ERGOlite Harness Range

1000 ERGOlite Ultra Full Body Fall Arrest Harness

1100 ERGOlite Full Body Fall Arrest Harness

1104 ERGOlite Full Body Fall Arrest Harness

1107 ERGOlite Full Body Fall Arrest Harness

1300 ERGOlite Full Body Fall Arrest Harness
## User Weight Limits

All harnesses = 160kg. Refer to specific lanyard and inertia reel data for force calculations.

### Attachment Hardware

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
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</thead>
</table>
| **Rear D** | Forged aluminium  
Cranked (bent) for ease of attachment  
Polished for smoother edges  
Clear anodised for corrosion resistance  
Minimum tensile strength 22kN (5M–5000lb)  
Proof loaded to 16kN  
Ring internal diameter 54mm  
Webbing slot size 16 x 54mm  
Compatible with Gotcha™ Rescue Kit  
Laser etched with batch number and rating |
| **Front D** | Forged aluminium  
Polished for smoother edges  
Clear anodised for corrosion resistance  
Minimum tensile strength 22kN (5M–5000lb)  
Proof Loaded to 16kN  
Ring internal diameter 46mm  
Webbing slot size 11mm x 46mm  
Compatible with Gotcha™ Rescue Kit  
Laser etched with batch number and rating |
| **Buckles** | 2 bar buckles for easy adjustment  
17.8kN/4000lb  
Clear anodised for increased corrosion resistance  
Webbing slot size 46mm  
Stamped with batch number and rating  
Exceed AS/NZS 1891.1 |
| **Buckles 1000 ERGOlite Ultra** | 2 + 3 Bar Buckles  
17.8kN/4000lb  
Clear anodised for increased corrosion resistance  
Webbing slot size 46mm  
Stamped with batch number and rating  
Exceed AS/NZS 1891.1 |
**Quick Connect Buckles** (Except 1000 ERGOlite Ultra)
- Double action pawls
- “Green light” safe connection indicator
- Lightweight aluminium
- Anodised for corrosion resistance
- Integrated roll buckle adjuster
- Extruded and machined

**Webbing**
- Colourfast polyester high tensile
- Heat set for lower friction co-efficient – longer wear
- Light (UV) degradation certified to AS/NZS1891.1
- Minimum tensile strength 30kN
- Lay flat – non-roping

**Sewing**
- High tensile polyester light fast, UV resistant thread
- Load bearing seams sewn with high density, multi-bar tack patterns for extra wear and ease of inspection
- Load bearing seams sewn on computerised lock-stitch machines for consistency and security
- Contrasting colour for ease of inspection
- Non load-bearing patterns (labels, web end fold backs, decorative etc) flat manual sews
- All finished with over-stitching

**Labels**
- Compliance labels protected in openable pouch
- UV resistant PVC
- Thermal transfer printing

**Webbing Keepers**
- Nylon high density elastic for easy stowage of excess webbing
- Contrasting black for quick identification
- Rubber pull tabs on all end straps
| **Suspension Trauma Relief Straps** | 20mm nylon webbing  
| | 2-part hook and loop design  
| | Housed in individual zippered soft pouches  
| | Attached to harness via reevable loop and positioning press studs  
| | Length adjusting increments 185mm  
| | 300 Kg WLL  |

| **Waist and Buttock Padding** | Motion activated ventilation bellows effect  
| | Composite foam and mesh  
| | Moulded and formed for greater ergonomics  
| | Nylon abrasion resistant outer shell  
| | Nylon mesh, breathable inner lining  
| | Stiffened and reinforced for additional support  |

| **Confined Space Attachment Loops** | (except ERGOlite 1000)  
| | UV resistant polyester tubing  
| | Tight and small enough to fit snap hooks  
| | Colour contrasted for ease of identification  
| | Must be used together  
| | Clearly labelled  |

| **Construction** | Original ERGO Euro style geometry  
| | 3 layer pocket webbing supporting load bearing Chest strap for front D  
| | ERGOnomic, pull up adjustment at front shoulder straps  
| | Sub-pelvic strap to minimise peel out  
| | Fully adjustable shoulder, leg and chest straps  
| | Leg straps fixed at hips – no excessive tightening around thighs in the event of an arrested fall  
| | Front D allows for easier attachment with remote rescue kits  
| | Centralised front D gives even loading  |
Sizing

<table>
<thead>
<tr>
<th>Harness Size</th>
<th>M</th>
<th>L</th>
<th>XL</th>
<th>2XL</th>
<th>3XL</th>
<th>4XL</th>
<th>5XL</th>
<th>6XL</th>
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<tbody>
<tr>
<td>Medium</td>
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Testing

