



Working in confined spaces

Interactive tool

Risks of Falling

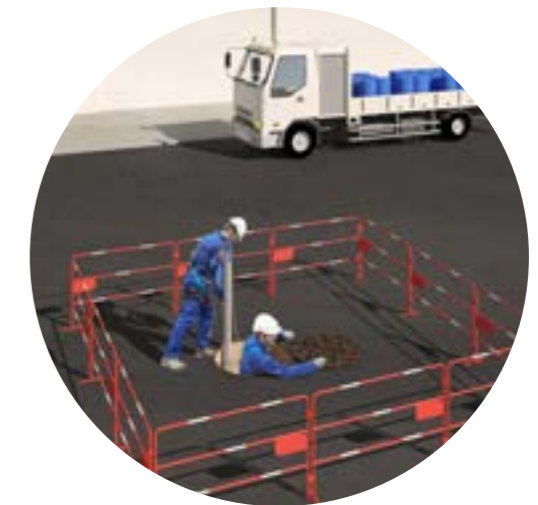
The health and safety of an organisation's employees should be a paramount concern for all leadership teams. Granted, in every occupation there is a level of risk involved; however, that risk can vary greatly depending on the environment that employees have to work in. A dangerous environment in particular is that of a confined space.

What Is a Confined Space?

A confined space is a space that is totally or partially enclosed that was not designed with the intention of people occupying or working in it. Access to a confined space is usually limited and as such, the operations that take place in them are classed as exceptional. These operations usually include contributing towards their manufacture, upkeep and maintenance.

In What Professions Do People Work in Confined Spaces?

There are a lot of professions where employees need to enter confined spaces, despite the fact they were not designed for occupants. Many employees need to work in confined spaces regularly, for example to inspect and maintain underground networks, in mines, in chimneys, in silos or in a wide variety of tanks used in industry.



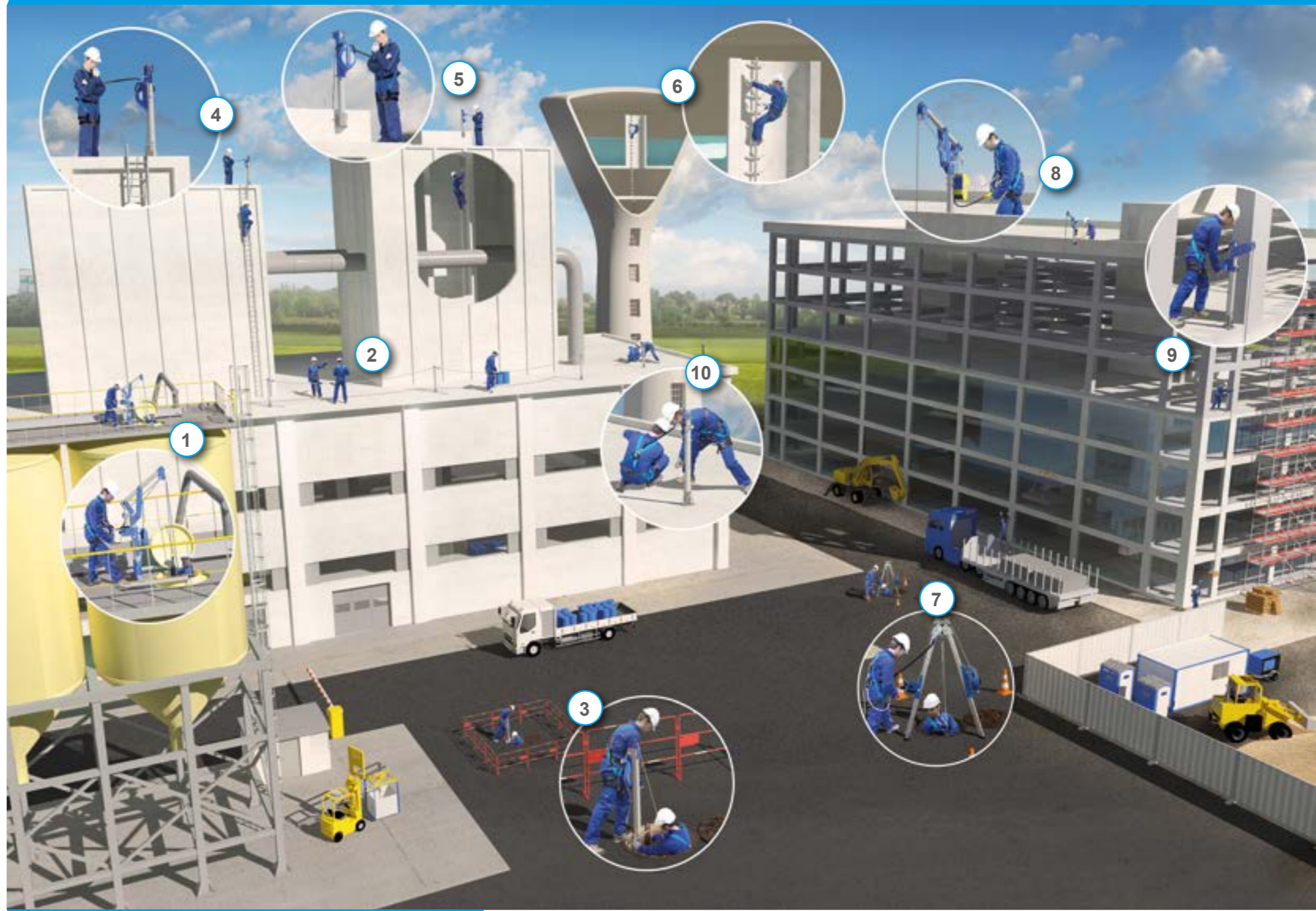
What Risks Do People in Confined Spaces Face?

