

SINECURRA

anti fall engineering



TRIPODS

2022



COMMERCIAL, TECHNICAL AND ADMINISTRATIVE OFFICES

Corso Roma, 40 • 12038 Savigliano (CN) • Italy

commerciale@sinecuraengineering.it

amministrazione@sinecuraengineering.it

ingegneria@sinecuraengineering.it

tecnico@sinecuraengineering.it

+39 333.7428737 • +39.0172.750103

Fax: +39.0172.750387





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PERSONAL TRIPODS

- 6 TM 1
- 8 TM 6
- 10 TM 7
- 12 TM 9
- 14 TM 9-N - **NEW**
- 16 TM 9-L
- 18 TM 9-W
- 20 TM 13
- 22 TM 14-SB



Catalogue 2022

TRIPODS



TM 1



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max.
2 persons



DESCRIPTION
OF DEVICE:

RUP 502-A
RUP 503
CRW 200+AT174
CRW 200+AZ017
CRW 300+AT172
CRW 300+AZ017

Safety tripod TM 6 is a mobile anchoring device intended for protection of up 2 persons at the same time. Guide wheels are integrated with the tripod head enabling operation with rescue lifting devices without the need to use any additional pulley.



Pulley has 2 anchor points. Upper anchor point on pulley is used for connecting crane TM 1 to a permanent structure. Lower anchor point on arm is used for installation of rescue lifting devices.



Leg is made of hot-dip galvanized steel, has 4-step adjustment, and is locked with a cotter.



Connector enables adjustment of the arm angle and locking in one of 5 positions (from 80° up to 130°) by means of a cotter.

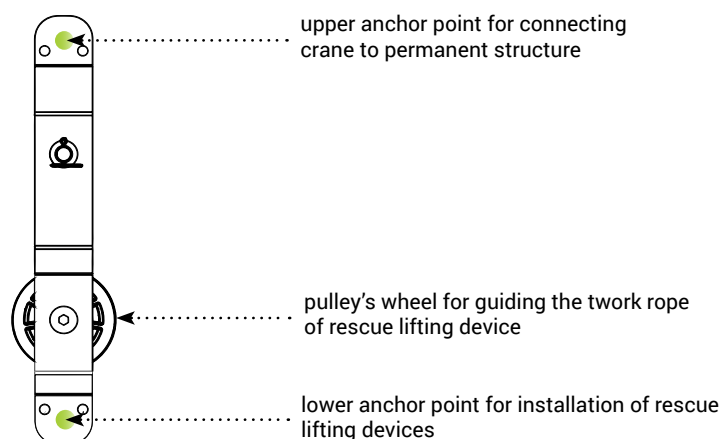


Lower end of leg has a removable foot with rubber pads providing anti-slip protection.

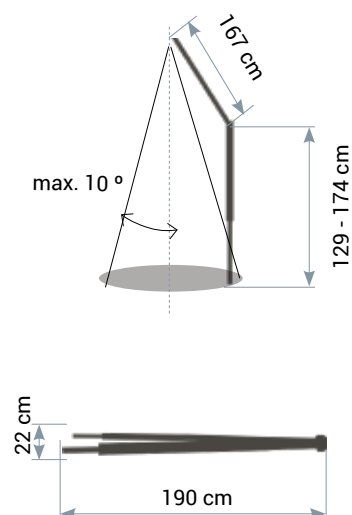


Height:	71 - 280 cm
Opening diameter under tripod:	-
Leg spacing:	-
Device weight:	8 kg
Anchor points on head:	2
Lifting and lowering:	1 person only
Transport dimensions:	190 x 22 x 22 cm

HEAD – PLAN VIEW



DIMENSIONS





TM 6



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max.
2 persons



DESCRIPTION
OF DEVICE:

RUP 502-A
RUP 503
CRW 200+AT174
CRW 200+AZ017
CRW 300+AT172
CRW 300+AZ017

Safety tripod TM 6 is a mobile anchoring device intended for protection of up 2 persons at the same time. Guide wheels are integrated with the tripod head enabling operation with rescue lifting devices without the need to use any additional pulley.



The head is made of powder coated galvanized steel. Equipped with 2 wheels for guiding the work rope on rescue lifting devices. Cotters above the wheels protect the rope against accidental slipping during work.



Automatic leg opening locks protect the tripod against accidental collapse during use.



Support bars are made of powder coated galvanized steel. They help stabilize the tripod during work. Each bar is secured with ratchets to prevent it from detaching during work.



The tripod legs are made of strengthened aluminium profiles. Two legs "A" are equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches; the third leg "B" has no wheel or anchor point.

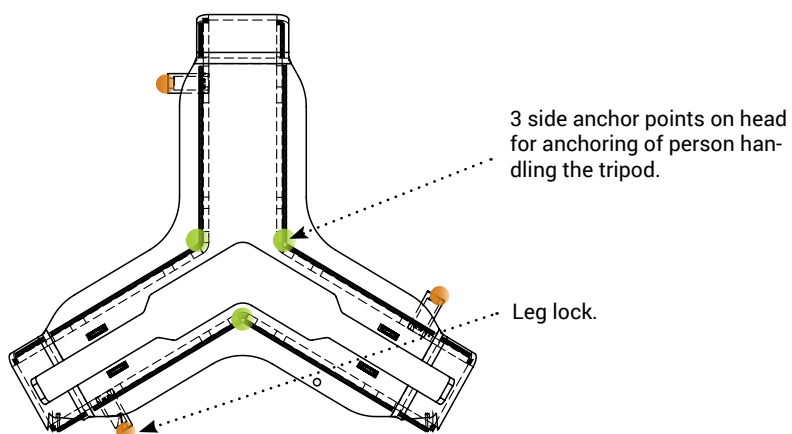


Two legs „A" are equipped with swivel wheels with brake to provide easier tripod mobility. Wheels are made of aluminium alloy and rubber (wheel) and galvanized steel (housing).

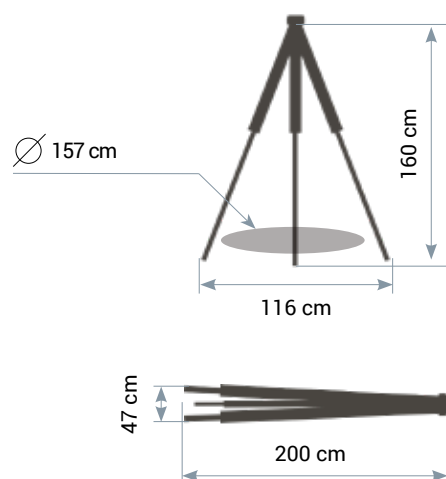
Height:	160 cm
Opening diameter under tripod:	157 cm
Leg spacing:	116 cm
Device weight:	34 kg
Anchor points on head:	3
Lifting and lowering:	maximum 2 persons
Transport dimensions:	200 x 47 x 47 cm



HEAD – PLAN VIEW

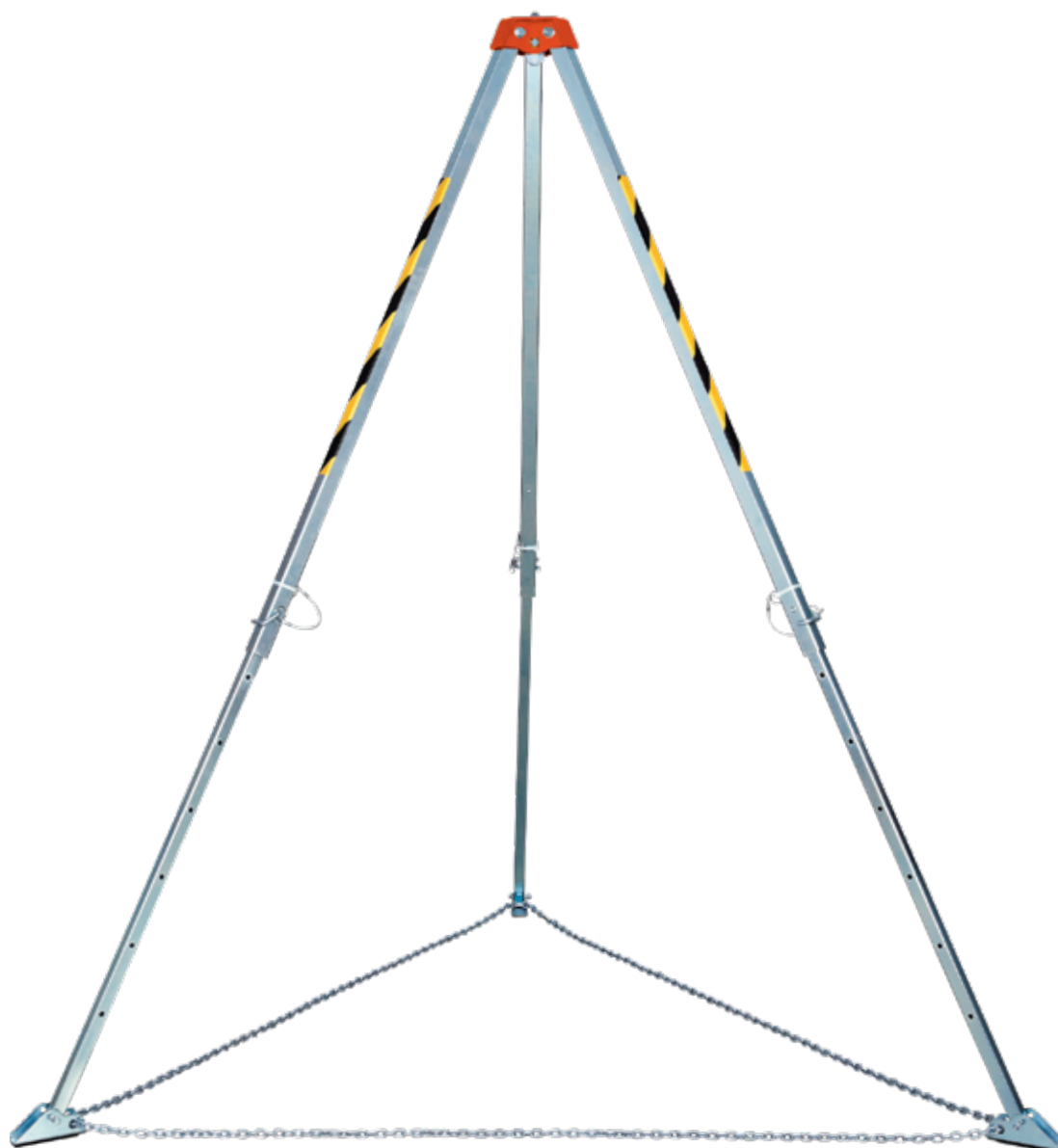


DIMENSIONS:





TM 7



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012

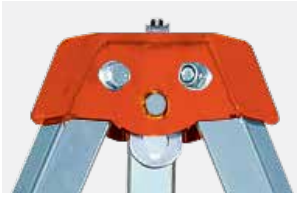


Max.
1 person

RUP 502-B
RUP 503-B
CRW 200+AZ017
CRW 300+AZ017

DESCRIPTION
OF DEVICE:

Safety tripod TM 7 is a portable anchoring device intended for single person only. The device is made of fully galvanized steel.



The head is made of powder coated galvanized steel and has 1 central anchor point eye bolt and 3 additional side anchor points.



Legs are made of hot-dip galvanized steel with 7-step adjustment, locked with cotters.



Tripod legs can be secured with textile webbing or steel chain.

