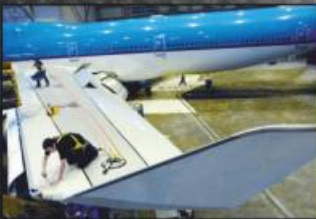


F A S T

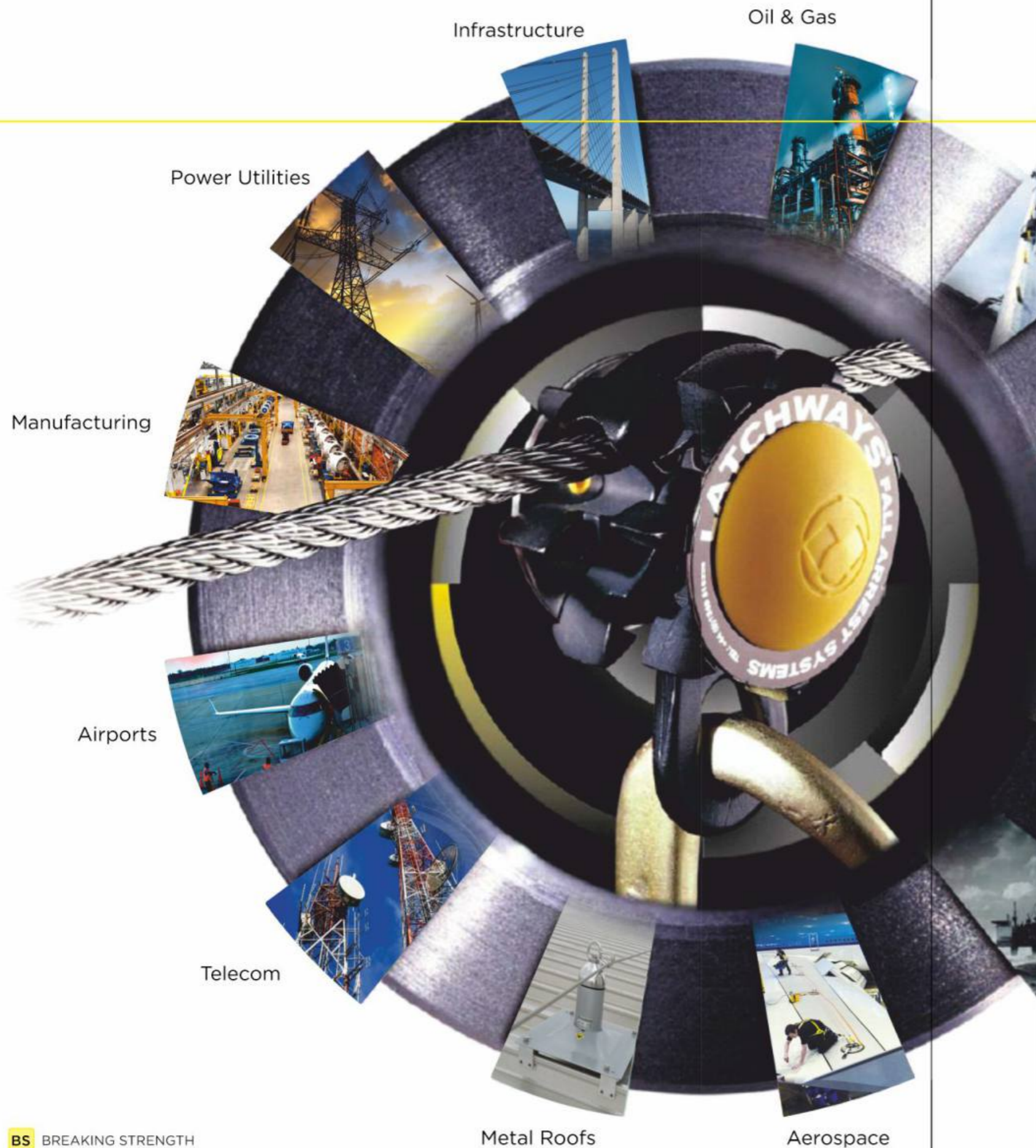
SAFER THAN SAFEST



Complex worksites. Simplified fall protection.

MSA
The Safety Company

LATCHWAYS
FALL PROTECTION



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About us

MSA Latchways

- MSA Group estd. in 1914.
- One of the biggest Safety brands in the world.
- Latchways brand owned by MSA, is recognised for its innovation and engineering excellence in fall protection solutions.
- Design centre located in Devizes, UK.
- Brand established since 1974.
- 250 employees committed to the range.
- Qualified engineering resource.
- Dedicated team of development engineers.

Fall Arrest Systems & Technologies Pvt. Ltd.

- A strong dedicated team focused 100% into Fall Protection only
- Indian Entity Established in 2012. FAST carries more than 20 years of relationship with MSA Latchways.
- Only company in India in Fall Arrest Systems to have a full fledge team for System Designing, Sales support, Installation, After Sales service and trainings.
- Providing lowest TAT for installation of 24-48 hours in the India Fall Arrest Industry.
- First company in India to introduce complete range of Fall Arrest Systems as per the latest valid EN certifications.
- At the moment catering to Indian Companies into different industries- Cement, FMCG, Automotive, telecom, Power, Roofing, Buildings & Infrastructure, Consumer Durables, Chemical, Government Establishments, IT, Construction, Metro, Pharmaceuticals, Aviation etc.

