

SpanSet®

Wind Power

Height Safety
Lifting
Load Control
Safety Management



SpanSet Worldwide



SpanSet is here for you:

Switzerland, Australia, Austria, Brazil, China, France, Germany, Hungary, UK, Indonesia, Italy, Poland, Spain, Taiwan, USA.

The SpanSet Group are world specialist in Height Safety, Lifting and Load Control, with fifteen operating plants across the world and the support of a global network of dealers.

SpanSet Australia is based in a modern, purpose-built factory in Emu Plains NSW and has been in operation for over 25 years.

The company's vast experience in height related work products provide the perfect background to develop an innovative range of height safety equipment, lifting slings and specialised work situation equipment.

For more information log onto: www.spanset.com.au



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01





Height Safety

Wind Tower Harness	06
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HEIGHT SAFETY

1600 Wind Tower Harness
3058E HD Lanyard
3055E HD Lanyard



Wind Tower Harness

- Full body work restraint and fall arrest harness, with integral work positioning belt
- Front and rear fall arrest attachment
- Side-D work positioning attachment points on waist belt
- Adjustable at leg loops, shoulders, chest and waist
- Steel buckles and fittings high strength and corrosion resistant
- Wide and supple providing increased comfort
- High strength and corrosion resistant
- Supplied with clear user instructions
- Individually serial numbered certification for traceability
- CE approved to EN361 and EN358.

Code: 1600-ERGO-RW-WIND



Twin Leg Lanyard

- Twin leg type lanyard
- Elasticised webbing construction
- 1.8 metres in length
- H1HD heavy duty and trip resistant snap hook at shock absorber end
- H3HD heavy duty and trip resistant scaffold hook on each free end
- Weighs 2770g.

Code: 3058E HD



Single Leg Lanyard

- Single leg type lanyard
- Elasticised webbing construction
- 1.8 metres in length
- H1HD heavy duty and trip resistant snap hook at shock absorber end
- H3HD heavy duty and scaffold hook at free end
- Weighs 1630g.

Code: 3055E HD



HEIGHT SAFETY

RedPro SKV Rescue Kit EXOSET PPE Lifting Points



RedPro SKV Rescue Kit

The Red Pro is a pre-assembled 125m kit that can be used for personal evacuation, assisted evacuation or rescue of a casualty from high or remote locations.

The kit comes complete with an anchor slings capable of attaching to a wide range of structures, all terminations are sewn for security, the descent device operates automatically at a constant speed requiring no input from the user and can also be used for raising a casualty if required.

This kit is commonly used by wind energy access technicians and general operators looking for versatility in a kit. The unit comes in a sealed weatherproof bag and a sturdy SKV box.

Kit Contains:

- Rope descent and rescue controller
- 125m rope
- 3 x Attachment slings
- 4 x RedPro Karabiners
- Edge protector
- Pulley
- Rope grab
- Concealed blade rope cutter
- Inspection tags
- Hard storage box with protective bag (vacuum model bag optional).

CODE: REDPRO-SKV-125



NOTE: SpanSet Australia Ltd is the authorised Australian RedPro Service Provider

Exoset PPE Rotating Anchor Points

- Certified anchorage point for fall arrest
- Suitable for rescue and evacuation
- 360° swivel
- Loadable though 180°
- 1 person (M12) or 2 person (M16) versions available
- Longer threads for through holes also available
- Individually serial numbered for traceability
- CE approved to EN795.

Codes: XOPSR-00-08 to XOPSR-12-48



02





Lifting

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HEAVY LIFTING

Tower Attachment Points (TAPS)
Magnum-X Roundsling
Vario J Hook
Lifting Beams



Tower Attachment Points (TAP) and Vario TAP

- Universal lifting point for tower segments
- Simplifies and reduces rigging time
- For flange diameters from 2m to 6m
- Up to 100 tonne tower segments
- Factor of safety 5:1
- Weight 30kg
- Individually serial numbered for traceability
- 2006/42/EC.

Code: TAP25/VTAP35

Magnum-X Roundslings

- High performance lifting sling
- -10 to 250 tonne WLL
- High performance fibre core and sleeve
- 50% more compact than standard roundslings
- 50% lighter than standard roundslings
- High abrasion and cut resistance
- Individually serial numbered for traceability
- 2006/42/EC.

