

ManSafe for Ladders



Applications:

Fixed Industrial Ladders
Chimneys
Towers
Cranes
Silos
Offshore

Latchways

Latchways plc is the world leader in the design and manufacture of cable based fall arrest systems offering continuous protection to individuals working at height.

Our ManSafe® products are made using the highest quality components and meet or exceed all appropriate international standards. They are distributed and installed in many countries around the world including the USA, Canada, Australia and throughout Europe.

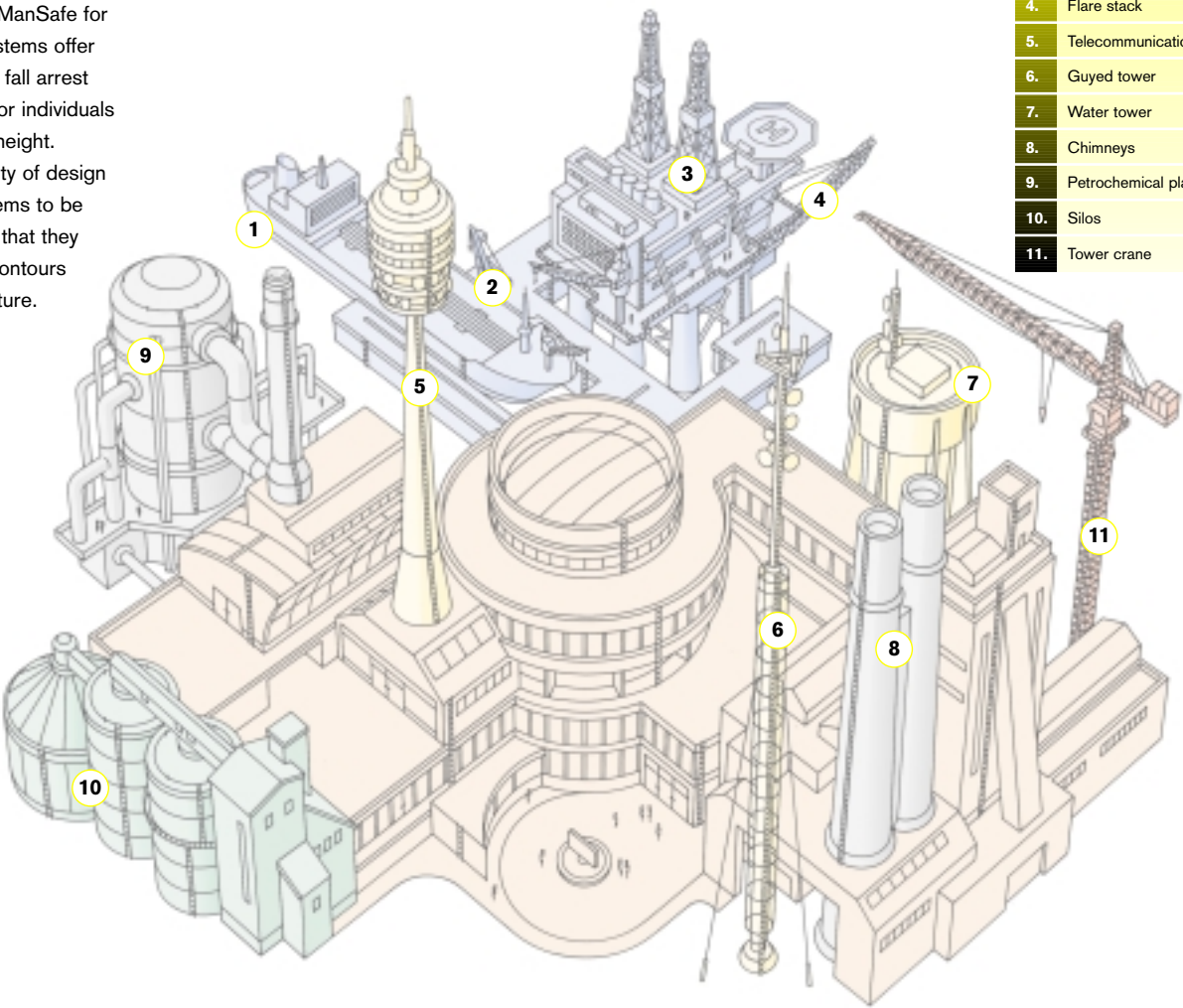
ManSafe for Ladders

ManSafe for Ladders systems are designed for use with fixed industrial ladders in a wide variety of applications. Key features of the ManSafe for Ladders range include:

