

**SpanSet®**

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**Solutions for Marine  
Operations**

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**Height Safety  
Lifting  
Load Control  
Safety Management**

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## SpanSet Worldwide



The SpanSet Group are world specialists in Height Safety, Lifting and Securing Loads with fifteen operating plants across the world and a global network of dealers.

SpanSet is here for you

- Switzerland
- Australia
- Austria
- Brasil
- China
- France
- Germany
- Hungary
- UK
- Indonesia
- Italy
- Poland
- Spain
- Taiwan
- USA

SpanSet UK have been established for over 40 years. SpanSet designs, manufactures and supplies Height Safety, Lifting and Load Control systems.

All SpanSet products have been developed to work as part of an overall safety solution, which includes products, installations, training, implementation, testing and servicing. By offering our customers an overall solution SpanSet is better able to meet customers' needs and help them develop safer solutions for working at height, lifting and load restraint.

For more information: log on to [www.spanset.co.uk](http://www.spanset.co.uk)

## SpanSet and the Oil & Gas Industry

SpanSet has gained a reputation in the provision of work at height solutions for use on ships in the Oil and Gas industry. Complementing our extensive knowledge in Height Safety and work on both onshore and offshore Oil and Gas installations this area has become a SpanSet speciality.

The solutions began with an understanding of the common problems encountered on vessels and included assistance with work methods, equipment supply and training.

In addition to the work carried out in the Oil and Gas industry SpanSet have also provided solutions to the Royal Navy and Fleet Auxiliary, plus vessels used in the Nuclear Industry. In all cases the key is to understand the environment including the specific conditions or restrictions that imposes.

### Areas we Consider

The work on a vessel has many similarities to work at height in other industrial locations, but with the added complications imposed by the isolation of the vessel and the cargo it carries.

### Solutions

- Access and Security at Height in Plant Rooms and over Machinery
- Controlled Access Systems for Maintenance & Cleaning of Vertical Areas
- Confined Space Access to Tanks and Vessels including Rescue & Recovery
- Access to Masts, Antennas and Structures for Maintenance and Repair

### A Common Approach

The aim when setting up solutions is to utilise as few variations as possible to cover as wide a range of applications as possible.