Code: MAG10000 to MAG250000

Vario J Hook

- J hook for smooth lifting and turning of segments
- 40t or 60t WLL
- Remote fitting and release
- Eliminates flange loading pressure under rotation of tower segment
- Individually serial numbered for traceability
- 2006/42/EC.

Code: VJHOOK



Lifting Beams

- For tower segments, tripods, monopiles, blades, hubs and nacelles
- FEM design capability for specific applications
- Designed and manufactured to EN13155
- 100% magnetic weld crack detected
- At least 2000 load cycle testing
- Individually serial numbered for traceability
- 2006/42/EC.

Codes: ST.05.01.01 to ST.05.03.06 and ST.15.05.06



LIGHT LIFTING

Tuff Bucket Lifting Bags
Safe Lifting Kits
Exoset Lifting Points
Supra Plus Roundslings



Tuff Bucket Lifting Bags

Tuff Buckets are load rated lifting buckets used for lifting, hoisting, and transporting tools, equipment, and work supplies to service locations at heights. As a pioneer in rigging and lifting buckets, Tuff Bucket recognizes the importance of safety.

Load Ratings - A Higher Standard

- Engineered and performance tested to withstand 500% of its upright rated capacity without exhibiting signs of stress or failure
- The closable top of each Tuff Bucket is load rated to contain the buckets payload
- The Tuff Bucket closure will withstand 200% of the buckets rated capacity while upside-down.

Codes: TB25152/ TB4151/ TB5171



Safe Lifting Kits

Limit manual handling injuries with this quick and foolproof, 2:1 hauling kit. For loads up to 50kg. Ideal for transferring tools into a wind turbine, crane, or any elevated structure.

- Drop proof auto lock function
- Available in 25m and 50m lift heights
- Factor of safety 7.1
- WLL 50kg
- Can be used with Tuff Bucket lift bags.

Codes: SLK-25, SLK-50



Exoset Lifting Points

- Range of rotating eyebolts and attachment points for lifting
- Rotate through 360°
- Self-aligning to load direction
- No loss of WLL at any permissible angle
- Minimum safety factor of 4:1 in any direction
- Hand tighten by hex key for single lifts
- 2 year warranty
- Threads from M8 to M56
- Individually serial numbered for traceability.

Code: XOPSTR-00-08 to XOPSTR-20-48



Supra Plus Roundslings

- High performance general purpose lifting slings
- 500kg to 10000kg WLL
- 0.5m to 60m EWL for Supra Plus
- High abrasion resistance
- At least 3 times longer life than standard slings
- Optional Secutex anti-cut protective sleeve
- Individually serial numbered for traceability
- EN 1492-1 or EN1492-2.

Code: SP1000 to SP8000



03





Load Control

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LOAD CONTROL

ABS 10T Ratchet 20040

secutex®

Rotor Blade Holder

Tower Attachment Points (TAPS)

Racks



ABS Ratchet Systems

- High performance ratchet lashing systems
- Tension on and off function
- Patented Tension Force Indicator – added security against unintentional over tensioning
- Epoxy coated for long working life
- Ergonomic pull down action handle available
- Available in 5t to 25t lashing capacity
- Individually serial numbered for traceability.

Codes: 20020/20035/20040

Rotor Blade Holders

- Protects the blade during sea and road transport
- Simple to use with exchangeable inserts to accommodate different blades
- Stackable and lockable
- Individually serial numbered for traceability.

Code: Rotor Blade Holders



secutex®

- The best way to protect lifting slings and lashing straps from abrasion and cutting
- Simple and quick to use.
- Prolongs working life
- Available to suit all size slings and lashings
- Individually serial numbered for traceability.

Codes: SF1-50 to SF1-30/SF2-50 to SF2-300/
SC-50 to SC300



LOAD CONTROL

ABS 10T Ratchet 20040

secutex®

Rotor Blade Holder

Tower Frames

Tower Attachment Points (TAPS)



Tower, Hub and Nacelle Transportation Frames

Inappropriate lifting and unsuitable storage methods can often lead to costly damage which is ultimately avoidable.

During the journey from place of manufacture to place of assembly, heavy segments of turbine tower, large nacelles and extremely long rotor blades are moved back and forth and transported across long distances.

In doing so, they are not simply transported along well built streets; shipping and transportation to often difficult-to-access building sites must also be taken into account.