1914 — MSA Founded

1974 — Latchways Brand Established

1982 — Transfastener

1983 - 2000 — 20 + patents registered

2001 — Constant Force

2004 — WinGrip

2007 — Standard SRL Range

2009 — Sealed SRL Range

2012 — Latchways PRD

2014 — Latchways Inc. established

2015 — PFL Range

2015 — Latchways becomes an MSA Brand



Corporate Video on YouTube



Innovation and Evolution Video on YouTube



Complex Worksite, Simplified Fall Protection Video on YouTube

Training and Test Facility

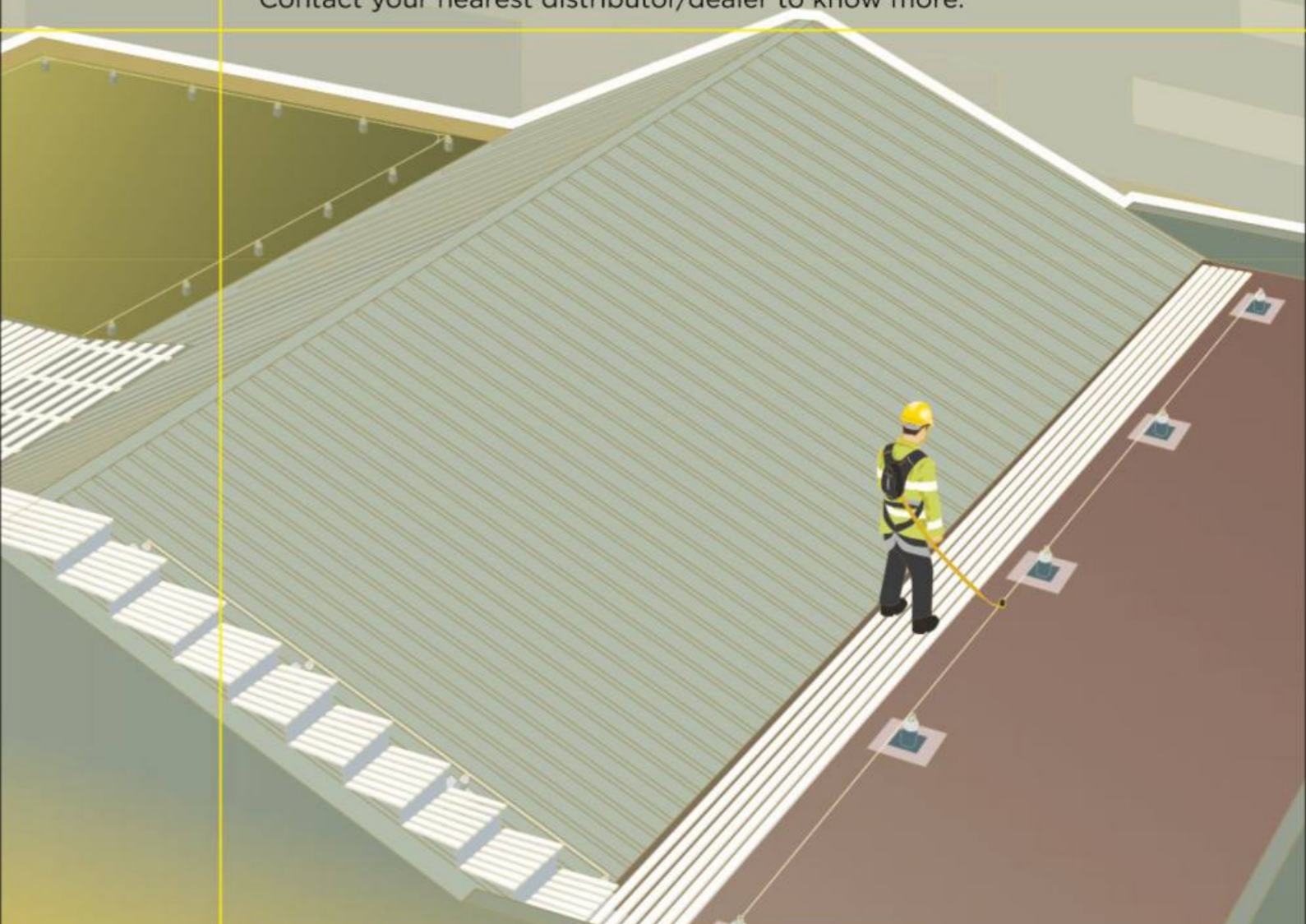
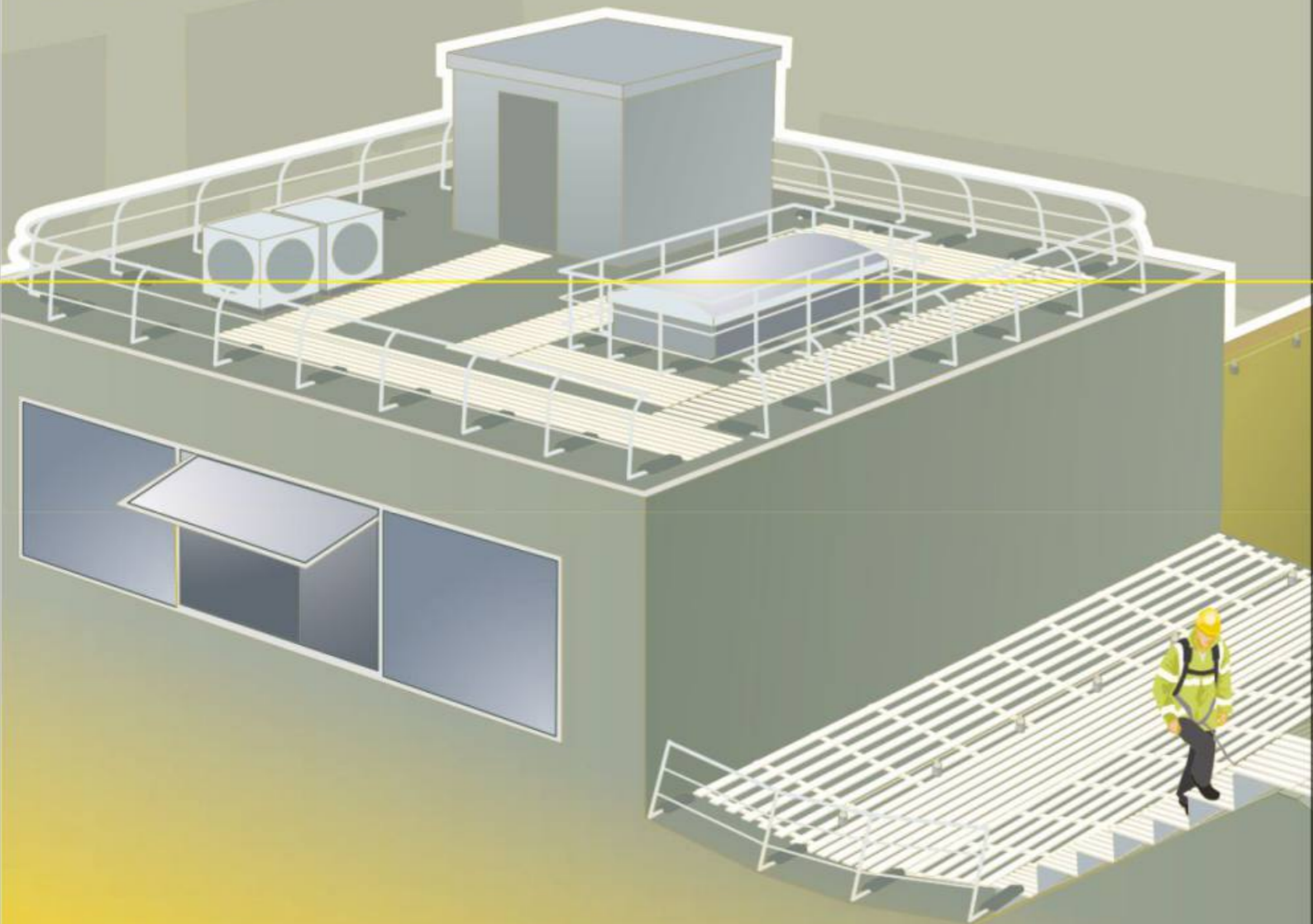


Testing Facility Video on YouTube

Product Selector

THE COMPLETE SAFETY ACCESS SOLUTION

The MSA Latchways Product Selector is designed to help you identify the part numbers of the products required to provide the best solution for your customer's Safety access requirements. Contact your nearest distributor/dealer to know more.



Scan QR code below to enter our interactive models that demonstrate the application of MSA Latchways fall protection solutions in different industries