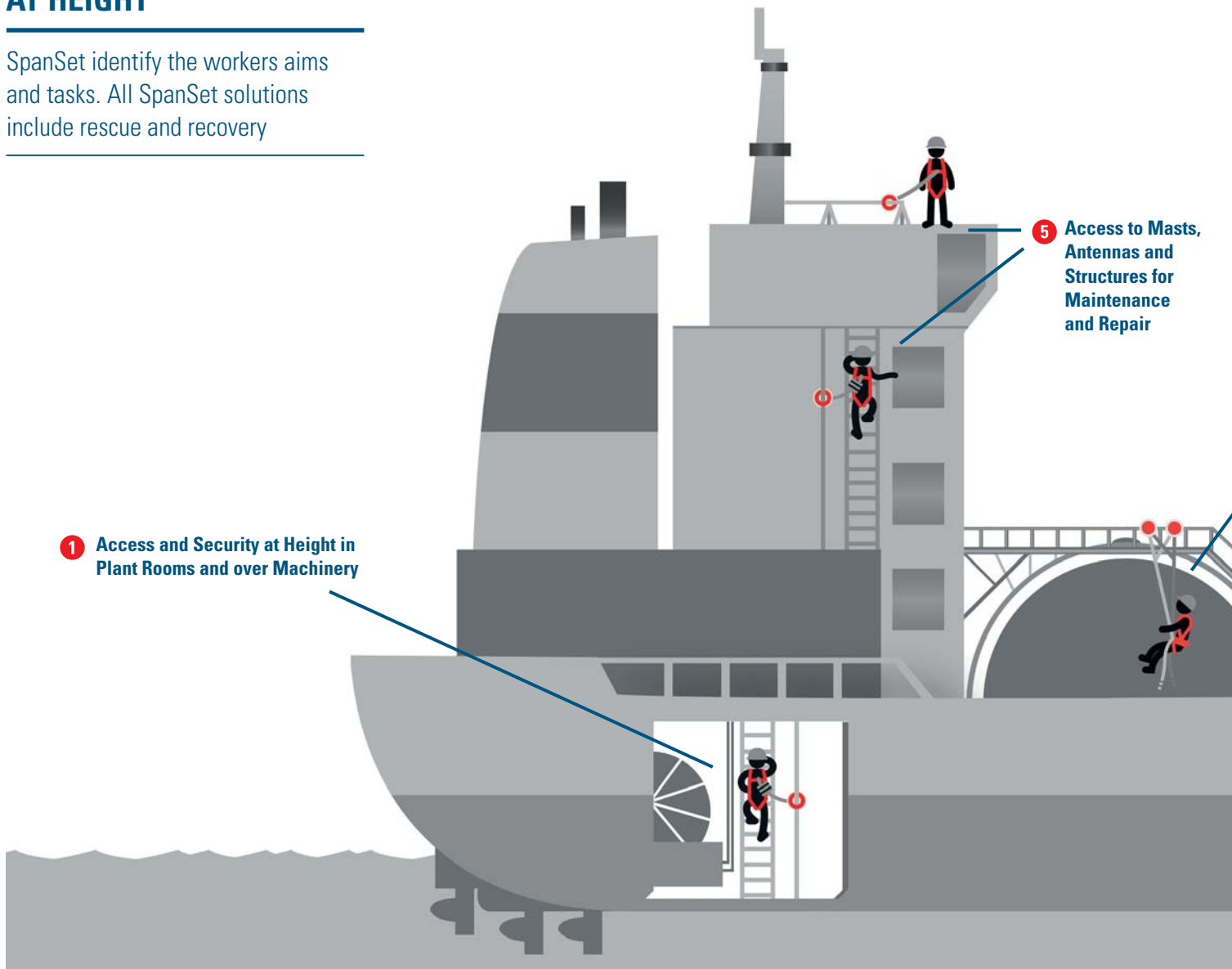
### Benefits

- The total equipment required is kept to a minimum
- Commitment for Inspection and Maintenance reduced
- Staff Training is simplified by the use of base items that are included in as many of the solutions as possible.
- Staff safety improved
- Controls are easy to implement and manage for work at height as the solutions break the process down into simple easy to understand layers.

Layered controls are easy to implement and manage for work at height. Where there are multiple vessels included in a fleet, then the solutions should be easily transferable from vessel to vessel making it easier to move staff without the need for retraining.

# CONSIDERING ALL THE IMPLICATIONS OF WORK AT HEIGHT

SpanSet identify the workers aims and tasks. All SpanSet solutions include rescue and recovery



**1 Access and Security at Height in Plant Rooms and over Machinery**

**5 Access to Masts, Antennas and Structures for Maintenance and Repair**

## **1 Access and Security at Height in Plant Rooms and over Machinery**

The majority of tasks in plant rooms can easily be achieved from walkways or standard access routes.

Where personal fall protection is required, the close proximity of machinery and equipment is a major consideration. Equipment and Techniques selected must take into account:

- Restricted safe clearance heights below the worker
- Communication in noisy environments
- Preventing workers from becoming isolated at height
- Emergency planning and recovery of a worker from a complex area

## **2 Controlled Access Systems for Maintenance & Cleaning of Vertical Areas**

Gaining access to vertical areas using work positioning systems enables workers to carry out cleaning, painting and maintenance.

Assess the environment, proposed equipment and techniques to prevent workers accessing areas they are unable to get back from.

### **Controls to Consider**

- The worker will require a safe area and access to the top of the works to set up the system
- Works can be accessed by lowering or being lowered into a position, but egress may require a raising capability
- As the user is fully committed to the work position system a secondary back up is required.
- The rescue solution must have the same raising and lowering capabilities as the working system and be compatible with the main working system and the back up system

