provides additional height without affecting the crane's load rating. Ideal for wall- or flush-mount situations to create additional crane height for obstacle clearance or other needs when 381 mm (15 inches) of additional height is required.

360° Rotation & Flexible Operation

- Nylatron® bushing at base enhances smooth, 360-degree rotation under load for precise load placement. Optional rotation lock maintains load position for easier unloading.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of light or heavy loads and travel distances. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements for long service life.
- Galvanized, epoxy, and 304 or 316 stainless-steel finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PF5-M1	Powder-coat crane with M4022PB-K spur gear hand winch.	385 kg (850 lbs)
5PF5G-M1	Galvanized crane with M4022PB-K spur gear hand winch.	385 kg (850 lbs)
5PF5-M2	Powder-coat crane with 4WM2-K worm gear hand winch.	385 kg (850 lbs)
5PF5G-M2	Galvanized crane with 4WM2-K worm gear hand winch.	385 kg (850 lbs)
5PF5S-M3	Stainless-steel crane with M4042PBSS-K spur gear hand winch.	385 kg (850 lbs)
5PF5-E2	Powder-coat crane with 4WP2-K electric winch.	385 kg (850 lbs)



NOTICE: These products are not for lifting people or things over people.

MATERIAL HANDLING

BTS THERN® Winches & Cranes

ENSIGN® 5PA5

PORTABLE DAVIT CRANE

PORTABLE LIFTING POWER

for Tall Obstacles

The 5PA5 Ensign 500 portable davit crane up to 226 kg (500 pounds) is designed to lift and smoothly rotate taller loads, 360 degrees, with minimal boom adjustment.

A longer mast and boom provide the extra hook height (up to 101 inches with pedestal base) required to clear safety gates, rails, and other obstacles.

An ergonomic design, winch options, quick-disconnect feature, and boom adjustment knob make it extremely user-friendly.

Add an optional rotation lock to further enhance unloading.

Easy disassembly and reassembly with quick-release hardware and pins maximize portability for storage or use with other bases.

Ideal for water/wastewater applications.



Enhanced Portability

- Disassembles and reassembles easily, using quick-release hardware and pins for quick transport to storage or bases at other work sites—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the tab of the pedestal base or into an optional wire rope keeper or cable spool.

Flexible Configurations

- A variety of base mounting options, including pedestal, flush, and wall-mount, help meet numerous lifting needs.
- A quick-mount winch bracket is standard (no tools required) and accommodates several Thern winches. Fits any three convenient/ergonomic positions on the mast via quick-connect pins.

360° Rotation & Flexible Operation

- Nylatron® bushing at base enhances smooth, 360-degree rotation under load for precise load placement. Optional rotation lock facilitates unloading ease.
- Rotation handle design does not interfere with boom angle adjustment for easier operation.
- Adjustable boom angles and four sheave assembly positions along boom are easily changed (without tools) to accommodate a variety of applications. Boom adjustment knob allows for easy, one-hand adjustment when not under load.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of speed and power requirements. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements for long service life.
- Galvanized, epoxy, and 304 or 316 stainless-steel finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PA5-M1	Powder-coat crane with M4022PB-K spur gear hand winch.	226 kg (500 lbs)
5PA5G-M1	Galvanized crane with M4022PB-K spur gear hand winch.	226 kg (500 lbs)
5PA5-M2	Powder-coat crane with 4WM2V-K worm gear hand winch.	226 kg (500 lbs)
5PA5G-M2	Galvanized crane with 4WM2V-K worm gear hand winch.	226 kg (500 lbs)
5PA5S-M3	Stainless-steel crane with M4042PBSS-K spur gear hand winch.	226 kg (500 lbs)
5PA5-E2	Powder-coat crane 4WP2V-K electric winch.	226 kg (500 lbs)
5PA5X-E2X	Epoxy-gray crane with epoxy-gray 4WP2VEGRA-K electric winch.	226 kg (500 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

ENSIGN® 5PA10

PORTABLE DAVIT CRANE

PORTABLE LIFTING POWER

for Tall Obstacles

The 5PA10 Ensign 1000 portable davit crane up to 544 kg (1,200 pounds) is designed to lift and smoothly rotate heavier, taller loads, 360 degrees, with minimal boom adjustment.

A longer mast and boom provide the extra hook height up to 3.048 m (120 inches with pedestal base) required to clear safety gates, rails, and other obstacles.

An ergonomic design, winch options, quick-disconnect feature, and boom adjustment knob make it extremely user-friendly. Included on all standard models, roller-ball bearings and rotation lock enhances unloading.

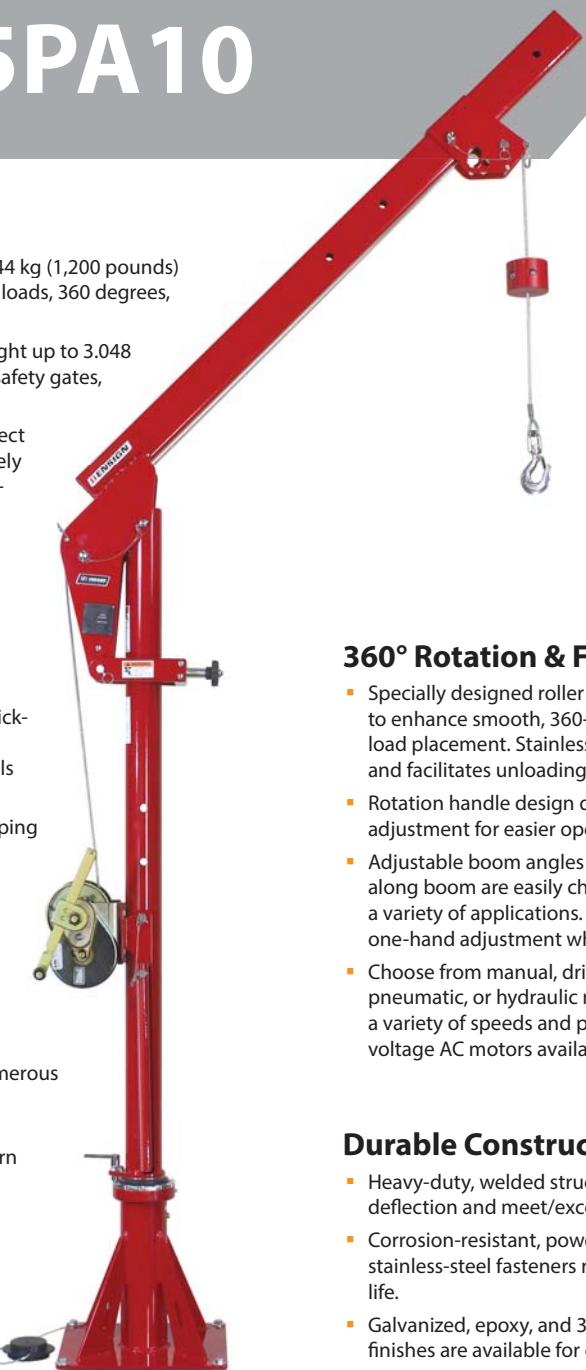
Easy disassembly and reassembly with quick-release hardware and pins maximize portability for storage or use with other bases. Ideal for water/wastewater applications.

Enhanced Portability

- Disassembles and reassembles easily, using quick-release hardware and pins for quick transport to storage or bases at other work sites—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the tab of the pedestal base or into an optional wire rope keeper or cable spool.

Flexible Configurations

- A variety of base mounting options, including pedestal, flush, and wall-mount, help meet numerous lifting needs.
- A quick-mount winch bracket is standard (no tools required) and accommodates several Thern winches. Fits any three convenient/ergonomic positions on the mast via quick-connect pins.



360° Rotation & Flexible Operation

- Specially designed roller bearing at top of base comes standard to enhance smooth, 360-degree rotation under load for precise load placement. Stainless-steel rotation lock comes standard and facilitates unloading ease.
- Rotation handle design does not interfere with boom angle adjustment for easier operation.
- Adjustable boom angles and four sheave assembly positions along boom are easily changed (without tools) to accommodate a variety of applications. Boom adjustment knob allows for easy, one-hand adjustment when not under load.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of speeds and power needs. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements and for long service life.
- Galvanized, epoxy, and 304 or 316 stainless-steel and epoxy finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PA10-M1	Powder-coat crane with M4312PB-K spur gear hand winch.	544 kg (1,200 lbs)
5PA10G-M1	Galvanized crane with M4312PB-K spur gear hand winch.	544 kg (1,200 lbs)
5PA10-M2	Powder-coat crane with 4WM2V-K worm gear hand winch.	544 kg (1,200 lbs)
5PA10G-M2	Galvanized crane with 4WM2V-K worm gear hand winch.	544 kg (1,200 lbs)
5PA10S-M3	Stainless-steel crane with M4312PBSS-K spur gear hand winch.	544 kg (1,200 lbs)
5PA10X-E2X	Epoxy-gray crane with epoxy-gray 4WP2VEGRA-K electric winch.	544 kg (1,200 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

COMMANDER® 5PT5

PORTABLE DAVIT CRANE

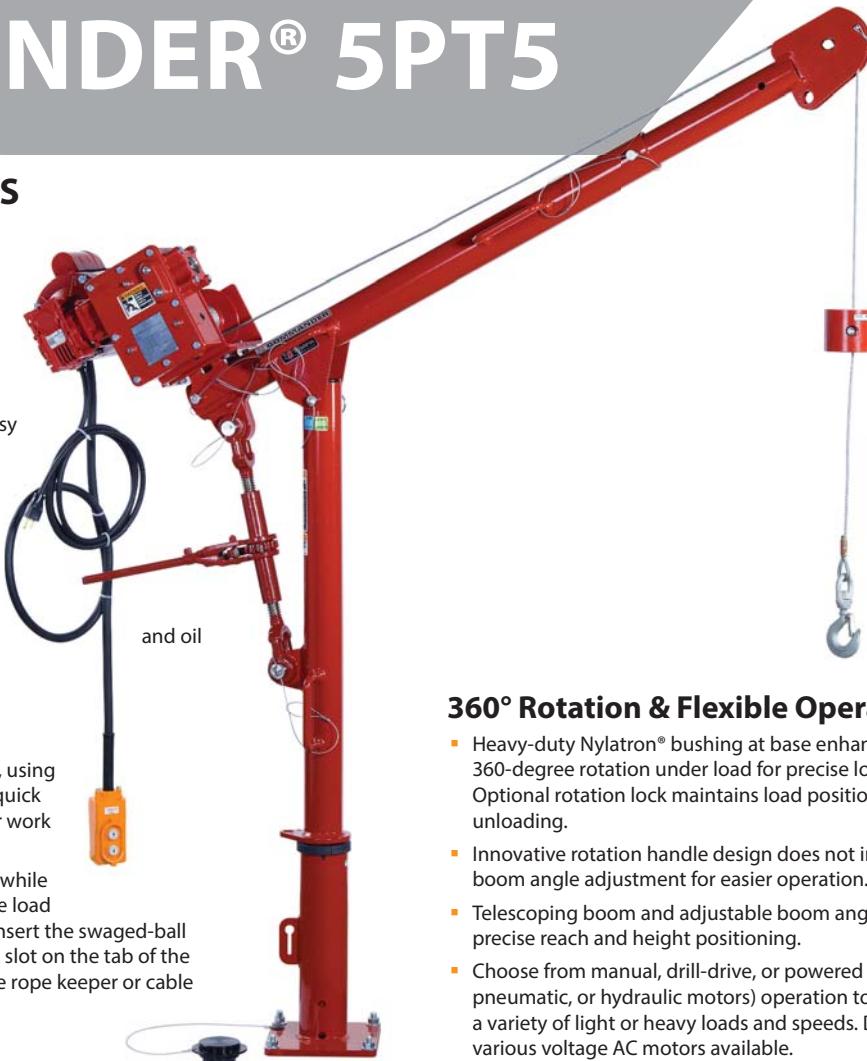
HEAVY-DUTY FEATURES

in a Light-Duty Package

The 5PT5 Commander 500 portable davit crane up to 300 kg (650 pounds) is packed with features, giving it the same versatility and flexibility of its larger cousins.

It is designed to lift, lower, and rotate loads 360 degrees, easily and smoothly. Easy disassembly and reassembly with quick-release hardware and pins maximize portability.

A variety of base options, manual or power operation, and telescoping boom with adjustable boom angles make it perfect for water/wastewater, manufacturing, marine, construction, and gas applications.



Enhanced Portability

- Disassembles and reassembles easily, using quick-release hardware and pins for quick transport to storage or bases at other work sites—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the tab of the pedestal base or into an optional wire rope keeper or cable spool.

Flexible Configurations

- A variety of base and mounting options, including pedestal, flush and wall-mount, as well as wheel-base, help meet unique lifting needs.
- A quick-mount winch bracket (no tools required) accommodates several Thern winches. Fits any three convenient/ergonomic positions on the mast via quick-connect pins.
- Base extension provides additional height without affecting the crane's load rating. Ideal in wall- or flush-mount situations to maintain crane height for obstacle clearance or other needs when 15 inches (381 mm) of additional height is required.