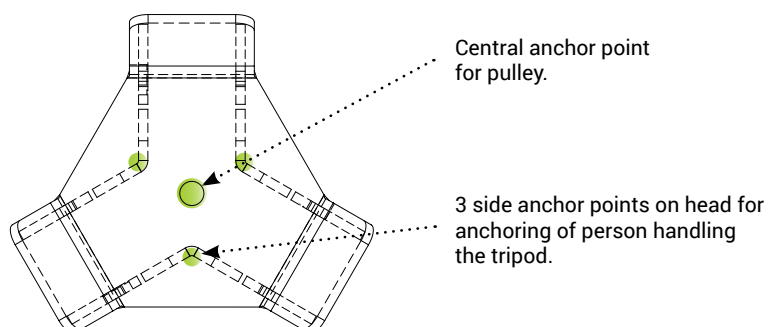


Tripod legs can be secured with textile webbing or steel chain.

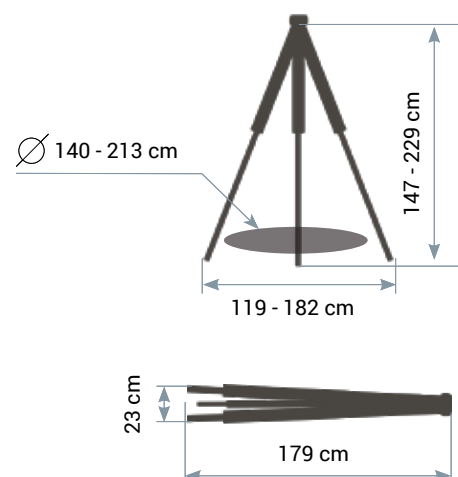
Height:	147 - 229 cm
Opening diameter under tripod:	140 - 213 cm
Leg spacing:	119 - 182 cm
Device weight:	35 kg
Anchor points on head:	4
Lifting and lowering:	1 person only
Transport dimensions:	179 x 23 x 23 cm



HEAD – PLAN VIEW

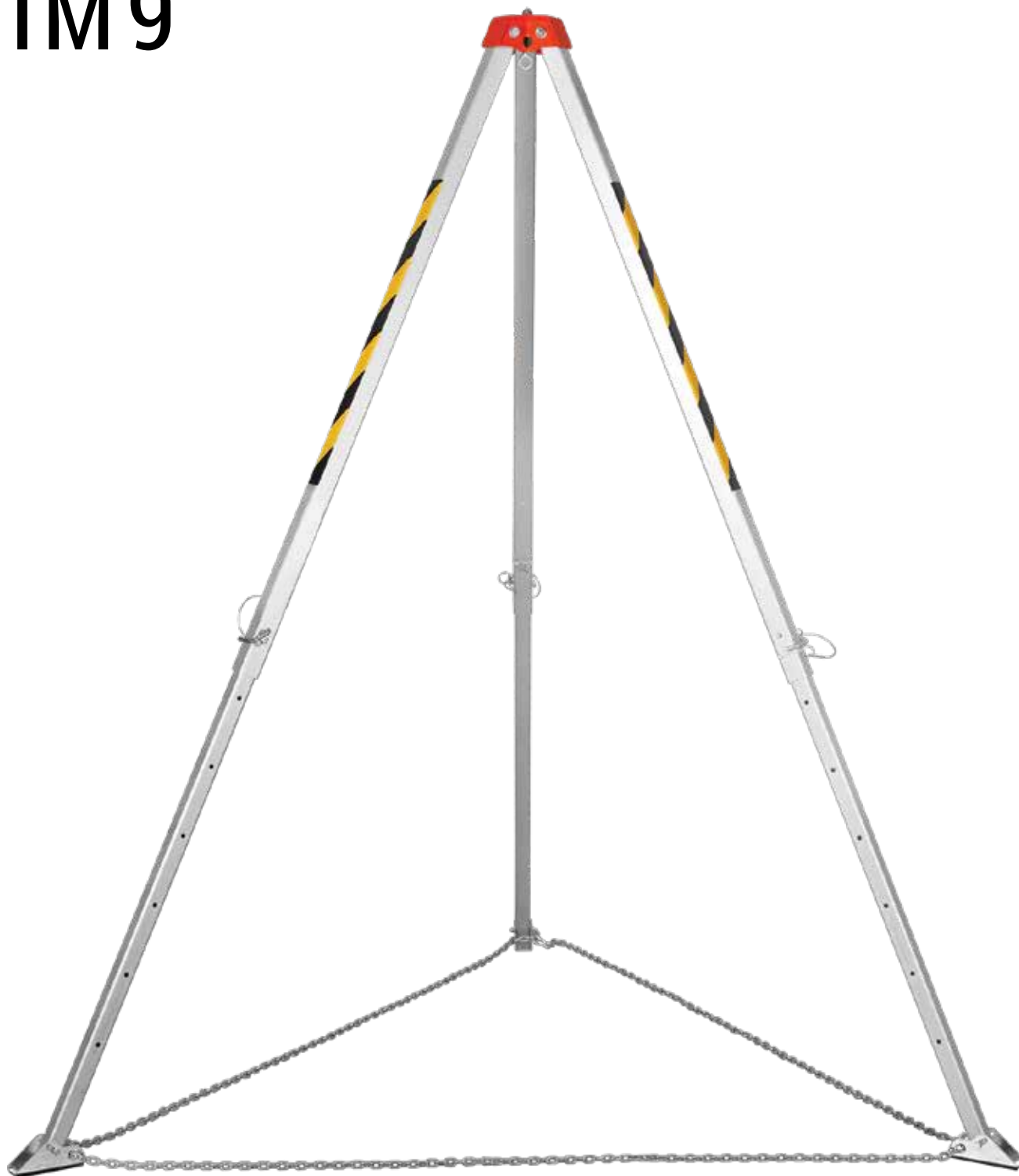


DIMENSIONS





TM 9



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012



Max.
1 person

RUP 502
CRW 200+AZ017
CRW 200+AT173
CRW 300+AZ017
CRW 300+AT171



DESCRIPTION
OF DEVICE:

Safety tripod TM 9 is a portable anchoring device intended for single person use only.



The head is made of powder coated galvanized steel. 1 central anchor point eye bolt and 3 additional side anchor points.



Aluminium legs with 7-step adjustment, locked with cotters.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

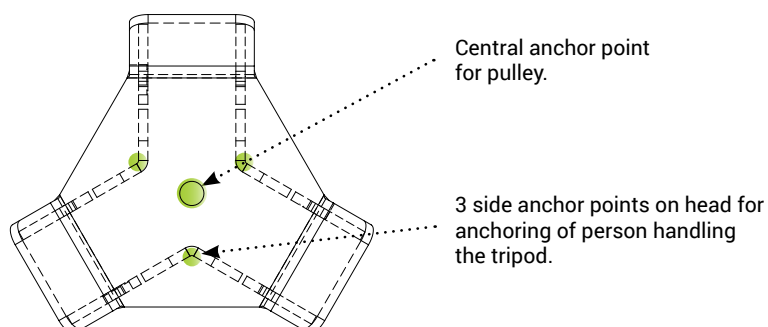


Tripod legs can be secured with textile webbing or steel chain.

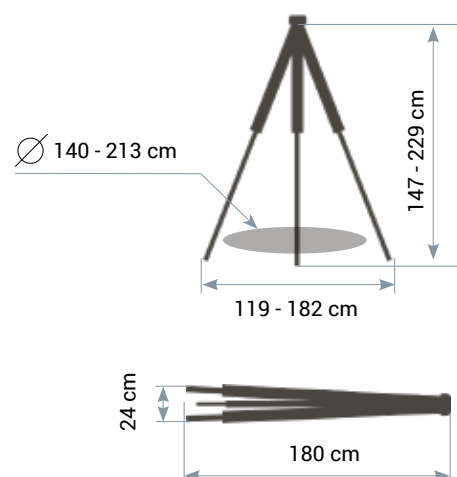
Height:	147 - 229 cm
Opening diameter under tripod:	140 - 213 cm
Leg spacing:	119 - 182 cm
Device weight:	17 kg
Anchor points on head:	4
Lifting and lowering:	1 person only
Transport dimensions:	180 x 24 x 24 cm



HEAD – PLAN VIEW



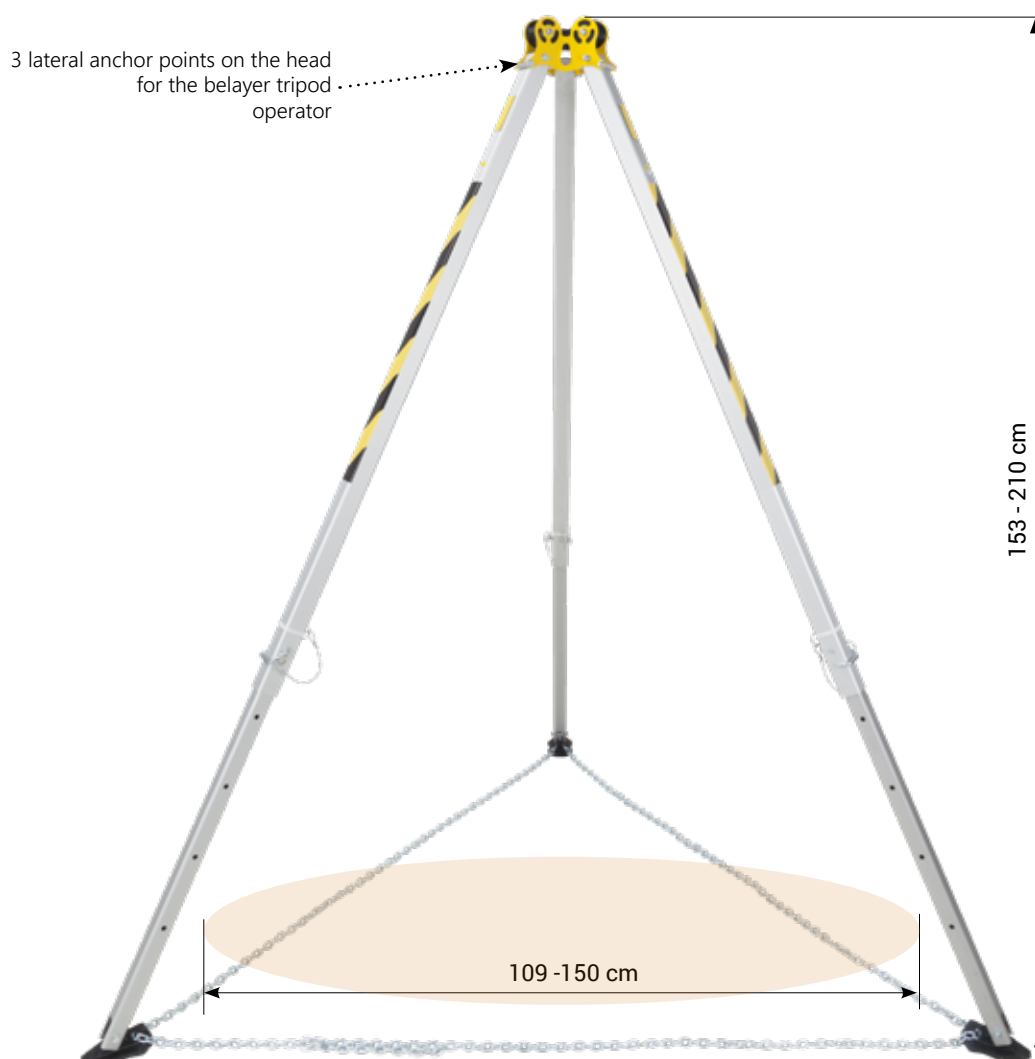
DIMENSIONS





TM 9-N

NEW



NORM:

LIFTING
AND LOWERING:

DESCRIPTION
OF DEVICE:

EN 795/B:2012
NORM:



Max.
3 persons



DESCRIPTION
OF DEVICE:

Safety tripod TM 9-N is a portable anchoring device intended for up to 3 users.