There are multiple risks that people working in confined spaces face that depend entirely on the type of space they're working in. These include lack of oxygen, flooding, breathing in dust and for those working in confined spaces at height such as in silos, manholes and large pipes, the risk of falling. Falling can result in serious injury or even death, as such, it is important to protect your staff and reduce the risk of a fall as much as possible. It is also essential to facilitate the rescue of staff from confined spaces through an adequate rescue plan and using specialist rescue equipment.

How Can You Reduce the Risks to Your Employees?

The most effective way to reduce the risks to employees is by investing in some high-quality safety equipment. At Tractel, we provide the equipment that will ensure the safety of your operators who may need to work in confined spaces. Our solutions can be used to provide fall protection for people or to aid in the rescue of employees if required. We have also provided a wide range of lifting equipment that can be used for materials and tools that need to be brought in or out of the confined spaces. Our whole confined space range has been designed with the optimal solution for the employees in mind while giving maximum flexibility to adapt to the environmental circumstances and the task at hand.

Nb	Application
1	Top access into a storage tank. Protected by a mobile Davitrac solution.
2	Incidental roof work. Protected by a temporary lifeline between two Davimast systems.
3	Access to underground confined space. Protected by Tracrod. Permanently installed adapter - mobile anchor point.
4	Combined roof-top and ladder climbing solution. Protected by Davimast Permanently installed adapter, mobile anchor point.
5	Industrial storage access. Protected by Davimast Permanently installed adapter, mobile anchor point.
6	Internal ladder access to a storage tank Protected by a safety ladder type FAB A12
7	Temporary underground access. Protected by Tracpode Mobile tripod.
8	Electrically lifting materials. Less than 13m WLL max 500kg Davitrac with Carol MO
9	Manually lifting materials. Less than 30m WLL max 250kg Davimast with Carol TS
10	Roof top work. Protected by Davimast 360° anchor point



Navigating this interactive tool



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Confined access range



Davitrac

- EN 795 A
- EN 795 B (when used with Portable H self-stabilizing adapter)
- Fall protection anchor points for 2 users of 150 kg each. Anchor points can be used for rope access applications
- Material lifting anchor point with a WLL of 500kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual or motorised lifting of loads
- Permanent or temporary installation with several bases available
- Designed to be easily transportable from and to site



Davimast

- EN 795 A
- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site



Tracpode

- EN 795 B
- Fall protection anchor points for 2 users of 150 kg each. Anchor points can be used for rope access applications
- Material lifting anchor point with a WLL of 500kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual or motorised lifting of loads
- Temporary installation
- Designed to be easily transportable from and to site



