arachnipod

total edge management system

CE Certified to CE0123; En795B in 3 & 4 leg configurations for maximum 2 persons

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When it's critical

the world's most **versatile** modular total edge management system

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Multi-function capabilities. Simplicity of use. Thoughtful design and robust engineering. These characteristics make Ferno's Arachnipod the world's most versatile modular total edge management system (TEMS).

Ferno are dedicated to design and innovation. We recognised the need for **one single edge management device that easily adjusts into multiple configurations that's also a safe yet cost effective total edge management system.**

The innovative Arachnipod is the result. Based on the concept of an industrial tripod, you'll find Ferno's Arachnipod is much more than just a tripod.

Components can be added or removed as required so that the Arachnipod complements existing structural or natural features.

The unique design of the patented modular head means the Arachnipod can be constructed into many different configurations including a gin pole/ monopole, bipod, tripod, quadpod, bridge system and handrail recovery monopole.

Its versatility makes it an ideal system for workers in industries such as:

- Rescue and emergency services
- Construction
- Military
- Water
- Power
- Telecommunications
- Mining
- Film industry
- Maintenance

The Arachnipod has been drop test rated for a 280 kg rescue load and has the capability of holding a 280 kg high directional load as well as a belay system. The recommended rescue belay as tested with a 280 kg rescue load is the Traverse 540˚ Belay Device.

Ferno advocates that all lowering and hauling systems should be backed up by a belay or secondary system.

Configuration	Leg setting	WLL external anchor point kg	lbs	WLL load anchored to leg kg
Gin Pole at 2050 mm extension	F-6	280	616	N/A
Gin Pole at 3050 mm full extension	A-1	150	330	N/A
A-Frame; Offset A-Frame; A-Frame with lazy leg	A-1 B-2 C-3	280 340 400	616 784 880	220 220 220
Tripod & Quadpod	A-1	400	880	220
Handrail Recovery Monopole	F-6	280	616	220
Bridge beam 2000 mm span*	A-1	280	616	220
Bridge beam 3000 mm span*	A-1	230	506	220
Bridge beam 4000 mm span*	A-1	175	385	220

*If bridge beam has Strongbac fitted, WLL for bridge beam becomes 280 kg (616 lbs) at any length up to 4m (13.12 ft) WLL for bridge trolley is 250 kg (550 lbs).

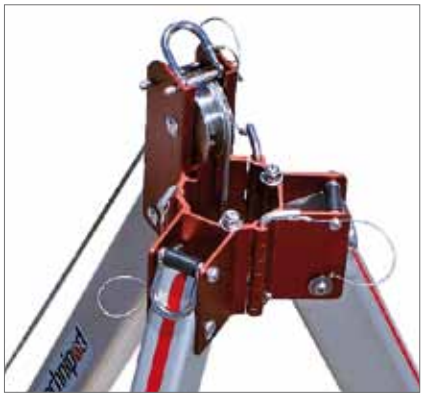
How It Works

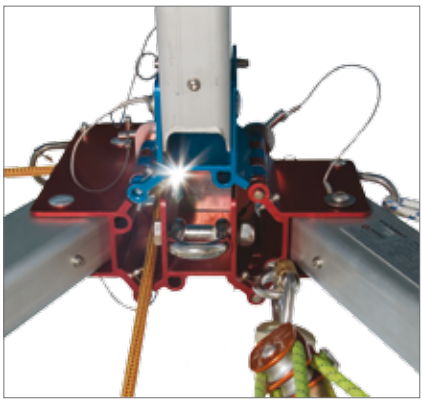
The Arachnipod in its basic form is a tripod. It consists of three telescoping legs that are each pivotally connected to an anodised head produced from aluminium extrusion with cutouts down each side.

These cutouts allow two or more heads to connect together with a Qik-link pin (similar to a hinge) which allows the quick and simple addition or removal of legs to create different configurations.

Each head has a D-shackle for guying and stabilisation. The optional pulley leg has an in-built pulley, mounted on two stainless steel roller bearings.

The stainless steel pulley has two grooves - one to take up to 13 mm rope and one to take up to 8 mm wire cable. Stainless steel detent pins prevent the rope or wire from coming out of the grooves.