Compatible with the following devices using the new UTB support :

RUP502/RUP502-T
RUP503/RUP503-T
CRW 200
CRW 300
RUP 504
RUP 505-U
RUP 506



The head is made of galvanised powder-coated steel. It has 3 bearing-mounted rollers to guide the working rope of rescue or hoisting devices



New composite feet

PAD 100-310

adapter for CRW 200



CRW 200

self-locking device/
lifting device

PAD 100-320

adapter for CRW 300



CRW 300

self-locking device/
lifting device



UTB holder described on page 68.

The universal holder (UTB) can be attached to all tripods offered. The following winches are compatible with the UTB carrier:

RUP502/RUP 502-T
RUP503/RUP503 - T



RUP 504

electric winch 230V 1-phase



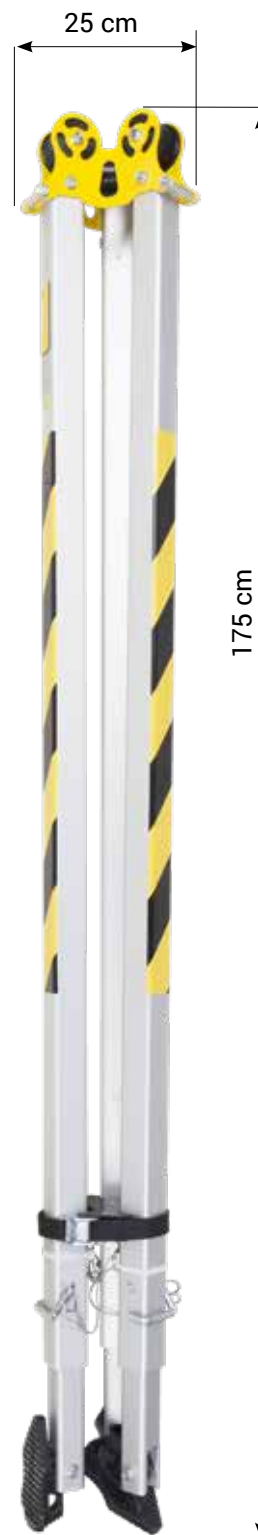
RUP 506

battery-powered winch with wire rope

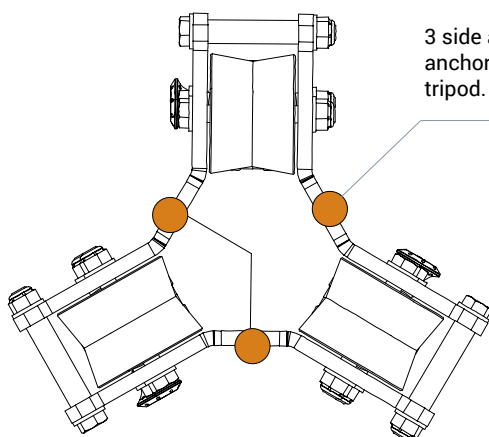


RUP 505-U

evacuation winch



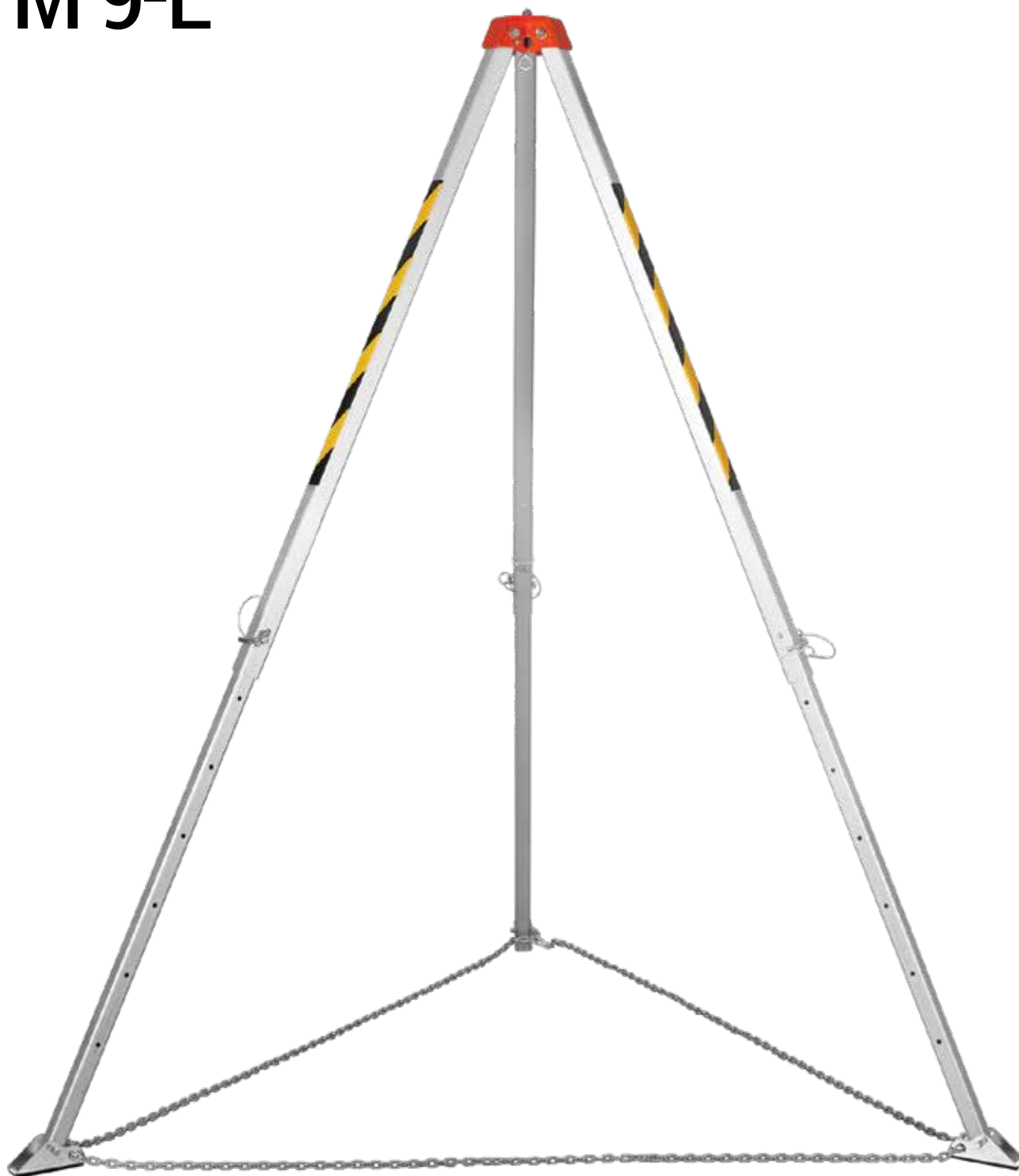
HEAD – PLAN VIEW



3 side anchor points on head for anchoring of person handling the tripod.



TM 9-L



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012



Max.
2 persons

RUP 502
CRW 200+AZ017
CRW 200+AT173
CRW 300+AZ017
CRW 300+AT171



DESCRIPTION
OF DEVICE:

Safety tripod TM 9-L is a portable anchoring device intended for single person use only. The head is equipped with locks for securing the tripod legs against unintended folding.



The head is made of powder coated galvanized steel. 1 central anchor point eye bolt and 3 additional side anchor points.



Automatic leg opening locks protect the tripod against accidental collapse during use.



Aluminium legs with 7-step adjustment, locked with cotters.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

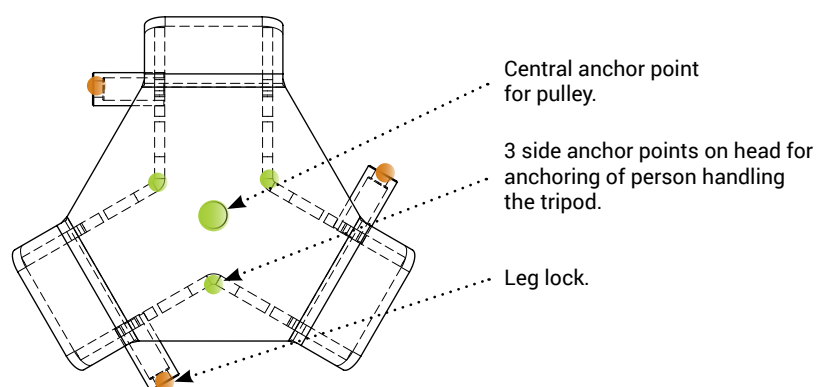


Tripod legs can be secured with textile webbing or steel chain.

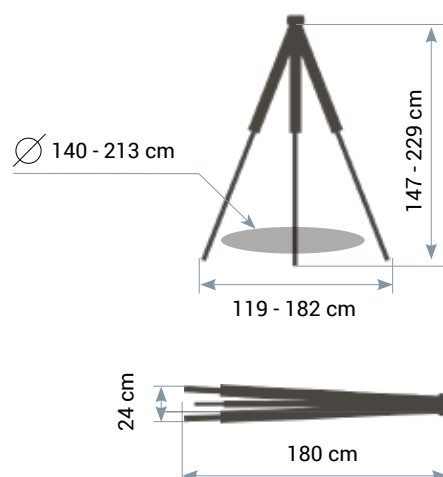
Height:	147 - 229 cm
Opening diameter under tripod:	140 - 213 cm
Leg spacing:	119 - 182 cm
Device weight:	17 kg
Anchor points on head:	4
Lifting and lowering:	1 person only
Transport dimensions:	180 x 24 x 24 cm