Fall Protection for Aviation



Fall Protection for Scaffolding



Fall Protection for Building Maintenance



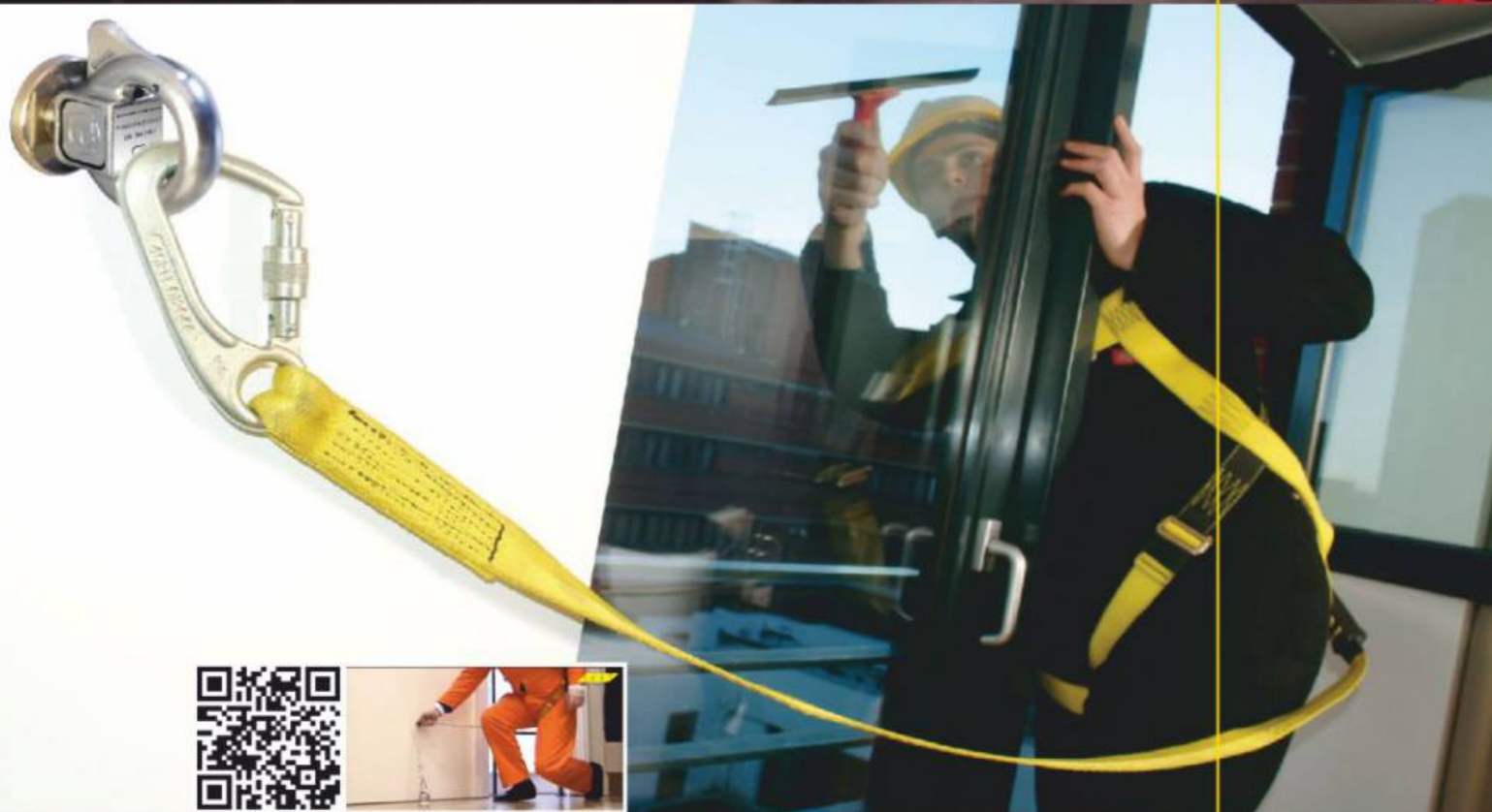
OIL & GAS

Anchor Point & Push Lock

- Heavy Duty D-ring and D-ring Anchor Points available which can be used for Anchoring or for Abseil/Rope Access Work.
- Components manufactured for maximum durability.
- Aesthetically pleasing with a range of colours and finishes available including stainless steel, brass and a range of RAL colours.
- Eyebolt requires two handed operation therefore accidental removal is impossible.
- Range of sockets for fixing into brickwork, concrete, steelwork, cavity walls and suspended ceilings.
- Straightforward installation and maintenance
- Socket and eyebolt both statically tested to 10 kN.
- Meets all relevant national and international standards.
- Eyebolt CE marked.

BS >40 kN

EN 795:2012, EN 353-1:2018



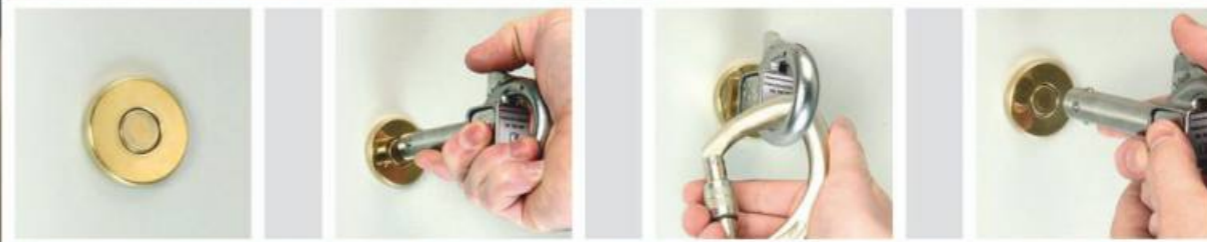
Application Video on YouTube



Heavy Duty D-ring



D-ring





Overhead Fall Arrest System

Single-Span System Anchorage

Distance up to 60mtr.



Overhead System Anchorage

Multi-Span System Anchorage

All distance and those greater than 60mtr.



Mobile Anchorage

EN 795:2012 &
CEN/TS 16415:2013



Product Application video on YouTube

- The Latchways range of overhead systems house Constant Force Technology in an in-line energy absorber, so if a worker connected to the system should fall, the Constant Force Energy Absorber controls the load back to the structure
- Ideal system for overhead application like loading unloading/ Tarpaulin activities.
- All components in SS 316L grade.
- Enjoy both unfettered mobility and continuous movement.
- Hands -free security whilst at working at height.
- Suitable for virtually all industrial environment- warehouses, loading bays etc.
- Overhead Device remains permanently attached to the system.
- Can be retrofitted to existing structures or incorporated at design stage of new facilities.
- Easily Able to accommodate changes in directions.

- BS** >40 kN
- PT** 5 kN
- EA** 18 kN



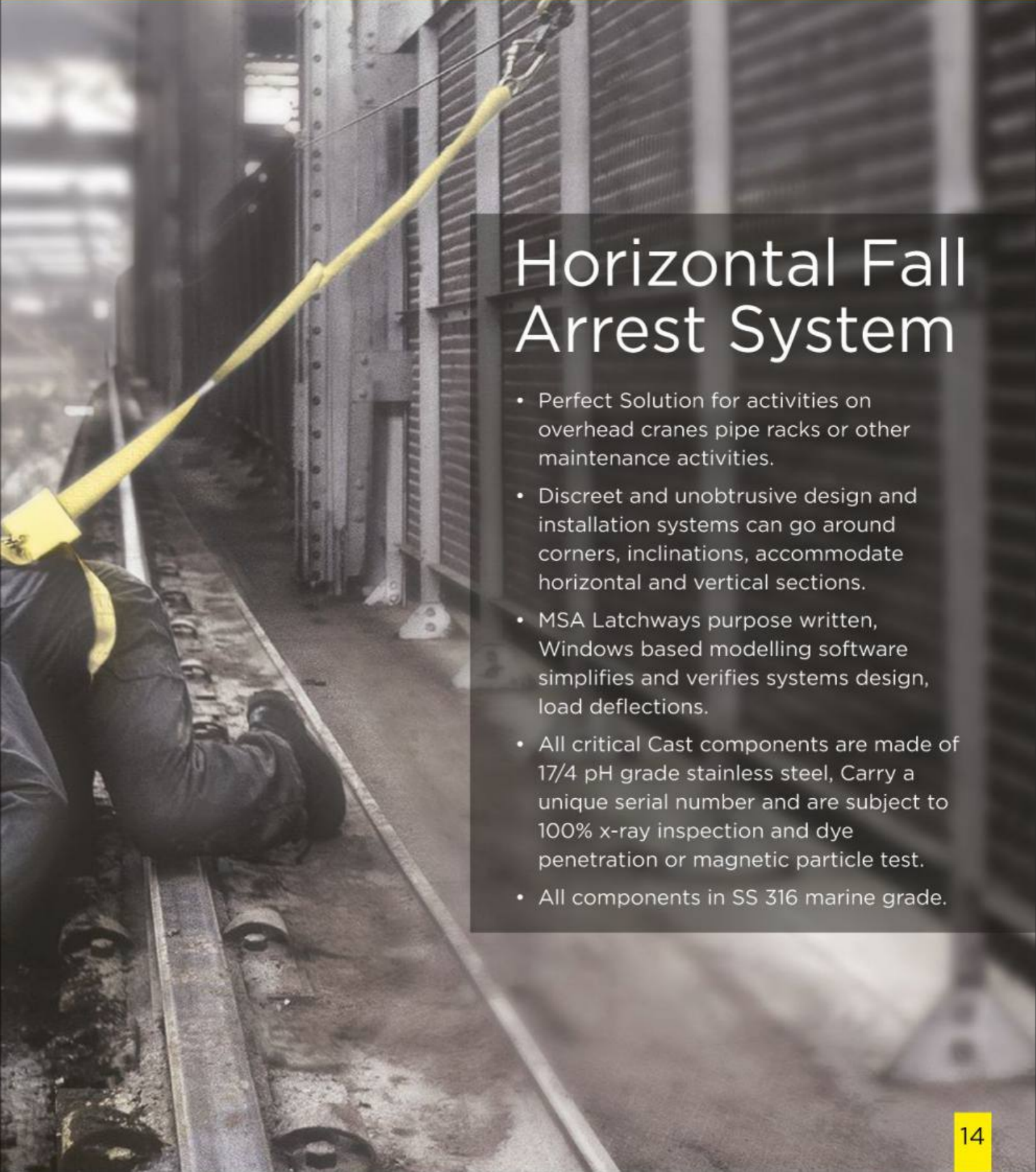
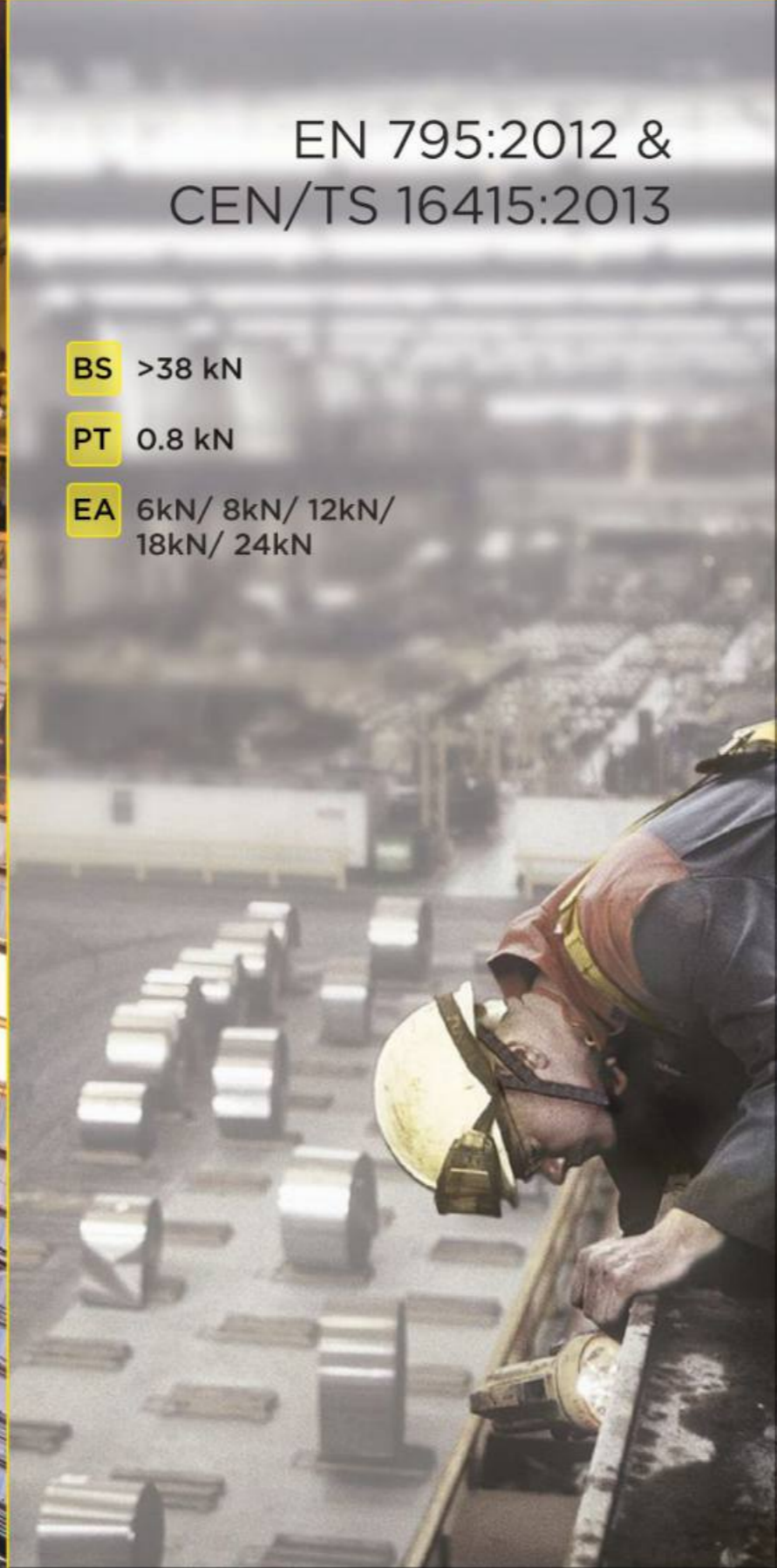