Configurations

Gin Pole

The gin pole or monopole is ideal for confined spaces where there is insufficient room to use an A-frame or tripod. The Arachnipod's lazy leg converts to a gin pole by attaching the gin head to the leg assembly.

The gin pole is also used as a separate component of a complex high directional system or an additional attachment point in a high line system.

The lazy leg and gin head come standard with the Rescue, Advantage Basic, Advantage Plus and TEMS Kits or can be purchased separately.

Handrail Recovery Monopole

A handrail can be used as an artificial high directional to raise a person or rescue stretcher over an edge.

By using the pulley leg, a simple system can be easily set up to retrieve a rescue stretcher or person, over an edge and through the lower handrail gap.

This effectively transfers the load through the leg sharing the load with the handrail.

It is essential to assess the load bearing capacity of the handrail prior to using this method.

A-Frame

A conventional or off set A-frame can be easily constructed by removing one of the tripod legs. The A-frame can be used in situations where an artificial high directional is required for high lines, or in confined spaces where the area is not big enough to accommodate conventional systems such as the tripod.

An A-frame rigging plate should be used to provide additional tie-off points for stabilisation of the frame.

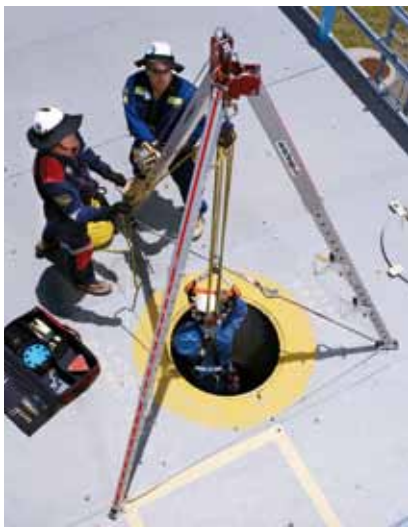
Sideways A-frame Using Pulley Head

The sideways A-frame with pulley head is ideal for situations which require a high-directional, protruding past an edge such as cliffs, high-rise buildings and bridges. Using one standard head and one pulley head introduces an in-built high directional pulley for ease of use during rescue operations.

An A-frame rigging plate should be used to provide additional tie-off points for stabilising the frame.

A-frame with Lazy Leg and Reverse Head

By using the lazy leg, the quad plate and the reverse head, an A-frame can be braced against a solid object. The reverse head has a 16 mm (5/8") stainless steel D-shackle to attach live loads which position the load directly in the centre of the legs. The lazy leg can also act as a compression and tension member during use. The lazy leg can be doubled up as a gin pole with the correct attachments. The lazy leg also converts to a standard leg using a lazy leg adaptor.



Tripod

The tripod is a self-supporting device providing quick and easy access to confined space entry points such as manholes and voids. This system can also be used as a high directional frame.

A unique feature of the Arachnipod's tripod and other kits is that it 'flat packs' for convenient storage, yet is quick and easy to set up. The system can be used with either a winch retrieval system, a mechanical advantage system or a Type 3 fall arrest block.

Tripod as High Directional System

The tripod as a high directional system can also be used as a high directional frame to support remote mechanical advantage hauling systems.

Tripod heads should be guyed with the D-shackles to remote anchor points for additional stabilisation.

Quadpod System

The quadpod allows greater versatility and stability of the system when using around larger entry areas of confined spaces. These include small trenched areas, convex and concave surfaces and larger circular openings where a conventional tripod will not facilitate the application.

When setting up the system, an additional leg is added to the tripod. A quad plate is used for forming the head shape.

Bridge System

This is a feature unique to the Arachnipod. The bridge is used for spanning larger openings or voids where a regular tripod, A-frame or quadpod would not be able to, such as trenches, large holes, mines and lift shafts.

It comes as a complete item with trolley, trolley guide rope and heads ready to attach two legs on each end. There is also a tie bar on one end for use with an English Reeve system. However, a remote brake mechanical advantage system can also be attached directly to the trolley.

