

VOLUME
4

IRON MAN
INDUSTRIAL SAFETY HARNESSES®



SABS
APPROVED

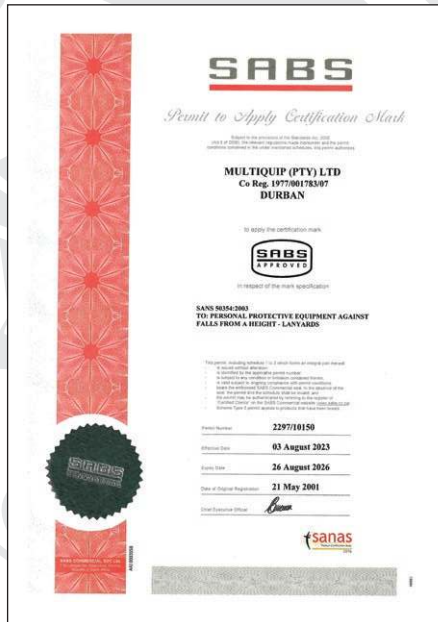
ISO 9001 : 2015



ISO 9001 : 2015 CERTIFICATE



PERMIT - SANS 809 : 2011



PERMIT - SANS 50354 : 2003



PERMIT - SANS 50355 : 2003



PERMIT - SANS 50358 : 2008



PERMIT - SANS 50361 : 2003



PERMIT - SANS 50566 : 1997



IRON MAN®

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***Harnesses can be manufactured using:
 Flame Retardant / Anti-Static / Webbing***



IRON MAN[®]

FULL BODY HARNESS WITH WAIST BELT



HD-SERIES

HD / PLAIN

- Full body harness, with waist belt - no lanyard.
- 45mm Chest strap with 2 part interlocking buckle.
- SANS 50361.



HD / SINGLE / SNAP HOOK

- Full body harness with waist belt.
- Webbing lanyard with safety snap hook and shock absorbing element.
- Lanyard length - maximum, including shock absorbing element, of 1,75m.
- SANS 50354, 50355 and 50361.

HD / DOUBLE / SCAFFOLD HOOK

- Full body harness with waist belt.
- Double webbing lanyard with scaffold hooks, permanently attached.
- Lanyard length - maximum, including shock absorbing element, of 1,75m.
- SANS 50354, 50355 and 50361.

SEE PAGE 21 FOR HOOK / CONNECTOR
OPTIONS





IRON MAN®

FULL BODY HARNESS WITHOUT WAIST BELT



HE-SERIES

HE / PLAIN

- Full body harness without waist belt or lanyard.
- 45mm webbing with 45mm 2 part interlocking buckle on chest strap.
- SANS 50361.



HE / SINGLE / SNAP HOOK

- Full body harness without waist belt.
- Webbing lanyard with safety snap hook and shock absorbing element.
- Lanyard length - maximum, including shock absorbing element, of 1,75m.
- SANS 50354, 50355 and 50361.

LADIES HARNESS

- Kidney support.
- For a more comfortable fit, specially designed for ladies.
- Allowing extra room in strategic areas while providing support and comfort.
- SANS 50354, 50355 and 50361.





IRON MAN® FULL BODY HARNESS



SPARTAN

- Full body harness without waist belt.
- Double leg lanyard with shock absorbing element and scaffold hooks.
- SANS 50354, 50355 and 50361.



SPARTAN PLUS

- Full body harness with waist belt and lumbar support.
- Double leg lanyard with shock absorbing element and scaffold hooks.
- SANS 50354, 50355 and 50361.



CONSTRUCTION 10 HARNESS

- Full body harness with padded shoulder and leg straps.
- Standing step-in strap in pouch on leg strap.
- Attachment points on back and chest.
- Supplied with double leg shock absorbing lanyard with scaffold hooks.
- Supplied with restraint lanyard.
- SANS 50354, 50355 and 50361.



IRON MAN® FULL BODY HARNESS



ERGOLD HIGH MASTER

- Full body harness with kidney support.
- 2 x Attachment points - 1 x front and 1 x back.
- Work positioning attachment points on hips.
- Padded waist belt with 2 x work positioning attachment points on either side of the kidney support.
- 45mm Anti-static and flame retardant webbing.
- SANS 50358 and 50361.



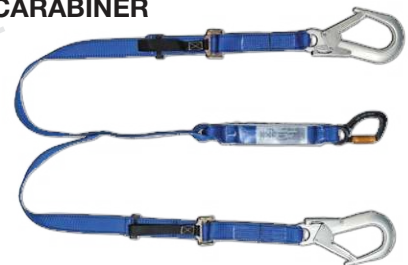
ERGOLD 2 POINT

- Full body harness without waist belt or lanyard.
- 45mm Anti-static and flame retardant webbing.
- 2 x Attachment points - 1 x front and 1 x back.
- SANS 50361.



ERGOLD DBL (ADJ.) LANYARD / SAE / ALUMINIUM PYLON HOOKS / CARABINER

- Double leg webbing lanyard up to a maximum of 1,75m overall length with a shock absorbing element with pylon hooks.
- Adjustable.
- SANS 50354 and 50355.



ERGOLD DBL (ADJ.) LANYARD / SAE / SCAFFOLD HOOKS / SNAP HOOK

- Double leg webbing lanyard up to a maximum of 1,75m overall length with a shock absorbing element with scaffold hooks.
- Adjustable.
- SANS 50354 and 50355.



IRON MAN®

FULL BODY HARNESS

MINETEC 300 / 400 / 450 / 500



MINETEC 300

- Full body harness with padded shoulders and a kidney support - **leg straps with no padding**.
- 3 x Attachment points - 2 x front and 1 x back.
- D-ring on chest strap for rescue.
- Supplied with detachable double leg shock absorbing lanyard with scaffold hooks.
- Standing step-up strap in pouch on waist belt.
- SANS 50354, 50355 and 50361.



MINETEC 400

- Full body harness with **padded shoulder and leg straps** and a kidney support.
- 3 x Attachment points - 2 x front and 1 x back.
- D-ring on chest strap for rescue.
- Supplied with detachable double leg shock absorbing lanyard with scaffold hooks.
- Standing step-up strap in pouch on waist belt.
- SANS 50354, 50355 and 50361.