EN 795:2012 & CEN/TS 16415:2013

- BS** >38 kN
- PT** 0.8 kN
- EA** 6kN/ 8kN/ 12kN/
18kN/ 24kN

Horizontal Fall Arrest System

- Perfect Solution for activities on overhead cranes pipe racks or other maintenance activities.
- Discreet and unobtrusive design and installation systems can go around corners, inclinations, accommodate horizontal and vertical sections.
- MSA Latchways purpose written, Windows based modelling software simplifies and verifies systems design, load deflections.
- All critical Cast components are made of 17/4 pH grade stainless steel, Carry a unique serial number and are subject to 100% x-ray inspection and dye penetration or magnetic particle test.
- All components in SS 316 marine grade.





Inclined Fall Arrest System

While working at height is tough, working at height on an incline can present uniquely different challenges. MSA has developed a comprehensive range of MSA Latchways system components that can be configured to provide a tailored cable lifeline suited to structures that slope. Our two main components, the BridgeLatch and ClimbLatch devices, are built to bring optimal security, flexibility and mobility to the at-height, on-incline workplace.

EN 795:2012 & CEN/TS 16415:2013
EN 353-1:2018



- BS** >40 kN
- PT** 0.8 kN / 1.2 kN
- EA** 6kN/ 6.5kN/ 8kN/
10kN/ 12kN



BridgeLatch

MSA Latchways BridgeLatch device secures the user to the lifeline cable on inclines that run between 0° and 70°. Featuring our groundbreaking Starwheel mechanism that rotates freely over intermediate cable supports and brackets, BridgeLatch's intelligent engineering means you don't have to disconnect the unit and risk potential accidents or loss in productivity.



ClimbLatch

The ClimbLatch device has many similar features of the LadderLatch and TowerLatch but is designed to be used on an inclined system suitable for inclines between 0° and 40°.

Constant Force® Post

- Worlds first and only solution to be fully tested for use over metal roofing.
- Roofing Systems Manufacturer Approval.
- Dynamic Drop Testing.
- Multi-directional testing.
- Omni-directional post.
- Type 1 and Type 2 options available.
- Up to 6 user unrestricted system.
- Tested to additional engineering tests as per EN & DIN.
- 79 different approved fixing arrangements.

EN795:2012 & CEN/TS 16415:2013



Latchways Transfastener

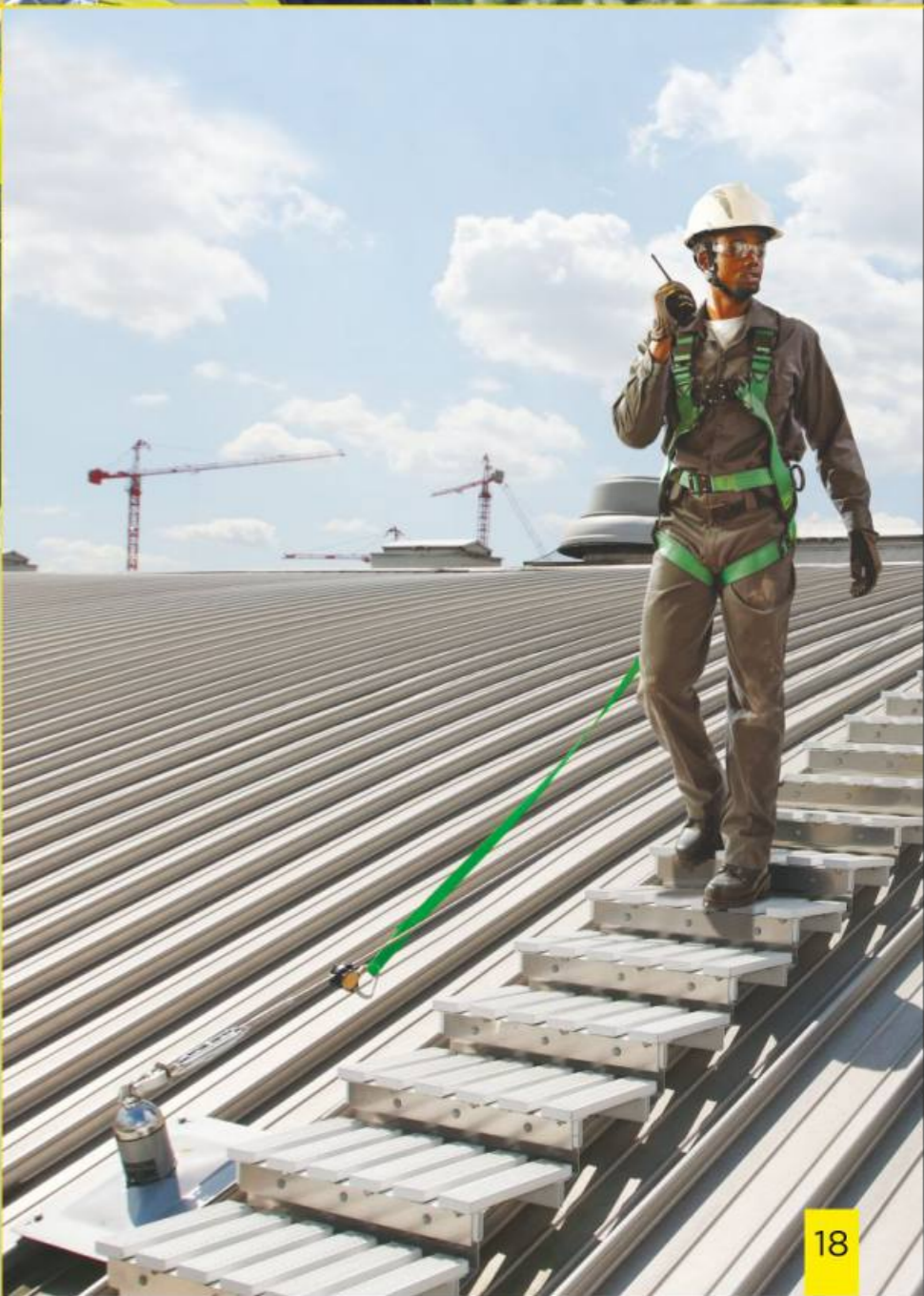
The user, wearing a full-body harness and energy-absorbing lanyard, is continuously attached to the system with a Transfastener, MSA's innovative device that can rotate its way through the intermediate cable supports. For systems with no entry terminal, a Removable Transfastener can be used.