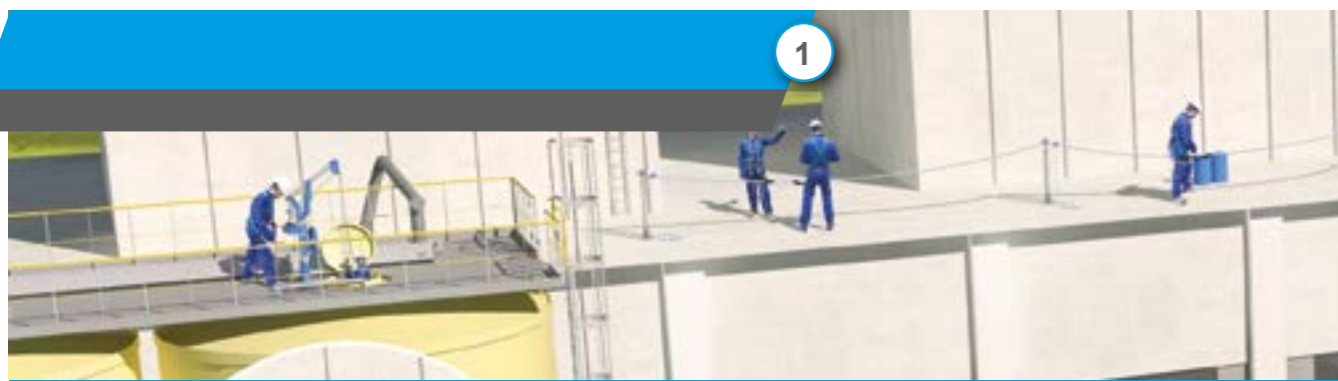
Tracrod

- EN 795 A
- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 150kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Rod designed to be easily transportable from and to site



FABA ladder with integrated fall arrester

- EN 14122-4
- EN 353-1
- Ladder with integrated fall arrester
- High Capacity Range 150 kg
- Permanent installation



Product recommendations

Anchor system



EN 795-B

Davitrac

+ Portable H self-stabilizing adapter

- Fall protection anchor points for 2 users of 150 kg each. Anchor points can be used for rope access applications
- Material lifting anchor point with a WLL of 500kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual or motorised lifting of loads
- Permanent or temporary installation with several bases available
- Designed to be easily transportable from and to site

Model name	Product Code
Davitrac	286819
Portable H self-stabilizing adapter	210098



Davitrac



Adapter

Fall arrest system



EN 360 / EN 1496

EN 1496

Primary operator

Blocfor 20 R ESD 150 kg with bracket + CaRol R with bracket for working suspended on rope

Model name	Product Code
Blocfor 20R ESD 150 kg with bracket - galvanized rope	84122
CaRol R with bracket - 20m wire rope	286949



Blocfor



CaRol



EN 360

Secondary operator/guard

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.

Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592



Harness



EN 361 / EN 358 / EN 813

HT Transport harness

Designed for work requiring a high degree of mobility and the possibility of working suspended on ropes. The harness opens completely by the front, making it particularly easy to slip on and take off several times a day if necessary.

Model name	Product Code
HT Transport - Size M - Automatic buckles	65952



EN 361

HT 55 A harness

Universal and very comfortable harness with big comfort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible

Model name	Product Code
HT55 - Size M - Automatic buckles	65632





Product recommendations

Anchor system



EN 795-A

Davimast with 2 anchor points 360° for horizontal lifeline

+ Mounted floor adapter

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site

Model name	Product Code
Davimast	210188
360° anchor point (X2)	210198
Tempo 3	207068
Mounted floor adapter	210108



Fall arrest system



EN 360

Primary operator

Blocfor 5 ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 5 meter webbing.



Model name	Product Code
Blocfor 5 ESD 150 kg - synthetic rope	70652



EN 360

Secondary operator/guard

Blocfor 5 ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 5 meter webbing.