MINETEC 450

- Full body harness with **padded shoulder and leg straps**, a kidney support and a **double battery strap** on waist belt.
- 3 x Attachment points - 2 x front and 1 x back.
- D-ring on chest strap for rescue.
- Supplied with detachable double leg shock absorbing lanyard with scaffold hooks.
- Standing step-up strap in pouch on waist belt.
- SANS 50354, 50355 and 50361.



MINETEC 500

- Full body harness with **padded shoulder and leg straps, quick release buckles** and a kidney support.
- 3 x Attachment points - 2 x front and 1 x back.
- D-ring on chest strap for rescue.
- Supplied with detachable double leg shock absorbing lanyard with scaffold hooks.
- Standing step-up strap in pouch on waist belt.
- SANS 50354, 50355 and 50361.





IRON MAN® FULL BODY HARNESS



REFINERY

- Full body harness with waist belt.
- 45mm anti-static and flame retardant webbing.
- D-ring attachment point on chest.
- Rescue handles on shoulder straps.
- Double leg lanyard with shock absorbing element and scaffold hooks.
- SANS 50354, 50355 and 50361.

ROPE ACCESS

- Full body, comfort-fit, harness without lanyard.
- Padded shoulder, leg and kidney support.
- 2 x Attachment points - 1 x chest and 1 x back.
- Work positioning attachment points on hips.
- SANS 50358 and 50361.



TRANS-TEC PLUS

- Full body harness with padded shoulder, leg and kidney support.
- 3 x Attachment points - 2 x front and 1 x back.
- Work positioning attachment points on hips.
- Aluminium hardware.
- Quick release buckles.
- SANS 50358 and 50361.



IRON MAN® FULL BODY HARNESS



CLIMBERS

- Full body climber's harness.
- Padded shoulder, leg and waist straps.
- 2 x Attachment points - 1 x chest and 1 x back.
- Work positioning attachment points on hips.
- 3 x Tool loops.
- Elasticated buttock straps.
- For lanyard options, see pages 14 and 15.
- SANS 50358 and 50361.

RIGGERS

- Full body harness with padded shoulder, legs and waist straps.
- 5 x Attachment points.
- Double leg fall arrest lanyard with shock absorbing element and scaffold hooks and stirrup line, or see pages 14 and 15 for other lanyard options.
- SANS 50354, 50355, 50358 and 50361.



AERIAL

- Full body harness without waist belt.
- D-ring attachment on chest.
- Quick release buckles.
- Standing step-up strap on bum strap.
- Double leg lanyard with shock absorbing element and scaffold hooks.
- SANS 50354, 50355 and 50361.



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FULL BODY HARNESS

400-SERIES



HD / Plain 400 Series 1 Point

- Full body harness with 45mm waist belt.
- Single attachment point between shoulder blades.
- 45mm Chest strap with steel 2 part interlocking buckle.
- Extra attachment point between shoulder blades for recovery purposes.
- SANS 50361.

HD / Plain 400 Series 3 Point

- Full body harness with 45mm waist belt.
- 3 x Attachment points:
1 x between shoulder blades and 2 x on chest.
- 45mm Chest strap with steel 2 part interlocking buckle.
- Extra attachment point between shoulder blades for recovery purposes.
- SANS 50361.



HD / Plain 400 Series 5 Point

- Full body harness with 45mm waist belt.
- 3 x Attachment points:
1 x between shoulder blades;
2 x on chest.
- Work positioning attachment points on hips.
- Kidney support - permanently attached to waist belt.
- 45mm Chest strap with steel 2 part interlocking buckle.
- SANS 50358 and 50361.



IRON MAN® FULL BODY HARNESS RITE-ON



RITE-ON HARNESS

- Full body harness with waist belt and padded shoulders.
- 2 x Attachment points:
 - 1 x on front;
 - 1 x on back.
- Quick release buckles on legs, chest and waist.
- Standing step-up strap on leg strap.
- SANS 50354, 50355 and 50361.



DOUBLE WEBBING LANYARD / SAE / SCAFFOLD HOOK

- Double leg webbing lanyard with shock absorbing element.
- Terminating with scaffold hooks.
- Comes in lengths of 800mm, 1m, 1,6m and 1,75m.
- SANS 50354 and 50355.



DOUBLE WEBBING LANYARD / SAE / SNAP HOOK

- Double leg webbing lanyard with shock absorbing element.
- Terminating with snap hooks.
- Comes in lengths of 1m, 1,6m and 1,75m.
- SANS 50354 and 50355.



SINGLE WEBBING LANYARD / SAE / SNAP HOOK

- Single leg webbing lanyard with shock absorbing element.
- Terminating with snap hooks.
- Comes in length of 1m, 1,6m and 1,75m.
- SANS 50354 and 50355.



IRON MAN® FULL BODY HARNESS RBM



RBM HARNESS

- Full body harness with padded shoulder and waist belt.
- 2 x Attachment points:
 - 1 x on front;
 - 1 x on back.
- Quick release buckles on legs and chest.
- Standing step-up strap on waist belt.
- SANS 50354, 50355 and 50361.



1,6M DOUBLE WEBBING LANYARD / SAE / SCAFFOLD HOOKS

- Double leg webbing lanyard up to 1,6m overall length with shock absorbing element.
- Terminating with scaffold hooks.
- Fall indicator.
- SANS 50354 and 50355.



DOUBLE WEBBING LANYARD / SAE / SCAFFOLD HOOKS

- Double leg webbing lanyard up to 1m overall length with shock absorbing element.
- Terminating with scaffold hooks.
- Fall indicator.
- Comes in lengths of 800mm and 1m.
- SANS 50354 and 50355.



IRON MAN® FULL BODY HARNESS TRANSNET



MPH 5 KIT

- Full body harness.
- Aluminium hardware.
- 3 x Attachment points:
 - 2 x on front;
 - 1 x on back.
- Work positioning attachment point on hips.
- Anti-Static / non-conductive / flame retarded webbing with reflective strip.
- Padded shoulders, legs and waist.
- Standing step-up strap in pouch on waist belt.
- SANS 50358 and 50361.



2M ADJUSTABLE WORK POSITIONING WEBBING LANYARD

- 2 x Aluminium carabiners with twist lock and dedicated eye.
- SANS 50354 and 50355.



1,5M ADJUSTABLE DOUBLE LEG WEBBING LANYARD

- Shock absorbing element.
- Carabiner for attachment to harness.
- 2 x Aluminium pylon hooks.
- SANS 50354 and 50355.



WEBBING ATTACHMENT STRAP

- 1,5m pull-to-pull.
- SANS 50366.