360° Rotation & Flexible Operation

- Heavy-duty Nylatron® bushing at base enhances smooth, 360-degree rotation under load for precise load placement. Optional rotation lock maintains load position for easier unloading.
- Innovative rotation handle design does not interfere with boom angle adjustment for easier operation.
- Telescoping boom and adjustable boom angles allow for precise reach and height positioning.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of light or heavy loads and speeds. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements for long service life.
- Galvanized, epoxy, and 304 or 316 stainless steel finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PT5G-M1	Galvanized crane with M4022PB-K spur gear hand winch.	300 kg (650 lbs)
5PT5-M2	Powder-coat crane with 4WM2-K worm gear hand winch.	300 kg (650 lbs)
5PT5G-M2	Galvanized crane with 4WM2-K worm gear hand winch.	300 kg (650 lbs)
5PT5S-M3	Stainless-steel crane with M4042PBSS-K spur gear hand winch.	300 kg (650 lbs)
5PT5-E2	Powder-coat crane with 4WP2-K electric winch.	300 kg (650 lbs)
5PT5S-E2X	Stainless-steel crane with gray-epoxy 4WP2EGRA-K electric winch.	300 kg (650 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

COMMANDER® 5PT10

PORTABLE DAVIT CRANE

A WORKHORSE

DAVIT CRANE

Packed with Thoroughbred Features

The 5PT10 Commander 1000 portable davit crane up to 544 kg (1,200 pounds) is packed with features making it the "go to" davit crane for many applications.

It is designed to lift, lower, and rotate loads 360 degrees, easily and smoothly. Add an optional rotational bearing and 12-position lock system to facilitate moving heavier loads. Easy disassembly and reassembly with quick-release hardware and pins maximize portability.

A variety of base options, manual or power operation, and telescoping boom with adjustable boom angles makes it perfect for water/wastewater, manufacturing, marine, construction, and oil and gas applications.

Enhanced Portability

- Disassembles and reassembles easily, using quick-release hardware and pins for quick transport to storage or bases at other work sites—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the gusset of the pedestal base or into an optional wire rope keeper or cable spool.

Flexible Configurations

- A variety of base mounting options, including pedestal, flush, and wall-mount, as well as wheel-base, help meet unique lifting needs.
- A quick-mount winch bracket is standard (no tools required) and accommodates several Thern winches.
- Optional base extension provides additional height without affecting the crane's load rating. Ideal for wall- or flush-mount installations to increase crane height for obstacle clearance or other needs. Creates 381 mm (15 inches) of additional height.



360° Rotation & Flexible Operation

- Heavy-duty Nylatron® bushing at base enhances smooth, 360-degree rotation under load for precise load placement. Optional rotation bearing and lock ease movement and stabilize unloading.
- Innovative rotation handle design does not interfere with boom angle adjustment for easier operation.
- Telescoping boom and adjustable boom angles allow for precise reach and height positioning.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of light or heavy loads and speeds. DC motors and various voltage AC motors available.



Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements for long service life.
- Galvanized, epoxy, and 304 or 316 stainless-steel finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PT10-M1	Powder-coat crane with M4312PB-K spur gear hand winch.	544 kg (1,200)
5PT10G-M1	Galvanized crane with M4312PB-K spur gear hand winch.	544 kg (1,200)
5PT10-M2	Powder-coat crane with 4WM2-K worm gear hand winch.	544 kg (1,200)
5PT10G-M2	Galvanized crane with 4WM2-K worm gear hand winch.	544 kg (1,200)
5PT10S-M3	Stainless-steel crane with M4312PBSS-K spur gear hand winch.	544 kg (1,200)
5PT10-E2	Powder-coat crane with 4WP2-K electric winch.	544 kg (1,200)
5PT10S-E2X	Stainless-steel crane with gray-epoxy 4WP2EGRA-K electric winch.	544 kg (1,200)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

COMMANDER® 5PT20

PORTABLE DAVIT CRANE

HEAVY LIFTING POWER

with Enhanced Flexibility and Portability

The 5PT20 Commander 2000 portable davit crane up to 907 kg (2,000 pounds) is one of Thern's largest capacity, portable davit cranes.

A maximum hook height (with pedestal base) of 2.46 m (97 inches) allows it to hoist large loads and reach over walls, rails, and obstacles. It is designed to lift, lower, and rotate loads 360 degrees, easily and smoothly. Add an optional rotation bearing and 12-position lock system to ease movement and stabilize unloading. Easy disassembly and reassembly with quick-release hardware and pins maximize portability.

A variety of base options, manual or power operation, and telescoping boom with adjustable boom angles makes it perfect for water/wastewater, manufacturing, marine, construction, and oil and gas applications.

Enhanced Portability

- Disassembles and reassembles easily, using quick-release hardware and pins for quick transport to storage or bases at other work sites—no tools required.
- Move your crane to another location while keeping the wire rope attached to the load using the quick-disconnect feature. Insert the swaged-ball end of the wire rope into the keyhole slot on the gusset of the pedestal base or into an optional wire rope keeper or cable spool.



Flexible Configurations

- A variety of base mounting options, including pedestal, flush, and wall-mount, as well as wheel-base, help meet unique lifting needs.
- A quick-mount winch bracket is standard (no tools required) and accommodates several Thern winches.
- Optional base extension provides additional height without affecting the crane's load rating. Ideal for wall- or flush-mount installations to increase crane height for obstacle clearance or other needs. Creates 381 mm (15 inches) of additional height.

360° Rotation & Flexible Operation

- Heavy-duty Nylatron® bushing at base enhances smooth, 360-degree rotation under load for precise load placement. Optional rotation bearing and lock ease movement and stabilize unloading.
- Innovative rotation handle design does not interfere with boom angle adjustment for easier operation.
- Telescoping boom and adjustable boom angles allow for precise reach and height positioning.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of light or heavy loads and speeds. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet/exceed ASTM standards.
- Corrosion-resistant, powder-coated frame, mast cap, and stainless-steel fasteners resist the elements for long service life.
- Galvanized, epoxy, and 304 or 316 stainless-steel finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PT20-M1	Powder-coat crane with M4312PB-K spur gear hand winch.	907 kg (2,000 lbs)
5PT20G-M1	Galvanized crane with M4312PB-K spur gear hand winch.	907 kg (2,000 lbs)
5PT20-M2	Powder-coat crane with 4WM2-K worm gear hand winch.	907 kg (2,000 lbs)
5PT20G-M2	Galvanized crane with 4WM2-K worm gear hand winch.	907 kg (2,000 lbs)
5PT20S-M3	Stainless-steel crane with M4312PBSS-K spur gear hand winch.	907 kg (2,000 lbs)
5PT20-E2	Powder-coat crane with 4WP2-K electric winch.	907 kg (2,000 lbs)
5PT20S-E2X	Stainless-steel crane with gray-epoxy 4WP2EGRA-K electric winch	907 kg (2,000 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes



CAPTAIN® 5FT20

STATIONARY DAVIT CRANE

STATIONARY LIFTING POWER

with Extended Reach

The 5FT20 Captain 2000 stationary davit crane up to 907 kg (2,000 pounds) is designed for permanent installation. It features a telescoping boom to reach, lift, and rotate very heavy loads 360 degrees smoothly and easily. A screw jack comes standard to facilitate boom angle adjustments. For long or heavy lifts, add a Thern power winch for greater speed.

Red-enamel finish and stainless-steel hardware resist wear in harsh conditions or environments. It's perfect for water wastewater, manufacturing, marine, construction, and oil and gas applications.



360° Rotation & Flexible Operation

- Tapered roller bearing enhances smooth, 360-degree rotation under load for precise load placement. Integral 12-position (every 30 degrees) boom rotation lock facilitates heavy lifting and stabilizes unloading.
- Rotation handle design does not interfere with boom angle adjustment for easier operation.
- Telescoping boom length and adjustable boom angles accommodate a variety of height and reach requirements.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of speed and power requirements. DC motors and various voltage AC motors available.

Durable Construction & Finish

- Boom, mast, and base are fabricated from heavy-gauge steel that limits deflection and meets/exceeds ASTM standards.
- Red-enamel finish and stainless-steel fasteners resist the elements for long service life.
- Epoxy finishes are available for corrosive environments.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5FT20-M1	Red-enamel crane and ratchet jack with M4312PB-K spur gear hand winch.	907 kg (2,000 lbs)
5FT20-M2	Red-enamel crane and ratchet jack with 4WM2V-K worm gear hand winch.	907 kg (2,000 lbs)
5FT20X-M2X	Gray-epoxy crane and ratchet jack with gray-epoxy 4WM2VEGRA-K worm hand winch.	907 kg (2,000 lbs)
5FT20-E2	Red-enamel crane and ratchet jack with 4WP2-K electric winch.	907 kg (2,000 lbs)
5FT20X-E2X	Gray-epoxy crane and ratchet jack with gray-epoxy 4WP2EGRA-K electric winch.	907 kg (2,000 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

bts **THERN**
Winches & Cranes

CAPTAIN® 5FT25

STATIONARY DAVIT CRANE

MAXIMUM, STATIONARY LIFTING POWER with Extended Reach

The 5FT25 Captain 2500 stationary davit crane up to 1270 kg (2,800 pounds) is designed for some of your heaviest loads. Permanently installed, it features a telescoping boom to reach, lift, and rotate loads a full 360 degrees—smoothly and easily.

A screw jack comes standard to facilitate boom angle adjustments. For long or heavy lifts, add a Tern power winch for greater speed. Red-enamel finish and stainless-steel hardware resist wear in harsh conditions or environments.

It is perfect for water/wastewater, manufacturing, marine, construction, and oil and gas applications.



Durable Construction & Finish

- Boom, mast, and base are fabricated from heavy-gauge steel that limits deflection and meets/exceeds ASTM standards.
- Red-enamel finish and stainless-steel fasteners resist the elements for long service life.
- Epoxy finishes are available for corrosive environments.

360° Rotation & Flexible Operation

- Tapered roller bearing enhances smooth, 360-degree rotation under load for precise load placement. Integral 12-position (every 30 degrees) boom rotation lock facilitates heavy lifting and stabilizes unloading.
- Rotation handle design does not interfere with boom angle adjustment for easier operation.
- Telescoping boom length and adjustable boom angles accommodate a variety of height and reach requirements.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of speed and power requirements. DC motors and various voltage AC motors available.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5FT25-M1	Red-enamel crane and ratchet jack with M452B-K spur gear hand winch.	1,270 kg (2,800 lbs)
5FT25X-M1X	Gray-epoxy crane and ratchet jack with gray-epoxy M452BEGRA-K spur gear hand winch.	1,270 kg (2,800 lbs)
5FT25-M2	Red-enamel crane and ratchet jack with 2W40V-BM-K worm gear hand winch.	1,270 kg (2,800 lbs)
5FT25X-M2X	Gray-epoxy crane and ratchet jack with gray-epoxy 2W40V-BMX-K worm gear hand winch.	1,270 kg (2,800 lbs)
5FT25-E2	Red-enamel crane and ratchet jack with 3WG4B-K electric winch.	1,270 kg (2,800 lbs)
5FT25X-E2X	Gray-epoxy crane and ratchet jack with gray-epoxy 3WG4B-KX electric winch.	1,270 kg (2,800 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

CAPTAIN® 5FT40

STATIONARY DAVIT CRANE

MASSIVE LIFTING POWER

with Extensive Reach

The 5FT40 Captain Series stationary davit crane is designed for heavy loads up to 2,500 kg (5,500 pounds) and extended reach 3.048m (ten feet). It also features a maximum hook height of 3.66m (12 feet).

The integral slewing drive withstands large axial, radial, and moment loads while allowing 360 degrees of smooth and easy rotation.

A screw jack comes standard for boom angle adjustments. To ease operation and speed productivity, specify an optional power winch or the optional hydraulic boom angle adjustment or both!

Stainless-steel hardware and corrosion-resistant finishes, including an epoxy-based safety-yellow, resist wear in harsh environments.

