



FULL BODY HARNESS

DATA:

Accredited to:	EN 361
Web Material:	45mm water resistant polyester.
Fittings:	High tensile steel alloy & stainless/steel.
Weight:	1.15 kg
Features:	Rear & front attachment point, rip stitch indicators



The TRGH2 harness is the “workhorse” of the industry. The harness is fitted with a rear dee and a chest mounted front dee. Utilizing the front dee, the harness can be fitted with an adjustable cows tail (TRGL) for vertical fall protection as a means of maintaining 3 points of contact whilst working on a leaning ladder. Or with a rope and grab system (TRGA12) for vertical fall protection when an operative is making repeated ascents or similarly, when restraint/work-positioning is needed in either the vertical or horizontal plane.

A variety of other devices can be used with the front dee ring, but please check for suitability.

The harness is fully adjustable and is fitted with rip stitch indicators. The ring connection between the chest & the shoulder straps, ensure no cross loading when force is applied the front dee ring.



ADJUSTABLE COWS TAIL

DATA:

Exceeds Standards:	EN358 EN354
Material:	Various
Fittings:	TRGK 11- Aluminium captive eye karabiner TRGK 2 – Twist lock karabiner
Weight:	736 g
Length:	580mm
Features:	Various length attachment points



The TRGL adjustable cows tail is manufactured by RidgeGear Ltd. in the UK. It has various uses in its original form, but has been modified to have additional attachment points for use on leaning ladders. This feature allows the user to tailor the length of the cows tail on various ladders to maintain a restraint position.

Used as an aid on a secured leaning ladder, it should be used for restraint situations only. All users should be trained and understand the dangers of using such a device in a fall arrest scenario.

ROPE GRAB

DATA:

Accredited to:	EN 353-2
Material:	St/Steel RGA 12 body. Alloy cam
Fittings:	Shock Pack fitted with alloy steel fittings or TRGK2 Twist lock karabiner.
Weight:	317g
Features:	Safety lock.
Max Arrest Force:	<6kN



The TRGA 12 is designed to provide vertical/inclined fall protection to operative ascending /descending a ladder or structure. This version of the rope grab is for use with **11mm Kernmantle Rope Only**. When used by itself, the TRGA 12 should be connected directly to the chest attachment of a harness (TRGH2/TRGH4), via a karabiner. This ensures that the operative is held closed to the structure and in the event of a slip, the fall distance and loading on the top anchor is minimal. If more freedom of movement is required, the TRGA 12 EA version is fitted with a shock pack, however in the event of a fall, the loadings will be greater and anchors should be suitably matched. This unit is successfully used in the field, for protection on portable ladders. In use, it is recommended that slight tension is placed on the rope to aid movement, as with all highly flexible systems.

In working conditions it is usual to provide additional fall protection equipment to protect the user when detaching from the device at height (i.e. TRGL Range). Normally some training is required to illustrate safe working practices.



KERNMANTLE ROPE 11mm

DATA:

Standard:	EN892
Material:	Polyamide
Fittings:	Optional
Weight:	75g/m
Features:	Sewn Loop



The TRGA11 Kernmantle rope is used for many applications in the working at height industry. Available in any length, this 11mm diameter rope is versatile and easily handled.

Normally supplied to a specific length and including a sewn loop, the TRGA11 is a low stretch static rope which lends itself well to abseiling and for use with a rope grab as part of a system.



KARABINER – TRGK1 & TRGK 2

DATA:

Accredited to:	EN 362
Material:	Steel
Gate opening mm:	20
Size mm:	108 x 58
Closure Type:	Screw gate
MBS:	30kN

DETAILS:

The TRGK 1 is the workhorse of the industry, used from rope access, to fall arrest applications. This item is also used in the leisure industry for caving and rescue.

The screw gate closure on this device means that the user must manually lock the TRGK1 after fitting.



DATA:

Accredited to:	EN 362
Material:	Steel
Gate opening mm:	20
Size mm:	108 x 58
Closure Type:	Twist lock
MBS:	23 kN

DETAILS:

The TRGK 2 is an extremely safe karabiner to use; as it takes user intervention out, by locking automatically.

Similar to the TRGK 1 in size and weight, the TRGK 2 is ideal for lanyards and aid climbing.