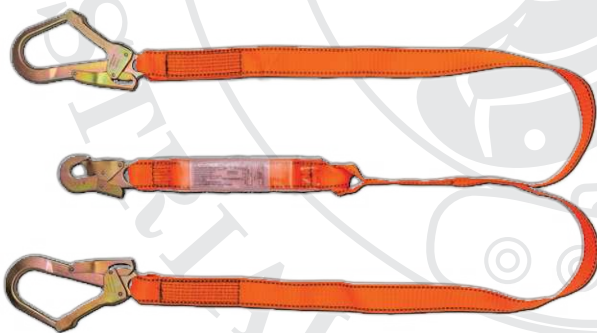
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FULL BODY HARNESS PYLON FALL ARREST KIT



PYLON HARNESS

- Full body harness with padded waist belt.
- Galvanized high tensile steel hardware and connectors.
- 2 x Fall arrest attachment points:
 - 1 x on chest;
 - 1 x on back.
- 2 x Work positioning attachment point on hips.
- SANS 50358 and 50361.



DOUBLE LEG WEBBING FALL ARREST LANYARD

- Shock absorbing element.
- 2 x High tensile steel scaffold hooks.
- SANS 50354 and 50355.



ADJUSTABLE WORK POSITIONING WEBBING LANYARD

- 2 x High tensile steel safety snap hooks.
- SANS 50354 and 50355.



WEBBING ATTACHMENT STRAP

- 1,5m pull-to-pull.
- SANS 50366.

HOLD ALL BAG

- PVC Bag.





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LANYARDS

WITH SHOCK ABSORBING ELEMENT



SINGLE WEBBING LANYARD / SAE / SNAP HOOKS



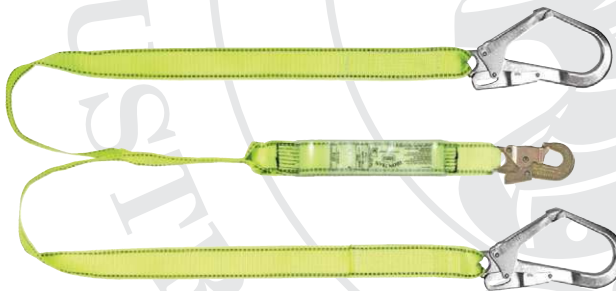
- Webbing lanyard up to a maximum of 1,75m overall length with shock absorbing element.
- Terminating with safety snap hooks.
(Note: Any of the connectors shown on page 21 may be attached to these lanyards).
- SANS 50354 and 50355.

SINGLE ROPE LANYARD / SAE / SNAP HOOKS

- 12mm Nylon rope lanyard up to a maximum of 1,75m overall length with shock absorbing element.
- Types:
 1. Nylon - 12mm.
 2. Kernmantle - 11mm.
- Terminating with safety snap hooks.
- SANS 50354 and 50355.



DOUBLE WEBBING LANYARD / SAE / SCAFFOLD HOOKS



- Double leg webbing lanyard up to a maximum of 1,75m overall length with shock absorbing element.
- Terminating with scaffold hooks.
- SANS 50354 and 50355.

DOUBLE (ADJ) WEBBING LANYARD / SAE / SCAFFOLD HOOKS

- Double leg webbing lanyard up to a maximum of 1,75m overall length with shock absorbing element.
- Adjustable.
- Terminating with scaffold hooks.
- SANS 50354 and 50355.



DOUBLE (ELASTICATED) WEBBING LANYARD / SAE / SCAFFOLD HOOKS

- Elasticated webbing lanyard up to a maximum of 1,75m overall length with shock absorbing element.
- Terminating with scaffold hooks.
- SANS 50354 and 50355.



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LANYARDS WITH SHOCK ABSORBING ELEMENT



SINGLE STEEL WIRE ROPE / SAE / SNAP HOOKS

- Wire rope lanyard up to 1,75m overall length with shock absorbing element.
- Terminating with snap hook.
- SANS 50354 and 50355.

SINGLE WEBBING LANYARD / SAE / SCAFFOLD HOOK / STIRRUP LINE

- Webbing lanyard with shock absorbing element, up to a maximum of 1,75m overall length.
- With stirrup line.
- Terminating with safety snap hook one end, scaffold hook on the other end.
- SANS 50354 and 50355.



WITHOUT SHOCK ABSORBING ELEMENT *(NOT TO BE USED FOR FALL ARREST PURPOSES)*



SINGLE WEBBING LANYARD / SNAP HOOKS

- Webbing lanyard up to a maximum of 1,75m overall length - no shock absorbing element.
- Terminating with safety snap hooks.
- **For work positioning or restraint purposes only.**
- SANS 50354.

SINGLE ROPE LANYARD / CARABINER

- 12mm Nylon rope lanyard up to a maximum of 2m overall length - no shock absorbing element.
- Terminating with aluminium carabiner hooks.
- **For work positioning or restraint purposes only.**
- SANS 50354.



WORK POSITIONING LANYARD

- Adjustable webbing lanyard up to 2m overall length - no shock absorbing element.
- Terminating with aluminium alloy carabiners with twist lock.
- **For work positioning or restraint purposes only.**
- SANS 50354.



SELF RECOVERY STIRRUP LINES



DESCRIPTION OF HAZARD - SUSPENSION TRAUMA

Orthostatic intolerance may be experienced by workers using fall arrest systems. Following a fall, a worker may remain suspended in the harness. The sustained immobility may lead to a state of unconsciousness. Depending on the length of time the suspended worker is unconscious / immobile and the level of venous pooling, the resulting orthostatic intolerance may lead to death. While not common, such fatalities often are referred to as **“harness-induced pathology”** or **“suspension trauma”**.