SpanSet's tower, hub and nacelle frames are:

- A simple way to transport and store items safely
- FEM designed
- All welds to TÜV Class E rating
- 100% magnetic weld crack detected
- Individually serial numbered for traceability.

Code: N/A

Tower Attachment Points (TAPS)

- The Tower Attachment Point (TAP) was redeveloped for tower segments of up to 100 tonnes
- For ease of on and offloading and load securing
- Suitable for road and sea transportation
- Both long holes are slightly curved to match the radius of the tower, allowing mounting to almost any tower segment
- Factor of Safety 10:1
- Each individual TAP bracket has a load capacity of 25 tonnes at a maximum acceptable angle of 30° to the lifting device



- No need to remove during manufacture, transportation or installation
- TAP brackets are drop-forged and are made of high-quality heat-treated steel
- Saves hours of time per section, providing large cost savings
- Multiple lashing hooks can be attached to the TAP bracket simultaneously.
- Individually serial numbered for traceability.

Code: TAP25/VTAP35



04





Safety Management

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SAFETY MANAGEMENT

Training Courses



Wind Access Rescue Technician

Module RE05

Duration

2 Days if candidate has obtained a Nationally Accredited Work Safely at Heights Statement of Attainment

3 Days including Work Safely at Heights

Ratio of Trainers to Trainees

1:6

2:10

Introduction

The course is designed to provide:

- The necessary skills to assess and plan a wind turbine rescue and how to make the casualty safe and remove them to the ground.
- The knowledge and skills to respond to a variety of rescue situations commonly encountered whilst working on wind turbines in areas such as the tower, yaw deck, nacelle, roof and hub.

Pre-Requisites

Students must have completed a Nationally Accredited Work Safely at Heights or Work Safely on Roofs Statement of Attainment PUAEME001A Provide Emergency Care or
Current First Aid/CPR Certificate.

Course Elements

Theory

- Legislation
- Hazard analysis and risk assessment
- The importance of rescue provision
- Individual and team safety
- Rescue equipment
- Anchor points and rigging including edge protection
- Rescue techniques
- Casualty management
- Inspection and record keeping procedures

- Limitations of use and when to retire height safety and rescue equipment from service
- Strengths and characteristics of equipment
- Pre-use inspection, installation and use of work restraint techniques
- Pre-use inspection and use of single/twin leg fall arrest lanyards
- Pre-use inspection and use of fall arrest blocks
- Pre-use inspection and use of work positioning systems
- Understanding simple mechanical advantage.

Practical

- Pre-use inspection, correct fitting and adjustment of fall arrest harnesses and buddy checks
- Identification of supplied rescue kit(s) and its components
- Select and rig anchor points
- Demonstrate work positioning in conjunction with fall arrest
- Safe climbing using twin leg fall arrest lanyards
- Safe climbing using in-situ permanent ladder systems
- The deployment and practical use of a pre-rigged rescue kit to perform post-fall rescue and evacuation activities using a rescue kit containing an auto-locking descender and/ or a CRD to access a casualty and evacuate safely.

Training Courses



Assessment of Candidates

Written theory assessment with multiple choice and short answer questions. Requires 100% pass mark for competency.

If a candidate gets a total score of less than 100% then the trainer will explore the candidates' knowledge of the topic. Where the candidate has a good knowledge of the topic the result may be amended.

Practical assessment requires candidates to prepare and respond to a rescue scenario by:

- Assessing the scene
- Performing various rescue and evacuation techniques
- Conclude rescue operations.

Training Outcome

Statement of Attainment as a:

- Wind Access Rescue Technician using the following units of competency:
 - PUAOHS001B: Follow Defined Occupational Health and Safety Policies and Procedures
 - PUASAR022A: Participate in a Rescue Operation

for all candidates who are successfully deemed competent

- ID card for all candidates.

SPANSET RECOMMEND RESCUE AND EVACUATION RETRAINING EVERY 12 MONTHS

SpanSet height safety and specialist access courses are designed to provide our clients with all the necessary information, instruction and training to operate both safely and efficiently.

However SpanSet understand that our clients may have specific training requirements for which set courses will not cater.

