



DELTA PLUS
YOUR **SAFETY** AT WORK

CONFINED SPACES

09/2015

Lesson nr 3 of 7



1° Fall Arrest systems

2° Anchorage points

3° Confined spaces

4° Rope access

5° Rescue

6° Lifeline

7° Inspection



CONFINED SPACE

Working at height



> 2m

Working in
confined spaces



CONFINED SPACE

Types of confined spaces:

- Wells
- Holes
- Sewers
- Tanks
- Silos
- Caves
- Pumping stations



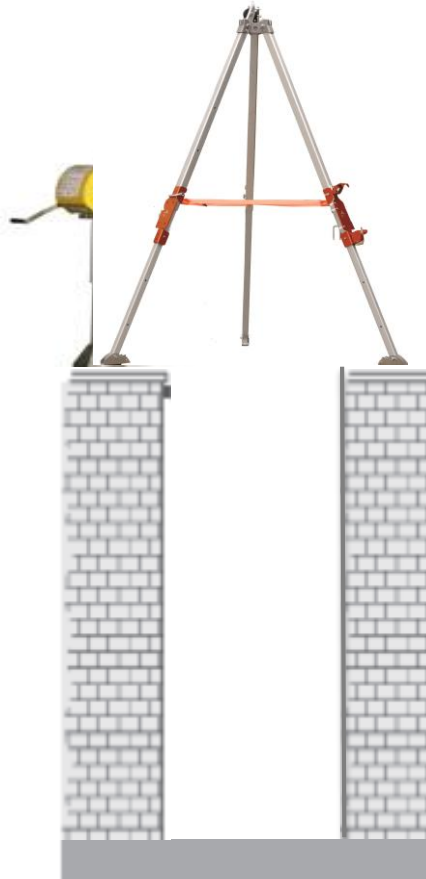
CONFINED SPACE



CONFINED SPACE

Often there is no space above in order to
create an anchor point

2nd SOLUTION



CONFINED SPACE

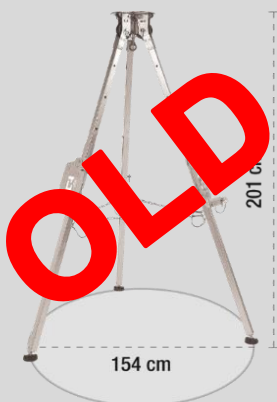
The most common solution is the TRIPOD



TRIPOD

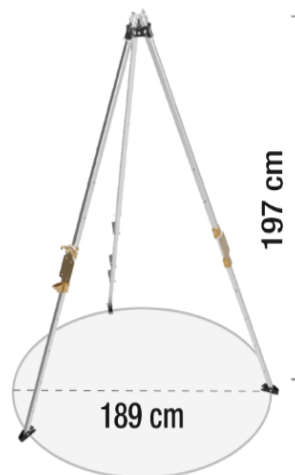
2014

TR022



2015

TRA22



TRA32



TRA20 = The basic 2m Tripod

TRA22 = **TRA20** +  **TRA101** (plate for the Protector)
TRA102 (plate for the winch)

TRA30 = The basic 3m Tripod

TRA32 = **TRA30** +  **TRA101** (plate for the Protector)
TRA102 (plate for the winch)
3 **TRA103** (steps)

TRIPOD

2014

TR022



2015

TRA32

TRA22



ALUMINIUM =



but very competitive



AFFORDABLE

TRIPOD

2014

TR022



2015

TRA22



TRBAG

TRA32



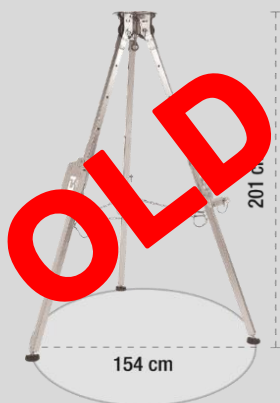
TRBAG3



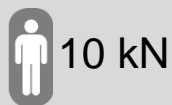
EASY (compact)

2014

TR022



CE EN795:1996
class B



2015

TRA32

TRA22



CE EN 795:2012 type B  20 kN

CE CEN/TS 16415:2013 




★ **SAFE (multi-purpose)**

TRA32



TRA22



- Head:
- 2 pulleys
 - 3 anchor points
 - 20kN Maximum Breaking Strength
 -    users



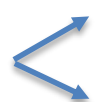
SAFE

TRA32

TRA22



Pivoting feet, 2 positions, for a

ground  hard
soft

★ **SAFE**

TRA22



TRA32



TR103 Removable anti-sliding steps
(3 steps are included in the **TRA32**)



EASY (user-friendly)

PROTECTOR ELEVATOR

Self-retractable fall arrester with steel cable and removable rescue winch

Features:

- ★ Inertia locking system
- ★ Integrated energy absorber
- ★ Evacuation of one person from above or below
- ★ Non-return system
- ★ Integrated carrying handles



CE EN360, EN1496 Class B





TRA101 Aluminium plate for Protector Elevator to be fixed on TRA20 and TRA30 (already included in TRA22 and TRA32)

PROTECTOR ELEVATOR

Code definition:

PRODUCT	METERS	ENDING
TR017	20	F = AM020
		T = AM016
	30	F = AM020
		T = AM016

14,9  Kg

18,9  Kg

F
AM020



T
AM016



Working Load 150 kg on fall arrest
EN360

Working Load 100 kg on rescue
EN1496 Class B 

MBS – Maximum Breaking Strength **12kN**
(break value of the cable)


WINCH for the European market




**Machinery Directive
EN292**

Manual winch, \varnothing 5 mm steel cable

PRODUCT	METERS
TR003	C = 20
	K = 30

7,8  Kg

8,1  Kg

Features:

- ★ Non-return system
- ★ Folding handle
- ★ Working load 250 Kg


TRA102 Aluminium plate for winch to be fixed on TRA20 and TRA30 (already included in TRA22 and TRA32)




WINCH for the worldwide market

Manual winch, \varnothing 5 mm steel cable

PRODUCT	METERS
TR004	20
	30

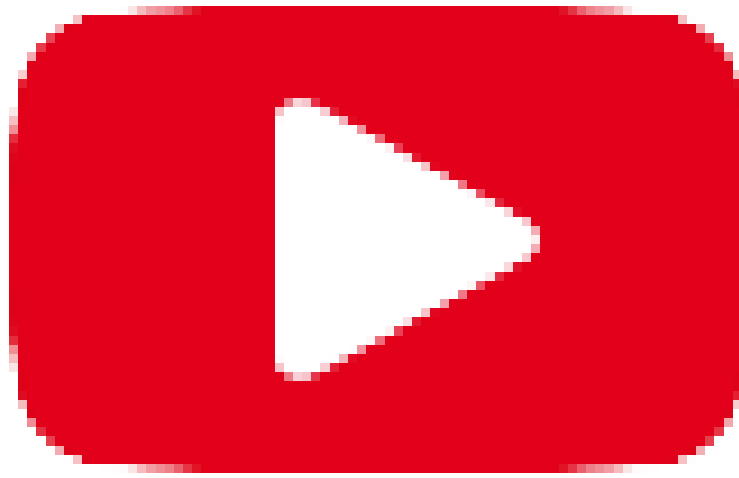
11,3  Kg

11,6  Kg

Features:

- ★ Non-return system
- ★ Working load 230 Kg

TRA102 Aluminium plate for winch to be fixed on TRA20 and TRA30 (already included in TRA22 and TRA32)



[Link “3D TRIPOD”](#)