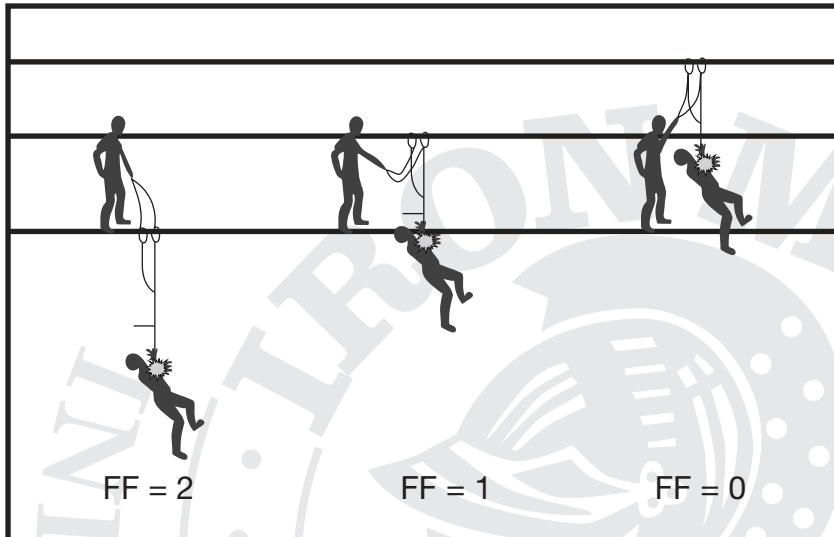
SOLUTION

A temporary solution to this potential hazard is the inclusion of the Self Recovery Stirrup Line. When deployed, the worker then steps into the appropriate loop on the vertical line and stands up, the pressure exerted in the groin area by the straps supporting the body is released. As a result of this, and the ability to move the legs, the blood supply to the upper body is restored.



TECHNICAL PRINCIPLES

Fall Factor (FF)

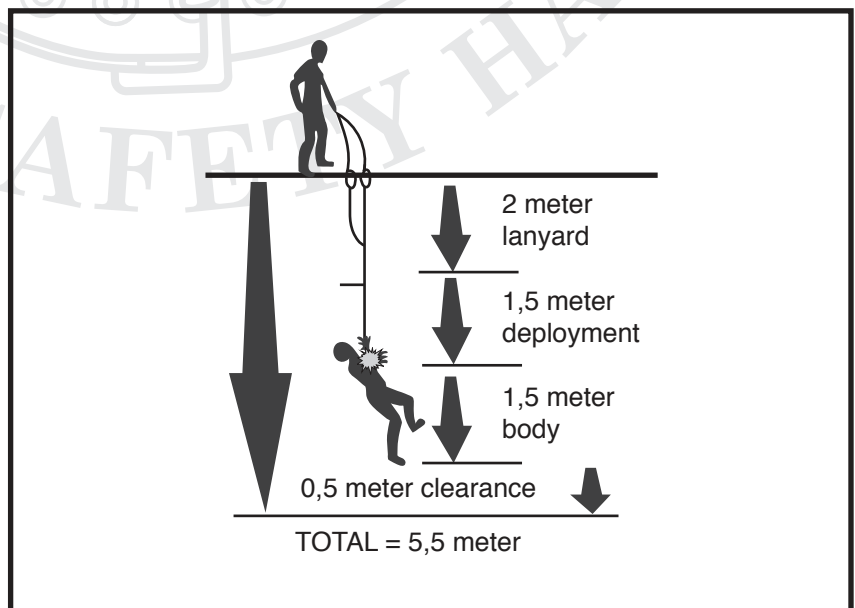


Fall arrest systems are designed to limit the extent of a person's fall. This is achieved by absorbing the energy generated in the fall by applying an arresting force to the faller over a distance i.e. the 'arrest distance'. In order to prevent the possibility of collision, there must be a sufficient free space directly under the user for the fall to be arrested in i.e. the free space must be greater than the arrest distance. Free space means that the path of fall is free from obstacles.

This free space is called MFS and is defined as the vertical distance measured from the anchorage, (where the lanyard attaches to the structure), to the ground level, the next lower substantive platform, or nearest significant obstacle, depending upon the application. Application of the MFS ensures the safe arrest of a faller and avoids the possibility of collision.

Minimum Free Space When Anchoring Beneath You

Using the Energy Absorbing Lanyard and Safety Harness Fall Arrest System, the MFS is determined by considering a number of factors. It is mainly dependent upon the length of the free fall, (the distance a faller could fall through before the lanyard becomes taut and operates the energy absorber), and to a lesser extent, the mass of the faller.





IRON MAN®

WORK POSITIONING BELTS



HC / STD / SPWS - SNAP HOOK

- 75mm Waist belt with **single pin buckle** and kidney support.
- Sizes - small, medium and large.
- Fitted with 6-tool loops.
- 2m Webbing lanyard permanently attached to a D-Ring.
- Wear sleeve on lanyard.
- Terminating with safety snap hook.
- SANS 50354 and 50358.



HC / UNI / DPWS - CARABINER

- 75mm Waist belt with **double pin buckle** and kidney support.
- Fitted with 6-tool loops.
- 2m Webbing lanyard permanently attached to a D-Ring.
- Wear sleeve on lanyard.
- Terminating with aluminium screw gate carabiner hook.
- SANS 50354 and 50358.

MINERS CAPLAMP BELTS (NON SABS)



- 45mm Webbing shoulder straps.
- With EVA kidney support.
- Double battery strap.



CB8

- 45mm black webbing with 2-part interlocking buckle.



CDC 73 S/S

- As for CDC 73 but with adjustable shoulder straps.

Extract from SANS 809 : 2011 paragraph 4 page 5.

"In order to ensure fitness-to-purpose suppliers and users are notified that the type of belt described in this standard shall not be used where there is a risk of free fall, i.e. as part of a fall-arrest system."



HA / 3 / RESTRAINT BELT

- 75mm Webbing waist belt on padded kidney support.
- 2 x D-Rings.
- Detachable, adjustable webbing lanyard with snap hooks.
- SANS 809 : 2011



HA / 5 / RESTRAINT BELT

- 75mm Double layer webbing waist belt with 75mm 2 part interlocking buckle.
- 1,8m x 45mm Webbing lanyard terminating with safety snap hook.
- SANS 809 : 2011



HA / 7 / RESTRAINT BELT

- 75mm Double layer webbing waist belt with 75mm 2 part interlocking buckle.
- 1,8m x 12mm \varnothing Nylon rope lanyard terminating with safety snap hook.
- SANS 809 : 2011.



ATTACHMENT STRAPS



WEBBING ATTACHMENT

- Webbing attachment strap.
- Loop / soft eye on one end, hard eye on other end, reeveable.
- Length to be determined, i.e. 1m, 2m, etc.
- Always wrap excess webbing around anchor point to ensure effective length of harness lanyard is not increased.
- Complies with SANS 50566.



STEEL WIRE ROPE ATTACHMENT

- PVC covered wire rope with attachment point.
- Thimble eyes at each end.
- Length to be determined, i.e. 1m, 2m, etc.
- Always wrap excess cable around anchor point to ensure effective length of harness lanyard is not increased.
- Complies with 50566.