Height Safety for Industry

Module HS01
Height Safety Theory

Module HS02
Fall Arrest

Module HS03
Occasional Industrial Climber

Module HS04
Rooftop Safety/ Work Restraint

Height Safety Management

Module HSM01
Height Safety Supervisor

Module HSM02
Height Safety Inspector

Module HSM03
Height Safety Manager

Rescue and Evacuation from Heights

Module RE01
Towers, Masts and Structure Rescue

Module RE02
Rescue Systems Operator

Module RE03
Tower and Pole Rescue

Module RE04
Vertical Rescue

Module RE05
Wind Access Rescue Technician

Module RE06
Swing Stage Rescue and Emergency Escape

Module RE07
Elevated Work Platform Emergency Escape

Confined Space Training

Module CS01
Enter a Confined Space

Module CS02
Breathing Apparatus

Module CS03
Non Entry Confined Space Rescue

Module CS04
Confined Space Vertical Rescue

Module CS05
Confined Space Refresher

SAFETY MANAGEMENT

Consultancy



Rescue Planning

If you have selected a method of working that could result in a worker being suspended in a harness, for example fall arrest, or work positioning techniques, then you must consider the rescue implications.

Rescue for personnel suspended at height is an issue that needs addressing for workers, whether they are at 2m or 200m. Traditionally a great deal of emphasis has been placed on this area by those working in extreme environments and quite rightly so. It also applies however to areas that appear more straightforward, but in these areas it is seldom addressed.

Unconsciousness or death can occur to a suspended casualty even though they may not be injured after their initial fall. This is due to a decrease in the effective circulation of oxygenated blood around the body caused by a combination of factors, such as body position, compression by the harness and a lack of muscle pumping of venous blood. If the worker is able to move, or relieve the pressure points, then the side effects can be dramatically reduced.

However, in the case of an unconscious worker the side effects continue unchecked and rescue is the only option. The time it takes for this condition to affect a person can vary greatly, so having an effective solution at hand for a speedy resolution is essential.

There are several approaches to rescue provision, 1st Response Rescue, Emergency Response Teams and the Emergency Services, each approach having its own merits and disadvantages. The rescue equipment can also take many different forms all with different levels of risk, training requirements, aptitude

and commitment. It is therefore important to identify the solution that is right for your application. In order to do this you must consider all the variables such as the equipment they are using, where they are using it and the capability of the users.

SpanSet Australia is an industry leader for the innovation of post fall rescue systems and training solutions. We offer a hierarchy of rescue solutions ranging from remote attachment to vertical descent rescue.

In this solution SpanSet training services has introduced our new one day nationally accredited RSO post fall rescue course that ensures workers can deploy and effectively conduct a post fall rescue in a vast number of different workplace scenarios utilising a pre-assembled rescue kit. This minimises down time and costs to our customers and helps company's WHS compliance.

Site Surveys

SpanSet training services offer workplace site surveys in order to help their clients clearly identify particular site hazards for high risk activities such as working at heights and confined space work tasks.

In order to achieve this we listen to our clients and observe operations to gain a clear understanding of current work practices, policies and procedures as well as key objectives of the operating business and desired outcomes that need to be achieved.

A SpanSet specialist consultant can be a valuable partner to assist you in achieving a safer workplace.

Work Procedure Safety Audits

SpanSet training services offer safety audits on work environments, procedures, safe work method statements and worker behaviours for both industry and government.

Following the safety audit we produce a detailed report identifying areas of safety non compliance or opportunities for improvement.

In consultation with your organisation SpanSet can assist in the development and implementation of solutions to enhance your workers safety, and to maintain compliance with current WHS legislation.

Equipment Evaluation

SpanSet is committed to ensure our customers are using the correct equipment for their associated tasks. Too often we see equipment being utilised that is under rated for its intended use or not compliant to the relevant Australian or European standards.

By communicating with our customers from the procurement stage through to the training or implementation stages, SpanSet is able to ensure the right products are in place, without bias, to satisfy our customer needs in the most cost effective manner.

SpanSet's aim is to develop on-going partnerships with its customers to support existing products and to provide solutions to new challenges.

We will ensure that all equipment you are using complies with the relevant standards and fit for purpose.

OTHER SERVICES



More from SpanSet

ABS Ratchet Systems



Lifting Solutions



Height Safety



Webdogs



Gotcha™ Rescue Kits



Inspector App for iPhone and Android



Training



Authorised Australian RedPro Service Provider





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