- Suitable for installation in all environments.
- Operation is not affected by snow, ice or adverse weather conditions.
- Unobtrusive, lightweight and flexible.
- Can be retrofitted or included as part of a new build programme.
- Will support up to four workers on a single line.
- Unique LadderLatch™ unit can be attached or detached at any point on the cable.
- The LadderLatch unit passes smoothly over intermediate wire guides, offering continuous hands free protection.
- System design can accommodate horizontal or inclined sections if required.
- A variety of fixing methods allows for easy installation.

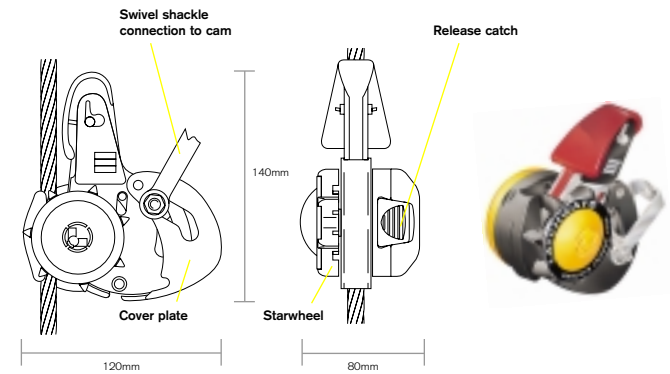


Latchways ManSafe for Ladders systems offer outstanding fall arrest protection for individuals working at height. The simplicity of design allows systems to be installed so that they follow the contours of the structure.



1.	Cargo vessel
2.	Dock crane
3.	Drilling derrick
4.	Flare stack
5.	Telecommunications tower
6.	Guyed tower
7.	Water tower
8.	Chimneys
9.	Petrochemical plant
10.	Silos
11.	Tower crane

Components



The LadderLatch unit incorporates the patented Latchways starwheel design which rotates freely through intermediate wire guides.

	Top Anchor and V Xtenda A range of top anchors are available to suit different installations.		Cable ø8mm 1x19 316 grade stainless steel cable is recommended for all vertical applications.
	Bottom Anchor Bracket Fixes directly onto ladder rungs and supports tensioning device.		Tensioning Device The cable clamp and tensioning device allows simple swage free installation.
	Turnbuckle and Toggle Alternative method of terminating and tensioning cable. Can be used at top or bottom of system.		Wire Guide Provides optimum climbing position and support for cable along the length of the system.

Configuration

ManSafe® for Ladders systems include a choice of components to enable installation on a wide variety of applications and on ladders of different sizes and shapes.

Rung Mounted Systems

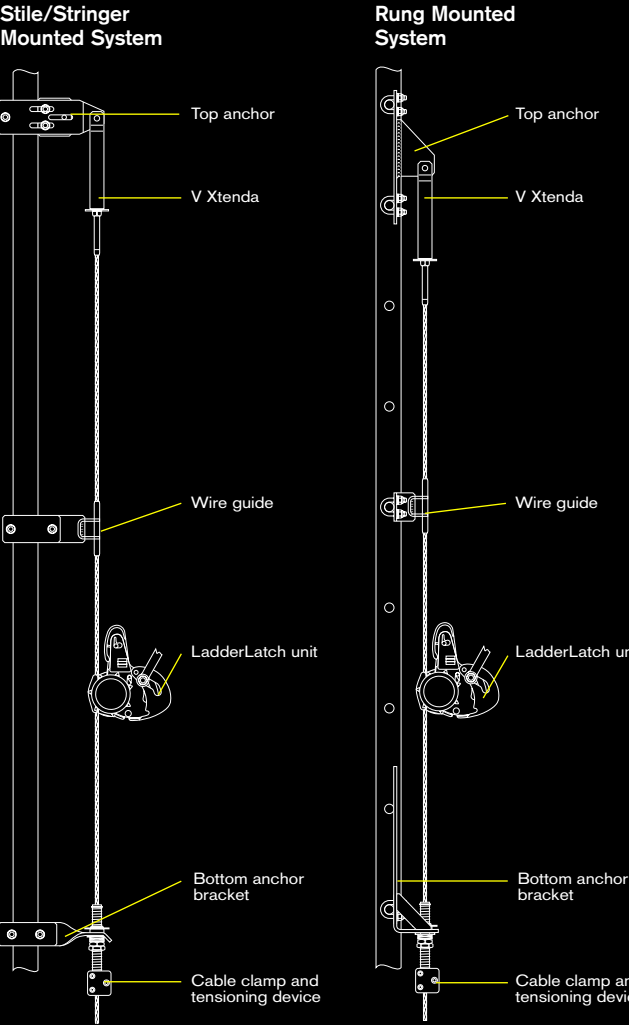
Standard fixing kits are available for installation on round and u-shaped rungs up to 22mm diameter, and square, triangular or L-shaped rungs. Alternative fixing kits for larger rungs can be made available.