DUPLEX / LAYFLAT ATTACHMENT

- Webbing attachment strap.
- Soft eye on each end.
- Length to be determined, i.e. 1m, 2m, etc.
- Always wrap excess webbing around anchor point to ensure effective length of harness lanyard is not increased.
- Complies with SANS 50566.



D-RING ATTACHMENT

- Webbing attachment strap.
- D-rings on both ends.
- Length to be determined, i.e. 1m, 2m, etc. or any length required.
- Always wrap excess webbing around anchor point to ensure effective length of harness lanyard is not increased.
- Complies with SANS 50566.



ESKOM ATTACHMENT

- Webbing attachment strap.
- Length to be determined, i.e. 1m, 2m, etc.
- Always wrap excess webbing around anchor point to ensure effective length of harness lanyard is not increased.
- Complies with SANS 50566.





IRON MAN®

CONNECTORS

(Manufactured to EN 362:2004 Standard)



OVAL CARABINER WITH NUT

- Diameter: 10mm
- Throat opening: 17mm
- Material: High tensile steel
- Minimum breaking load: 25kN
- Finish: Zinc plated
- Code: S-507
- SANS 50362

SAFETY SNAP HOOK

- Throat opening: 18mm
- Material: High tensile steel
- Minimum breaking load: 23kN
- Finish: Yellow zinc plated
- Code: S-302
- SANS 50362



SCAFFOLD / PYLON HOOK

- Drop forged
- Throat opening: 60mm
- Material: Aluminium alloy
- Minimum breaking load: 22kN
- Finish: Polished
- Code: S-979
- SANS 50362

SCAFFOLD HOOK

- Throat opening: 50mm
- Material: High tensile steel
- Minimum breaking load: 23kN
- Finish: Yellow / Silver zinc plate
- Code: S-634
- SANS 50362



CARABINER WITH TWIST LOCK

- Diameter: 11mm
- Throat opening: 21mm
- Material: Aluminium alloy
- Minimum breaking load: 23kN
- Finish: Anodized
- Code: S-958A
- SANS 50362

CARABINER WITH SCREW GATE

- Diameter: 11mm
- Throat opening: 21mm
- Material: Aluminium alloy
- Minimum breaking load: 23kN
- Finish: Anodized
- Code: S-958AS
- SANS 50362



STAINLESS STEEL CARABINER

- Diameter: 11mm
- Throat opening: 22mm
- Material: Stainless Steel
- Minimum breaking load: 23kN
- Finish: Chrome plate
- With captive pin
- Code: S-958I
- SANS 50362

FORGED CARABINER WITH INTEGRAL EYE

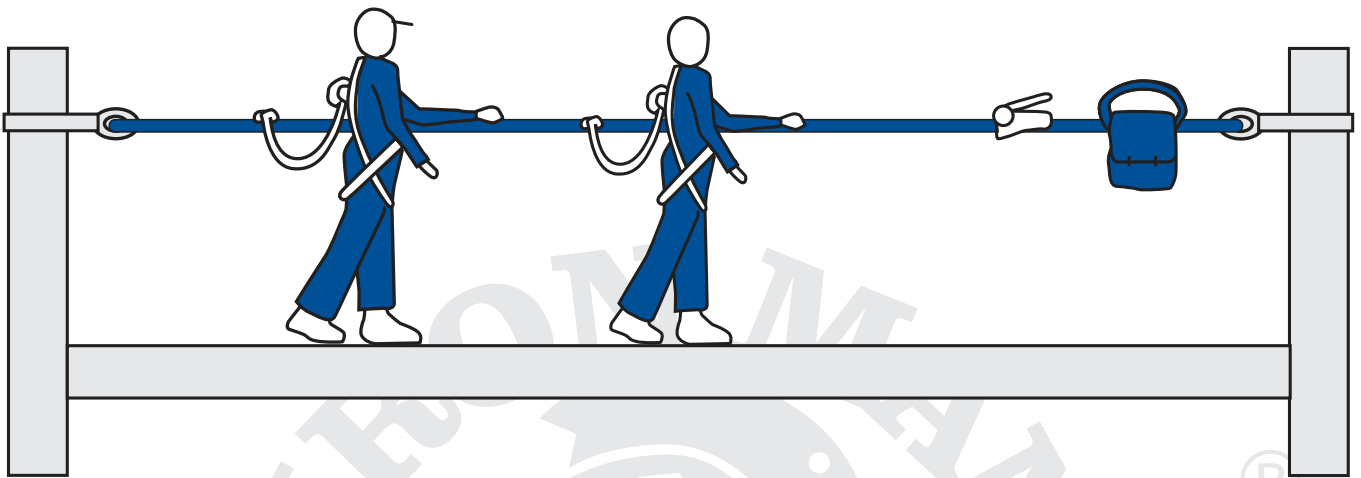
- Twist lock / Self locking
- Throat opening: 22mm
- Material: Aluminium alloy
- Minimum breaking load: 23kN
- Finish: Anodized
- Code: S-2149A
- SANS 50362





ACCESSORIES

STATIC LIFE LINE KITS



ROPE HORIZONTAL LIFE LINE



- | | | | |
|---|--|---|---|
| 1 | 11mm Ø Static rope (longer length on request). | 4 | Lory to maintain tension and terminate end of rope at anchor point. |
| 2 | Hold all bag. | 5 | Oval carabiner for worker's attachment. |
| 3 | 2 x Attachment straps. | | |

WEBBING HORIZONTAL LIFE LINE



- | | | | |
|---|---|---|---|
| 1 | Hold all bag. | 4 | Webbing safety line with hooks on both ends (various lengths available on request). |
| 2 | 2 x Attachment straps. | | |
| 3 | 50mm Ratchet. | | |
| 5 | Oval carabiner for worker's attachment. | | |



ACCESSORIES

VERTICAL LIFE LINES



VERTICAL LIFE LINE

- Vertical rope.
- 11mm Ø Static rope and hook.
- Length on request - other end of rope back spliced.
- Altochute and short lanyard with hook (to attach to worker's harness).
- Optional: PVC (carry-all) bag



KERMANTLE ROPE

- 11mm Ø Kernmantle rope.
- General purpose application hook on both ends or on one end.



NYLON ROPE

- 12 or 16mm Ø Nylon rope.
- General purpose application hook on both ends or on one end.