Model name	Product Code
Blocfor 5 ESD 150 kg - synthetic rope	70652

Harness



EN 361

HT 55 A harness

Universal and very comfortable harness with big confort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361

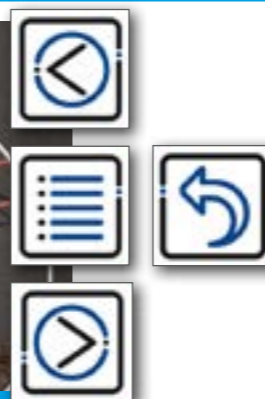
HT 22 harness*

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap



Model name	Product Code
HT22 - Size M - Standard buckles	14002





Product recommendations

Anchor system



EN 795-A

Tracrod

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 150kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Rod designed to be easily transportable from and to site



Model name	Product Code
Tracrod	207128
Support mount	207118

Fall arrest system

Primary operator

Blocfor 20 R ESD 150 kg with bracket

Automatic fall arrester with galvanized rope with integrated winch. Can be easily integrated on the tracrod, without tools. Allows to secure an operator up to 150 kg, equipped with his tools.



Model name	Product Code
Blocfor 20R ESD 150 kg with bracket - galvanized rope	81492



EN 360 / EN 1496

Secondary operator/guard

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.



Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592



EN 360

Harness

HT 55 CS harness

Can be used for confined space. Particularly suited to use with a respiratory system who slide easy on the belt - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT 55 CS - Size M - Automatic buckles	83912



EN 361

HT 22 harness with orange reflective jacket

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap / integrated orange jacket

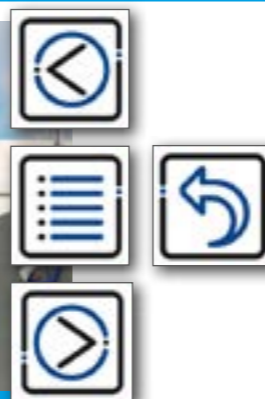


Model name	Product Code
HT22 - Size M - Standard buckles	83782



EN 361





Product recommendations

Anchor system



EN 795-A

Davimast with Blocfor and bracket: fall protection and rescue

+ **Mounted floor adapter**

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site

Model name	Product Code
Davimast	210188
Mounted floor adapter	210108



Davimast



Adapter

Fall arrest system

Primary operator

Blocfor 30 R ESD 150 kg with bracket

Automatic fall arrester with galvanized rope with integrated winch. Allows to secure an operator up to 150 kg, equipped with his tools.



Model name	Product Code
Blocfor 30R ESD 150 kg with bracket - galvanized rope	84382



EN 360 / EN 1496



EN 360

Secondary operator/guard

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.



Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592

Harness

HT 55 A harness

Universal and very comfortable harness with big confort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361



EN 361

HT 22 harness

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap



Model name	Product Code
HT22 - Size M - Standard buckles	14002





Product recommendations

Anchor system



EN 795-A

Davimast with Blocfor and bracket: fall protection and rescue

+ **Wall mounted adapter**

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site

Model name	Product Code
Davimast	210188
Wall mounted adapter	210118



Davimast



Adapter

Fall arrest system

Primary operator

Blocfor 30 R ESD 150 kg with bracket

Automatic fall arrester with galvanized rope with integrated winch. Allows to secure an operator up to 150 kg, equipped with his tools.



Model name	Product Code
Blocfor 30R ESD 150 kg with bracket - galvanized rope	84382



EN 360 / EN 1496



EN 360

Secondary operator/guard

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.



Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592

Harness

HT 55 A harness

Universal and very comfortable harness with big confort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361



EN 361

HT 22 harness

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap



Model name	Product Code
HT22 - Size M - Standard buckles	14002





Product recommendations

Anchor system



EN 14122-4

Fall arrest system

FABA A12 system: fall arrest on a rail for access to sewers

- Ladder with integrated fall arrester
- High Capacity Range 150 kg
- Permanent installation
- Dimensions rail profile: 48 x 32 x 3 mm
- Material: Hot-dipped galvanised steel or stainless steel (1.4571)
- Design: Ladder with central upright or just rail
- Spacing in between stops: 40 mm
- Spacing in between rungs: 280 mm
- Rungs: Straight and welded on the back of the rail
- Width of the ladder: 380 mm
- Primary lengths: 5600 and 2800 mm
- Adjustment lengths: 560, 840, 1120, 1400, 1680, 1960, 2240, 2520, 3080, 3360, 3640, 3920, 4200, 4480, 4760, 5040 and 5320 mm
- Maximum distance between fixings: 1400 mm for the ladder and 1960 mm for the rail.