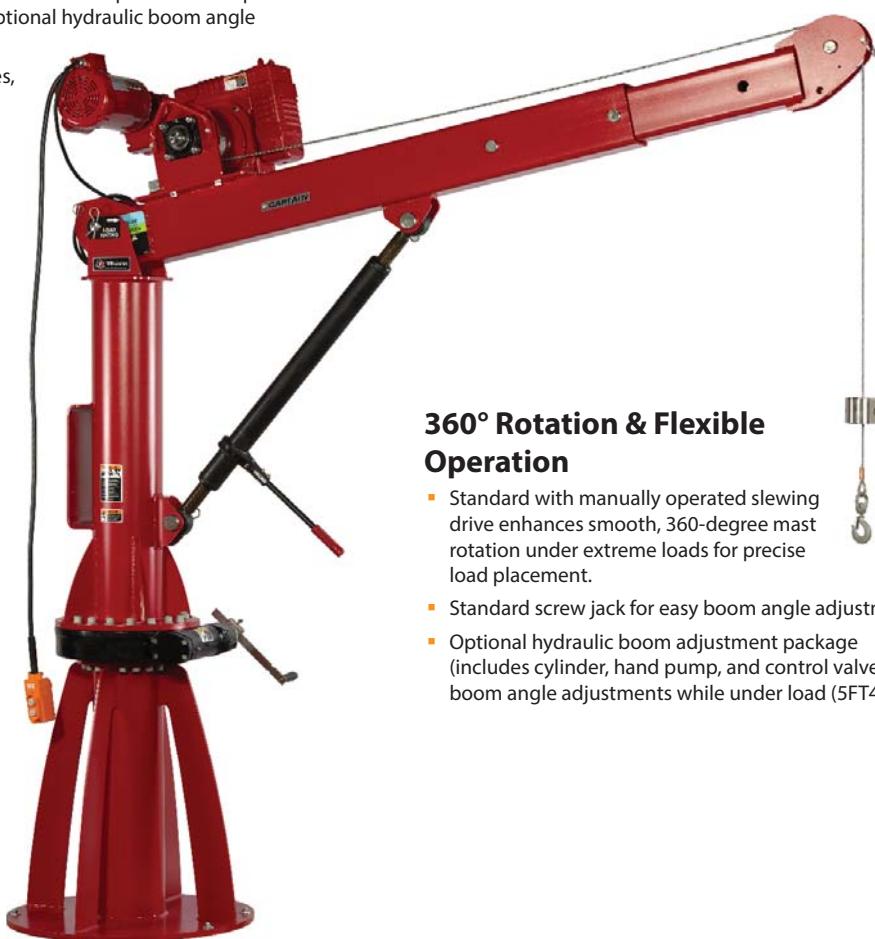
The 5FT40 is perfect for wind energy, marine, construction, water/wastewater, and oil and gas applications.

Crane Features & Configurations

- Telescoping boom and adjustable boom angles accommodate a variety of applications.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of light or heavy loads and speeds. DC motors and various voltage AC motors available.
- Standard recommended rope size is 10-13 mm (3/8-1/2 inch) based on your lifting requirements.
- Configurable to meet European CE and ATEX standards.

Durable Construction & Finish

- Boom, mast, and base are fabricated from heavy-duty steel that limits deflection and meets ASTM standards.
- Corrosion-resistant finishes and stainless-steel fasteners resist the elements and harsh environments for long service life.
- Standard red-enamel finish, optional galvanized, or epoxy (gray, safety-yellow, or custom-color) finishes are available.



360° Rotation & Flexible Operation

- Standard with manually operated slewing drive enhances smooth, 360-degree mast rotation under extreme loads for precise load placement.
- Standard screw jack for easy boom angle adjustment.
- Optional hydraulic boom adjustment package (includes cylinder, hand pump, and control valve) for boom angle adjustments while under load (5FT40H).

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5FT40-M1	Red-enamel crane and ratchet jack with M4312PB-K spur gear hand winch.	2,500 kg (5,500 lbs)
5FT40-M2	Red-enamel crane and ratchet jack with 4WM2V-K worm gear hand winch.	2,500 kg (5,500 lbs)
5FT40X-M2X	Gray-epoxy crane and ratchet jack with gray-epoxy 4WM2VEGRA-K worm hand winch.	2,500 kg (5,500 lbs)
5FT40-E2	Red-enamel crane and ratchet jack with 4WP2-K electric winch.	2,500 kg (5,500 lbs)
5FT40X-E2X	Gray-epoxy crane and ratchet jack with gray-epoxy 4WP2EGRA-K electric winch.	2,500 kg (5,500 lbs)
5FT40-E3	4HWF6M electric winch—see tech pages for winch options.	2,500 kg (5,500 lbs)
5FT40X-E3	Gray-epoxy 4HWF6M electric winch—see tech pages for winch options.	2,500 kg (5,500 lbs)



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MATERIAL HANDLING



BTS THERN® Winches & Cranes

ADMIRAL® 5PT30

TRANSPORTABLE DAVIT CRANE

MAXIMUM LIFTING POWER

with Portable Utility

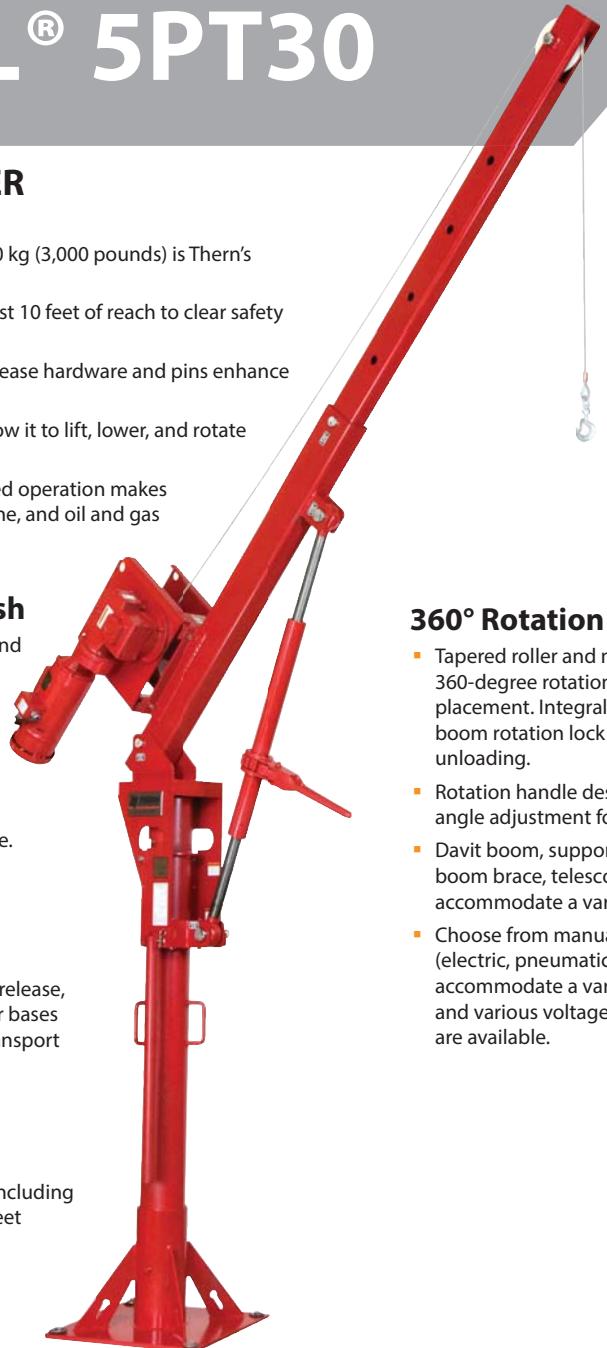
The 5PT30 Admiral Series davit crane up to 1360 kg (3,000 pounds) is Thern's largest capacity transportable davit crane.

An adjustable boom for high lifts provides almost 10 feet of reach to clear safety gates, rails, and other obstacles.

Easy disassembly and reassembly with quick-release hardware and pins enhance transport to storage or other work bases.

A combination of roller and needle bearings allow it to lift, lower, and rotate loads 360 degrees, easily and smoothly.

A variety of base options and manual or powered operation makes it perfect for construction, manufacturing, marine, and oil and gas applications.



Durable Construction & Finish

- Heavy-duty, welded structural steel pipe and tubing limit deflection and meet ASTM standards.
- Red-enamel finish, mast cap and stainless-steel fasteners resist the elements and harsh environments for long service life.
- Galvanized and epoxy finishes are available.

Transportable

- Disassemble and reassemble using quick-release, clevis-style pins for transport to storage or bases at other work sites—no tools required. Transport requires two people.

Flexible Configurations

- A variety of base and mounting options, including pedestal-, flush-, and wall-mount, help meet multiple lifting needs.

360° Rotation & Flexible Operation

- Tapered roller and needle bearings enhance smooth, 360-degree rotation under load for precise load placement. Integral 12-position (every 30 degrees) boom rotation lock facilitates heavy lifting and stabilizes unloading.
- Rotation handle design does not interfere with boom angle adjustment for easier operation.
- Davit boom, supported by integral screw jack or boom brace, telescopes to five different lengths to accommodate a variety of applications.
- Choose from manual, drill-drive, or powered winch (electric, pneumatic, or hydraulic motors) operation to accommodate a variety of loads and speeds. DC motors and various voltage AC motors, including three-phase, are available.

STANDARD CONFIGURATION

Series	Description	Up To Capacity
5PT30J-M1	Enamel crane and ratchet jack with M452B-K spur gear hand winch.	1,360 kg (3,000 lbs)
5PT30JG-M1	Galvanized crane and ratchet jack with M452B-K spur gear hand winch.	1,360 kg (3,000 lbs)
5PT30J-M2	Enamel crane and ratchet jack with 2W40V-BMT4P-K worm gear hand winch.	1,360 kg (3,000 lbs)
5PT30JG-M1X	Galvanized crane and ratchet jack with gray-epoxy M452BEGRA-K spur gear hand winch.	1,360 kg (3,000 lbs)
5PT30JX-M1X	Gray-epoxy crane and ratchet jack with gray-epoxy M452BEGRA-K spur gear hand winch.	1,360 kg (3,000 lbs)
5PT30J-E2	Enamel crane and ratchet jack with 3WG4B-K electric winch.	1,360 kg (3,000 lbs)
5PT30JG-E2	Galvanized crane and ratchet jack with 3WG4B-K electric winch.	1,360 kg (3,000 lbs)
5PT30JX-E2X	Gray-epoxy crane and ratchet jack with gray-epoxy 3WG4B-KX electric winch.	1,360 kg (3,000 lbs)



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MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

SPUR / WORM GEAR

HAND WINCHES

AT A GLANCE



Our worm gear and spur gear hand winches are designed to perform better and last longer no matter what your application. From construction, to maritime to manufacturing and more, our hand winches are built tough to meet the demands of the job in any environment.



MODEL	Load Rating	Drum Capacity	Brake Availability	Customisable Gear Box Orientation	Multiple Mounting Options Available	Gear Style
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Spur Gear Hand Winch

M4022	Up to 453 kgs Up to 1,000 lbs	39 m 130 ft	●		●	Spur
M4032	Up to 453 kgs Up to 1,000 lbs	76 m 250 ft	●		●	Spur
M4042	Up to 453 kgs Up to 1,000 lbs	76 m 250 ft	●		●	Spur
M312	Up to 907 kgs Up to 2,000 lbs	33 m 110 ft	●		●	Spur
M4412	Up to 907 kgs Up to 2,000 lbs	64 m 210 ft	●		●	Spur
M452	Up to 1,814 kgs Up to 4,000 lbs	91 m 300 ft	●		●	Spur
M492	Up to 4,535 kgs Up to 10,000 lbs	76 m 250 ft	●		●	Spur

Worm Gear Hand Winches

4622PB	Up to 453 kgs Up to 1,000 lbs	42 m 140 ft	●	●	●	Spur
4WM2	Up to 907 kgs Up to 2,000 lbs	23 m 77 ft	●	●	●	Spur
2W40	Up to 2,086 kgs Up to 4,600 lbs	61 m 200 ft	●	●	●	Spur



MATERIAL HANDLING

BTS THERN® Winches & Cranes

POSITION WITH CONFIDENCE

Thern is ready to lend a hand with the most dependable manual winches available.



Spur Gear
Model: M312



Spur Gear
Model: M4412



Spur Gear
Model: M452



Spur Gear
Model: M492

WINCH FINISH						
Portability	Drill Drivable	Enclosed Gearing	Zinc Plated	Stainless Steel	Enamel	Epoxy (Grey)
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MATERIAL HANDLING

BTS THERN® Winches & Cranes

bts **Thern**
Winches & Cranes

SPUR GEAR

HAND WINCHES - UP TO 907 kg / 2,000 lbs

LIGHT-DUTY PERFORMANCE

with Robust Construction & Features

The Spur Gear Series of hand winches (up to 2,000 pounds) is a popular, versatile solution for lifting, lowering, and positioning loads in a variety of applications. Yet, it incorporates the same uncompromised quality and features for which Thern is known. Heavy steel construction, clear zinc-coated finish, machine-cut steel gears, bronze bushings, and radial ball bearings deliver rugged-duty service that will last. It's perfect for construction, maritime, and manufacturing environments.



Adjustable Handle

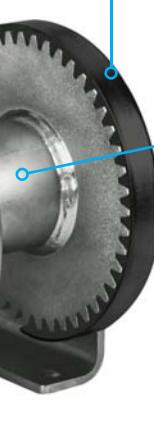
Adjustable handle provides ability to increase mechanical advantage or speed as load weight varies.

Solid Steel Machine-Cut Gears

Precision-cut, zinc-coated steel gears resist corrosion, increase efficiency, and provide accurate and durable operation.

Composite Gear Guards

Glass-filled nylon, encased gear guard enhances safety and includes grease zerk for easy lubrication.



Welded Steel Drum

Robust drum design and large spool diameter minimise drum wear and extend wire rope life.

Quick-Disconnect Anchor

Swaged ball fitting holds load and allows additional flexibility for quickly attaching or removing wire rope.