ACCESSORIES

KIDNEY BELTS

LEATHER KIDNEY BELT LINED WITH ENGINEER'S FELT

- Fit sizes Small to X-Large.
- Buckle closure with preset holes.



EVA KIDNEY BELT

- Fit sizes Small to X-Large.
- Buckle closure with preset holes.



ELASTICATED KIDNEY BELT

- PVC strip reinforced.
- Velcro closure.
- Available in sizes Small, Medium, Large or on request for bigger sizes up to 5-X-Large.



ELASTICATED BACK SUPPORT / KIDNEY BELT

- With or without shoulder straps.
- Velcro closure.
- Available in sizes Small to 5-X-Large.
- Provides support for lower back.





ACCESSORIES

LADDERS / HARNESS / BELT



ROPE LADDER

- 16mm Polypropylene rope.
- Rectangular wooden rungs.
- Length on request.
- Top rope eyes or supplied with shackles or hook spliced into eyes.
- Maximum length: 5m



WIRE ROPE LADDER

- 6mm Galvanized or stainless steel wire rope.
- 25mm Square tube aluminium ladder rungs.
- Length on request.
- Top wire rope soft eyes or supplied with shackles or fitted to eyes.

BRUSH CUTTER'S HARNESS

- Padded shoulder straps with reflective strips.
- Size adjustable.



TREE FELLER'S BELT

- 50mm Waist belt.
- Padded buttocks seat.
- 2 x Attachment points.
- Rope lanyard with wear sleeve and 2 x safety snap hooks.





ACCESSORIES

SYNTHETIC ROPE GRABS

GUIDED TYPE FALL ARRESTER SYSTEMS

For use with 10 or 12mm \varnothing synthetic rope, with or without short nylon rope lanyard and connector.

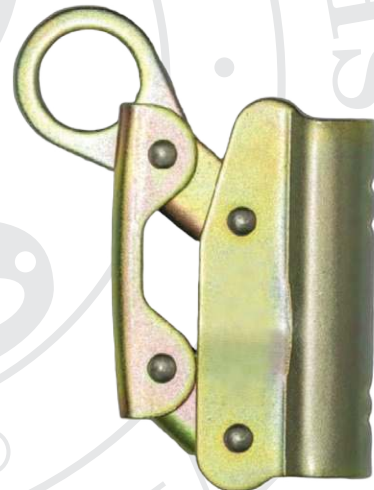


RG02 - REMOVABLE ROPE GRAB FOR STEEL WIRE ROPE

- Material: Stainless Steel
- Minimum Breaking Strength: 15kN
- Finish: Shot Blasted and Electro Polished
- Weight: 473g
- Certified to EN 353-2:2002
- For use with 8mm Stainless Steel Wire Rope.

RG03 - FIXED ROPE GRAB FOR FIBRE ROPE

- Material: Alloy Steel
- Minimum Breaking Strength: 15kN
- Finish: Silver or Golden Yellow Galvanized
- Weight: 447.5g
- Certified to EN 353-2:2002 and EN 358:1999.



RG03 / S-2191ISS - FIXED ROPE GRAB FOR FIBRE ROPE

- Material: Stainless Steel
- Minimum Breaking Strength: 15kN
- Finish: Silver or Golden Yellow Galvanized
- Weight: 447.5g
- Certified to EN 353-2:2002 and EN 358:1999.



ACCESSORIES

SYNTHETIC ROPE GRABS

GUIDED TYPE FALL ARRESTER SYSTEMS

For use with 10 or 12mm \varnothing synthetic rope, with or without short nylon rope lanyard and connector.



RG06 - (ANTI-PANIC) OPENABLE STAINLESS STEEL ROPE GRAB

- Material: Stainless Steel
- Minimum Breaking Strength: 15kN
- Finish: Polished
- Weight: 503g
- Anchorage Eye Diameter: 50mm
- Certified to EN 353-2:2002.

RG07 - OPENABLE ROPE GRAB BLOCKER

- Material: Aluminium Alloy
- Minimum Breaking Strength: 15kN
- Finish: Natural Silver / Coloured Anodized
- Weight: 183g
- Certified to EN 358:1999, EN 353-2:2002 and EN 12841:2006.



HOW TO ASSEMBLE A ROPE GRAB



1. Open the side panel.



2. Feed rope in-between clamps.



3. Close side panels.



4. Connect the carabiner.

ACCESSORIES

DESCENDING DEVICES



ANTHRON LORY

- An abseiling device, complying with EN 341, Class A.
- A rope adjustment device, complying with EN 12841, Type C.

GRIP DESCENDER

- For use with 10,5 or 11mm Ø Kernmantle rope.
- Material: Aluminium Alloy
- Finish: Coloured / Anodized
- Complying with EN 341.



ROPE CLAMP - LEFT

- For use with 10,5 or 11mm Ø Kernmantle rope.
- Material: Aluminium Alloy
- Finish: Coloured / Anodized
- Complying with EN 341.

ROPE CLAMP - RIGHT

- For use with 10,5 or 11mm Ø Kernmantle rope.
- Material: Aluminium Alloy
- Finish: Coloured / Anodized
- Complying with EN 341.





ACCESSORIES

BAGS

PVC BAGS



ESKOM KIT BAG

- Masonite bottom.
- Size: 500mm x 200mm x 190mm



LIFELINE BAG

- Size: 500mm x 400mm x 25mm



WEBBING BAG

- 40mm x 40mm x 15mm

TOOL BAGS



STYLE A

- 3mm Leather bag with shoulder strap.
- Size: 300mm x 300mm x 100mm.



STYLE C

- Chrome Leather bag.
- Size: 240mm x 200mm x 60mm.



STYLE B

- 3mm Leather bag with shoulder strap and provision for attachment to work positioning belt.
- Size: 240mm x 300mm x 80mm.
- 6 x Tool loops.



STYLE D / CANVAS

- Canvas Bag, with hardboard base.
- Small: 440mm x 200mm x 200mm
3 x External pockets.
- Large: 640mm x 200mm x 200mm
5 x External pockets.
- Carry handle and shoulder straps.



ACCESSORIES

TOOL LANYARDS



TYPE A

- 4mm Polyester braid.
- Loop on end to attach to tool.
- Webbing and valcro to attach to wrist - 500mm.



TYPE B

- 19mm Webbing.
- Hook on end to attach to tool.
- Webbing and valcro to attach to wrist - 500mm.