Product Application video on YouTube



Controlled Deployment of Post video on YouTube



BS >38 kN
PT 0.8 kN
EA 6000J / 5200J



Product Application video on YouTube



Controlled Deployment of Post video on YouTube



Fall protection standard

The standard governing the testing of anchor devices is EN 796 and should be considered as the absolute minimum requirement. Systems are categorised within this standard as either being class A1, A2, B, C, D or E. The classes pertinent to the Constant Force post are A2 (isolated anchor devices) and C (anchor devices employing horizontal flexible lines).

Under the standard, anchor devices are tested by subjecting them to a dynamic test using a 100 kg mass—the equivalent of one person falling.

The Latchways Constant Force post exceeds this standard.



EN 796 test

Representative roof test

Latchways undertake extensive testing of complete and representative (5 m x 6 m) roofing systems. These take into consideration the supporting structure such as purlins, decks, spacer system, insulation and outer waterproofing covering.

Roofing system manufacturer approval

Latchways partner with industry-leading manufacturers to ensure a holistic approach. Latchways are therefore able to provide solutions for new roofing system innovation and ensure latest legislation is met. In addition, Latchways Mansafe solutions maintain the guarantees/warranties offered by partner manufacturers.

300 kg dynamic drop test

Latchways conduct this test using a 300 kg mass (the equivalent of three users) dropped through a distance of 1.5 m, on one post connected to the roofing system. This mass is 3 times the standard of 100 kg required by EN 796.



Latchways test

Multi-directional testing

- 1 In line with the seam, profile or deck
- 2 Across the seam, profile or deck
- 3 At 45° to the seam, profile or deck (static load only)

EN

Omni-directional post

To ensure maximum protection for users, each post incorporates the Latchways unique omni-directional Constant Force energy absorber, enabling the post to deploy and control load in any direction.

6000J energy capacity post

To ensure that the loads to the roof are maintained to 10 kN, each Constant Force post has the capacity to absorb at least 6000J of energy.

Three user unrestricted system

Unless otherwise stated, and with the exception of single point anchors, the Constant Force post system is suitable for access by up to three users at any one time and at any point along the length of the system, even between two anchors.

EN 365 product marking

The Latchways CFP is labelled in accordance with EN 365 standard.

Foreseeable misuse

Best practice dictates that the system layout be designed in fall restraint, however, Latchways also take into consideration foreseeable misuse of their products; for example, use of an incorrect lanyard length. In certain cases there may also be a requirement to utilise the fall protection system for carrying out rescue following a fall. Therefore, the anchor device should always be capable of controlling multi-user fall arrest loads irrespective of the system classification.



Vertical Fall Arrest Systems for General Industries

- World's only vertical fall arrest system for multi-users.
- Monopoles, Lattice Towers and Ladders.
- The best technology in the league with minimum fall arrest reported.
- Components are made of SS 316 marine grade.
- Cast components of Fall Arrester are made of 17/4 pH stainless steel.
- Can be installed to follow the contours of any structure including Horizontal and inclined sections.
- Prevents fall of workers from vertical climbing arrangements.

BS >40 kN

PT 1.2 kN

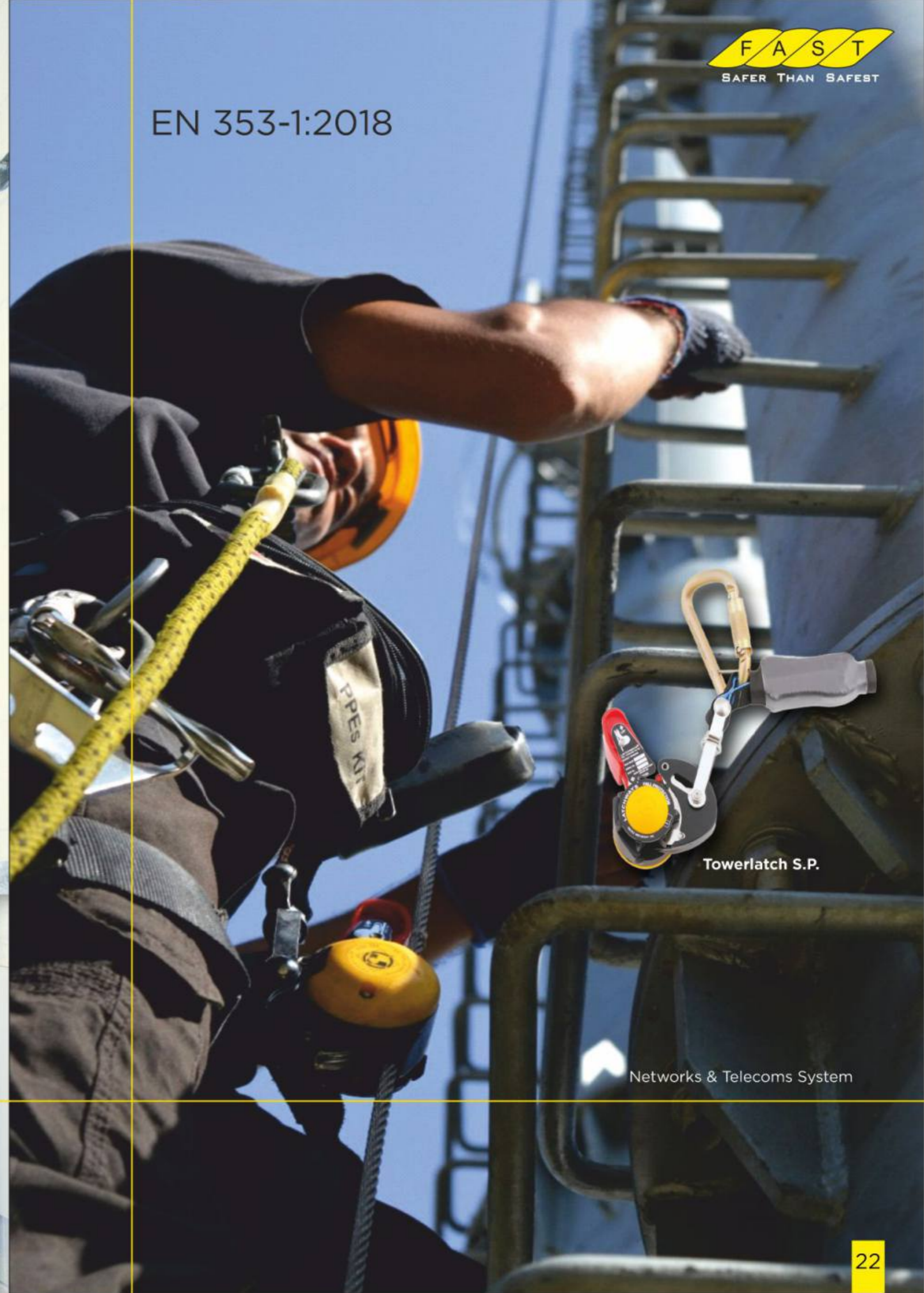
EA 6 kN

Fixed Ladder System



Product Application video on YouTube

EN 353-1:2018



Towerlatch S.P.

Networks & Telecoms System

BS >40 kN

PT 1.2 kN

EA 6 kN

Vertical Fall Arrest Systems For Transmission Tower

EN 353-1:2018



TowerLatch

- Flexible system – Vertical, Horizontal, Inclined, easily combined with Ladders, bespoke brackets.
- Continuous connection when moving up/down the tower.
- Very durable against wear, temperatures, rain, snow, ice.
- Immediate system tension indication.
- 2000 tower type database.
- Suitable for 3 users at the same time (400kg).
- System MSA Latchways is the no.1 choice for global energy providers.
- Proven problem free field use (15 years).
- Life expectancy 30+ years.

When ascending a ladder within a new build or retrofit turbine, rely on MSA Latchways TowerLatch to deliver the ideal hands-free solution, securing the climber to the cable via the chest D-ring on their full-body harness.