Primary operator

FABA Grip slider

Flexible fall arrest slider. In the event of a fall, the locking mechanism on the fall arrest slider locks into one of the notches in the rail profile and this prevents the fall arrest slider from moving downwards and this action saves the user from falling.

Model name	Product Code
FABA Grip	514408



EN 353-1

Harness



EN 361 / EN 358 / EN 813

HT Easyclimb harness

Harness designed for climbing up and down ladders equipped with EN 353-1 fall arrester, rails or wire rope. Its unique sternal attachment point (Tractel patent), situated on the belt, makes ladder movement easy.

Model name	Product Code
HT Easyclimb - Size M - Automatic buckles	66492



EN 361

Secondary operator/guard

FABA AL-D slider**

The AL-D is a slider for universal use that is used to climb close to the ladder if, for example, there is an obstacle behind the user. Can be used when there is free space behind the user.

Model name	Product Code
FABA AL-D	514008

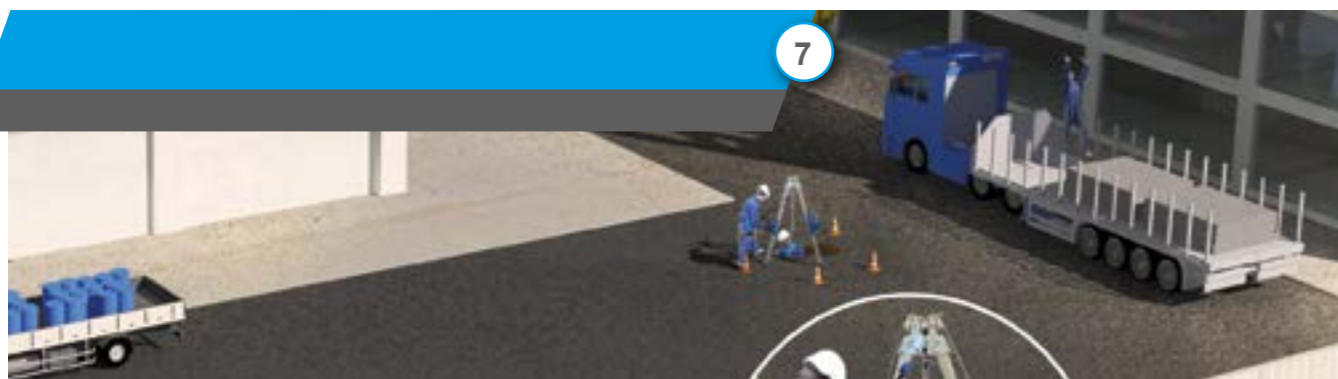


HT 120 harness**

Harness designed for movement (up or down) on structures equipped with an EN 353.1 rail or cable fall arrester device equipped with an approved fall arrest umbilical anti-fallback system attachment point.

Model name	Product Code
HT120 - Size M - Standard buckles	61712





Product recommendations

Anchor system



EN 795-B

Tracode

- Fall protection anchor points for 2 users of 150 kg each. Anchor points can be used for rope access applications
- Material lifting anchor point with a WLL of 500kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual or motorised lifting of loads
- Temporary installation
- Designed to be easily transportable from and to site



Model name

Product Code

Tracode - long model + 2 PPE pulleys kit

273769

Fall arrest system

Primary operator

Blocfor 20 R ESD 150 kg with bracket + CaRol R with bracket for working suspended on rope

Model name

Product Code

Blocfor 20R ESD 150 kg - galvanized rope

75492

Bracket for Blocfor 20R

200368

CaRol R with bracket - 20m wire rope

280589



EN 360

Secondary operator/guard

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.