TYPE C

- 25mm Tubular Webbing.
- Hook one end to attach to tool.
- Hook other end to attach to belt loop -
(a) 500mm Long when relaxed.
(b) 650mm Long when extended.



TYPE D

- 25mm Tubular Webbing.
- Hook one end to attach to tool.
- Drawstring other end to attach to belt loop -
(a) 400mm Long when relaxed.
(b) 700mm Long when extended.

REFLECTIVE VEST



- 45 Webbing Shoulder Straps.
- 45mm Waist Belt.

POLE CLIMBING SHOE



- Safe Working Load: 150kg.



ACCESSORIES



SPREADER BAR

- Used for raising and lowering a person during a rescue.
- The attached webbing loops can be used to secure the victim's arms when lifting or lowering them.
- Can be used in conjunction with the pilot chair.



EASY SEAT

- Provides a comfortable seating for extended time during long hours of work, suspended at a height.
- The aluminium reinforcement in the Easy Seat makes it robust yet light in weight, weighing not more than 1,3kg.
- Straps are adjustable.
- Equipped with 3 loops.
- Easily positioned on the back when not in use.
- Soft cushioned sides preventing from cutting into the thighs.
- Webbing straps have a breaking strength of more than 23kN.
- Ergonomics and comfortable working chair.



PILOT CHAIR

- Ergonomic and comfortable working chair.
- For vertical ascent and descent.
- Spreader Bar available as an optional accessory.
- Tested as per EN 1498.



FALL ARRESTOR BLOCKS



MINI BLOCK

- Protective casing.
- Retractable Webbing Width: 47mm
- Has shock absorbing element.
- Supplied with carabiner.
- Minimum Breakage Strength: 15kN
- Maximum Length: 2,5m
- Weight: 1,2kg
- CE Certified.
- Suitable for vertical operation.



MIKRON BLOCK - **SHARP EDGE**

- Casing made up from robust and durable polymer.
- Has in built textile energy absorber with protective cover.
- Attachment: Aluminium swivel quarter turn locking hook, with impact indicator.
- Minimum Breaking Strength: 15kN
- Maximum Length: 2m
- Extremely light in weight - less than 600g (excluding hook).
- CE Certified, conforms to EN 360:2002.
- Suitable for vertical and below horizontal operation (foot level).
- Built in energy absorber - reduces force to below 4kN.



TWIN LEGGED RETRACTABLE LANYARD

- Using the Twin SRL Connector, you can attach directly onto the harness webbing, leaving the dorsal D-Ring available for rescue.
- Minimum Breakage Strength: 15kN





FALL ARRESTOR BLOCKS

Available in lengths of 6m and 8m.



SHARP EDGE FALL ARRESTORS AVAILABLE IN WEBBING AND STEEL WIRE ROPE

- Casing made from high impact strength polymer - to prevent breakage.
- Webbing Width: 25mm
- Anchorage eye with swivel action, prevents undue twist of the rope while working or in the event of a fall.
- Minimum Breakage Strength: greater than 15kN
- Suitable for vertical and horizontal operation.

STEEL WIRE ROPE FALL ARRESTOR SHARP EDGE

- Galvanized steel wire rope with a diameter of 4,8mm.
- Attachment: Snap hook with impact indicator.
- Equipped with external energy absorber to reduce impact of a fall to less than 6kN.
- Minimum Breakage Strength: 12kN
- Suitable for vertical and horizontal operation.



Available in lengths of 6m / 8m and 10m.



STANDARD FALL ARRESTORS AVAILABLE IN WEBBING AND STEEL WIRE ROPE

- Casing made from high impact strength polymer - to prevent breakage.
- Galvanized steel wire rope with a diameter of 4,5mm.
- Anchorage eye with swivel action, prevents undue twist in the rope while working or in the event of a fall.
- Minimum Breakage Strength: 15kN.
- CE Certified.
- Suitable for vertical operation.



Webbing

Available in lengths of 10m and 15m.

Steel Wire Rope

Available in lengths of 15m / 20m / 30m.



RETRIEVABLE FALL ARRESTOR

- Locking pin at the bottom of the handle allows this dual system to work in independent Fall Arrest & Winch modes.
- Attachment: Snap hook with impact indicator.
- Can be easily mounted on the leg of the tripod using specialized brackets. Available with galvanized wire rope.
- Minimum Breaking Strength: 15kN
- Available Length: 30m
- CE Certified.
- Suitable for vertical operation.
-



CONFINED SPACE ACCESSORIES



TRIPOD (10ft.)

- Fully adjustable telescopic legs.
- Fully Adjustable Height From: 1,9m to 3,07m
- Wheelbase Size: 1,7m Diameter
- Weight: 16,8kg
- Maximum Load Capacity: 500kg
- 2 x Pulleys at the head of the tripod for cables.
- 2 x Eye bolts for attachment points.
- Aluminium alloy cast head and legs.
- Steel support shoes provided with rubber sole to improve friction and increased stability.

ACCESSORIES



BRACKET

- For 30m retrieval block.



RETRIEVABLE BLOCK

- See page 33.



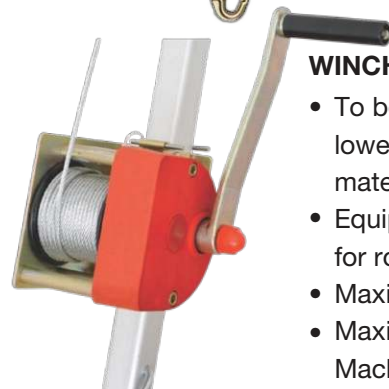
DOUBLE PULLEY

- To be used with retrieval fall arrester blocks.



SINGLE PULLEY

- To be used with retrieval fall arrester blocks.



WINCH

- To be used for raising or lowering of personnel or material into confined areas.
- Equipped with bolting fixture for robust fitting.
- Maximum Lifting Load: 135kg
- Maximum Lifting Load of Machinery: 250kg
- Length: 30m



ACCESSORIES



TELECOMMUNICATION HARNESS

- Eskom Specifications (APPROVED)
- Full body harness with aluminium hardware.
- Padded kidney support permanently attached.
- 3 x Attachment points:
 - 2 x on chest;
 - 1 x on back.
- Work positioning attachment point on hips. (Easy Seat Attachment)
- SANS 50358 and 50361.