Product Shown:
M4312PB

Automatic Weston-Style Brake

- Spring-engaged, ratchet-pawl design offers additional reliability and positive load control for lifting and lowering
- Enclosed (pawl and ratchet) envelope keeps brake clean, dry, and protected for reliable service and haptic feedback
- Durable friction discs reduce wear and increase service life

Series	Load Rating	Finish	Drum	Brake	Wire Rope Dia.	Drum Capacity	Force to Lift 453 kg / 1,000 lbs
M4022PB	Up to 450 kgs Up to 1,000 lbs	Clear Zinc Plating	Narrow	Yes	3.2 mm 1/8 in	39 m 130 ft	19 kg 41 lbs
M4032PB	Up to 450 kgs Up to 1,000 lbs	Clear Zinc Plating	Wide	Yes	3.2 mm 1/8 in	76 m 250 ft	19 kg 41 lbs
M4042PBSS	Up to 450 kgs Up to 1,000 lbs	Clear Zinc Plating	Wide	Yes	3.2 mm 1/8 in	73 m 240 ft	21 kg 46 lbs
M4312PB	Up to 907 kgs Up to 2,000 lbs	Clear Zinc Plating	Narrow	Yes	4.8 mm 3/16 in	33 m 110 ft	8 kg 17 lbs
M4312PBSS	Up to 907 kgs Up to 2,000 lbs	Clear Zinc Plating	Narrow	Yes	4.8 mm 3/16 in	33 m 110 ft	8 kg 17 lbs
M4412PB	Up to 907 kgs Up to 2,000 lbs	Clear Zinc Plating	Wide	Yes	4.8 mm 3/16 in	64 m 210 ft	8 kg 17 lbs

MATERIAL HANDLING

BTS THERN® Winches & Cranes

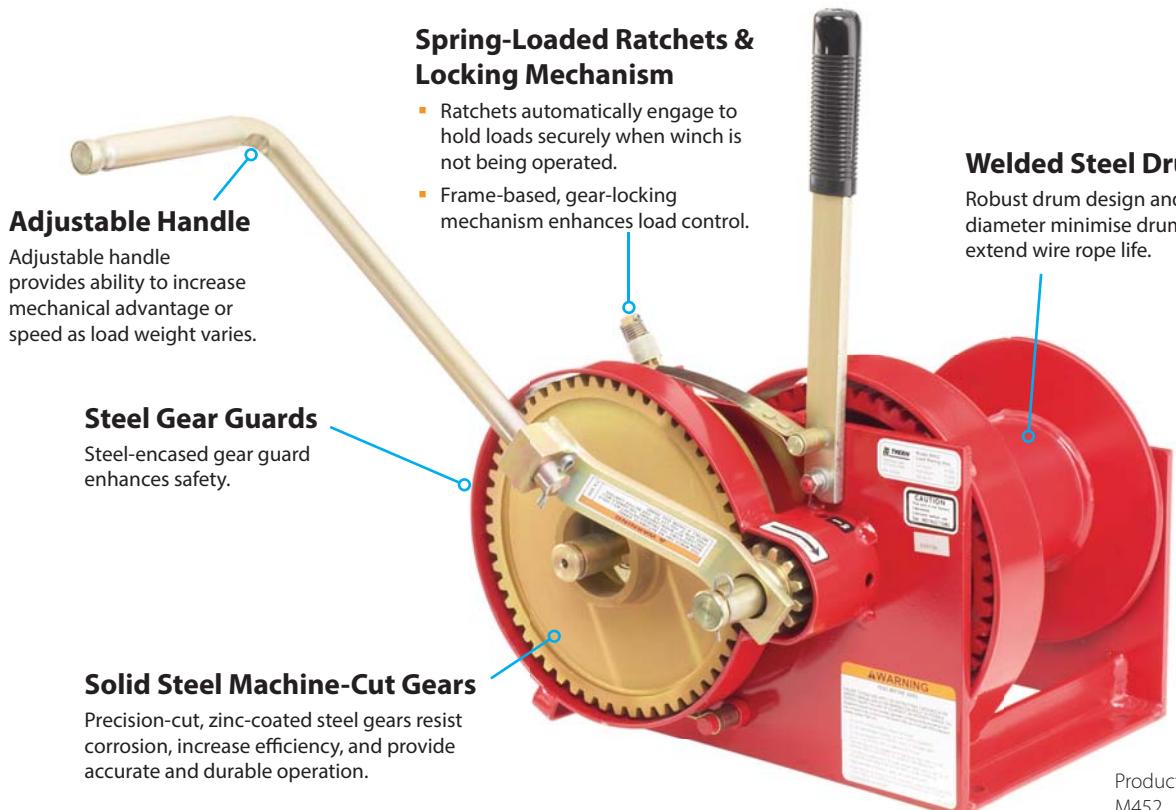
SPUR GEAR

HAND WINCHES - UP TO 4,535 kg / 10,000 lbs

ROBUST CONSTRUCTION

for Dependable Heavy-Duty Service

The Spur Gear Series of hand winches (up to 4,535 kg / 10,000 pounds) is designed to lift, lower, and position heavy loads, dependably. It is also a perfect solution for high-capacity stabilization and tensioning needs. The rugged design features heavy steel construction, machine-cut steel gears, bronze bushings, and radial ball bearings. You can count on long, rugged service life for many applications, like construction and aerospace.

Product Shown:
M452

Automatic Weston-Style Brake

- Spring-engaged, ratchet-pawl design offers additional reliability and positive load control for lifting and lowering.
- Enclosed (pawl and ratchet) envelope keeps brake clean, dry, and protected for reliable service and haptic feedback.
- Durable friction discs reduce wear and increase service life.

Non-Brake Units Available

- Non-brake unit allows additional flexibility in horizontal pulling applications only.
- Two gear ratios increase efficiency, depending on load.

Series	Load Rating	Brake	Wire Rope Dia.	Drum Capacity	Low-Speed Force to Lift 453 kg / 1,000 lbs at Base Layer
M452	Up to 1,810 kgs Up to 4,000 lbs	Yes	6.4 mm 1/4 in	91 m 300 ft	5 kg 10 lbs
M452B	Up to 1,810 kgs Up to 4,000 lbs	Yes	6.4 mm 1/4 in	91 m 300 ft	5 kg 10 lbs
M492	Up to 4,535 kgs Up to 10,000 lbs	Yes	7.9 mm 5/16 in	164 m 540 ft	4 kg 8 lbs
M492B	Up to 4,535 kgs Up to 10,000 lbs	Yes	7.9 mm 5/16 in	164 m 540 ft	4 kg 8 lbs

MATERIAL HANDLING

BTS THERN® Winches & Cranes

bts **Thern**
Winches & Cranes

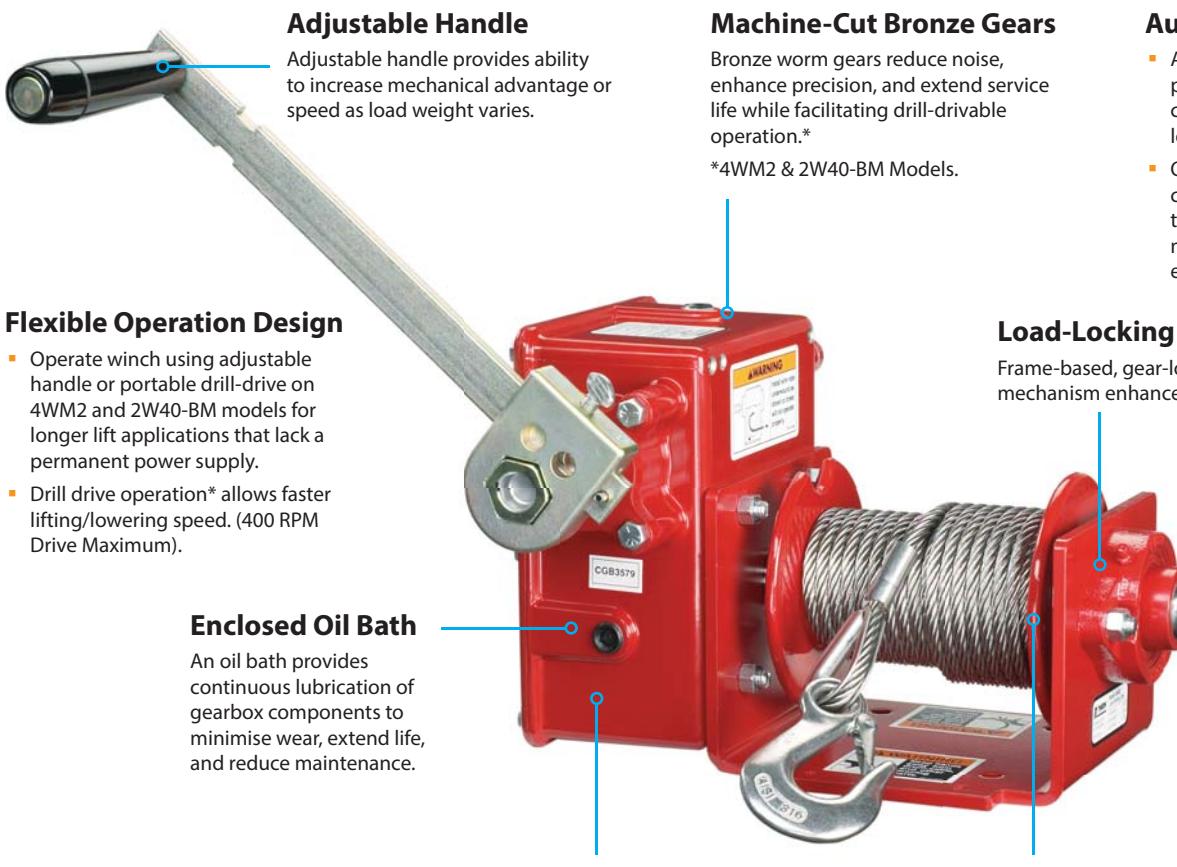
WORM GEAR

HAND WINCHES - UP TO 905kg / 2,000 lbs

MEASURED, STEADY PRECISION

with Less Force

The Worm Gear Series of hand winches (up to 905 kg / 2,000 lbs) is designed to lift and lower heavy loads quietly, with less effort. The worm-gear design allows for more precise positioning and extra load-holding power for secure control. Machine-cut bronze gearing and a cast aluminium gearbox enhance durability and resist the elements. Multiple configurations make it ideal for maritime, rail yards, construction, and manufacturing.



Adjustable Handle

Adjustable handle provides ability to increase mechanical advantage or speed as load weight varies.

Machine-Cut Bronze Gears

Bronze worm gears reduce noise, enhance precision, and extend service life while facilitating drill-drivable operation.*

*4WM2 & 2W40-BM Models.

Automatic Brake

- Adjustable brake provides positive load control for lifting/lowering.
- Oil bath provides continuous lubrication to reduce heat, minimise wear, and extend service life.

Flexible Operation Design

- Operate winch using adjustable handle or portable drill-drive on 4WM2 and 2W40-BM models for longer lift applications that lack a permanent power supply.
- Drill drive operation* allows faster lifting/lowering speed. (400 RPM Drive Maximum).

Enclosed Oil Bath

An oil bath provides continuous lubrication of gearbox components to minimise wear, extend life, and reduce maintenance.

Cast-Aluminium Gear Box

Lightweight, corrosion-resistant design enhances portability and increases service life.

Load-Locking Mechanism

Frame-based, gear-locking mechanism enhances load control.

Product Shown:
4WM2

Large-Diameter Drum

Large diameter drum extends wire rope life and increases Cast-Aluminium Gear Box travel distance.

Series	Load Rating	Brake	Wire Rope Dia	Drum Capacity	Force to Lift 453 kg / 1,000 lbs
4622PB	Up to 450 kgs Up to 1,000 lbs	Yes	3.2 mm 1/8 in	42 m 140 ft	12 kg 26 lbs
4WM2	Up to 907 kgs Up to 2,000 lbs	Yes	6.4 mm 1/4 in	23 m 77 ft	7 kg 14 lbs

MATERIAL HANDLING

BTS THERN® Winches & Cranes

WORM GEAR

HAND WINCHES - UP TO 2,085 kg / 4,600 lbs

MEASURED, STEADY PRECISION

with Less Force

The Worm Gear Series of hand winches (up to 2,085 kg / 4,600 lbs) is designed to lift and lower heavy loads quietly, with less effort. The worm-gear design allows for more precise positioning and extra load-holding power for secure control. Machine-cut bronze gearing and a cast aluminium gearbox enhance durability and resist the elements. Multiple configurations make it ideal for maritime, rail yards, construction, and manufacturing.

Flexible Operation Design

- Operate winch using adjustable handle or portable drill-drive on 4WM2 and 2W40-BM models for longer lift applications that lack a permanent power supply.
- Drill drive operation* allows faster lifting/lowering speed. (400 RPM Drive Maximum).

Machine-Cut Bronze Gears

Bronze worm gears reduce noise, enhance precision, and extend service life while facilitating drill-drivable operation.*

*4WM2 & 2W40-BM Models.

Automatic Brake

- Adjustable brake provides positive load control for lifting/lowering.
- Oil bath provides continuous lubrication to reduce heat, minimise wear, and extend service life.