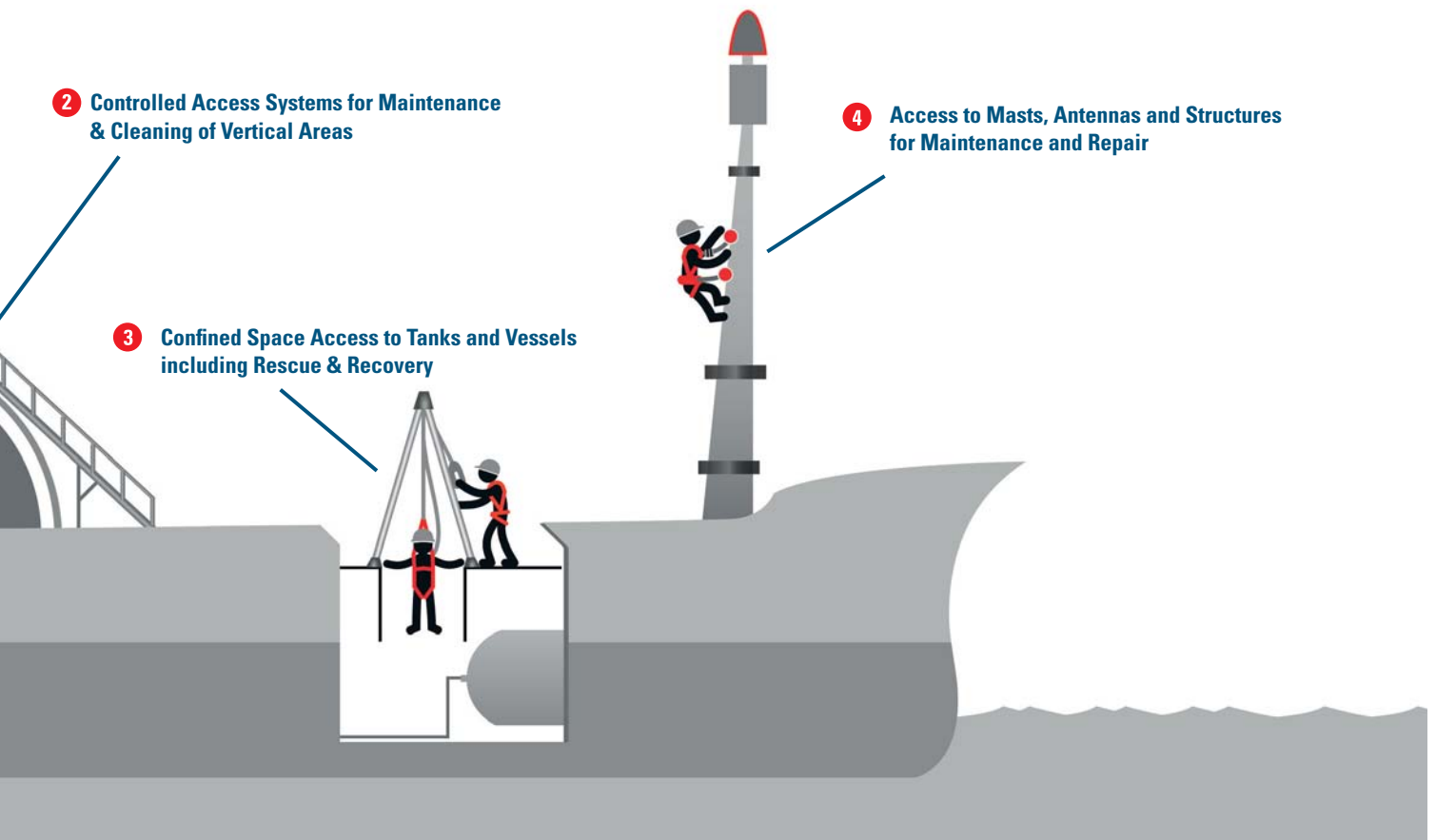
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## SOLUTIONS FOR MARINE OPERATIONS

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Pre assembled kits covering key activities  
Bespoke solutions for specific applications

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### 3 Confined Space Access to Tanks and Vessels including Rescue & Recovery

Vessels have areas that can be classed as confined spaces. Access to which may be required for inspection or maintenance, e.g. tanks or pits.

Where no access equipment is in-situ a work position system can be added to raise and lower the worker.

It is important to be able to recover the worker back to the point of entry.

- Work positioning systems for accessing the side of the vessel are also suitable for many confined space applications.
- A Rescue and Recovery system that can be operated outside of the confined area will avoid placing rescuers at unnecessary risk.
- Assessment of the environment for issues relating to gasses and heat or humidity should also be carried out.