HEAD – PLAN VIEW

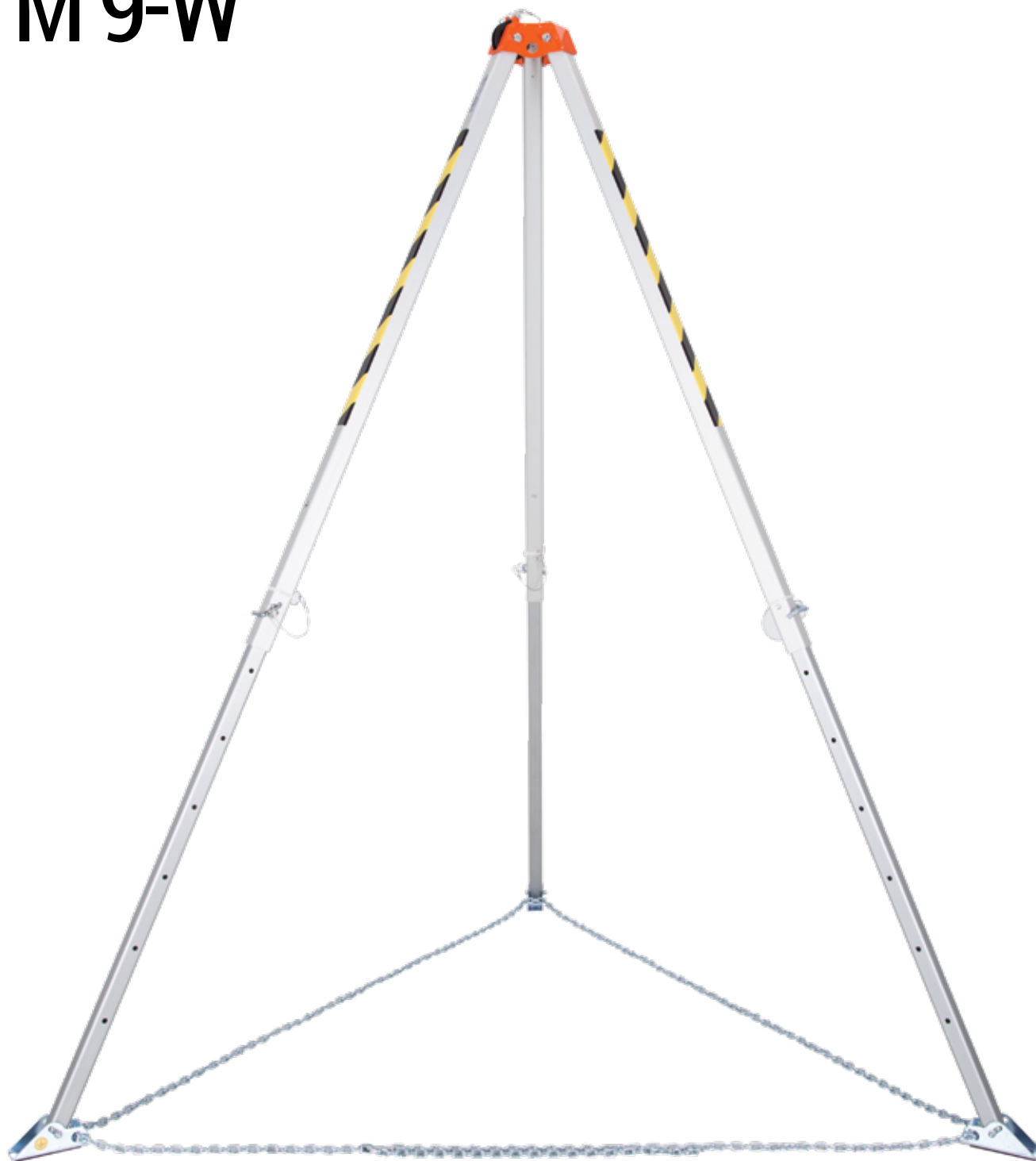


DIMENSIONS





TM 9-W



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012



1 person only

RUP 502
CRW 200+AT173
CRW 300+AT171



DESCRIPTION
OF DEVICE:

Safety tripod TM 9-W is a portable use anchoring device which does not requires a pulley when operating winches. Intended for single person use only.



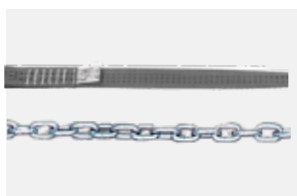
The head is made of powder coated galvanized steel. A wheel for guiding the work rope on rescue devices. Cotter pins above the wheel prevent the rope from accidental slipping during work.



The tripod legs are made of strengthened aluminium profiles. Leg "A" is equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches; 2 legs "B" have no wheel or anchor point. The legs feature 7-step adjustment.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

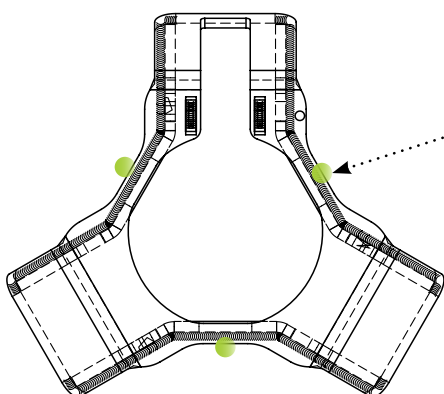


Tripod legs can be secured with textile webbing or steel chain.

Height:	147 - 229 cm
Opening diameter under tripod:	140 - 215 cm
Leg spacing:	119 - 182 cm
Device weight:	17 kg
Anchor points on head:	3
Lifting and lowering:	1 person only
Transport dimensions:	180 x 24 x 24 cm

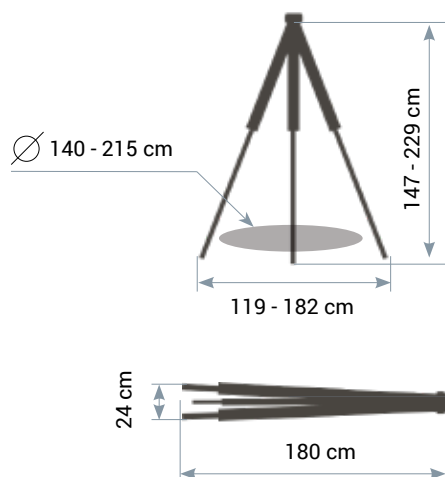


HEAD – PLAN VIEW



3 side anchor points on head for anchoring of person handling the tripod.

DIMENSIONS





TM 13



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max.
2 persons



DESCRIPTION
OF DEVICE:

RUP 502-A
RUP 503
CRW 200+AT174
CRW 200+AZ017
CRW 300+AT172
CRW 300+AZ017

Safety tripod TM 13 is a portable anchoring device which does not requires pulley when operating winches. Has steps for easier access to the head. The device can be used by 2 persons at the same time.



The head is made of powder coated galvanized steel and has two wheels for guiding the work rope of rescue devices. Cotters above wheels prevent the rope from slipping during work.



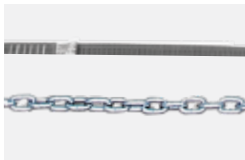
The tripod legs are made of strengthened aluminium profiles with 9-step adjustment, locked with cotters. Two legs "A" are equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches; the third leg "B" has no wheel or anchor point.



Aluminium steps are mounted with cotters and provide easier access to the tripod head when extending the legs to their maximum height.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

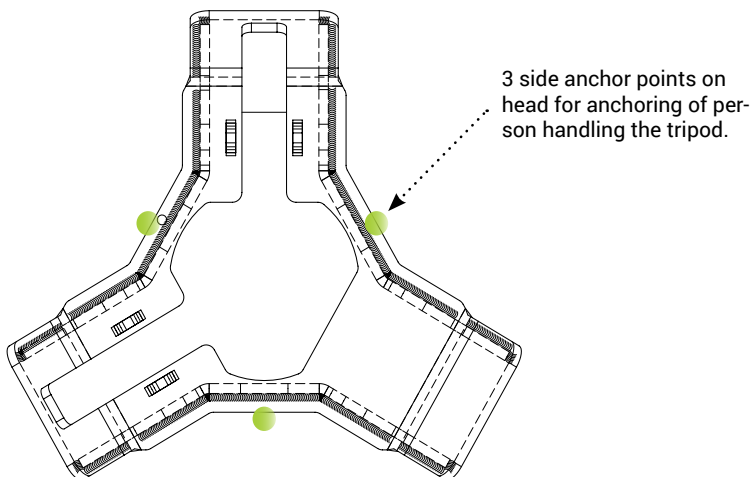


The tripod's legs can be secured with textile webbing or steel chain.

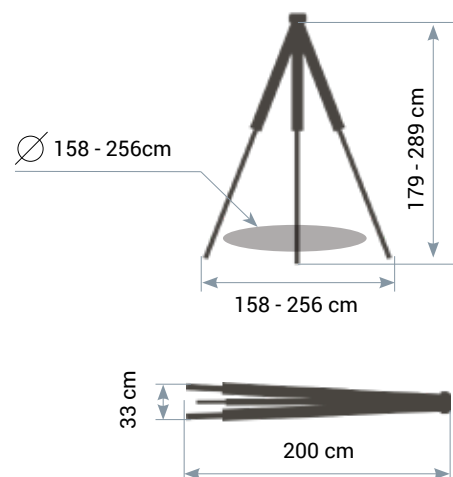


Height:	179 - 289 cm
Opening diameter under tripod:	158 - 256 cm
Leg spacing:	147 - 232 cm
Device weight:	37 kg
Anchor points on head:	3
Lifting and lowering:	max. 2 persons
Transport dimensions:	200 x 33 x 31 cm

HEAD – PLAN VIEW

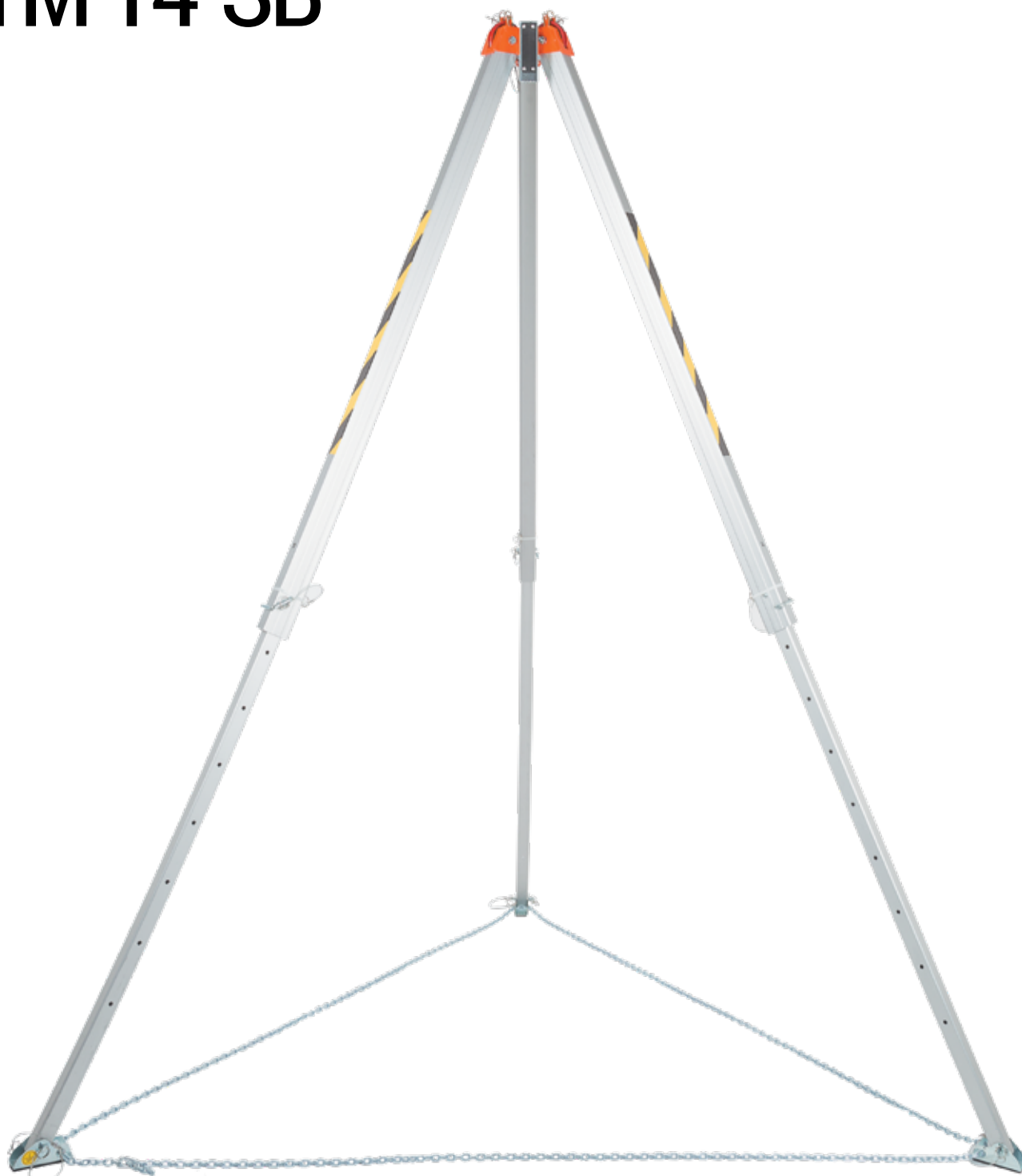


DIMENSIONS





TM 14-SB



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max.
2 persons

RUP 502-A
RUP 503
CRW 200+AT174
CRW 300+AT172

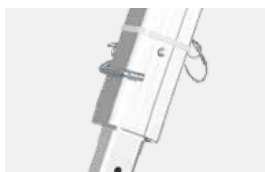


DESCRIPTION
OF DEVICE:

TM 14 is a dual-purpose system: standard safety tripod and rescue frame.