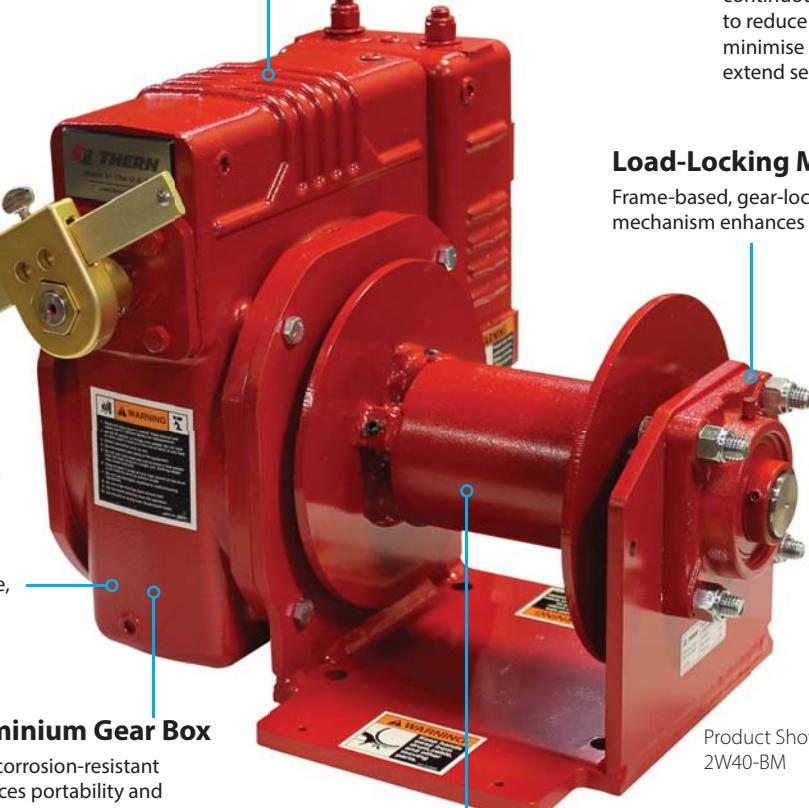
Adjustable Handle

Adjustable handle provides ability to increase mechanical advantage or speed as load weight varies.



Enclosed Oil Bath

An oil bath provides continuous lubrication of gearbox components to minimise wear, extend life, and reduce maintenance.



Product Shown:
2W40-BM

Cast-Aluminium Gear Box

Lightweight, corrosion-resistant design enhances portability and increases service life.

Large-Diameter Drum

Large diameter drum extends wire rope life and increases Cast-Aluminium Gear Box travel distance.

Series	Load Rating	Brake	Wire Rope Dia.	Drum Capacity	Force to Lift 453 kg / 1,000 lbs
2W40-BM	Up to 2,085 kgs Up to 4,600 lbs	Yes	7.9 mm 5/16 in	60 m 200 ft	5 kg 11 lbs

MATERIAL HANDLING

BTS THERN® Winches & Cranes

  **Thern**
Winches & Cranes

PORTABLE/STATIONARY ELECTRIC

WINCHES

AT A GLANCE



Power and precision on any work site. Our heavy-duty electric winches are built to traverse long distances, accommodate faster line speeds, and give you the ultimate control. Thern electric winches can lift, pull, or position up to 45,359 kgs (100,000 lbs).

Liberty® Series
Swivel Mount
Model: 3CP1



Dura-Hoist Series
Helical/Worm Gear
Model: 4771



Atlas Series
Worm Gear
Model: 4WP2T



High-Speed Worm
Gear Series
Model: 4WP2D



MODEL	Load Rating	Drum Capacity	Line Speed Portable Up To	Clutch Availability	Portable
Liberty Series Model 3CP1	Up to 453 kgs Up to 1,000 lbs	-	15 mpm 50 fpm		●
Atlas Worm Gear Series Model 4WP2T	Up to 907 kgs Up to 2,000 lbs	85.3 m 280 ft	5.18 mpm 19 fpm	●	●
High-Speed Worm Gear Series Model 4WP2D	Up to 680 kgs Up to 1,500 lbs	85.3 m 280 ft	29 mpm 97 fpm	●	●
Atlas II Portable Power Winch Model 3WG4	Up to 2,086 kgs Up to 4,600 lbs	60.9m 200 ft	7 mpm 24 fpm		●
Dura-Hoist Helical/Worm Gear Series Model 4771	Up to 907 kgs Up to 2,000 lbs	27.4 m 90 ft	6 mpm 22 fpm		●
Worm Spur (WS) Series Model 4WS	Up to 11,880 kgs Up to 26,200 lbs	457.2 m 1,500 ft	24 mpm 82 fpm	●	
Helical Spur (HS) Series Model 4HS	Up to 11,790 kgs Up to 26,000 lbs	365.8 m 1,200 ft	21 mpm 72 fpm	●	
Helical Worm (HWF) Series Model 4HWF	Up to 3,670 kgs Up to 8,100 lbs	640.1 m 2,100 ft	23 mpm 78 fpm		
Helical Parallel (HPF) Series Model 4HPF	Up to 11,430 kgs Up to 25,200 lbs	640.1 m 2,100 ft	24mpm 81 fpm	●	
Helical Bevel Planetary (HBP) Series Model 4HBP	Up to 45,359 kgs Up to 100,000 lbs	1,828.8 m 6,000 ft	30.48 mpm 100 fpm		

MATERIAL HANDLING

BTS THERN® Winches & Cranes

PULL WITH CONFIDENCE

Choose a winch with maximum durability, reliability, and safety to keep you running.

Atlas II Portable Power Winch
Model: 3WG4



Worm Spur (WS) Series
Model: 4WS



Helical Spur (HS) Series
Model: 4HS



Helical Worm (HWF) Series
Model: 4HWF



Helical Parallel (HPF) Series
Model: 4HPF



Helical Bevel Planetary (HBP) Series
Model: 4HBP



Enclosed Gearing	High-Ratio Gearing	Suitable for Lifting	Suitable for Back Driving	Hydraulic Options	Suitability for Harsh Environments
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MATERIAL HANDLING

BTS THERN® Winches & Cranes



LIBERTY® SERIES

PORTABLE CAPSTAN WINCH W/ INTEGRAL SWIVEL BASE

QUIET PERFORMANCE

at Any Angle

The Thern Liberty Series capstan winch delivers portable strength and performance. The swivel base helps you deliver it, securely, at almost any angle for lifting, stringing, and pulling—especially with the optional hitch mount. Position your truck once, rotate the winch (15° increments) to align the load, and lock it down. Then, enjoy quiet operation for enhanced team communication and productivity. It's perfect for energy sector tasks in remote locations, including pole setting, stringing lines, maintaining wind turbines, and erecting telecommunication towers.

450 kg (1,000 lb) Capacity

- Quiet Operation and Long Life.
- Load-Aligning Swivel Base.
- Extremely Portable.
- Improved Safety vs. competitors Products.
- Increased Productivity.
- Maintenance-Free.
- Two-Year Warranty.

Foot Switch Control

- Foot switch-controlled operation delivers productivity and safety.
- IP65, NEMA 4-rated sealed foot switch allows outdoor use.
- Painted, cast-iron construction and anti-skid feet promote durability and stability for outdoor applications.
- 3 metre (10-foot) cord and twist-lock plug design avoids untimely power disruption, increasing productivity.



Durable Swivel Frame with Integral Lock

- Adjustable rotation in 15° increments to align loads and lock securely with swivel stop.
- Lightweight, engineered design and steel construction provides portability.
- Powder-coated steel finish resists wear and promotes durability.
- 13mm (Half-inch), Grade 5 mounting hardware enhances security.
- Optional heavy-duty fixed mount frame.

Premium Motor with Handle

- Premium motor offers quiet operation (80 dBA)* enhancing clear communication between operators.
- Totally enclosed housing with durable powder-coat finish resists contamination for increased reliability.
- Maintenance-free, permanently lubricated, planetary gearbox for smooth operation and long life.
- UL-Recognized motor.

Engineered Drum Design

- Keeps load line from moving during operation, enhancing productivity.
- Nickel-plated steel construction for optimum performance and durability.

Integral Rope Lock

- Rope lock prevents unintentional lowering of load.
- Accommodates 1/2–3/4 inch rope for varying loads.
- Nickel-plated and anodized components ensure durability and smooth handling of load.
- Adjustable rope lock accommodates various line exit angles and operator heights.

Integral Rope Keep

- Spring-loaded rope keep helps prevent accidental removal of hand line from drum.
- Corrosion-resistant components improve durability.
- Rope keep bar serves as a carrying handle.

ACCESSORIES

3CP1S-HM Hitch Mount**

- Heavy-duty (ASTM-grade steel) construction for 450 kg (1,000 lbs) swivel capstan winch.
- For use on vehicles with a 50mm (2 in) hitch receiver.
- Hitch includes standard receiver clevis and cotter pins.
- Product weight is approximately 12 kg (26 lbs) for easy handling.

**For use with Thern swivel capstan winch only.

Series	Maximum Capacity	Rope Diameter Range **	Maximum Line Speed Range ***	Rated Current Draw	Input Voltage	Ship Weight	Ambient Operating Temperature Range	Duty Cycle	Mount Type
3CP1M-AFS	450 kgs 1,000 lbs	13-19mm 1/2-3/4 in	11-15 mpm 35-50 fpm	15 amp	220-240 VAC / 50Hz	29 kg 64 lbs	-20°C – +40°C -4 °F – +105 °F	20 mins full load	Fixed
3CP1S-AFS	450 kgs 1,000 lbs	13-19mm 1/2-3/4 in	11-15 mpm 35-50 fpm	15 amp	220-240 VAC / 50Hz	34 kg 76 lbs	-20°C – +40°C -4 °F – +105 °F	20 mins full load	Swivel

* Thern's 3CP1M-AFS winch has a maximum noise level of 80 dBA, averaging 10 dBA less than the competition, when measured at a distance of approximately 914 mm / three feet under similar conditions.

** Synthetic rope only. Available for purchase through Thern. *** Load dependent.

MATERIAL HANDLING

BTS THERN® Winches & Cranes



DURAHOIST SERIES

PORTABLE ELECTRIC WINCHES

QUIET PORTABILITY

with Quick Cable Disconnect

The 477 Series features a compact, vertical design when robust power is needed in tight spaces. Lift/pull up to 2,000 pounds in any direction or orientation: floor, ceiling, or wall. Machine-cut helical and worm gears offer quiet and precise power transfers and continuous lubrication ensures long life. Ideal for wastewater, construction, and manufacturing applications.

Portable Design

- Optional integrated pressure plate prevents unspooling during transport.
- Mounts on wall, ceiling, or floor for maximum flexibility.
- Lightweight cast aluminium drum and gearbox.

Premium Motor & Configurations

- Brushless-design, totally enclosed AC induction motor provides superior life.
- Quiet operation in both directions.
- 220-240-volt single phase standard, with other voltages available (single and three-phase configurations).



Durable Winch Frame & Component Construction

- Cast aluminium drum, frame, and gearbox (with enamel or optional epoxy coating) resist corrosion for extreme conditions and applications.

Internal Mechanical Load Brake

- Internal mechanical brake helps control loads and facilitates controlled operation.
- Wet-brake design increases durability by dissipating heat and reducing wear.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Drum (Wide or Narrow)
4771	907 kgs 1st Layer 2,000 lbs 1st Layer	220-240 VAC / 50Hz	3-6 ppm 13-22 fpm	7.9 mm 5/16 in	27-36 m 90-120 ft	Wide
4771PN	680 kgs 1st Layer 1,500 lbs 1st Layer	Pneumatic	3-6 ppm 13-22 fpm	7.9 mm 5/16 in	27-36 m 90-120 ft	Wide
4771HY	907 kgs 1st Layer 2,000 lbs 1st Layer	Hydraulic	3-6 ppm 13-22 fpm	7.9 mm 5/16 in	27-36 m 90-120 ft	Wide
4771DC	907 kgs 1st Layer 2,000 lbs 1st Layer	12 VDC	3-6 ppm 13-22 fpm	7.9 mm 5/16 in	27-36 m 90-120 ft	Wide
4777	907 kgs 1st Layer 2,000 lbs 1st Layer	220-240 VAC / 50Hz	3-6 ppm 13-22 fpm	7.9 mm 5/16 in	18-27 m 60-89 ft	Narrow

MATERIAL HANDLING

BTS THERN® Winches & Cranes

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Winches & Cranes

ATLAS SERIES

PORTABLE ELECTRIC WINCHES

SPEED & PORTABILITY

in a Compact Envelope

The 4WP2 Series electric winches combine portability with strength and precision—all in a compact envelope. The portable design makes it ideal for multiple industries and applications including manufacturing, construction, steel industry, wastewater treatment, rail operations, and more. Lift or pull in any direction and in any orientation: floor, ceiling, or wall.

Premium Motor & Configurations

- Brushless, totally enclosed AC induction motor provides superior life.
- Quiet operation in both directions.
- 220-240-volt single phase standard, with other voltages available (single, three-phase, and DC configurations).