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### 4 & 5 Access to Masts, Antennas and Structures for Maintenance and Repair

The majority of vessels include Masts, Antennas or structures that require ongoing maintenance and inspection e.g navigation or warning lights.

The worker will require;

- **Fall Protection during access and egress**  
A harness and double lanyard for one off tasks, with the option of Temporary Vertical Line Systems or Fall Arrest Blocks for more involved tasks.
- **Fall Protection and Support whilst carrying out the task**  
Use fall protection equipment for security, adding a work position device to support the worker in location will free up their hands.
- **Post Fall Rescue and Recovery procedures.**  
The procedures must address rescue during access and egress or recovery from the work site



# MARINE OPERATIONS

## Core Kit

- Maritime Harness
- Spanhoist II Kit
- Double Fall Arrest Lanyard
- Fall Arrest Lanyard
- Sleeved Anchorage Sling



- Maritime Harness
- 2 Point Full Body Harness
- C/W Work Positioning Belt
- For restraint, positioning and Fall Arrest use.



- Spanhoist II Kit
- Work positioning system
- C/W 3:1 Mechanical advantage for raising, lowering and positioning worker



- Double Fall Arrest Lanyard
- C/W clip back loops for attaching to anchors or structures



- Fall Arrest Lanyard
- C/W clip back loops for attaching to anchors or structures



- Sleeved Anchorage Sling
- To provide secure anchor points on structures



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## MARINE OPERATIONS

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### Core Kit

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- Gotcha Rescue Kit
  - Grabba Bag
  - Vertical Rope Line
  - Work Positioning Chair
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- Gotcha Rescue Kit
  - C/W remote attachments for recovery of suspended casualties



- Grabba Bag
- Rated lifting bag
- For rescue training practice



- Vertical Rope Line
- C/W Fall arrest traveller
- For security when climbing



- Work Positioning Chair
- Comfort seat to integrate with the Maritime Harness
- For use with the Spanhoist kit



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## MARINE OPERATIONS

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### Kit Enhancements

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2-XR Harness

Work Positioning Lanyard 2m

Tripod Bundle

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### 2-XR Harness

- Lightweight Full Body Confined Space and Fall Arrest Rescue Harness
- Front and Rear Fall Arrest Attachments
- Adjustable at leg loops, shoulders and chest
- Available in standard size
- Steel attachment points and shoulder adjustment buckles.
- Supplied with clear user instructions
- Individually serial numbered certification for traceability
- Pocket Inspection Guide
- CE approved to EN361

**Order Code: 2-XR**



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### Work Positioning Lanyard 2m

- Kermantle Rope Work Positioning Lanyard
- Screw-link connector for semi permanent attachment
- Alloy double action karabiners for lightness, and security
- 2m in length including fittings
- Easy adjustment mechanism to set your work position accurately
- Protective sleeve
- Supplied with clear user instructions
- Individual serial numbered certification for traceability
- CE approved to EN3581

**Order Code: 5/2696-WPLANY-2M**



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### Tripod bundle

- For access and security when working in confined spaces
- Tripod c/w 30m Fall Arrest Recovery Block
- Aluminium rescue tripod
- Adjustable from 1.5m to 2.4m
- Rated for two persons
- Bracket for mounting fall arrest block
- Anchor point for Spanhoist
- Supplied with clear user instructions
- Individual serial numbered certification for traceability
- Tripod CE approved to EN795 Class B
- Recovery Block CE approved to EN360 & EN1496