- Accelerated corrosion testing equivalent to 30 years of weathering.
- Installations in extreme conditions (salt planes of Cyprus), high winds and ice conditions (Matterhorn Switzerland), offshore (North Sea).
- Wind tunnel testing to assess aerodynamic performance and fatigue failures of the system.
- Cyclic vibration testing assess durability of the system.

Vertical Fall Arrest Systems For Wind Turbines

EN 353-1:2018

- BS** >40 kN
- PT** 1.2 kN
- EA** 6 kN



Self-Retracting Line (SRL) and Personal Fall Limiter (PFL)

EN360:2002

With premium components and innovative engineering, the V-TEC SRL offers controlled cable retraction-preventing excessive lifeline retraction speed and protecting internal parts from damage.

- Clear outer casing for easy inspection
- Carry handle included
- Spring radial energy-absorbing technology requires zero calibration or adjustment.
- Stainless steel/ engineered plastics
- Retraction dampening features controls the cable speed to <math><3\text{m/s}</math>
- Completely field serviceable.



SRL Testing Video on YouTube



Leading Edge SRL Technology
Video on YouTube



Retraction Dampening Technology
Video on YouTube

Sealed SRL

- Constantly moving, 100% reliable Full contact locking mechanism cannot freeze, hang up or corrode.
- No wet lubrication needed which attracts dirt and debris.
- Stainless steel components unaffected by water, contaminants, temperature and time.
- New models for horizontal applications are also now available.
- Modular chassis design and case are not integrated allowing the case to serve strictly as the protective armour.
- IP rated models available for offshore locations.
- With ATEX assessment and IP69K ratings, the Latchways sealed SRL is more than capable of withstanding the harsh environments of Oil and Gas industry.



EN360:2002





Product Application videos on YouTube

Personal Rescue Device (PRD)

- Unique self rescue mechanism integrated in the full body harness.
- Parachute type 'rip cord' that releases the descending system.
- Brake mechanism and spool with a 20MTR cord gently lowers the faller to the ground.
- Standard harness that can be easily released allowing quick evacuation from the fall zone.
- The PRD is built into a standard harness which is supplied by MSA Latchways or can be retrofitted into an existing harness.

EN341:2011 TYPE 1, CLASS D

User Instructions



1 Check below to ensure descent path is clear and a safe landing is possible.

2 Open the flap on the right shoulder strap to access the release cord.

3 Pull down sharply on the release cord.

4 Prepare for landing by bending your knees.

Standards

The Latchways PRD consists of a full body harness and integral descender device that conforms to all the required standards:

The harness conforms to

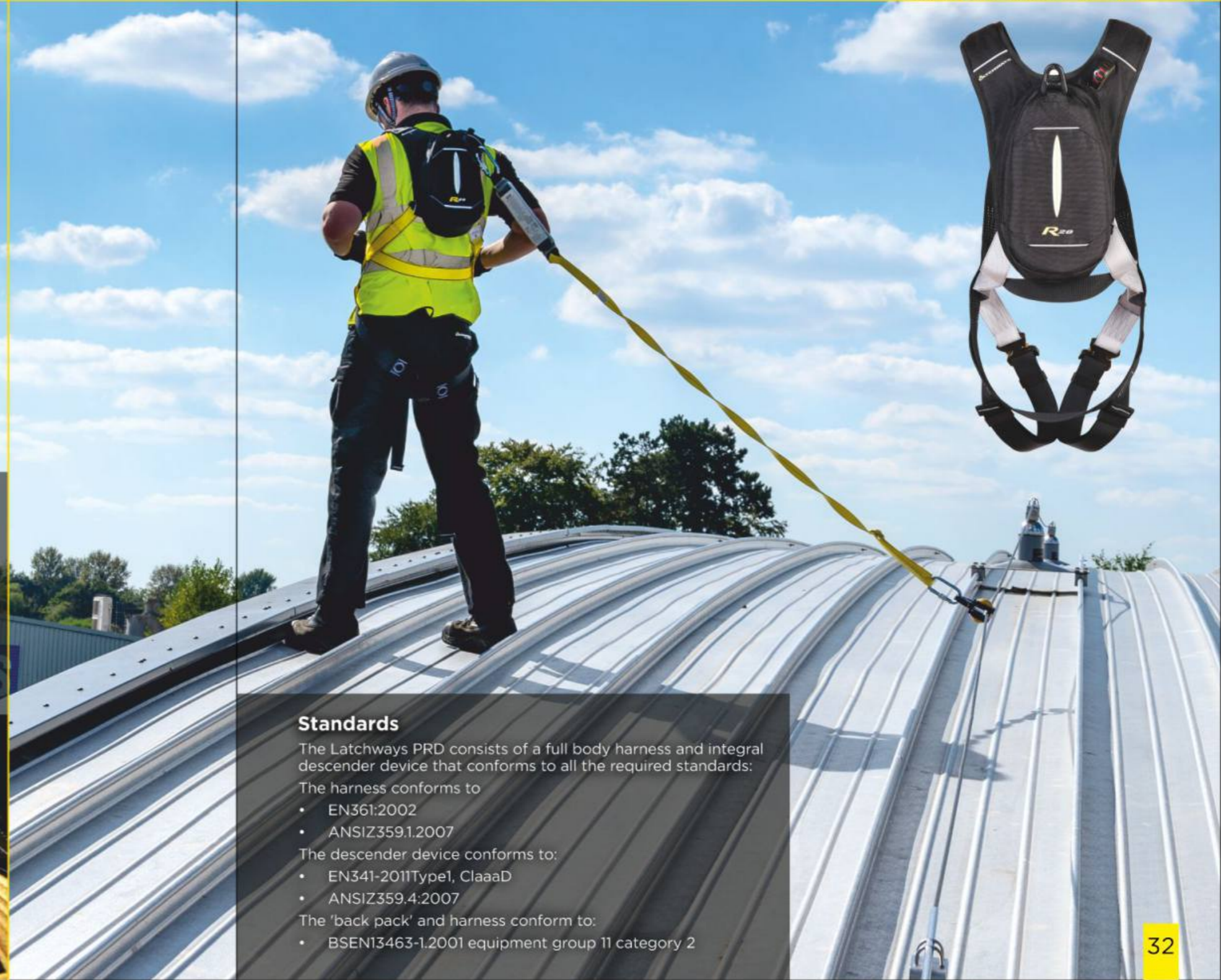
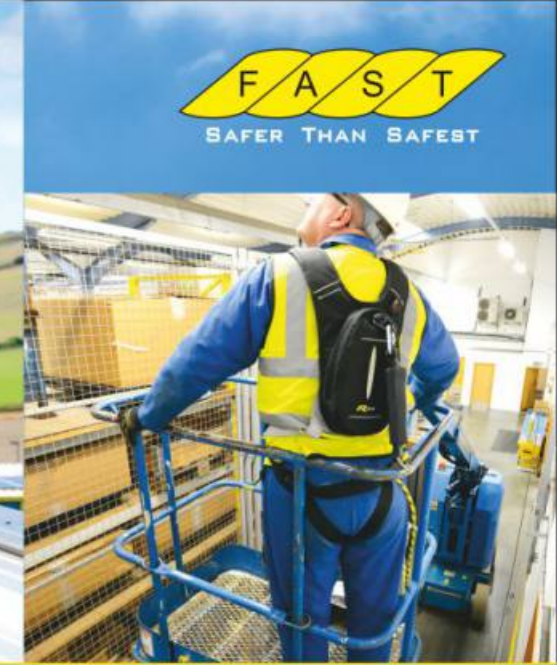
- EN361:2002
- ANSI Z359.1:2007

The descender device conforms to:

- EN341-2011 Type 1, Class D
- ANSI Z359.4:2007

The 'back pack' and harness conform to:

- BSEN13463-1:2001 equipment group 11 category 2



- BS** >40 kN
- PT** 0.8 kN
- EA** 6 kN

Vacuum Anchor (WinGrip)

- State-of the art Vacuum fall arrest system for maintenance activities over aircraft & other similar applications.
- Can be customised to fit any length of aircraft wing.
- Ideal for heavy maintenance and longer access requirements.
- Up to 4 users per system.
- Fall arrest rated.
- Safe method of installation and removal.
- Provides full access to any wing without needing to disconnect.
- Hands-free operation.
- Approved by both Boeing & Airbus.