KARABINER – TRGK 5 & TRGK 6

DATA:

Accredited to:	EN 362
Material:	Steel
Gate opening mm:	57
Size mm:	211 x 142
Closure Type:	Twist lock
MBS:	45kN

DETAILS:

The large gate opening of the TRGK 5, make it ideal for use in industrial areas. The use of this karabiner often negates the use of a sling as it can connect directly to steelwork. It is often fitted to a double lanyard for climbing masts and steel structures. This karabiner is fitted with a twist lock closure.



DATA:

Accredited to:	EN 362
Material:	Aluminium
Gate opening mm:	25
Size mm:	125 x 90
Closure Type:	Twist lock
MBS:	30 kN

DETAILS:

The TRGK 6 is a lightweight version of the TRGK 5. This device can be fitted to fall arrest lanyards but is normally seen connected to ropes and used with rope grab systems for providing vertical protection. Used throughout the industry as part of a protection system on portable ladders.





KARABINER – TRGK 10 & TRGK 11

DATA:

Accredited to:	EN 362
Material:	Steel
Gate opening mm:	13
Size mm:	130 x 50
Closure Type:	Double action snap
MBS:	23 kN

DETAILS:

The small gate opening of the TRGK 10 means that this item is normally used for clipping directly into a dee ring i.e; on a harness.

Normally fitted to fall arrest blocks or fixed lanyards. The double action snap closure on this device means that it cannot be accidentally opened



DATA:

Accredited to:	EN 362
Material:	Aluminium
Gate opening mm:	60
Size mm:	255 x 109
Closure Type:	Double action snap
MBS:	24 kN

DETAILS:

The TRGK 11 is a large gate opening, aluminium captive eye karabiner normally fitted to fall arrest lanyards for quick clipping

The double action snap closure on this device means that it cannot be accidentally opened but allows speedy one-handed operation.





REMOVABLE EYEBOLT 12mm

DATA:

Meets Standard:	N/A
Material:	Various
Fittings:	42mm Ring Attachment
Weight:	79g
Features:	Removable and replaceable expanding element.
Max Arrest Force:	Ladder Restraint Only



The TRGK/35/12 ladder bolt is designed to be used as a restraint aid, for use in conjunction with portable/leaning ladders. This component allows operatives to install a temporary and fully removable eyebolt for securing a portable ladder, for the short duration of a given task.

The large opening of the ring attached to the eyebolt allows the use of various types of anchorage systems. The 12mm eyebolt has been tested and exceeds the 3kN static tensile force suggested by the HSE.



REMOVABLE EYEBOLT 20mm

DATA:

Meets	
Standard:	BSEN 795
Material:	Various
Fittings:	Large opening Steel Hanger
Weight:	193g
Features:	Removable and replaceable expanding element
Max Arrest Force:	See Text



In the normal scope of works, fall arrest eyebolts are tested to BSEN795, and then fitted in accordance with BS7883. Within various industries in the UK, a need was identified for a temporary and removable eyebolt to be used in conjunction with portable ladders.

The TRGK35/20 eyebolt was developed to be fitted to a single skin, brick built wall and to be used as a “better than nothing” solution, due to the difficulties and practicality of fitting in accordance with BS7883. Through testing it has been proved that the eyebolt is strong enough to support an operative falling on an approved system. However, this is dependent on the structure into which the eyebolt is fixed. The eyebolt more recently has been used as a ladder restraint device, which is recommended.

The TRGK35/20 was designed to be fitted to a 20mm diameter hole drilled into the substrate in its original form. To meet the requirements of a different industry, the TRGK35/20 will be fitted to a drilled hole of 22mm diameter. This will allow the standard eyebolt to be used with existing holes already present in the substrate. The TRGK35/20 will be used in this manner as a ladder securing device only and therefore high loading will not be expected. In tests carried out at SATRA in July 2006, it was shown that during a fall on a ladder, peak loadings of 0.7kN can be achieved.

REMOVABLE EYEBOLT 26mm

DATA:

Meets Standard:	BSEN 795
Material:	Various
Fittings:	Large opening Steel Hanger
Weight:	271g
Features:	Removable and replaceable expanding element
Max Arrest Force:	See Text



The TRGK35/26 removable eyebolt is manufactured by Tetra Ltd in the UK. In its original form of 20mm, it was designed in 2000 as a fall arrest / restraint eyebolt for the satellite and aerial industry, which had to be removable and re-usable.

The 26mm version was designed specifically for the cavity industry, to meet the requirements of the existing holes in a structure already drilled for the injection of certain types of insulation.