Model name

Product Code

Blocfor 1.8 A ESD 150 kg M10 - M47

70592



Harness

HT Transport harness

Designed for work requiring a high degree of mobility and the possibility of working suspended on ropes. The harness opens completely by the front, making it particularly easy to slip on and take off several times a day if necessary.

Model name

Product Code

HT Transport - Size M - Automatic buckles

65952



EN 361

HT 22 harness with yellow reflective jacket

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap / integrated yellow jacket

Model name

Product Code

HT22 - Size M - Standard buckles

83762



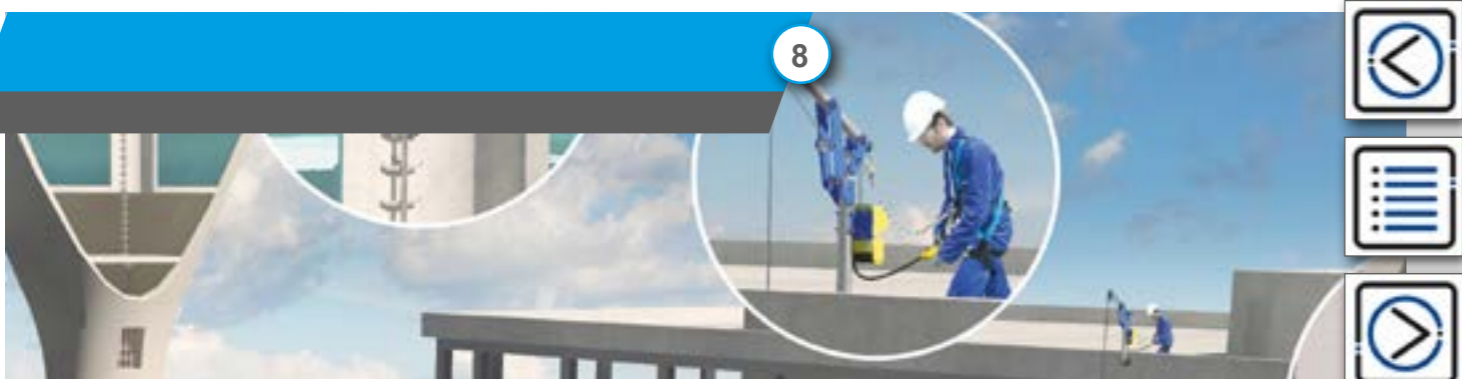
EN 360 / EN 1496

EN 1496



EN 361 / EN 358 / EN 813





Product recommendations

Anchor system



EN 795-A

Davitrac with CaRol MO and bracket

+ Clearance mural adapter

- Fall protection anchor points for 2 users of 150 kg each. Anchor points can be used for rope access applications
- Material lifting anchor point with a WLL of 500kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual or motorised lifting of loads
- Permanent or temporary installation with several bases available
- Designed to be easily transportable from and to site

Model name	Product Code
Davitrac	286819
Clearance mural adapter	210128



Davitrac



CaRol MO



Adapter

Fall arrest system

Primary operator

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.



Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592



EN 355

Secondary operator/guard

LDA 150 kg - 1,5m**

Braided rope lanyard 12 mm with shock absorber.
1,5m length - 2 connectors M10



Model name	Product Code
LDA 150 kg - 1,5m - M10-M10	77532

Harness



EN 361

HT 55 A harness

Universal and very comfortable harness with big confort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361