The head is made of powder coated galvanized steel. Two wheels for guiding the work rope rescue devices. Cotters above the wheels prevent the rope from accidental slipping during work.



The tripod legs are made of strengthened aluminium profiles with 9-step adjustment, locked with cotters. Two legs "A" are equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches; the third leg "B" has no wheel or anchor point.



Aluminium steps are mounted with cotters and provide easier access to the tripod head when extending the legs to their maximum height.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.



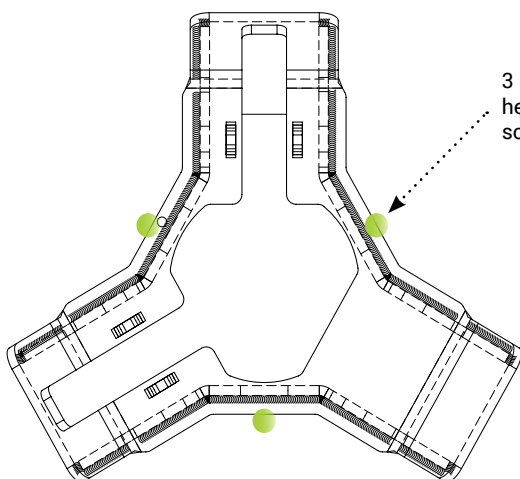
Tripod legs can be secured with textile webbing or steel chain.

EXTENSION KIT FOR TM 14-ZSE



Height:	179 - 289 cm
Opening diameter under tripod:	158 - 256 cm
Leg spacing:	147 - 232 cm
Device weight:	38 kg
Anchor points on head:	3
Lifting and lowering:	max. 2 persons
Transport dimensions:	228 x 32 x 30 cm

HEAD – PLAN VIEW



3 side anchor points on head for anchoring of person handling the tripod.

Additional option – kit AT015-150

The kit upgrades tripod TM 14-SB to version TM 14-ZSE

The kit comprises:

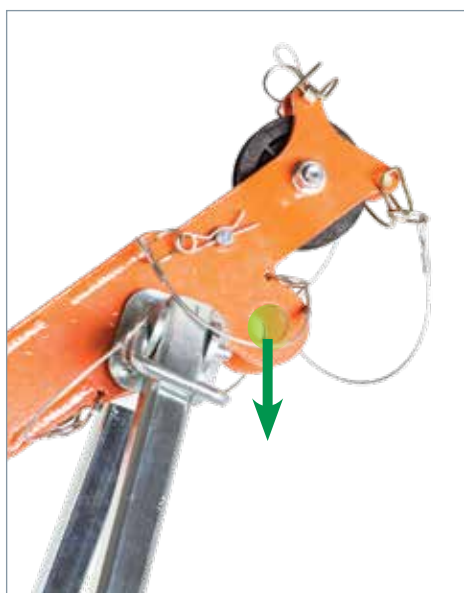
- Pulley - 1 pc
- Bracket - 2 pcs
- Head support - 1 pc
- Drive-on plate - 1 pc
- Left bracket base - 1 pc
- Right bracket base - 1 pc
- Chain - 1 pc

DIMENSIONS

Dimensions are the same as TM 13 tripod (previous page).



TM 14-ZSE



The pulley with
2 anchor points



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



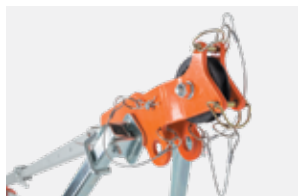
Max.
2 persons

RUP 502-A
RUP 503
CRW 200+AT174
CRW 300+AT172

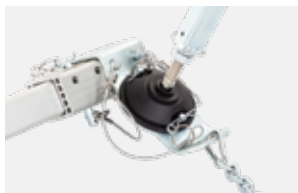


DESCRIPTION
OF DEVICE:

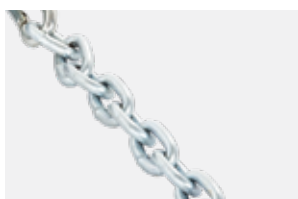
TM 14 is a dual-purpose system: standard safety tripod and rescue frame.



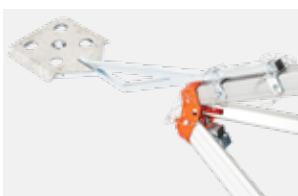
The pulley is made of powder coated galvanized steel and has a wheel for guiding the winch rope when used as rescue frame. The pulley has an additional anchor point which can be used for e.g. mounting a retractable type fall arrester.



Supports with feet provide stability for arm with pulley at its end. They are made of aluminium and galvanized steel.



In order to improve the strength of the structure, the tripod legs with supports at their ends are secured with a steel chain.

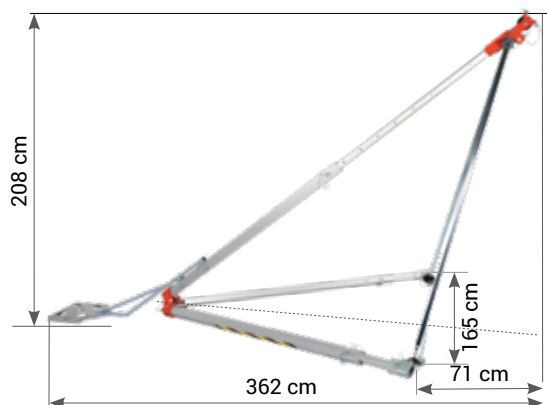


The drive-on plate is made of galvanized and stainless steel and is used for installation of counterweight. Counterweight can be a set of steel plates or a vehicle weighing 3.5 t. The plate can be fixed to the ground by means of mechanical or chemical anchors.

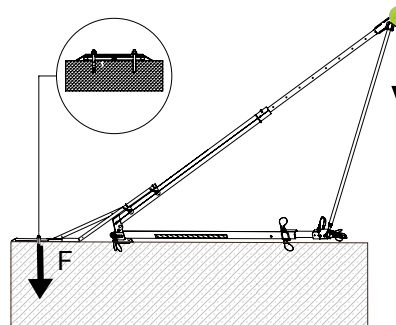


Set of steel plates can be used as counterweight if the tripod cannot be anchored by a vehicle or fixed to the ground. Comprises 19 special plates made of powder coated steel of 25 kg each.

Height:	208 cm
Extension:	71 cm
Overall length:	362 cm
Leg spacing:	165 cm
Weight:	65 kg
Lifting and lowering:	max 200 kg

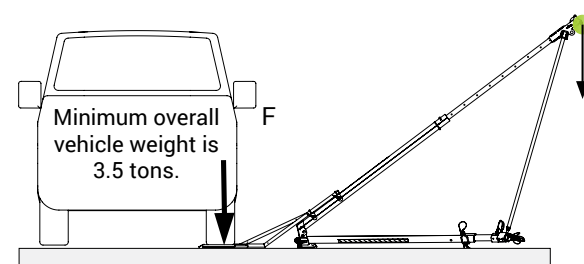


ANCHORING TO THE GROUND



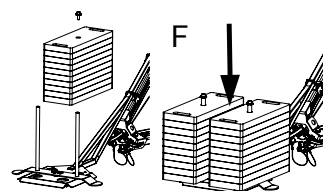
Drive-on plate can be fixed to a concrete or steel surface by means of at least 2 mechanical or chemical anchors with minimum tensile strength of 12 kN.

VEHICLE AS A COUNTERWEIGHT



Drive-on plate can be loaded by placing a vehicle wheel on the axle at which the motor is installed. Minimum overall vehicle weight is 3.5 tons.

SET OF STEEL PLATES AS A COUNTERWEIGHT



Drive-on plate can be additionally loaded with special steel counterweight plates of 25 kg each.

STEEL PLATES SET AT015-600.

- Counterweight plates - 16 pcs
- Set of mounting screws - 1 pc
- Counterweight bracket rods - 2 pcs
- Rods plate - 1pc



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MATERIAL TRIPODS

TM 6-T	26
TM 7-T	28
TM 9-T	30
TM 11-T2	32
TM 13-T	34

RUP 502-AT
RUP 503-T

Catalogue 2022

TRIPODS

TM 6-T



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :



 Capacity of
up to 1000 kg

RUP 502-AT
RUP 503-T

DESCRIPTION
OF DEVICE:

Material tripod TM 6-T is a mobile anchoring device intended for lifting and lowering loads of maximum weight up to 1000 kg. Guiding wheels are integrated with the tripod head enabling operation with rescue lifting devices without the need to use any additional pulley.



The head is made of powder coated galvanized steel. Equipped with 2 wheels for guiding the work rope of rescue lifting devices. Cotters above wheels provide protection of the rope from accidental slipping during work.



Automatic leg opening locks protect the tripod against accidental collapse during use.



Support bars are made of powder coated galvanized steel. They stabilize the tripod during work. Each bar is secured with ratchets protecting them against being taken out during work.



Tripod legs are made of strengthened aluminium profiles. Two legs „A” – equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches; The third leg „B” is has no wheel or anchor point.

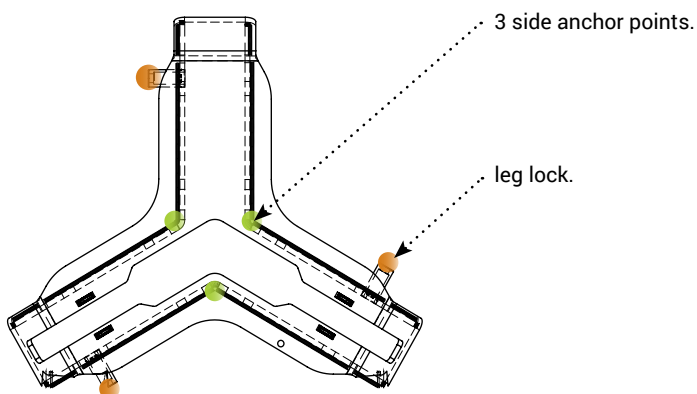


Two legs „A” are equipped with swivel wheels with brake to provide easier tripod mobility. Wheels are made of aluminium alloy and rubber (wheel) and galvanized steel (housing).

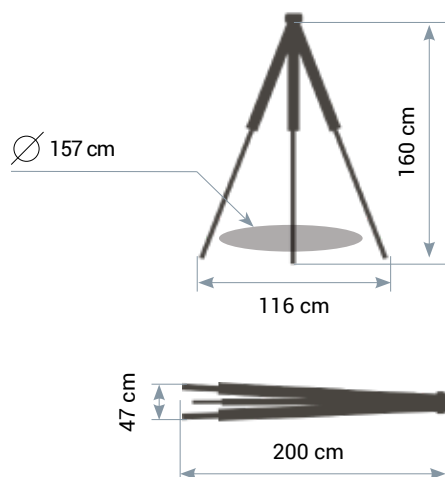


Height:	160 cm
Opening diameter under tripod:	157 cm
Leg spacing:	116 cm
Device weight:	34 kg
Anchor points on head:	3
Lifting and lowering:	up to 1000 kg
Transport dimensions:	200 x 47 x 47 cm

HEAD – PLAN VIEW



DIMENSIONS



TM 7-T




NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :



 Capacity of
up to 1000 kg

RUP 502-BT
RUP 503-BT

DESCRIPTION
OF DEVICE:

TM 7-T is a steel material tripod intended for lifting/lowering loads of maximum weight of up to 1000 kg.



The head is made of powder coated galvanized steel, and has 1 central anchor point as an eye bolt and 3 additional side anchor points.



Above the head, there is an eye for easier tripod handling.