Ready-to-Work Controls

- Standard push-button pendant and power cord standard on 4WP2 and 4WP2T8 for ready operation.
- NEMA 4 rating for outdoor use.



Premium Gearbox Design

- Gear box reducer with worm gear design for increased load control and quiet operation.
- Fully enclosed oil bath dissipates heat and provides continuous lubrication for long service life.

Internal Mechanical Load Brake

- Internal mechanical brake helps control loads and facilitates safe operation.
- Oil-bath brake design increases durability by dissipating heat and reducing wear.

Portable Design

- Ergonomic lifting handles enhance portability.
- Integrated pressure plate prevents unspooling during transport.
- Mounts on wall, ceiling, or floor for maximum flexibility.
- Lightweight cast aluminium drum and gearbox.

Durable Winch Frame & Component Construction

- Cast aluminium drum and gearbox (with enamel or optional epoxy coating) resists corrosion for extreme conditions and applications.
- Coated steel frame resists elements and wear.

Enhanced Load Handling

- Large-capacity drum for long travel distances.
- Quick-disconnect anchor for 6.4mm (1/4") wire rope reduces labor/time.

Series	Load Rating	Clutch	Line Speed	Wire Rope Dia.	Drum Capacity	Drum (Wide or Narrow)
4WP2	907 kgs 1st Layer 2,000 lbs 1st Layer	No	2-3 mpm 8-13 fpm	6.4 mm 1/4 in	15-23 m 52-77 ft	Narrow
4WP2D8	680 kgs 1st Layer 1,500 lbs 1st Layer	No	12-29 mpm 40-97 fpm	6.4 mm 1/4 in	57-85 m 190-280 ft	Wide
4WP2DC*	680 kgs 1st Layer 1,500 lbs 1st Layer	Yes	12-29 mpm 40-97 fpm	6.4 mm 1/4 in	39-57 m 130-190 ft	Narrow
4WP2T8	907 kgs 1st Layer 2,000 lbs 1st Layer	No	2-5 mp 8-19 fpm	6.4 mm 1/4 in	57-85 m 190-280 ft	Wide
4WP2TC*	907 kgs 1st Layer 2,000 lbs 1st Layer	Yes	2-5 mp 8-19 fpm	6.4 mm 1/4 in	39-57 m 130-190 ft	Narrow

* For horizontal pulling applications only.

MATERIAL HANDLING



BTS THERN® Winches & Cranes

ATLAS II SERIES

PORTABLE ELECTRIC WINCHES

High-Power Capacity

with Portable Convenience

The 3WG4 Series offers up to 2,086 kg (4,600 lbs) of secure lift and pull capacity, while retaining the versatility of a portable winch—just right for a variety of demanding applications. Lift or pull in any direction or orientation: floor, ceiling, or wall. Ideal for communication tower assembly, rail yards, steel operations, mining, heavy construction, and manufacturing applications.

Easy-to-Use

Controls

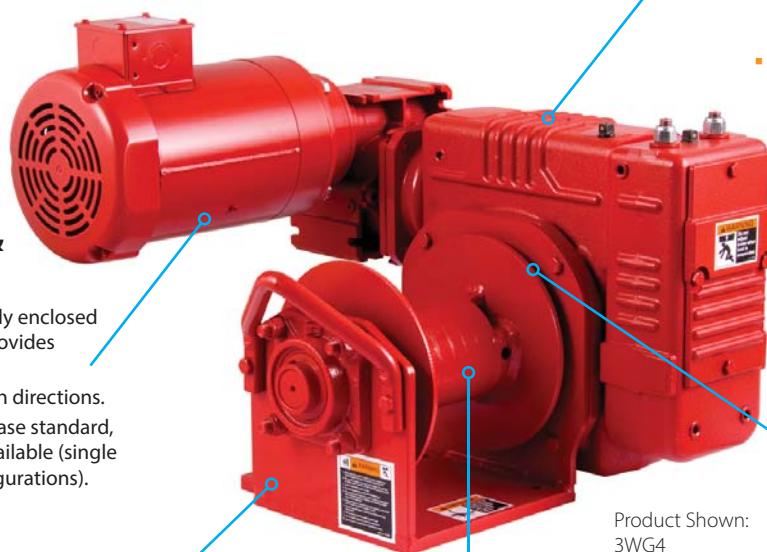
- 220-240-volt pendant control and power cord included (3WG4, 3WG4-B, 3WG4-M).
- NEMA 4 rating for outdoor use.

Premium Motor & Configurations

- Brushless-design, totally enclosed AC induction motor provides superior life.
- Quiet operation in both directions.
- 220-240-volt single phase standard, with other voltages available (single and three-phase configurations).

Durable Winch Frame & Component Construction

- Cast aluminium gearbox (with enamel or optional epoxy coating) resists corrosion for extreme conditions and applications.
- Painted steel frame resists elements and wear.



Product Shown:
3WG4

Enhanced Load Handling

- Large-capacity drum for long travel distances.

Premium Gearbox Design

- Fully enclosed oil bath for reducer dissipates heat and provides continuous lubrication for long service life.
- Easy-to-Use Double-worm gearing.

Internal Mechanical Load Brake

- M-Models feature a spring-applied, electrically released motor disk brake.
- B-Models feature an internal, mechanical brake to help control loads and facilitate safe operation.
- Wet brake design on B-Models increases durability by dissipating heat and reducing wear.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity
3WG4-B	1,814 kgs 1st Layer 4,000 lbs 1st Layer	220-240 VAC / Single Phase / 50Hz	2-4 mpm 9-16 fpm	9.6- 7.9 mm 3/8 - 5/16 in	42-60 m 140-200 ft
3WG4-B	2,086 kg 1st Layer 4,600 lbs 1st Layer	410-415 / 3 Phase / 60Hz	4-7 mpm 13-24 fpm	9.6- 7.9 mm 3/8 - 5/16 in	42-60 m 140-200 ft
3WG4-M	1,814 kgs 1st Layer 4,000 lbs 1st Layer	220-240 VAC / Single Phase/ 50Hz	2-4 mpm 9-16 fpm	9.6- 7.9 mm 3/8 - 5/16 in	42-60 m 140-200 ft
3WG4-M	2,086 kg 1st Layer 4,600 lbs 1st Layer	410-415 / 3 Phase / 60Hz	4-7 mpm 13-24 fpm	9.6- 7.9 mm 3/8 - 5/16 in	42-60 m 140-200 ft
3WG4T-M	2,086 kg 1st Layer 4,600 lbs 1st Layer	410-415 / 3 Phase / 60Hz	4-8 mp 13-28 fpm	9.6- 7.9 mm 3/8 - 5/16 in	67-91 m 220-300 ft

MATERIAL HANDLING

BTS THERN® Winches & Cranes

bts **Thern**
Winches & Cranes

4WS SERIES

HEAVY-DUTY ELECTRIC POWER WINCHES

HEAVY-DUTY, DIRECT-DRIVE GEARS

Enhance Load Control and Positioning

The 4WS Series of power winches 362 to 11,880 kgs (800 to 26,000 pounds) is designed to lift, lower, pull, or position heavy loads. Heavy-duty spur and worm gears, plus direct-drive gearing enhance load security and positioning accuracy. Sealed cast-iron gear case housing with integral oil bath lubricates rotating gears for long service life. Ideal for long-lift or long-pull applications with single-phase power.

Flange-Mounted Premium

Motor & Enclosure

- Reversible, three-phase, industrial-grade motor, endures continuous operation. Single-phase version also available.
- A totally enclosed, fan-cooled (TEFC) design, featuring IP44+ and F-class insulation, resists debris and contamination for long service life.
- Standard motors comply with industry standards: UL, CSA, IEC, and NEMA MG1.

Durable Gears & Gearbox Design

- Heavy-duty spur gears, providing secondary reduction, are guarded with grease zerk for easy lubrication and maintenance.
- Large-capacity bearings enhance smooth operation and durability.
- Sealed, cast-iron gearbox with integral oil bath for primary gears dissipates heat and provides continuous lubrication for enhanced service life.
- Direct-drive gearing, featuring spur and worm gears, enhance load control and positioning while resisting wear.
- Primary speed reducers meet AGMA and/or DIN standards.



Product Shown:
4WS6M12

Integral Drum & Shaft Design

- Large-diameter, welded-steel drum, featuring outside flange anchors, promotes uniform winding and life of wire rope.
- Anchors allow cable to be over or under wound and provide multiple drum exit angles.
- Flange-style, self-aligning roller bearings with cast-iron housing maintain smooth drum rotation.
- Continuous, solid-steel drum shaft and steel frame provide optimal strength and security.
- Complete wire rope assemblies available upon request.

Load-Holding Motor Disk Brake

- Spring-set, electrically-released brake helps control loads and facilitates safe operation.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia	Drum Capacity	Clutch
4WS1M6	680 kgs 1,500 lbs	.37-1.1 kW .5-1.5 hp	2-3 ppm 17-44 fpm	4.8 mm 3/16 in	79 m 260 ft	Yes
4WS3M10	1,675 kgs 3,700 lbs	.75-2.2 kW 1-3 hp	12-29 ppm 8-23 fpm	7.9 mm 5/16 in	152 m 500 ft	Yes
4WS6M12	2,900 kgs 6,400 lbs	.75-3.7 kW 1-5 hp	12-29 ppm 4-24 fpm	11.2 mm 7/16 in	201 m 660 ft	Yes
4WS9M18	4,535 kgs 10,000 lbs	3.7-7.5 kW 5-10 hp	2-5 ppm 13-32 fpm	11.2 mm 7/16 in	457 m 1,500 ft	No
4WS16M20	7,255 kgs 16,000 lbs	5.5-11 kW 7.5-15 hp	2-5 ppm 12-35 fpm	14.2 mm 9/16 in	466 m 1,530 ft	No
4WS26M26	11,880 kgs 26,000 lbs	7.5-18.5 kW 10-25 hp	3-10 ppm 10-36 fpm	19.1 mm 3/4 in	451 m 1,480 ft	No

MATERIAL HANDLING

BTS THERN® Winches & Cranes

4HS SERIES

HEAVY-DUTY ELECTRIC POWER WINCHES

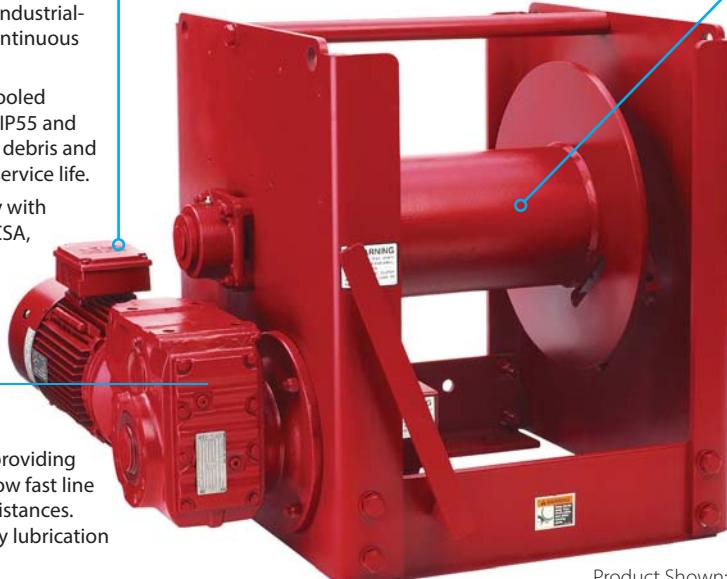
DUAL-STAGE GEAR REDUCTION

for Economical Handling of Large Loads

The 4HS Series of power winches 2267 to 11,790 kg (5,000 to 26,000 pounds) is designed for applications requiring long travel distances and fast line speeds. A combination of directly driven, helical/bevel or helical/parallel and spur gearing provides durability and high efficiency—up to 89 percent. Modular design allows customisation to meet specific customer specifications. Typical applications include rail yards, conveyor belt tensioning, and barge or dredge positioning.

Flange-Mounted Premium Motor & Enclosure

- Energy-efficient 230/460 volt, reversible, three-phase, industrial-grade motor, endures continuous use.
- A totally enclosed, fan-cooled (TEFC) design, featuring IP55 and F-class insulation, resists debris and contamination for long service life.
- Standard motors comply with industry standards: UL, CSA, IEC, and NEMA MG1.



Durable Gears & Gearbox Design

- Heavy-duty spur gears, providing secondary reduction, allow fast line speeds and long travel distances. Grease zerks provide easy lubrication and maintenance.
- Large-capacity bearings enhance smooth operation and durability. Sealed, cast-iron gearbox with integral oil bath for rotating gears dissipates heat and provides continuous lubrication for enhanced service life.
- Primary speed reducers meet AGMA and/or DIN standard wear.

Modular Design

- Flexible winch design allows customisation by Thern to meet specific customer requirements.

Integral Drum & Shaft Design

- Large-diameter, welded-steel drum, featuring outside flange anchors, promotes uniform winding and life of wire rope.
- Anchors allow cable to be over or under wound and provide multiple drum exit angles.
- Flange-style, self-aligning roller bearings with cast-iron housing maintain smooth drum rotation.
- Continuous, solid-steel drum shaft and steel frame provide optimal strength and security.
- Complete wire rope assemblies available upon request.