The TRGK35/26 was designed to be fitted to a 26mm diameter hole drilled into the substrate in its original form. The TRGK35/26 will be used in this manner as a ladder securing device only and therefore high loading will not be expected.

In tests carried out at SATRA in July 2006, it was shown that during a fall on a ladder, peak loadings of 0.7kN can be achieved.



SOFT LADDER YOKE – TRGK38/ MK2

DATA:

Accredited to:	N/A
Material:	25mm Polyester webbing
Fittings:	80mm Spring Snap Captive Karabiners. 1x end ring connecting ladder strap and 1x attachment ring each leg for securing to ladder stiles.
Weight:	370g
Length:	Ladder Yoke - Fitted 600mm:
Features:	2:1 pull ratio configuration Day glow – Hi Viz webbing
Max Arrest Force:	LADDER RESTRAINT ONLY



DESCRIPTION:

The TRGK 38/ MK2 soft ladder yoke has been designed as a component in a leaning ladder restraint system, to provide additional stability when working from ladders.

The TRGK 38/ MK2 is fitted by wrapping each leg of the soft yoke around the stiles and securing into the rings provided and then linking with the ladder strap introducing tension. This item can also be used, to facilitate working over / around obstacles.

When used in conjunction with an adjustable ladder strap, a high level of stability can be maintained on a leaning ladder.



ADJUSTABLE LADDER STRAP

DATA:

Accredited to:	N/A
Material:	25mm Polyester webbing
Fittings:	80mm Spring Snap Captive Karabiners Alloy Camlok Device
Weight:	80g
Length:	3m
Features:	2:1 pull ratio configuration Day glow – Hi Viz webbing
Max Arrest Force:	LADDER RESTRAINT ONLY



The TRGK51/3/MK1 adjustable ladder strap was designed as a ladder restraint device, to provide additional stability when working from ladders.

Normally used as part of a system, the TRGK51/3/MK1 can be fitted and removed quickly once any tension has been released via the camlok device. This item is also fitted with a karabiner attachment on each end, and allows quick connection to Dee rings and eyebolts. Tensioning the device is made easy by simply pulling on the free end of the webbing.

The TRGK51/3/MK1 is available in varying lengths to suit individual requirements and industries.



ADJUSTABLE LADDER STRAP - 6 METRE – TRGK51/6

DATA:

Accredited to:	N/A
Material:	25mm Polyester webbing
Fittings:	80mm Spring Snap Captive Karabiners. Alloy camlok device
Weight:	350g
Length:	6 metres
Features:	2:1 pull ratio configuration Day glow – Hi Viz webbing
Max Arrest Force:	LADDER RESTRAINT ONLY



DESCRIPTION:

The TRGK51/6 adjustable ladder strap was designed as a ladder restraint device, to provide additional stability when working from ladders.

Provided in sets of two the TRGK51/6 is used to create a triangulation attachment where an obstruction prevents direct attachment of the ladder restraint system. Tensioning the device is made easy by simply pulling on the free end of the webbing. The TRGK51/6 can be fitted and removed quickly once any tension has been released via the camlok device. This item is also fitted with a spring snap karabiner on each end allowing quick connection to the soft ladder yoke rings and eyebolts.



ADJUSTABLE 5 LOOPED POLE SLING - TRGK53/5L

DATA:

Accredited to:	N/A
Material:	25mm Polyester webbing
Fittings:	N/A
Weight:	138g
Length:	1.4m
Features:	Stitched with 5 loops to enable attachment to multiple pole configurations. Day glow – Hi Viz webbing
Max Arrest Force:	LADDER RESTRAINT ONLY



DESCRIPTION:

The TRGK53/5L/UKPN adjustable looped sling has been designed as a component in a leaning ladder restraint system, to provide additional stability when working from ladders.

The TRGK 53/5L/UKPNF is fitted simply by wrapping the adjustable sling around the pole at a suitable height and threading the looped section through the sling before pulling tight.

When using this component with the TRGK38/UKPN/MK1, a high level of stability can be maintained on a leaning ladder.



RATCHET STRAP

DATA:

Accredited to:	N/A
Material:	25mm Polyester webbing
Fittings:	Pre-formed ratchet unit
Weight:	283g
Length:	1 metre
Features:	Available in Day glow – Hi Viz webbing
Max Arrest Force:	LADDER RESTRAINT ONLY



DESCRIPTION:

The TRGK36/1 ratchet strap is available in different lengths. This shorter length device is used as a restraining aid and connection point between a leaning ladder, and a standard roof ladder.