Legs are made of aluminium, and feature 7-step adjustment, locked with a cotter.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

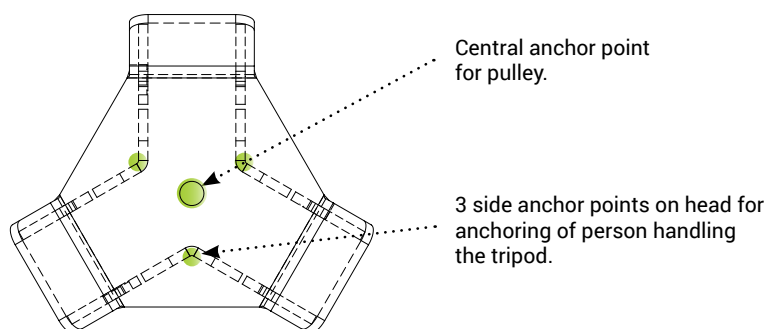


The tripod's legs can be secured with textile webbing or steel chain.

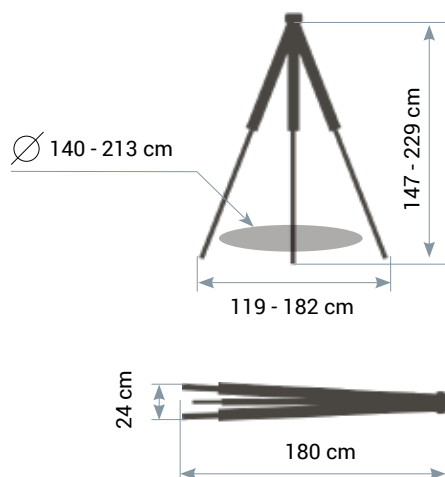
Height:	147 - 229 cm
Opening diameter under tripod:	140 - 213 cm
Leg spacing:	119 - 182 cm
Device weight:	35 kg
Anchor points on head:	4
Lifting and lowering:	up to 1000 kg
Transport dimensions:	180 x 24 x 24 cm



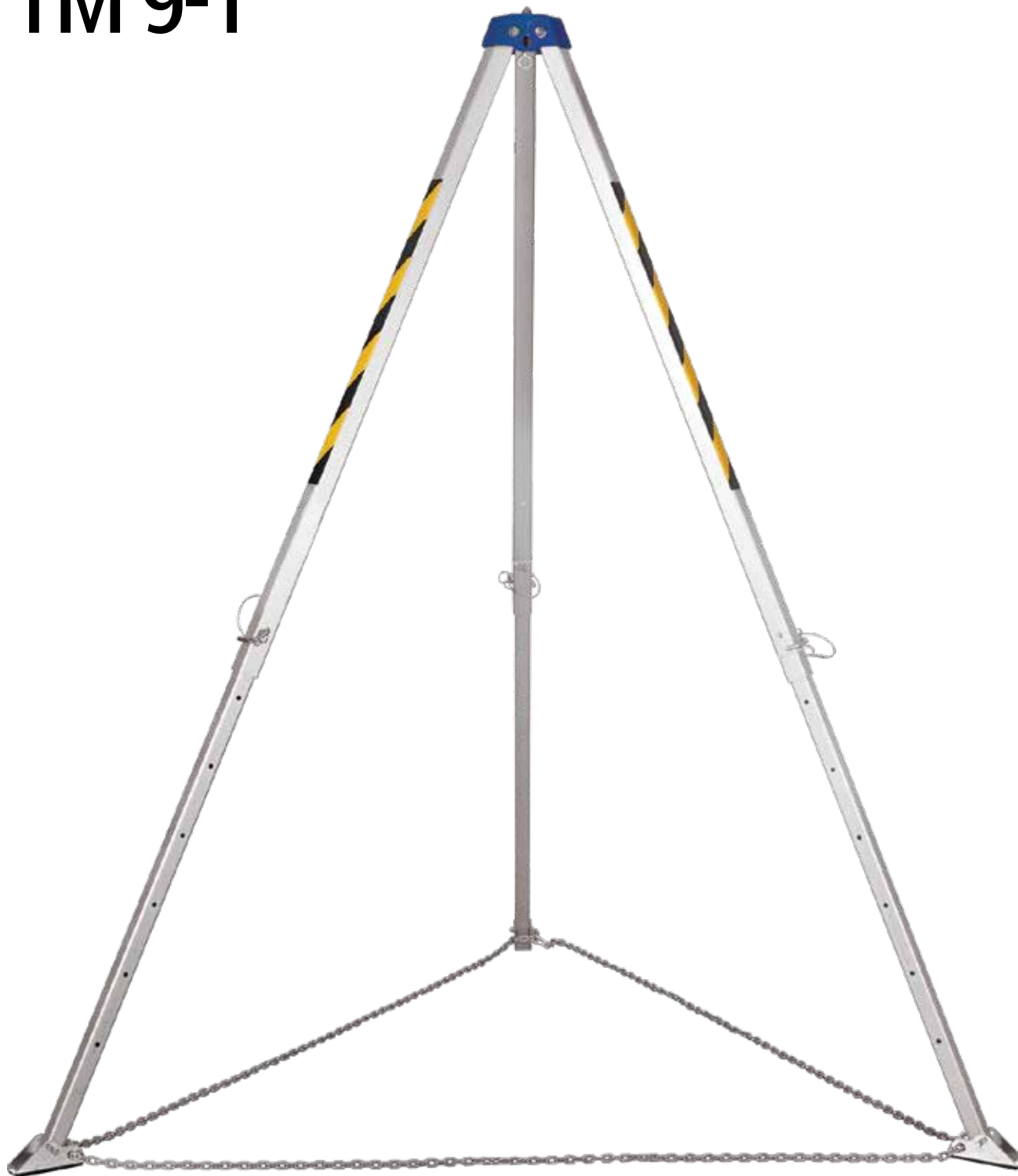
HEAD – PLAN VIEW



DIMENSIONS



TM 9-T




NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :



 Capacity of
up to 500 kg

RUP 502-A
RUP 503
CRW 200+AT174
CRW 300+AT172

DESCRIPTION
OF DEVICE:

TM 9-T is a material tripod intended for lifting/lowering loads of maximum weight of up to 500 kg.



The head is made of powder coated galvanized steel, and has 1 central anchor point as an eye bolt and 3 additional side anchor points.



Legs are made of aluminium, and feature 7-step adjustment, locked with a cotter.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

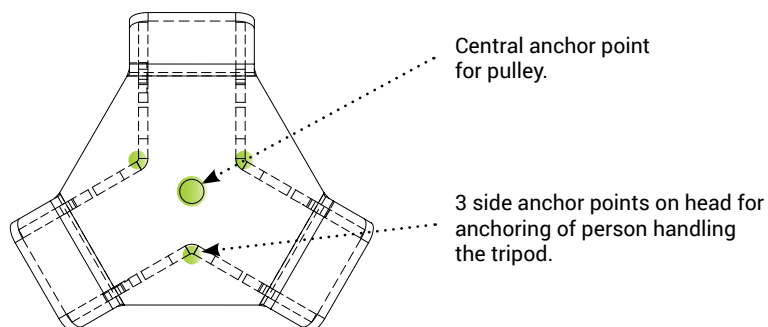


Tripod legs can be secured with textile webbing or steel chain.

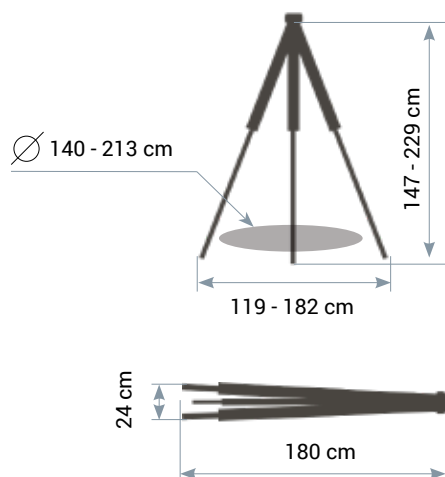
Height:	147 - 229 cm
Opening diameter under tripod:	140 - 213 cm
Leg spacing:	119 - 182 cm
Device weight:	17 kg
Anchor points on head:	4
Lifting and lowering:	up to 500 kg
Transport dimensions:	180 x 24 x 24 cm

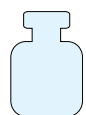


HEAD – PLAN VIEW

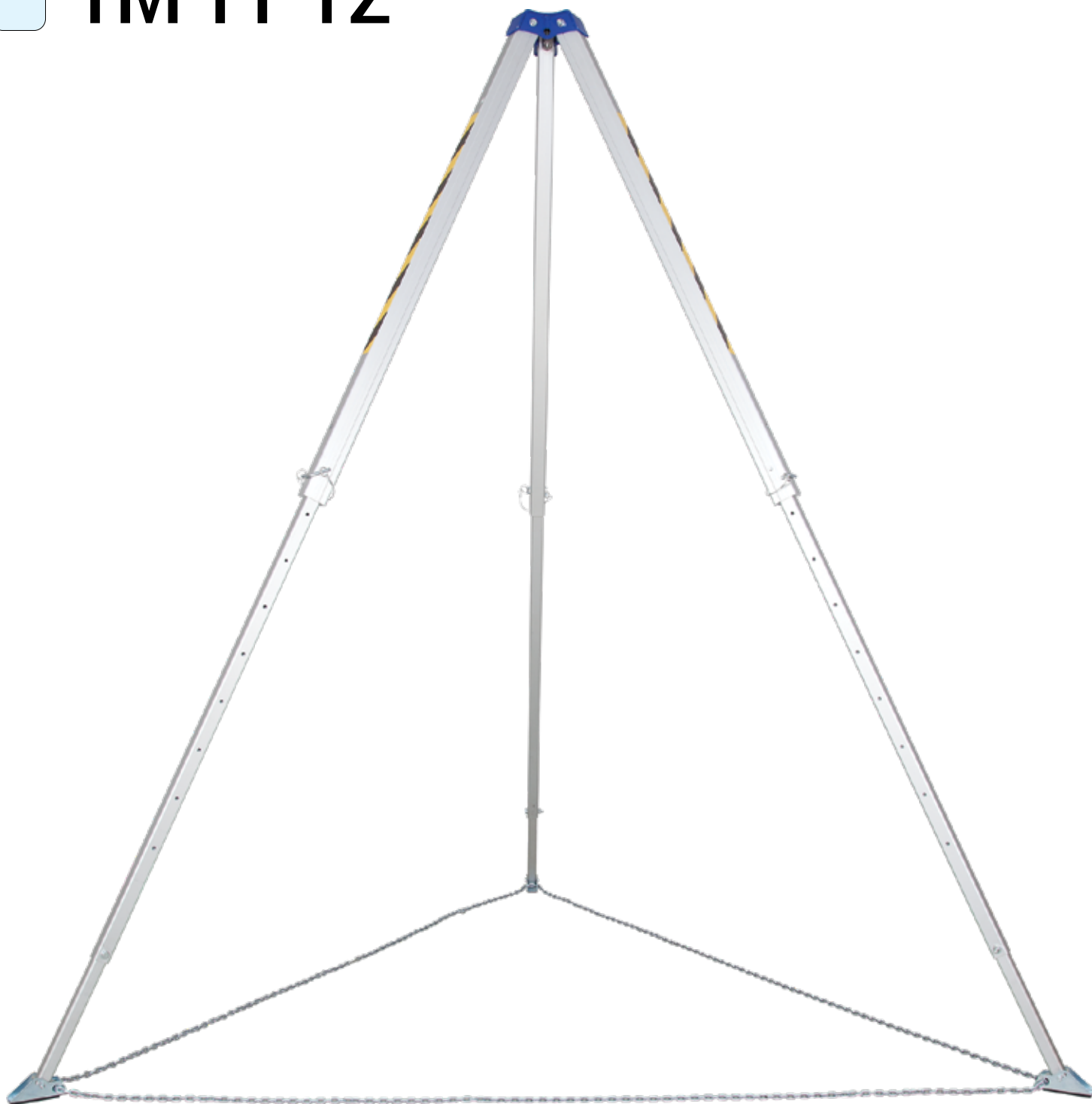


DIMENSIONS





TM 11-T2



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :



 Capacity of
up to 1000 kg

RUP 502-AT

DESCRIPTION
OF DEVICE:

TM 11-T2 is a device for material handling, equipped with 4 permanent anchor points with capacity of up to 1000 kg.