Load-Holding Motor Disk Brake

- Spring-set, electrically-released brake helps control loads and facilitates safe operation.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Clutch
4HS6M	2,290 kg 6,600 lbs	1.5–5.5 kW 2–7.5 hp	3–11 mpm 13–39 fpm	9.7 mm 3/8 in	259 m 850 ft	Yes
4HS11M	4,985 kg 11,000 lbs	3.7–7.5 kW 5–10 hp	4–8 mpm 15–27 fpm	12.7 mm 1/2 in	356 m 1,170 ft	Yes
4HS16M	7,300 kg 16,100 lbs	3.7–11 kW 5–15 hp	3–11 mpm 11–37 fpm	14.2 mm 9/16 in	466 m 1,530 ft	Yes
4HS26M	11,790 kg 26,000 lbs	7.5–15 kW 10–20 hp	3–8 mpm 13–29 fpm	22.4 mm 7/8 in	326 m 1,070 ft	Yes

MATERIAL HANDLING

BTS THERN® Winches & Cranes

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Winches & Cranes

4HWF SERIES

HEAVY-DUTY ELECTRIC POWER WINCHES

HELICAL/WORM GEARS

Enhance Load Control & Positioning Accuracy

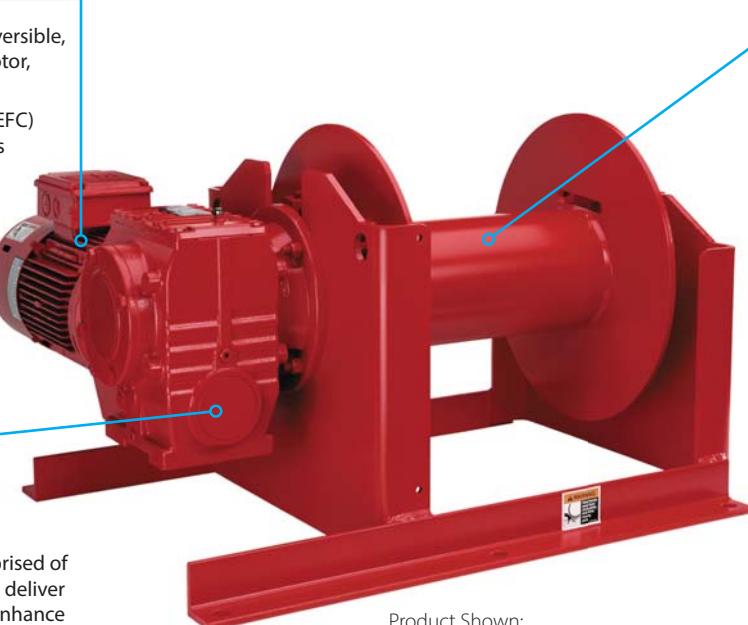
The 4HWF Series of power winches 680 to 3,670 kg (1,500 to 8,000 pounds) is designed to lift, lower, pull, or position heavy loads. A combination of directly driven, helical and worm gears, minimises maintenance while delivering dependable operation. A modular design allows easy customisation to exact customer specifications. These winches are perfect for extreme environments, hard-to-reach locations, and operations requiring high-duty cycles/continuous use. Typical applications include shipboard winches, mining, construction, rail yards, wind turbines, and cargo handling facilities.

Flange-Mounted Premium Motor & Enclosure

- Energy-efficient 230/460 volt, reversible, three-phase, industrial-grade motor, endures continuous use.
- A totally enclosed, fan-cooled (TEFC) design, featuring IP66 and F-class insulation, resists debris and contamination for long service life.
- Standard motors comply with industry standards: UL, CSA, IEC, and NEMA MG1.

Direct-Drive Gear Reducers & Right-Angle Gearbox Design

- Right-angle gearbox decreases overall product length for tight spaces.
- Direct-drive gear reducers, comprised of heat-treated helical/worm gears, deliver 65 to 76 percent efficiency and enhance load control and positioning.
- Large-capacity bearings enhance smooth operation and durability.
- Sealed, cast-iron gearbox with integral oil bath for rotating gears dissipates heat and provides continuous lubrication for enhanced service life.
- Primary speed reducers meet AGMA and/or DIN standards.



Product Shown:
4HWF1M

Integral Drum & Shaft Design

- Large-diameter, welded-steel drum, featuring outside flange anchors, promotes uniform winding and life of wire rope.
- Anchors allow cable to be over or under wound and provide multiple drum exit angles.
- Flange-style, self-aligning roller bearings with cast-iron housing maintain smooth drum rotation.
- Continuous, solid-steel drum shaft and steel frame provide optimal strength and security.
- Complete wire rope assemblies available upon request.

Load-Holding Motor Disk Brake

- Spring-set, electrically-released brake helps control loads and facilitates safe operation.

Modular Design

- Flexible winch design allows customisation by Thern to meet specific customer requirements.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Clutch
4HWF1M	680 kgs 1,500 lbs	1.1–1.5 kW 1.5–2 hp	7–9 ppm 23–32 fpm	6.4 mm 1/4 in	253 m 830 ft	No
4HWF2M	995 kg 2,200 lbs	1.5–2.2 kW 2–3 hp	6–10 ppm 22–34 fpm	6.4 mm 1/4 in	228 m 750 ft	No
4HWF4M	1,810 kg 4,000 lbs	2.2–3.7 kW 3–5 hp	6–10 ppm 21–35 fpm	7.9 mm 5/16 in	646 m 2,120 ft	No
4HWF6M	2,721 kg 6,000 lbs	3.7–5.5 kW 5–7.5 hp	7–10 ppm 24–35 fpm	11.2 mm 7/16 in	301 m 990 ft	No
4HWF8M	3,670 kg 8,100 lbs	5.5–7.5 kW 7.5–10 hp	8–11 ppm 27–39 fpm	14.2 mm 9/16 in	368 m 1,210 ft	No

MATERIAL HANDLING

BTS THERN® Winches & Cranes

4HPF SERIES

HEAVY-DUTY ELECTRIC POWER WINCHES

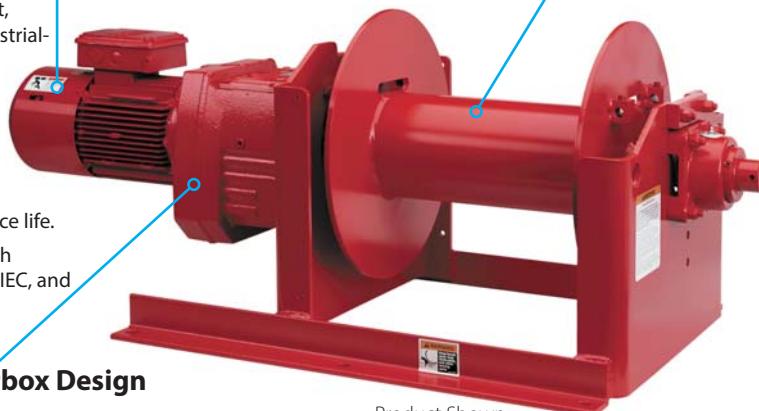
HELICAL/PARALLEL IN-LINE GEARING

for Highly Efficient Load Handling

The 4HPF Series of power winches 2,265 to 11,430 kg (5,000 to 25,000 pounds) is designed for applications requiring long travel distances and fast line speeds. The heat-treated, helical/parallel gear set provides durability and high efficiency—up to 94 percent. A modular design allows configuration to a variety of customer specifications. These winches are ideal for harsh and hazardous environments, including hard-to-reach locations. Typical applications include ship winches, mining, construction, and rail yards.

Energy-Efficient Premium Motor

- Energy-efficient 230/460 volt, reversible, three-phase, industrial-grade motor, endures continuous use.
- A totally enclosed, fan-cooled (TEFC) design, featuring IP66 and F-class insulation, resists debris and contamination for long service life.
- Standard motors comply with industry standards: UL, CSA, IEC, and NEMA MG1.



Product Shown:
4HPF

Durable Gears & Gearbox Design

- Fully enclosed, direct-drive, helical/parallel gear reducers deliver high efficiencies (from 88 to 94 percent) for applications requiring long travel distances and fast line speeds.
- Large-capacity bearings enhance smooth operation and durability.
- Sealed, cast-iron gearbox with integral oil bath for rotating gears dissipates heat and provides continuous lubrication for enhanced service life.
- Primary speed reducers meet AGMA and/or DIN standards.

Integral Drum & Shaft Design

- Large-diameter, welded-steel drum, featuring outside flange anchors, promotes uniform winding and life of wire rope.
- Anchors allow cable to be over or under wound and provide multiple drum exit angles.
- Flange-style, self-aligning roller bearings with cast-iron housing maintain smooth drum rotation.
- Continuous, solid-steel drum shaft and steel frame provide optimal strength and security.
- Complete wire rope assemblies available upon request.

Modular Design

- Common componentry allows the winch to be easily configured to adapt to specific customer requirements.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Clutch
4HPF2M	950 kg 2,100 lbs	.75–1.5 kW 1–2 hp	5–10 mpm 17–34 fpm	6.4 mm 1/4 in	253 m 830 ft	Yes
4HPF3M	1,495 kg 3,300 lbs	1.1–2.2 kW 1.5–3 hp	5–10 mpm 17–34 fpm	6.4 mm 1/4 in	228 m 750 ft	Yes
4HPF5M	2,265 kg 5,000 lbs	2.2–3.7 kW 3–5 hp	6–11 mpm 21–37 fpm	7.9 mm 5/16 in	646 m 2,120 ft	Yes
4HPF7M	3,310 kg 7,300 lbs	3.7–5.5 kW 5–7.5 hp	7–11 mpm 24–38 fpm	11.2 mm 7/16 in	301 m 990 ft	Yes
4HPF9M	4,080 kg 9,000 lbs	3.7–7.5 kW 5–10 hp	6–12 mpm 21–41 fpm	14.2 mm 9/16 in	368 m 1,210 ft	Yes
4HPF15M	6,890 kg 15,200 lbs	7.5–11 kW 10–15 hp	6–10 mpm 22–36 fpm	16 mm 5/8 in	286 m 940 ft	Yes
4HPF20M	9,115 kg 20,100 lbs	7.5–18.5 kW 10–25 hp	5–13 mpm 17–43 fpm	19.1 mm 3/4 in	630 m 2,070 ft	Contact BTS
4HPF25M	11,430 kg 25,200 lbs	11–22 kW 15–30 hp	6–12 mpm 20–42 fpm	25.4 mm 1 in	320 m 1,050 ft	Contact BTS

MATERIAL HANDLING

BTS THERN® Winches & Cranes



4HBP SERIES

HEAVY-DUTY ELECTRIC POWER WINCHES

HIGH-TORQUE PLANETARY GEARING

Moves the Heaviest Loads

The 4HBP Series of power winches 15,875 to 45,359 kg (35,000 to 100,000 pounds) is designed for the heaviest loads that require fast line speeds over long travel distances. Planetary gearing provides high torque in a compact envelope while providing high efficiencies—up to 88 percent. A modular design allows easy customisation to exact customer specifications. Perfect for mining, rail car positioning, and construction.

Modular Design

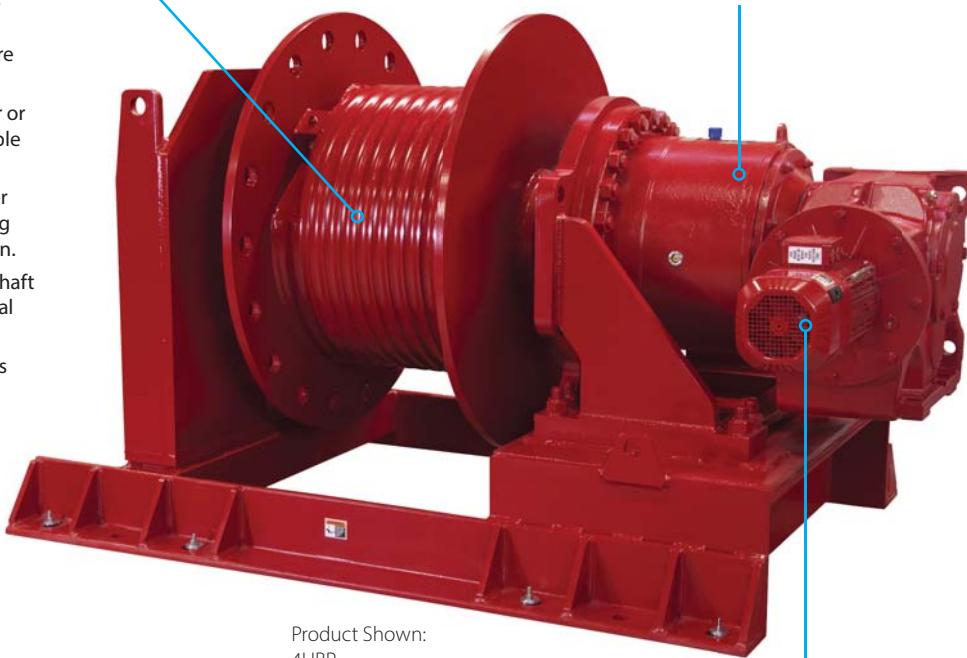
- Flexible winch design allows customisation by Thern to meet specific customer requirements.