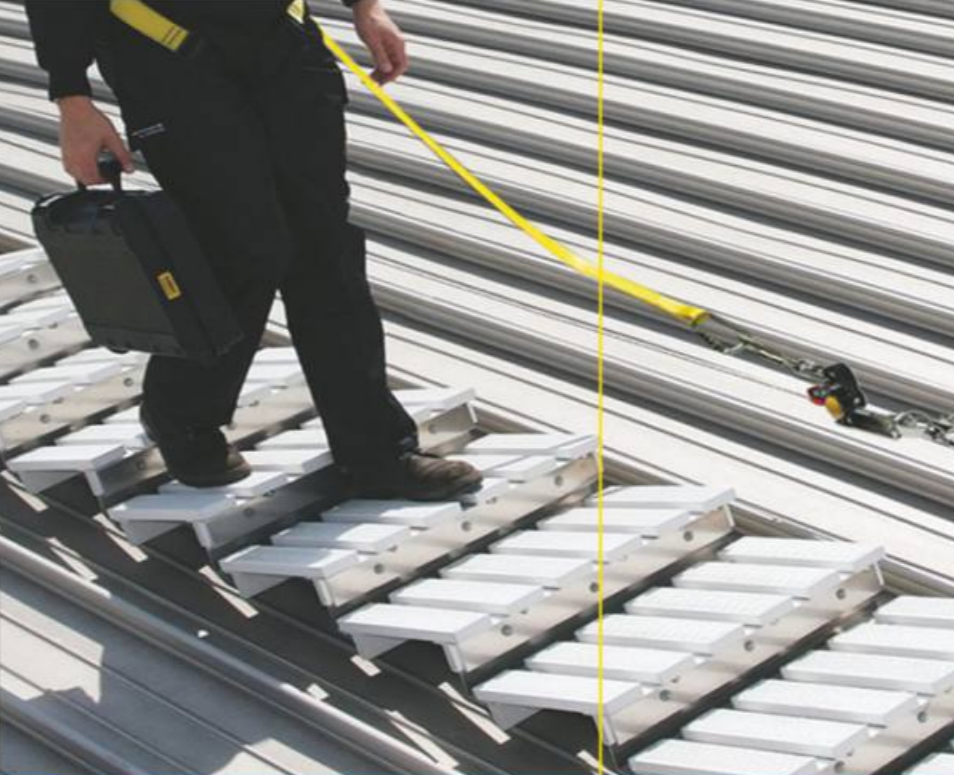
EN795:2012 & CEN/TS 16415:2013



Product Application videos on YouTube

Walk Ways BS EN516:2006

- Certified walkways system on roof to prevent slip and trip.
- Lifespan in excess Of 25 years.
- Manufactured recycled uPVC and can therefore be recycled again.
- Lightweight construction.
- Designed for use on all major roofing systems.
- Class 1Y against B476 fire resistance test.
- Tested to ACR[M].
- Tropical alternative available for high-heat and high-UV condition.
- Coefficient of friction; dry 0.75/Wet 0.51.

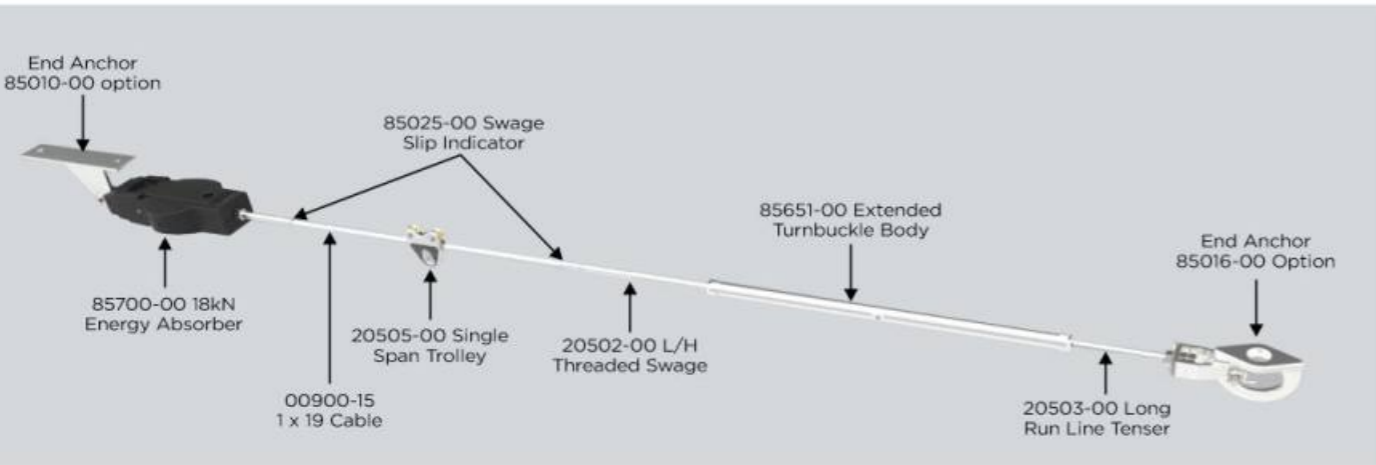


Hand Rail/ Versi Rail EN 13374 & EN 14122-3

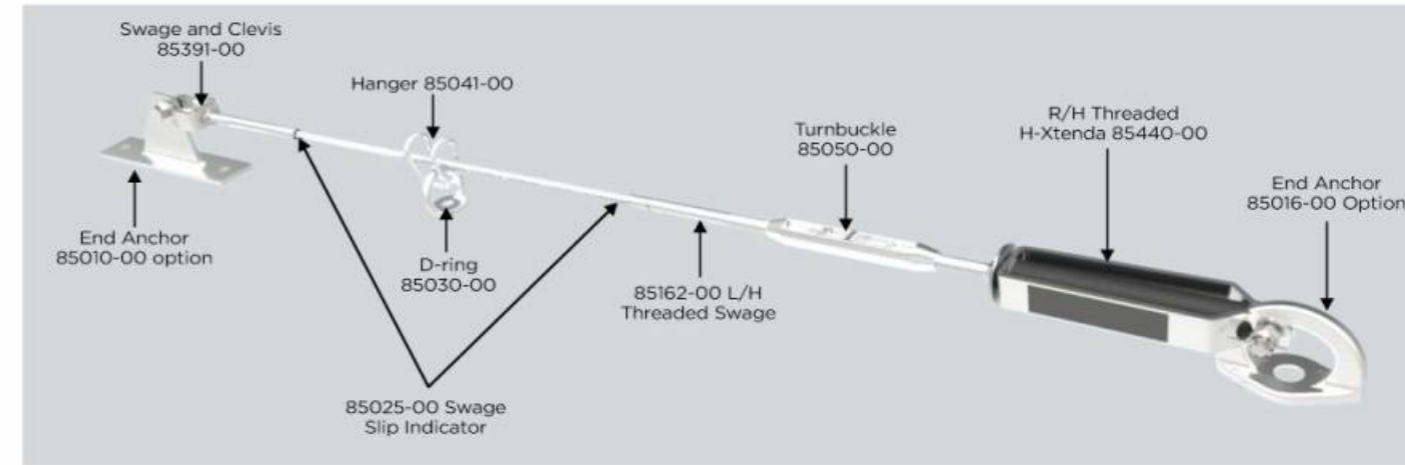
- Aluminum fixed and dead weight based handrails systems.
- Durable aluminium, Corrosion-resistant construction.
- Lightweight-quick and easy installation.
- 30% lighter than steel alternative.
- Fixed or freestanding (including folding) options.
- Designer looks—three finishes available.
- Adaptable, modular easy-fix system.
- Fully weatherproof.
- No need for annual inspection.
- Versatile—can be designed for any flat roof plan.
- Available in three styles—straight, curved, inclined.
- Freestanding option—no need to penetrate the roof.
- Fixed option—a range of different heights to meet your.