The head is made of powder coated galvanized steel and has 1 central anchor point as an eye bolt and 3 additional side anchor points.



Legs are made of aluminium, and feature 7-step adjustment, locked with a cotter.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.

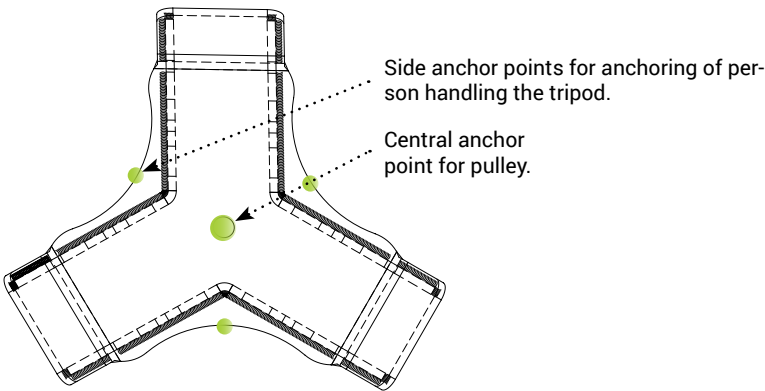


Tripod legs can be secured with textile webbing or steel chain.

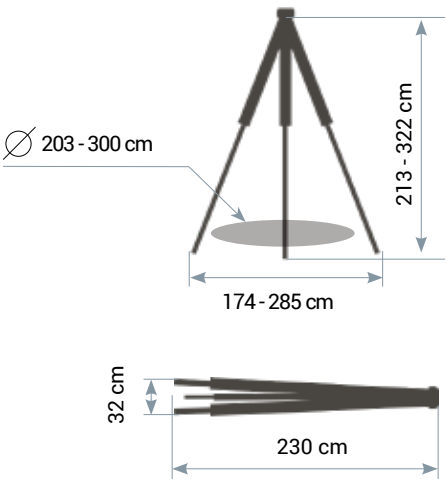


Height:	213 - 322 cm
Opening diameter under tripod:	203 - 300 cm
Leg spacing:	174 - 285 cm
Device weight:	45,5 kg
Anchor points on head:	4
Lifting and lowering:	up to 1000 kg
Transport dimensions:	230 x 32 x 30 cm

HEAD – PLAN VIEW



DIMENSIONS



TM 13-T




NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :



 Capacity of
up to 1000 kg

RUP 502-AT
RUP 503-T

DESCRIPTION
OF DEVICE:

TM 13-T is a material handling tripod intended for lifting/lowering loads of maximum weight up to 1000 kg.



The head is made of powder coated galvanized steel and has two wheels for guiding the work rope on rescue or lifting devices. Cotter pins above wheels prevent the rope from accidental slipping during work.



Tripod legs are made of strengthened aluminium profiles with 9-step adjustment, locked with cotter pins. Two legs "A" are equipped with a wheel (for guiding the work rope) and anchor point (bore) for mounting winches the third leg "B" has no wheel or anchor point.



Aluminium steps are mounted with cotter pins and provide easier access to the tripod head when extending the legs to their maximum height.



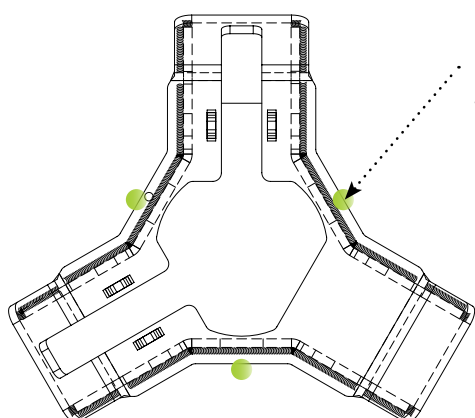
Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.



Tripod legs can be secured with textile webbing or steel chain.

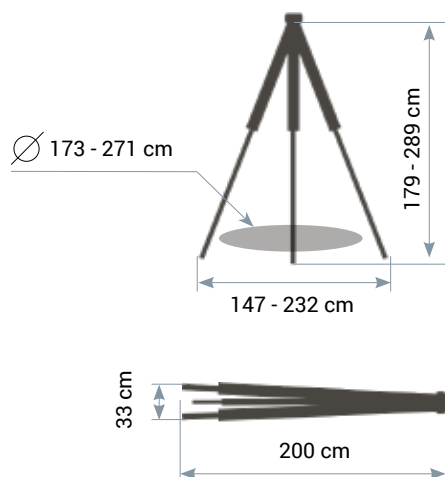
Height:	179 - 289 cm
Opening diameter under tripod:	158 - 256 cm
Leg spacing:	147 - 232 cm
Device weight:	37 kg
Anchor points on head:	3
Lifting and lowering:	up to 1000 kg
Transport dimensions:	200 x 33 x 31 cm

HEAD – PLAN VIEW



Side anchor points for anchoring of person handling the tripod.


DIMENSIONS





SINECURA
anti fall engineering

WWW.PROTEKT.COM.PL



PERSONAL AND MATERIAL COMBO TRIPODS

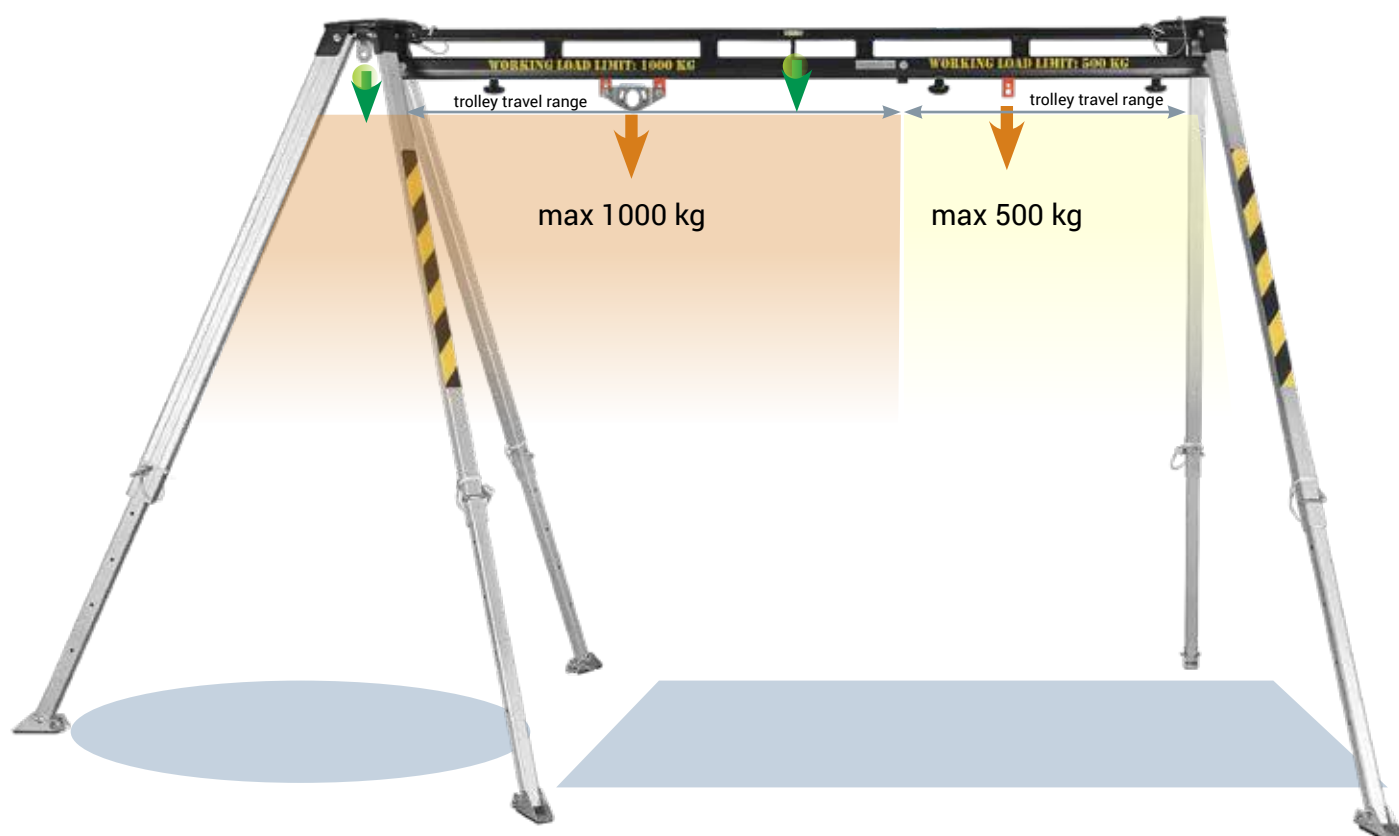
TM 12 SPIDER	40
TM 12-2 HEXAPOD	42
TM 15 NEW	44

Catalogue 2022

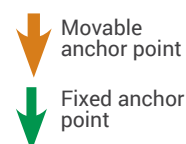
TRIPODS



TM 12-SPIDER



Height:	139 - 221 cm
Opening diameter under tripod:	150 - 223 cm
Tripod spacing:	139 - 191 cm
Spacing of the complete device:	325 - 368 cm
Beam weight:	30 kg
Beam length:	230 cm
Device weight:	76 kg
Maximum permissible load:	1000 kg
Lift / Lowering for:	max. 2 persons
Fixed anchor points:	4
Movable anchor points:	2
Transport dimensions:	254 x 33 x 33 cm



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max. 2 persons or
capacity of up to 1000 kg



RUP 502-A
RUP 502-AT
RUP 503
RUP503-T

CRW 200+AT174
CRW 300+AT172
CRW 200+AZ017
CRW 300+AZ017

DESCRIPTION
OF DEVICE:

TM 12 SPIDER is a personnel and material device equipped with 2 movable and 4 fixed anchor points. With the system TM 12 Spider it is possible to use the left tripod as an independent work tripod for handling materials or lifting and lowering personnel.



Steel trolley travelling along the beam is a movable anchor point which can be locked in a fixed position. The point withstands loads of up to 1000 kg or enables lifting/lowering of 1 person.



Steel trolley travelling along the beam is a movable anchor point which can be locked in a fixed position. The point withstands loads of up to 500 kg.



The tripod's beam is made of powder coated galvanized steel, and has 2 permanent anchor points for person handling the tripod. The beam is equipped with a level indicating whether the device is set properly.



The tripod's head is made of powder coated galvanized steel. It is equipped with an attachment point for a pulley and an additional anchor point for attaching of person handling the tripod.