Integral Drum & Shaft Design

- Large-diameter, welded-steel drum, featuring outside flange anchors, promotes uniform winding and extends life of wire rope.
- Anchors allow cable to be over or under wound and allow multiple drum exit angles.
- Flange-style, self-aligning roller bearings with cast-iron housing maintain smooth drum rotation.
- Continuous, solid-steel drum shaft and steel frame provide optimal strength and security.
- Complete wire rope assemblies available upon request.

Durable Gears & Gearbox Design

- High-torque, helical-bevel/planetary gears allow high line-load ratings with large drum diameters.
- Fully enclosed, direct-drive gearing delivers dependable operation with minimal maintenance.
- Large-capacity bearings enhance smooth operation and durability.
- Sealed, cast-iron gearbox with integral oil bath for direct-drive gearing dissipates heat and provides continuous lubrication for enhanced service life.
- Primary speed reducers meet AGMA and/or DIN standards.



Product Shown:
4HBP

Load-Holding Motor Disk Brake

- Spring-set, electrically-released brake helps control loads and facilitates safe operation.

Energy-Efficient Premium Motor

- Energy-efficient 230/460 volt, reversible, three-phase, 60-cycle industrial-grade motor endures continuous use. Also available in worldwide power supplies.
- A totally enclosed, fan-cooled (TEFC) design, featuring IP66 and F-class insulation, resists debris and contamination for long service life.
- Standard motors comply with industry standards: UL, CSA, IEC, and NEMA MG1.

Series	Load Rating	Power Supply	Line Speed	Drum Capacity	Clutch
4HBP	45,000 kg 100,000 lbs	11–75 kW 15–100 hp	3–30 mpm 10–100 fpm	300 m 1,000 ft	No

MATERIAL HANDLING

BTS THERN® Winches & Cranes

MINI TA SERIES

LIGHT-DUTY AIR WINCHES

POWER & UTILITY

for Multiple Tasks & Environments

The Mini TA Series of air winches 635 or 1,225 Kg (1,400- or 2,700-pound capacity) or "tuggers" are the utility players on construction and mining sites, as well as on oil and gas rigs. Compact envelopes and variable-speed operation make lifting, moving, and positioning materials fast and easy. They're ideal in hazardous environments or when access to three-phase electrical sources is limited. You can count on smooth control and variable-speed operation for precise spotting and long lifts.

Smooth Operation

- Anti-friction ball bearings, equipped with grease zerks, provide smooth operation and long life.
- Variable-speed control smooths operation for precise spotting and long lifts.

Product Shown:
MTA1000



Standard Convenience Features

- Bolt-together construction promotes easy maintenance, repair, and customisation.
- Lifting eyes with rounded edges provide easy positioning while extending sling life.

Automatic or Manual Band Brake

- Lever engaged/disengaged manual band brake for simple operation.
- Automatic band brake enhances operator autonomy. Brake releases upon activation and sets when power is removed, or the control is released.

Flexible Operation

- Available winch/valve-mounted manual control lever.
- Operator-friendly, remote pendant control (up to 20 feet) with E-Stop reduces operator fatigue (due to vibration) and promotes freedom of movement for better load/task visibility.

Corrosion Protection

- Red enamel coating with zinc-plated hardware resists the elements for longer wear. Optional three-part epoxy coating is available for corrosive environments.

Power Dense Radial Piston Motor & Cycloidal Drive

- Internally lubricated for reliable operation and long service life.
- Reversible, high-torque design allows precise yet flexible operation.
- Drive design provides superior working speed, efficiency, and shock protection.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Clutch
MTA1000	635 kg 1,400 lbs	1 kW 1.35 hp	9.1 mpm 30 fpm	6.3 mm 1/4 in	57.9 m 190 ft	No
MTA2000	1,225 kg 2,700 lbs	2.6 kW 3.5 hp	12.2 mpm 40 fpm	9.5 mm 3/8 in	67.0 m 220 ft	No
MTA2000L	1,225 kg 2,700 lbs	2.6 kW 3.5 hp	12.2 mpm 40 fpm	9.5 mm 3/8 in	176.7 m 580 ft	No

MATERIAL HANDLING

BTS THERN® Winches & Cranes

bts **Thern**
Winches & Cranes

C SERIES

HEAVY-DUTY AIR WINCHES

DESIGNED TO DNV STANDARDS

for Reliability, Safety & the Environment

The C Series of air winches up to 9,975 kg (up to 22,000 pounds) is designed for harsh offshore environments. Numerous pre-designed options and accessories allow for quick turnaround of orders and enhance versatility to meet a variety of needs. Specify the CE Package to meet European Union requirements. Lift, lower, pull, or position loads with precision and confidence. Perfect for marine and oil and gas applications.

Flexible Operation & Control

- High-torque, helical-bevel/planetary gears allow high line-load ratings with large drum diameters.
- Fully enclosed, direct-drive gearing delivers dependable operation with minimal maintenance.
- Large-capacity bearings enhance smooth operation and durability.
- Sealed, cast-iron gearbox with integral oil bath for direct-drive gearing dissipates heat and provides continuous lubrication for enhanced service life.
- Primary speed reducers meet AGMA and/or DIN standards.

Durable Gears & Compact Gearbox Design

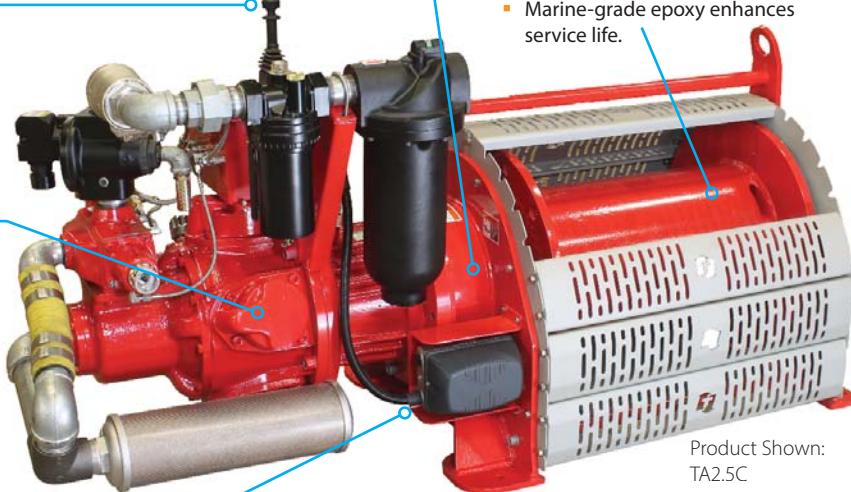
- Gearbox location within the drum and high-efficiency planetary gearing provides high torque and enhanced power in a compact envelope.
- Oil bath, featuring double-lip seals, provides continuous lubrication for gears, minimises heat, and increases service life while resisting contamination.

High-Strength Steel, Epoxy-Coated Construction

- Welded steel frame and drum components provide superior durability.
- Large diameter drums promote long rope life.
- Multiple drum widths accommodate various load travel distances and fleet angles.
- Marine-grade epoxy enhances service life.

Power Dense Radial Piston Motor

- Internally lubricated for reliability and exceptionally long service life.
- Reversible, high-torque design allows precise yet flexible operation.
- Powerful performance allows high capacity and faster line speeds.



Product Shown:
TA2.5C

Automatic Disc Brake

- Spring-engaged, air-pressure released, and oil-cooled design enhance operator autonomy and promote extended duty cycles and long life.
- Automatic brake releases upon activation and sets when power is removed or the controls are released for easier operation.
- Sealed oil bath minimises heat and prevents contamination for reliable operation.

Standard Safety & Convenience Features

- E-Stop and mounted regulator overload protection enhance safe operation.
- Nord-Lock® washers prevent fasteners from loosening during operation.
- Easy-access oil drain and fill plug promote ease of maintenance.
- Wedge-style rope anchor promotes easy on-site rope installation for under- or over-wound applications.
- Removable lifting eyes reduce winch height for compact installation.
- Removable cross bars provide improved wire rope exit angles.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity
TA 2.5 C	2,490 kg 5,500 lbs	17.5 kW 23.5 hp	33.8 mpm 111 fpm	16 mm 5/8 in	103 m 340 ft
TA 5 C	4,985 kg 11,000 lbs	16.2 kW 21.7 hp	13.7 mpm 45 fpm	19.1 mm 3/4 in	210 m 690 ft
TA 10 C	9,975 kg 22,000 lbs	20.6 kW 27.64 hp	7.3 mpm 24 fpm	28.6 mm 1-1/8 in	207 m 680 ft

MATERIAL HANDLING

BTS THERN® Winches & Cranes

BIG RED SERIES

HEAVY-DUTY AIR WINCHES

POWER & VERSATILITY

Configured Your Way to Suit Any Job

The Big Red Series of air winches 3,265 to 16,780 kg (7,200 to 37,000 pounds) is designed to lift, lower, pull, or position heavy loads in the harshest environments. Numerous options and accessories allow customisation to meet your specific needs—but at off-the-shelf lead-times. A heavy-duty radial piston motor and multiple control and brake configurations make it perfect for marine, mining, construction, and oil and gas applications.

Robust Frame & Drum

- Welded steel frame and drum components provide superior durability.
- Multiple drum widths increase rope life and accommodate various load travel distances and fleet angles.

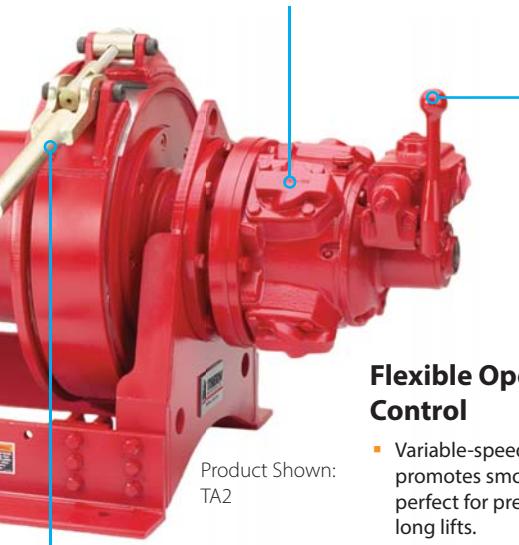
Durable Gears & Compact Gearbox Designs

- Gearbox location within the drum and high-efficiency planetary gearing provides high torque and enhanced power in a compact envelope.
- Oil bath, featuring double-lip seals, provides continuous lubrication for gears, minimises heat, and increases service life while resisting contamination.



Power Dense Radial Piston Motor

- Internally lubricated for reliability and exceptionally long service life.
- Reversible, high-torque design allows precise yet flexible operation.
- Powerful operation allows high capacity and faster line speeds.



Product Shown:
TA2

Flexible Operation & Control

- Variable-speed control promotes smooth operation—perfect for precise spotting and long lifts.
- Available manual-control lever simplifies operation.
- Operator-friendly, remote pendant control (up to 50 feet) reduces operator fatigue (due to vibration) and promotes freedom of movement for better load/task visibility.

Multiple Brake Configurations

- Lever engaged/disengaged band brake for simple operation.
- Automatic band brake enhances operator autonomy.
- Sealed, automatic multi-disk brake, featuring continuous lubrication, allows extended duty cycles and resists contamination—ideal for corrosive and dirty environments.

Series	Load Rating	Power Supply	Line Speed	Wire Rope Dia.	Drum Capacity	Clutch
TA2	3,265 kg 7,200 lbs	5.3 kW 7.1 hp	9 mpm 30 fpm	12.7 mm 1/2 in	385 m 1,270 ft	No
TA2H	1,630 kg 3,600 lbs	5.3 kW 7.1 hp	18.5 mpm 61 fpm	12.7 mm 1/2 in	385 m 1,270 ft	No
TA2.5	3,265 kg 7,200 lbs	13.6 kW 18.3 hp	24 mpm 79 fpm	16 mm 5/8 in	260 m 860 ft	No
TA5	8,160 kg 18,000 lbs	13.3 kW 17.8 hp	9 mpm 30 fpm	19.1 mm 3/4 in	460 m 1,520 ft	No
TA7	10,700 kg 23,600 lbs	10.7 kW 14.4 hp	5.5 mpm 19 fpm	22.4 mm 7/8 in	525 m 1,730 ft	No
TA10	16,780 kg 37,000 lbs	20 kW 27 hp	6 mpm 20 fpm	28.7 mm 1-1/8 in	845 m 2,780 ft	No



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 ISO9001-2015 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, EN & ANSI 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), EN & ANSI.
- Hardness testing (HRC, BHN & HV)
- Charpy impact testing

We also offer:

- On-site testing and inspections
- Hydraulic testing of Height Safety anchor points
- Fast turn around with competitive rates
- Setting up and maintenance of Testing and Equipment registers
- Issuing of test certificates

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