Standard lengths are 2 m (6' 7"), 3 m (9' 10") and 4 m (13' 1"). The bridge is available separately. If you have a standard tripod you can upgrade to a bridge system by purchasing a bridge kit, which will include a bridge and an additional standard leg.

When a TEMS is purchased a 2 m bridge and additional leg come standard, however, if you require a longer bridge this should be specified on placement of the order.

Arachnipod Kits

The modular design of the Arachnipod offers customers with limited budgets an option to purchase a basic unit and upgrade components at a later date to make a more advanced system. Minimal space is needed to store an Arachnipod as it flat packs for simple and convenient storage. There are numerous kits available for purchase ranging from the basic tripod through to a total edge management system (TEMS). The table below will help you decide which kit is best for you.

Flat packs for simple storage

Arachnipod Tripods

Components	Tripod Style			
	Industrial	Industrial Plus	Advantage Basic	Advantage
Standard leg	3	2	2	1
Pulley leg		1		1
Lazy leg			1	1
Lazy leg adapter plug			1	1
Foot tether rope	1	1	1	1
Arachnipod bag	Optional	Optional	Standard	Standard

Arachnipod Kit Contents

Contents	Kit				
	Rescue	Rescue Plus	Advantage Basic Plus	Advantage Plus	TEMS
Industrial plus tripod	1				
Advantage tripod		1		1	1
Advantage basic tripod			1		
Arachnipod bag	1	1	1	1	1
Rigging plate	1		1	1	
Spike feet	3				
Quad plate			1	1	
Reverse head			1	1	
Gin head			1	1	
Full accessory kit		1			1
Advantage accessory kit bag			1	1	
2 m or 3 m or 4 m bridge kit in bag with spare leg and foot tether rope					1

Extra legs and all accessories can be ordered separately to suit custom requirements

Full accessory kit contents	Qty
Accessory bag	1
Spike feet	4
Gin head	1
Soft ground shoes	4
Hold down stakes	4
M12 Tru-bolts	8
M12 masonry drill bit	2
Spare Qik-link head pins	2
Spare detent pins	2
Spare Ball-lock leg pin	1
Steps	2
Equipment bracket	1
Rigging plate	1
Quad plate	1
Reverse head	1

Optional extras
Bridge kit stainless steel upgrade kit
Bridge ratchet strap system
Additional standard leg
Additional pulley leg
Gin head
Lazy leg extension kit
Lazy leg adaptor
10 m winch and mount (6 mm cable)
20 m winch and mount (6 mm cable)
Type 3 fall arrest block and mount

Accessories

Gin head

Reverse head

Rigging plate

Quad plate

Lazy leg adaptor

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Accessories Continued

Feet

Standard feet are supplied on all Arachnipods and are secured with stainless steel detent pins for easy removal to switch feet style. Standard feet are formed aluminium profiles with an integrally moulded soft polyurethane tread for grip. The sides of the feet have holes for attaching tether lines to tie the legs together or to anchor points. The base of each foot has holes to secure the system into the ground. The accessory kit contains Tru-bolts to secure the feet into hard ground such as concrete or hold-down stakes to fasten them into soft ground. By removing the foot detent pin, the standard foot can be removed revealing the adapter socket which accepts the optional spike feet.

Spike feet can be used alone for terrain such as cliff tops and rocky ground, or with the soft ground discs when using on sand or supple ground. The soft ground discs clip over the spike foot, allowing the spike to dig in the ground, but the large surface area of the disc prevents the whole leg from sinking into the ground.

Standard foot

Hold-down stake

Spike foot

Soft ground shoe

Lazy leg extender kit

Winch with mount bracket

Type 3 fall arrest block with mount bracket

Step

Steps are used to access the head when the legs are extended, to allow operators to untangle ropes or attach additional hardware such as karabiners, pulleys and rope. This prevents the need to lower the height of the system.

Alpha-numeric Labels*

Getting the legs of your Arachnipod at the same height is simple as each leg has an alpha-numeric label on the groove of the leg. All you need to do is adjust each leg to the same number or letter combination.

***Standard on all units**

Equipment Bracket

The equipment bracket can be used for rope descenders, belay devices, hauling systems and for tying off rope.

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