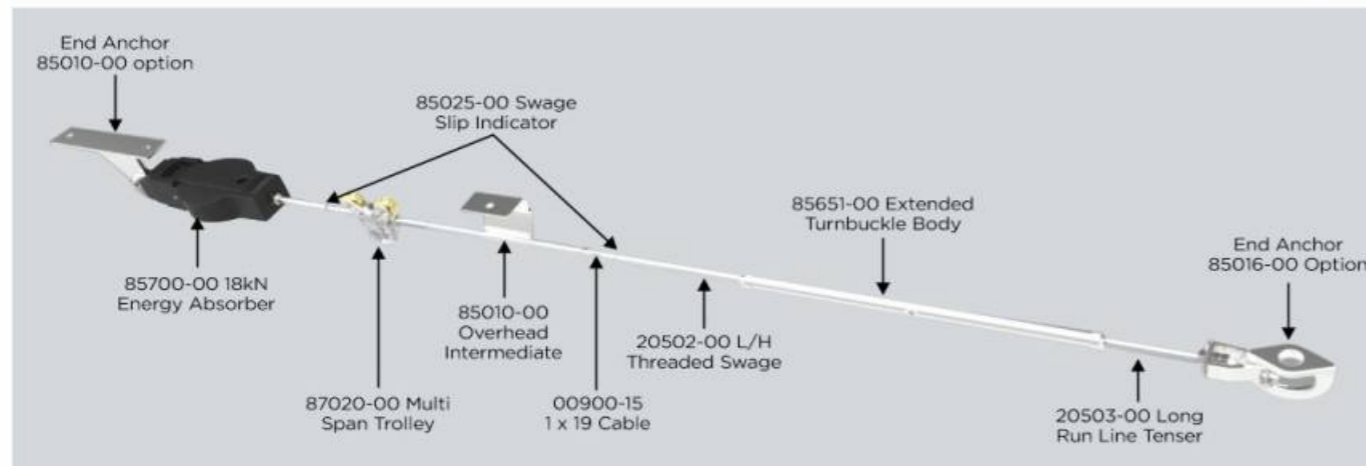
Single Span Fall Arrest System



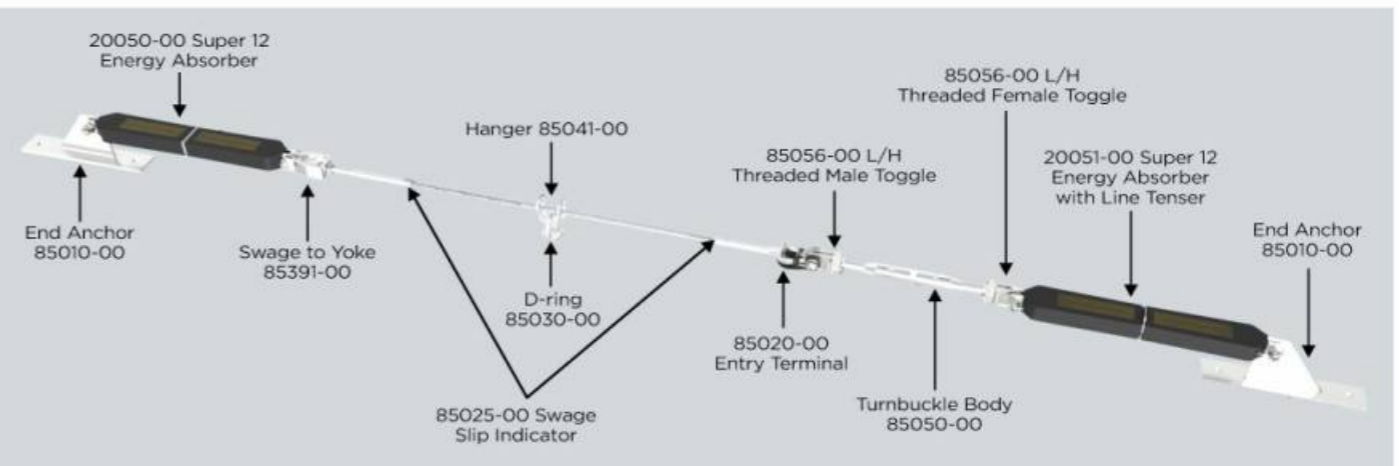
Horizontal Fall Arrest System



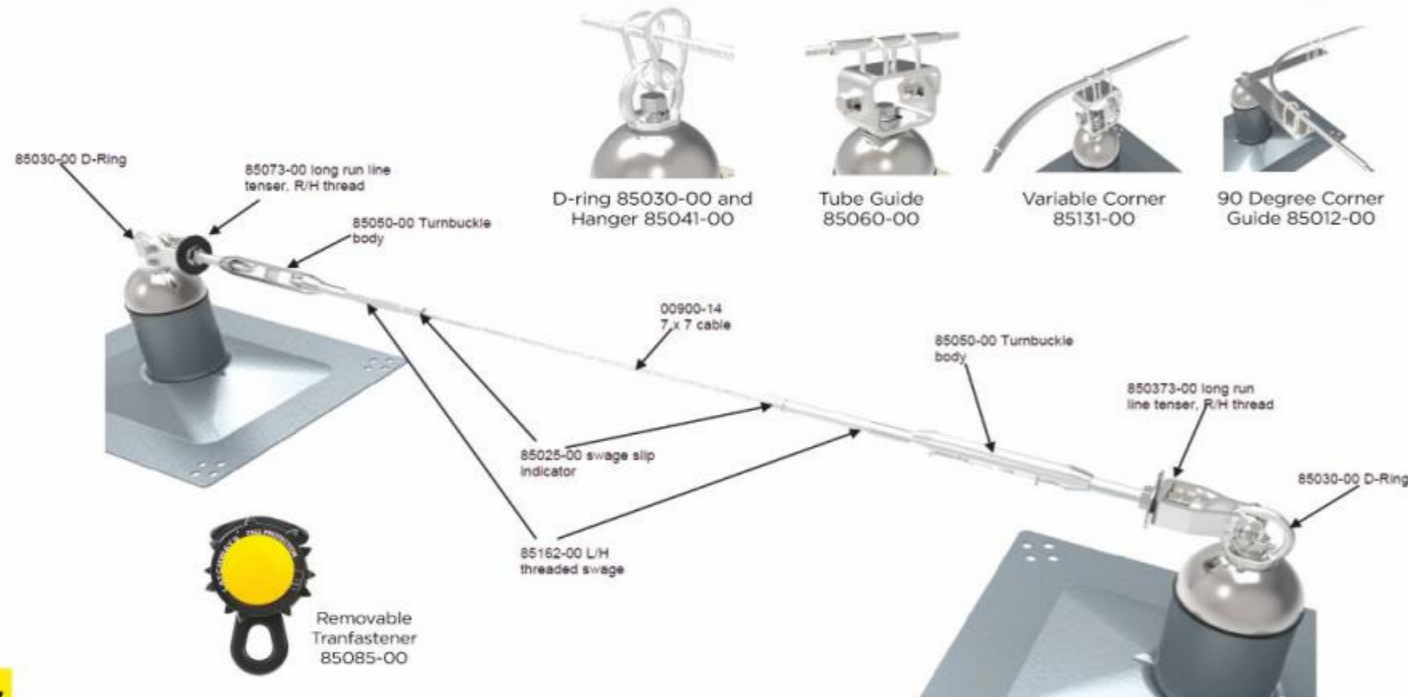
Multi-Span Fall Arrest System



Horizontal Fall Arrest System



Constant Force® Post

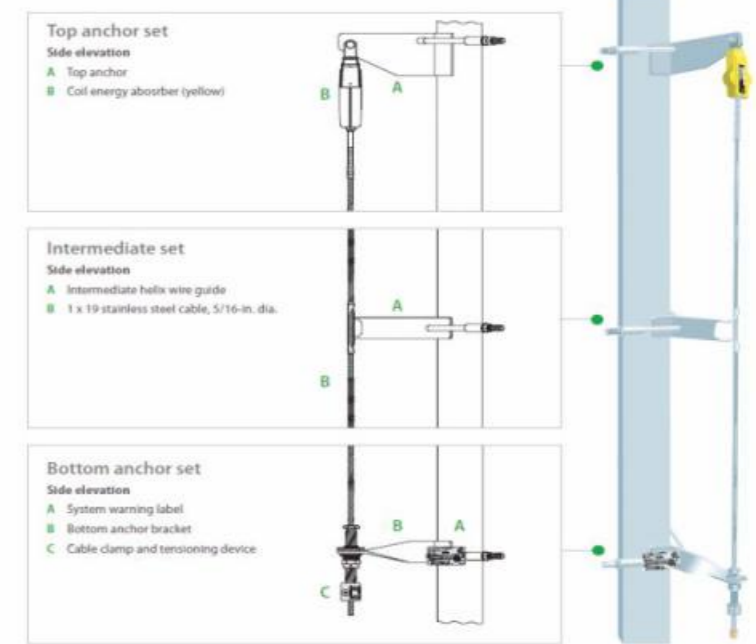


Vertical Fall Arrest System

General Industry & Telecoms



Power Transmission



Complex worksites.
Simplified fall protection.



**FALL ARREST SYSTEMS &
TECHNOLOGIES PVT. LTD.**

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Product Application videos on YouTube 