EASY SEAT





IRON MAN®

ASSISTED RESCUE KIT



RESCUE POLE

- Used as an extension to rescue a fall victim without descending to the victim for rescue.
- Material: Carbon Fibre
- Maximum Length: 3m
- Minimum Length: 0,75m
- Weight: 900g

The Rescue Kit consists of:

- 1 50m x 11mm kernmantle rope.
- 2 Universal deluxe kit bag.
- 3 Rope clamp - right or left.
- 4 Aluminium double pulley double side attachment.
- 5 Steel quarter turn-locking carabiner.
- 6 Anchorage webbing sling.

ALUMINIUM REBAR HOOK

- Material: Aluminium
- Opening: 60mm
- Minimum Breakage Strength: 23kN
- Weight: 480g
- Finish: Natural Silver / Coloured Anodized
- EN 362:2004, Class A and EN 795:2012, Type B.

ACCESSORIES



TELESCOPIC POLE

- Used to install an anchorage point from a distance.
- Material: Fibre Glass
- Maximum Length: 7,95m
- Minimum Length: 1,95m
- Weight: 3,8kg



HANGING HOOK

- Material: Alloy Steel and Plastic Moulded
- Weight: 190g



HEAD

- Length: 240mm
- Weight: 185g



EXTENSION SECTION

- Length: 1m
- Weight: 425g



ALUMINIUM ANCHORAGE HOOK

- Material: Aluminium Alloy
- Opening: 60mm
- Minimum Breakage Strength: 23kN
- Weight: 480g
- Finish: Natural Silver / Coloured Anodized
- EN 362:2004, Class A and EN 795:2012, Type B.



IRON MAN®

POWERLINES FALL ARREST KIT (D12700)



The Fall Arrest Kit consists of:

- Full body harness with aluminium hardware and 4 x attachment points.
- Anti-Static and Flame Retardant Webbing.
- 1,75m Double leg webbing lanyard including shock absorbing element, 1 x carabiner and 2 x scaffold hooks for fall arrest.
- 2m Adjustable webbing lanyard for work positioning.
- 2 x Attachment straps.
- 12mm Nylon Rope Work Positioning Lanyard.
- Hold-all bag.



HD / Powerlines Harness

- Full body harness with aluminium hardware.
- Anti-Static and Flame Retardant Webbing.
- Padded kidney support permanently attached.
- 2 x Attachment points:
 - 1 x between shoulder blades;
 - 1 x on chest.
- Work positioning attachment points on hips.
- SANS 50358 and 50361.



2 x Webbing Attachment Straps

- 1.75m Pull to pull.
- SANS 50566 and 50795.



12mm Nylon Rope Work Positioning Lanyard

- Carabiner S-2149A;
- Stainless steel twist lock carabiner with captive pin;
- Length: 2m;
- Guided Type Fall Arrester S-2191iSS;
- SANS 50354 and 50358.



1.75m Webbing Lanyard including:

- Shock absorbing element;
- Carabiner S-2149A for attachment to harness;
- 2 x Scaffold hooks S-979 - Aluminium;
- SANS 50354 and 50355.



2m Adjustable Work Positioning Webbing Lanyard

- 2 x Aluminium alloy carabiners S-2149A with twist lock and dedicated eye.
- SANS 50354 and 50358.





IRON MAN®

LIVE LINE FALL ARREST KIT (D12701)



The Live Line Fall Arrest Kit consists of:

- Full body harness with aluminium hardware and 4 x attachment points.
- Anti-Static and Flame Retardant Webbing.
- 1,75m Adjustable double leg webbing lanyard including shock absorbing element, 1 x carabiner and 2 x scaffold hooks for fall arrest.
- 1,75m Adjustable single leg webbing lanyard including shock absorbing element, 1 x carabiner and 1 x scaffold hook for fall arrest.
- 2m Adjustable webbing lanyard for work positioning.
- 2 x Attachment straps.
- 12mm Nylon Rope Work Positioning Lanyard.
- Hold-all bag.



HD / Live Line Harness

- Full body harness with aluminium hardware.
- Anti-Static and Flame Retardant Webbing.
- Padded kidney support permanently attached.
- 2 x Attachment points:
 - 1 x between shoulder blades;
 - 1 x on chest.
- Work positioning attachment points on hips.
- SANS 50358 and 50361.



2 x Webbing Attachment Straps

- 1,75m Pull to pull.
- SANS 50566 and 50795.



12mm Nylon Rope Work Positioning Lanyard

- (a) Carabiner S-2149A;
- (b) Stainless steel twist lock carabiner with captive pin;
- (c) Length: 2m;
- (d) Guided Type Fall Arrester S-2191iSS;
- (e) SANS 50354 and 50358.



1,75m Double Leg Webbing Lanyard including:

- (a) Shock absorbing element;
- (b) Carabiner S-2149A for attachment to harness;
- (c) 2 x Scaffold hooks, S-979 - Aluminium;
- (d) SANS 50354 and 50355.

1,75m Single Leg Webbing Lanyard including:

- (a) Shock absorbing element;
- (b) Carabiner S-2149A for attachment to harness;
- (c) Scaffold hook, S-979 - Aluminium;
- (d) SANS 50354 and 50355.



2m Adjustable Work Positioning Webbing Lanyard

- 2 x Aluminium alloy carabiners S-2149A with twist lock and dedicated eye.
- SANS 50354 and 50358.

RESCUE SYSTEM (D12703)

The Rescue Kit consists of:

- 1 20m or 30m x 11mm static rope.
- 2 1,5m Anchor strap (SANS 50566 and 50795).
- 3 Red hold-all bag.
- 4 Knife.
- 5 Descending Device (EN 341).
- 6 1 x Stainless steel carabiner with captive pin (SANS 50362).



FAS RESCUE KIT (D12704)

The Rescue Kit consists of:

- 1 20m or 30m x 11mm static rope.
- 2 1,5m Anchor strap (SANS 50566 and 50795).
- 3 Red hold-all bag.
- 4 Knife.
- 5 Descending Device (EN 341).
- 6 1 x Stainless steel carabiner with captive pin (EN 362).
- 7 Stirrup line.





ROPE GRAB SYSTEM (D12707)

The Rescue Kit consists of:

- 1 20m or 30m x 11mm static rope.
- 2 Remote pylon hook (EN 362).
- 3 Black hold-all bag.
- 4 Openable rope grab blocker (RG07).
- 5 1 x Stainless steel carabiner with captive pin (EN 362).



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