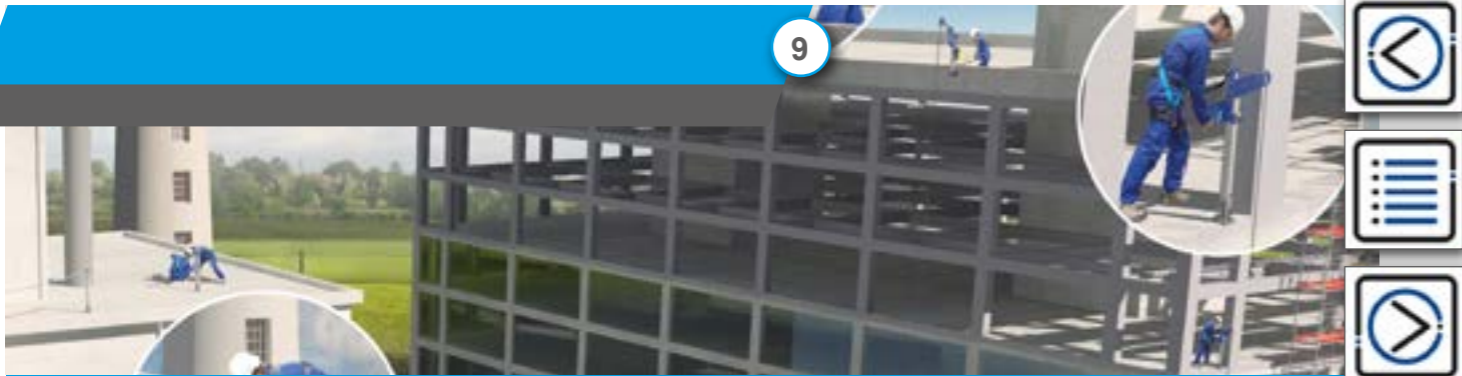
HT 22 harness**

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap



Model name	Product Code
HT22 - Size M - Standard buckles	14002





Product recommendations

Anchor system



EN 795-A

Davimast with CaRol TS and bracket: manual winch for lifting material, WLL 250 kg

+ **Mounted floor adapter**

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site

Model name	Product Code
Davimast	210188
CaRol TS 250kg with 20m of galvanized cable galva and bracket	293799
Mounted floor adapter	210108



Fall arrest system



EN 360

Primary operator

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.



Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592

Secondary operator/guard

LDA 150 kg - 1,5m**

Braided rope lanyard 12 mm with shock absorber. 1,5m length - 2 connectors M10



Model name	Product Code
LDA 150 kg - 1,5m - M10-M10	77532



EN 355

Harness



EN 361

HT 55 A harness

Universal and very comfortable harness with big confort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible



Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361

HT 22 harness**

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap



Model name	Product Code
HT22 - Size M - Standard buckles	14002





Product recommendations

Anchor system

Davimast equipped with 2 anchor points 360° to secure persons

+ Wall mounted adapter

- Fall protection anchor points for 2 users of 150 kg each
- Material lifting anchor point with a WLL of 250kg in compliance with Machinery Directive 2006/42/CE
- Can be used for manual lifting of loads
- Permanent or temporary installation with several bases available, same than davitrac bases except portable H self-stabilising adapter
- Mast designed to be easily transportable from and to site

Model name	Product Code
Davimast	210188
360° anchor point	210198
Mounted floor adapter	210108



EN 795-A



Fall arrest system

Primary operator

Blocfor 1.8 A ESD 150 kg

Fall arrest device with ESD technology, suitable for use on flat roofs. 1.8 meter webbing.

Model name	Product Code
Blocfor 1.8 A ESD 150 kg M10 - M47	70592



Secondary operator/guard

LDA 150 kg - 1,5m

Braided rope lanyard 12 mm with shock absorber. 1,5m length - 2 connectors M10

Model name	Product Code
LDA 150 kg - 1,5m - M10-M10	77532



EN 355

Harness

HT 55 A harness

Universal and very comfortable harness with big comfort for a long work - 1 dorsal anchor with a big forged D - 1 sternal anchor - 1 comfort subpelviene strap - 3 adjustment points - Independent mountain leg strap - X-pad comfort back pad: breathable and flexible

Model name	Product Code
HT55 - Size M - Automatic buckles	65632



EN 361

HT 22 harness*

1 dorsal forged D anchor / 1 sternal anchor / 5 adjustment points / 1 subpelviene strap

Model name	Product Code
HT22 - Size M - Standard buckles	14002



EN 361





Selecting the right solution for your confined space application can be hard. We have developed a dedicated Confined Space Configurator to assist you with choosing the right solution for your circumstances.

Using the configurator allows you to choose from the right solution to work safely in confined spaces.



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Confined space solutions

Not sure what you need?

Tractel® will analyse your situation in order to propose the best solution.

[Product selection](#)

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If you already know what product you need, you can configure it according to your confined access needs.

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