Stile/Stringer Mounted Systems

For use on narrow ladders where a rung mounted system would cause a trip hazard. The standard mounting brackets will accommodate stile widths from 40 to 65mm and stile thicknesses of 5 to 12mm.

Top and Bottom Anchors

A choice of top and bottom anchors and alternative methods of terminating and tensioning the cable are available to suit individual requirements and applications.



Materials and Testing

During development, all products are subject to a range of tests to define their performance characteristics. These tests include static strength, corrosion, locking, conditioning and dynamic performance.

System components undergo rigorous quality assurance procedures before leaving the factory:

- All critical cast components are made from 17/4 PH stainless steel, carry a unique serial number and are subject to 100% X-ray and dye penetrant crack detection inspections.
- A high proportion of system bracketry is made from 316 marine grade stainless steel and is subject to batch conformance testing. All items have 100% visual inspection and carry unique serial or batch numbers.

Latchways plc is a BS EN ISO 9002 certified company.

ManSafe for Ladders systems are CE certified and exceed European Standard EN 353:1, Canadian Standard CSA Z259.2 and relevant Australian and USA OSHA standards.

Installation

Your ManSafe for Ladders system may be installed by your own personnel, or by one of our international network of approved installers.

Specification

Consider the following when specifying a ManSafe for Ladders system:

- Length of the system
System length determines the number of intermediate guides required:
For systems up to 55 metres in length, wire guides should be positioned a maximum of 6 metres apart.
Beyond 55 metres, or in windy or high altitude locations, the spacing should be reduced to every 3 metres to dampen the effect of harmonic oscillation.
- Number of users to be on the system simultaneously
If there are up to two users, see the table below to determine which parts are required.
If the system is to support more than two users at any one time, please contact Latchways for advice.
- Width of ladder
If the ladder is narrower than 350mm, a stringer/stile mounted system is recommended to eliminate potential trip hazards.
- Shape and size of ladder rungs
Please see table below for details of fixing kits.
- A V Xtenda must be included in every vertical system to limit the top anchor load to 6kN should a fall occur.
- The ladder and any other structural anchorages must be capable of withstanding a 12kN load at the top anchorage point. This gives a minimum factor of safety of 2.
- Personal Protective Equipment
Full body harnesses which incorporate a front attachment point and which are certified to the current national standard should be used.

For all other configurations and technical queries, please call Latchways +44 (0)1380 732700.

Part Number Table

	Top Anchor Assembly (up to 2 users)	Top Anchor Fixing Kit	Intermediate Wire Guide	Wire Guide Fixing Kit	Bottom Anchor Assembly	Bottom Anchor Fixing Kit	Cable (ø8mm 1x19 stainless steel)
Round Rungs	30011-00	30013-00	30034-00	30008-00	30045-00	30006-00	00900-15
Square Rungs	30011-00	30012-00	30034-00	30009-00	30045-00	30007-00	00900-15
Stringer/Stile	32001-00 85530-00	Included in assembly	32002-00	Included with wire guide	32006-00 35005-00	Included in assembly	00900-15

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LadderLatch is a trademark of Latchways plc.