5-stage inspection process during manufacture:
- All harnesses tested and certified to AS/NZS1891.1 - 2007
- 100% visual inspection
- Rear D and front D’s tested to dynamic 3.8m head up and head down
- Rear D and front D’s tested static 15kN head up and 10kN head down
- Side Ds – 1.8m drop test on pole 12kN static test at side Ds and rings
- Confined space loops – 12kN static test through spreader bar
- Webbing UV degradation tested

Certification

Designed, tested and certified to AS/NZS1891.1-2007

Common Features

- Lightweight and comfortable
- Easy to fit and adjust
- Individually serial numbered
### Features

<table>
<thead>
<tr>
<th></th>
<th>1000 ERGOlite</th>
<th>1100 ERGOlite</th>
<th>1104 ERGOlite</th>
<th>1300 ERGOlite</th>
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</thead>
<tbody>
<tr>
<td>Harness Weight</td>
<td>0.690kg</td>
<td>1.215kg</td>
<td>1.284kg</td>
<td>1.720kg</td>
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<tr>
<td>Breathable rear mesh panel</td>
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<tr>
<td>Confined space attachment loops</td>
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<tr>
<td>Front fall arrest D ring</td>
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<tr>
<td>Padded waist band and side pole strap widemouth Ds</td>
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<tr>
<td>Rear fall arrest D ring</td>
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<tr>
<td>Rear fall arrest extension strap</td>
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<tr>
<td>Suspension trauma relief straps</td>
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<tr>
<td>Waist band and side Ds</td>
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</table>

### Suitable for

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<tr>
<th></th>
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<th>1100 ERGOlite</th>
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<th>1300 ERGOlite</th>
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<tbody>
<tr>
<td>Confined space entry</td>
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<tr>
<td>Construction</td>
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<tr>
<td>Elevated work platforms</td>
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<tr>
<td>Fall arrest</td>
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<tr>
<td>Hire industry</td>
<td>•</td>
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<tr>
<td>Ladder safety systems</td>
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<tr>
<td>Maintenance</td>
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<tr>
<td>Pole work</td>
<td>•</td>
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<tr>
<td>Rescue</td>
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<tr>
<td>Roof work</td>
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<tr>
<td>Rope access</td>
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<tr>
<td>Tower work</td>
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Types of Attachment Points

1. **Confined space attachment loops**  
   Reverse folded loops to eliminate snagging and minimise metal components in contact with the body. Both loops must be used together.

2. **Front fall arrest D ring**  
   For versatility and ease of rescue.

3. **Pole strap attachment D rings**  
   Easy to locate and connect to.

4. **Rear fall arrest D ring**  
   Easy to locate and connect.
Front Fall Arrest Loops
(Both loops must be used together)

Auxiliary Pole Strap Rings
(Both Ds must be used)

Front Fall Arrest
Attachments (can also be used for abseiling, work positioning or belay work)

Dorsal/Rear (Fall Arrest)
Extension Strap

WARNING: ONLY USE ATTACHMENTS THAT ARE SPECIFICALLY LABELLED FOR THE APPLICATION
Fitting Instructions

Vest Style Harnesses

Hold harness by the Rear D with all straps undone

Place both shoulder straps over the shoulder as in donning a vest

Connect chest buckle, ensuring that green spot is seen in the receiver window. Tighten strap.

If a waist belt is fitted, connect and tighten

Connect leg buckle

Tighten leg strap

Connect opposite leg strap

Tighten straps and retain free webbing within the elastic web tidy

Fitted harness should be snug and firmly fitted, particularly the leg straps
Step-in Style Harnesses

Hold harness by the shoulder straps and disconnect the chest fast release buckle

Place left leg through the left leg strap

Place the right leg through the right leg strap

Pull the harness upwards to waist level

Place the left shoulder strap over the shoulder

Repeat for right shoulder strap and connect the buckle. Ensure green spot can be seen in the receiver window

Tighten waist strap by pulling both sides

Tighten leg straps

Fitted harness should be snug and firmly fitted, particularly the leg straps
Buckle Connection Instructions

2-3 Bar Buckles

Bring the 2 buckles together, ensuring there are no twists in the webbing

Turn the 3 bar buckle and push it through the 2 bar buckle

Ensure both buckles lay flat against one another and tension the strap

Quick Connect Buckles

Align the tongue with the slot in the receptor buckle and insert

Push together until you hear a distinct click and the green mark appears in receiver window

To release, push the two side tabs simultaneously and separate the buckles

Slotted Buckles

Bring the 2 buckles together, ensuring there are no twists in the webbing

Push the smaller buckle through the slot in the larger buckle

Ensure both buckles lay flat against one another and tension the strap
Dorsal Extension

The dorsal extension is located at the rear of the harness, held in place by velcro strip.

Remove dorsal extension from velcro strip and bring under the armpit.

Ensure the eye is open to receive the connection hardware.

Note: All SpanSet dorsal extensions are deliberately located on the rear of the harness in order to keep an attached lanyard away from the neck and face.