**Order Code: 5/2993**





<b>CORE KIT</b>		1. Access and Security at Height in Plant Rooms and over Machinery	2. Controlled Access Systems for Maintenance & Cleaning of Vertical Areas	3. Confined Space Access to Tanks and Vessels including Rescue & Recovery	4&5. Access to Masts, Antennas and Structures for Maintenance and Repair
Maritime Harness		✓	✓	✓	✓
Double Fall Arrest Lanyard		OPTIONAL			✓
Fall Arrest Lanyard		✓			OPTIONAL
Attachment Sling		✓	✓	✓	✓
CLIMA VL 30m		✓	✓	✓	✓
Spanhoist			✓	✓	
Gotcha Kit		✓	✓	✓	✓
Grabba bag			TRAINING AID FOR RESCUE	TRAINING AID FOR RESCUE	
Work Position Seat			✓	✓	
<b>KIT ENHANCEMENTS</b>		1. Access and Security at Height in Plant Rooms and over Machinery	2. Controlled Access Systems for Maintenance & Cleaning of Vertical Areas	3. Confined Space Access to Tanks and Vessels including Rescue & Recovery	4&5. Access to Masts, Antennas and Structures for Maintenance and Repair
2_XR Harness			OPTIONAL	✓	
Work Positioning Lanyard		OPTIONAL			✓
Tripod Bundle				✓	



## SpanSet Maritime Training.

SpanSet has drawn on its experience in delivering training to some of the world's largest shipping fleets, and designed a series of training courses to enable crew to safely carry out work at height on your vessel.

### **Core Skills:**

This course is designed to enable crew to correctly select and carry out pre use checks of personal fall protection equipment. This course is ideally suited to the vessel's crew who work at height.

### **Rescue Training:**

It's imperative that a ship's crew are able to rescue a colleague should they become suspended. The Gotcha rescue course provides practical training in the use of this tried and tested rescue system. This course is an enhancement to the core skills training.

### **Confined Space Access and Rescue:**

This enhancement to the core skills course instructs crew in the erection and operation of equipment to gain access to and rescue persons from confined spaces on the vessel.

### **Controlled Access System Training:**

Vertical areas of the ships structure can be difficult to access. This practical course enables crew to deploy the SpanHoist system and access locations for maintenance or cleaning. This course is an enhancement to core skills training.

### **Equipment Examination:**

Attendance and completion of this course allows persons such as the ship's safety officer to conduct thorough examinations of personal fall protection and rescue equipment as required by various national regulation and laws.

### **Managing and Supervising Work at Height:**

This course is targeted at persons who plan, supervise and manage work at height operation on board ship such as the Captain his officers and boswain. The course covers the legislation and law relating to work at height, Planning work at height activities and risk assessment, control of equipment and provision of rescue cover.

## MARINE OPERATIONS

More from SpanSet

Inspection  
Service  
Installations



## Annual Inspection & Testing Service

European Standards dictate that all items of PPE for work at height and all safety systems undergo a periodic examination by a competent person. In addition, in the UK, "BS 8437:2005 Code of practice for selection, use and maintenance of personal fall protection systems and equipment for use in the workplace." Section 13.1.2 –States "Formal inspection procedures should be put in place by employers to ensure that personal fall protection equipment is given a detailed inspection ("thorough examination") by a competent person before first

use and at intervals not exceeding 6 months (or 3 months where the equipment is used in arduous conditions), and after circumstances liable to jeopardise safety have occurred. SpanSet can perform the thorough inspections required by legislation and/or equipment manufacturers. We can also provide training for Competent Persons and therefore the combination of your staff and our services can increase the safety and ensure compliance.

## Installations

For some tasks the measures you employ may be temporary, providing safe working conditions for the duration of the works and removed upon completion. This approach has limitations in that installation and removal of a temporary system may include some risk and can be time consuming. In the case of tasks carried out regularly or repeatedly in locations where access is required more often a permanently installed safety system offers a better solution. The advantages are that

once installed a permanent system provides safe conditions for all users. It is simple to use, easy to maintain and is unobtrusive having very little impact on the surrounding environment. SpanSet installations – the total solution from survey, quoting, supply, installation to periodic testing and maintenance to all BS 7883:2005 – Code of practice for the design, selection, installation, use and maintenance of anchor devices conforming to BS EN 795.

## More From SpanSet



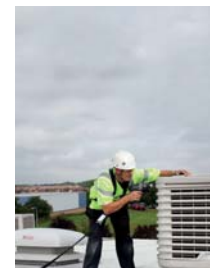
**Height Safety**



**Lifting Systems**



**Load Control**



**Safeline Systems**



**CAPCHA**  
Vehicle Fall  
Protection Systems



**STOPPA**  
Vehicle Fall  
Protection Systems

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