The harness is correctly fitted (donned) when:

- The dorsal D ring (rear) is between the shoulder blades
- The shoulder straps are firm
- The chest strap is firm and located mid-chest
- The leg straps are firm
- There are no twists in any straps
- The butt strap is located just below the buttocks
- Spare strap ends are tucked away.

Connect attachment hardware to the eye, making a visual check for secure connection.
Types of Harnesses and Environmental Conditions

**ERGOplus and ERGOiplus Harnesses**
These premium harnesses are padded for comfort and feature quick connect buckles for convenience when donning. For professional users in dry conditions where no excessive dirt, mud and grime build up is experienced. ERGOiplus also features iWeb inspectable webbing with Xtreme Guard coating.

**ERGO Harnesses**
These are the workhorses in the range and are best suited for dirty and harsh conditions by professional operators who appreciate no nonsense reliability. They feature the most reliable buckle system, being the 2 and 3 bar buckle, and don’t feature any moving parts or unnecessary padding.

**Compliance Harnesses**
Tradie and EWP (also known as Spectre) harness are compliant entry level harnesses without many of the features of the previous harness ranges such as confined space loops, centre front D and suspension trauma straps.

**HotWorks Harnesses**
These harnesses are for use around welding, grinding and similar hot work. They are made from heat resistant materials including the padding and have a lower total cost of ownership compared to polyester harnesses which are susceptible to heat.

**WaterWorks Harnesses**
These are for use around constantly wet areas and confined spaces and utilise all stainless steel fittings for longevity. Additionally they have Xtreme Guard coated webbing for water oil and dirt resistance.

**ToughWorks**
These are PVC or polyurethane coated harnesses for added resistance to paint, abrasion and excessive wear.

**StageWorks**
These particular harnesses have little or no reflectivity for working backstage and aloft at productions where the riggers and support personnel need to work at height but remain inconspicuous.

**Belts**
Waist belts one their own must not be used for fall arrest applications. SpanSet generally only manufacture miners’ belts, to carry battery packs and self-rescuer devices. These belts may be integrated into full body harnesses however only the load bearing and tested harness attachment points listed in AS/NZS 1891.1 may be utilised in fall, rescue or suspension applications.

**Maximum User Weights**
SpanSet harnesses are rated in excess of 150kg.
General Maintenance

- A visual check should be carried out before and after daily use, and a 6 monthly periodic inspection is to be performed by a competent person and the results recorded.

- Clean prior to inspection.

Checklist for Inspection of Harnesses and Pole Straps

The following points should be checked before use:

- Check all webbing for effects of cuts, tears, abrasion, heat, chemicals, corrosives or solvents, hardening, excessive stretching, glazing due to friction, excessive wear or fuzziness, discolouration due to chemical contamination or prolonged ultraviolet exposure, excessive stiffness due to overloading, possibly as a result of a fall.

- Check all stitch blocks for broken, cut or worn stitching and damage due to heat, corrosives, solvents or mildew.

- Check all buckles and D-rings for deformation, distortion, corrosion, wear and correct orientation.

- Ensure the protective sleeve is in place on the pole strap.

- Check ID number and Standards logo for legibility.

- Check Date of manufacture - life shall not exceed 10 years.

- Check for evidence of a fall. Must be withdrawn from service after a fall and destroyed if any damage has been sustained.

- Check with the user for possible causes of damage. If any of these points are not satisfactory then the harness should be destroyed.

Inspecting iWeb Enabled Products

Webbing with iWeb is woven with a contrasting (red) core of load bearing webbing which runs the full width and length of the webbing. To inspect, simply look for signs of red in any abrasion point, scuff, or cut on the surfaces or edges. This gives an objective inspection and discard criteria for both the user and the competent inspection person to apply.
Training Courses

Height Safety
- Working Safely at Height*
- Working Safely at Heights Refresher
- Height Safety Supervisor*
- Height Safety Manager*

Rescue
- Rescue Systems Operator*
- Vertical Rescue*
- Tower and Pole Rescue*
- Wind Access Rescue Technician*
- EWP Emergency Escape
- Gotcha Rescue

Confined Space
- Confined Space*
- Confined Space - Refresher*
- Breathing Apparatus*
- Confined Space Non-Entry Rescue*

Inspection
- Competent Person Practical
- Inspection and Record Keeping*

SpanSet Accreditations

ISO 9001:2008 Certified Quality Management System
ISO 14001:2004 Certified Environment Management System
OHSAS 18001:2007 Certified Occupational Health and Safety Management Systems
Accredited Laboratory Tested by NATA to ISO/IEC 17025
ASQA Registered Training Organisation certified to ISO 9001:2008

Certified manufacturer to AS/NZS 1891.1 “Industrial Fall Arrest Systems and Devices”
Certified manufacturer to AS/NZS 1353.1 “Flat Synthetic Webbing Slings”
Certified manufacturer to AS/NZS 4497.1 “Round Slings—Synthetic Fibre”