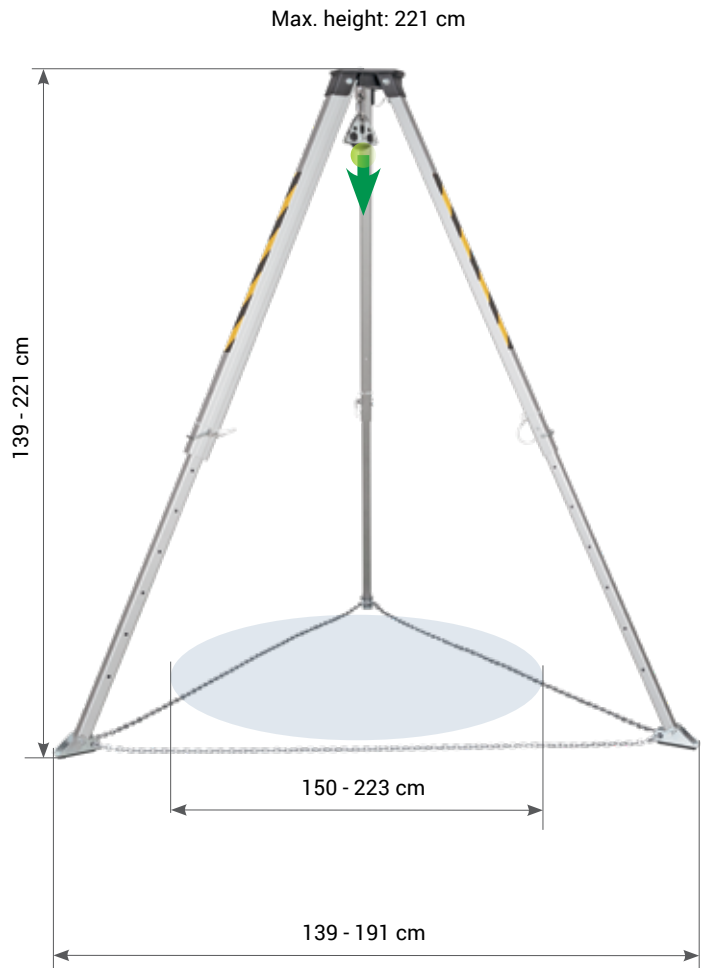
The tripod's legs are made entirely of aluminium, and feature 7-step adjustment for flexible adaptation of the device's height to desired conditions.



Anti-slip tripod's foot can be adjusted to slippery surfaces.



The tripod's legs can be secured with a light textile webbing or a heavier steel chain.

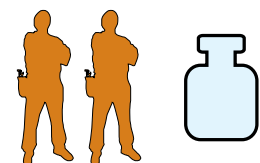


EXTENDED VARIANT – WORK COMBO TRIPOD

Height:	139 - 221 cm
Opening diameter under tripod:	150 - 223 cm
Tripod spacing:	139 - 191 cm
Device weight:	72 kg
Lift / Descent for:	max. 1 person
Fixed anchor points:	2
Maximum permissible load:	1000 kg



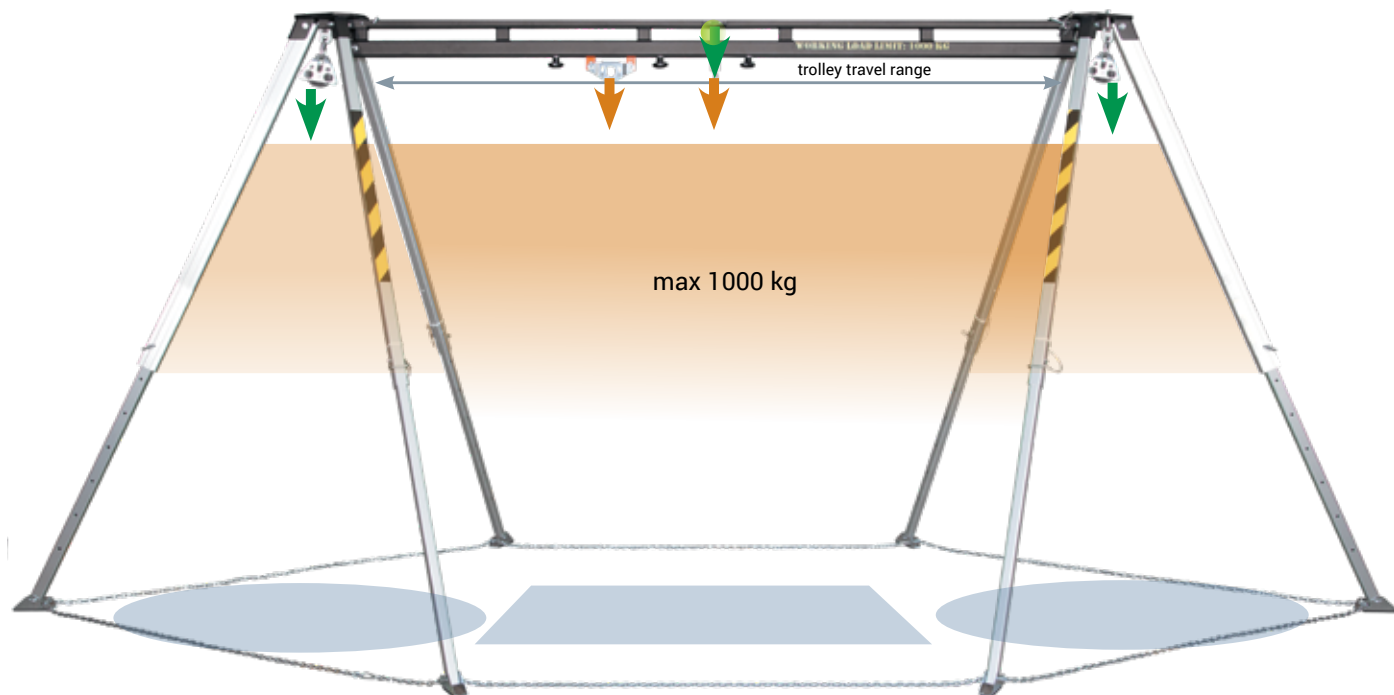
EN 795/B:2012
TS 16415/B:2013



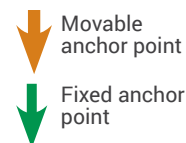
Max. 2 persons or
capacity of up to 1000 kg



TM 12-2 HEXAPOD



Height:	139 - 221 cm
Opening diameter under tripods:	150 - 223 cm
Tripod spacing:	139 - 191 cm
Spacing of complete device:	464 - 537 cm
Beam weight:	34 kg
Beam length:	280 cm
Device weight:	90 kg
Fixed anchor points:	6
Maximum permissible load:	1000 kg
Lift / Descent for:	max. 2 persons
Movable anchor points:	2
Transport dimensions:	254 x 33 x 33 cm



NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH :

EN 795/B:2012
TS 16415/B:2013



Max. 2 persons or
capacity of up to 1000 kg



RUP 502-A
RUP 502-AT
RUP 503
RUP503-T

CRW 200+AT174
CRW 300+AT172
CRW 200+AZ017
CRW 300+AZ017

DESCRIPTION
OF DEVICE:

TM 12-2 HEXAPOD is a personnel and material device equipped with 2 movable and 6 fixed anchor points.



Steel trolley travelling along the beam is a movable anchor point which can be locked in a fixed position. The point withstands loads of up to 1000 kg or enables lifting/lowering of 1 person.



Steel trolley travelling along the beam is a movable anchor point which can be locked in a fixed position. The point withstands loads of up to 500 kg.



The tripod's beam is made of powder coated galvanized steel, and has 2 permanent anchor points for a person handling the tripod. The beam is equipped with a level indicating whether the device is set properly.



The tripod's head is made of powder coated galvanized steel. It is equipped with an attachment point for a pulley and an additional anchor point for attaching of person handling the tripod.



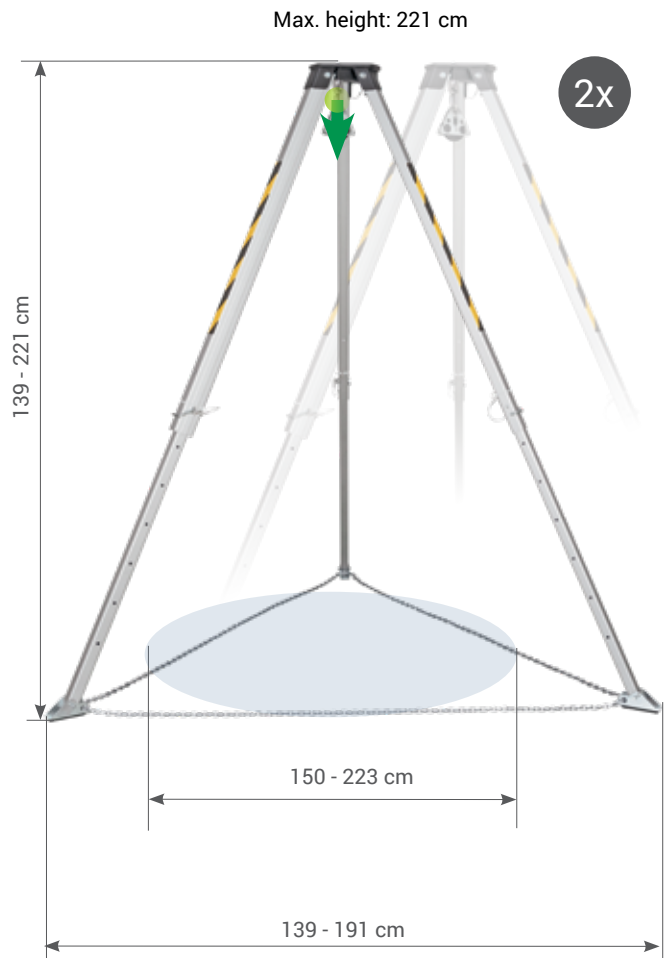
The tripod's legs are made entirely of aluminium, and feature 7-step adjustment for flexible adaptation of the device's height to desired conditions.



Anti-slip tripod's foot can be adjusted to slippery surfaces.



The tripod's legs can be secured with a light textile webbing or a heavier steel chain.



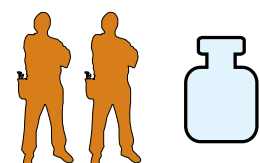
With the system TM 12-2 Hexapod it is possible to use side tripods as independent work tripods for handling materials or lifting and lowering personnel

EXTENDED VARIANT – WORK COMBO TRIPOD

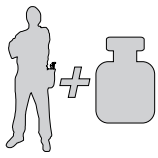
Height:	139 - 221 cm
Opening diameter under tripod:	150 - 223 cm
Tripod spacing:	139 - 191 cm
Device weight:	86 kg
Lift / Descent for:	max. 1 person
Fixed anchor points:	2
Maximum permissible load:	1000 kg



EN 795/B:2012
TS 16415/B:2013



Max. 2 persons or
capacity of up to 1000 kg



TM 15

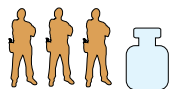


NORM:

LIFTING
AND LOWERING:

COMPATIBLE
WITH BELOW DEVICES
USING NEW UTB BRACKET :

EN 795/B:2012
TS 16415/B:2013



Max. 3 persons
or 1000 kg

RUP502/RUP502-T
RUP503/RUP503-T
CRW 200



The lightweight TM15 aluminium safety tripod is an anchor point according to EN795/B and TS16415/B and can be used as a fall protection equipment. The TM15 tripod provides protection for up to 3 people at a time. The TM15 tripod consists of a powder-coated aluminium head with 3 ball-bearing polyamide rollers. The tripod is also equipped with 3 anchorage points on the side walls of the tripod head. Each of these points can be used as an anchor point for equipment to protect against falls from height. One point is designed for a maximum of one user at a time.



The head is made of powder coated aluminum and has three ball-bearing wheels for guiding the work rope on rescue or lifting devices.



Aluminium steps are mounted with cotters and provide easier access to the tripod head when extending the legs to their maximum height.



Steel feet have rubber pads for flat surfaces and spiked edges for slippery surfaces.



The tripod legs are made of strengthened aluminium profiles with 9-step adjustment, locked with cotters. Legs are equipped with a wheels (for guiding the work rope) and anchor point (bore) for mounting winches.



UTB holder
described on page 68.

The universal holder (UTB) can be attached to all tripods offered. The following winches are compatible with the UTB carrier:

RUP502/RUP 502-T
RUP503/RUP503 - T



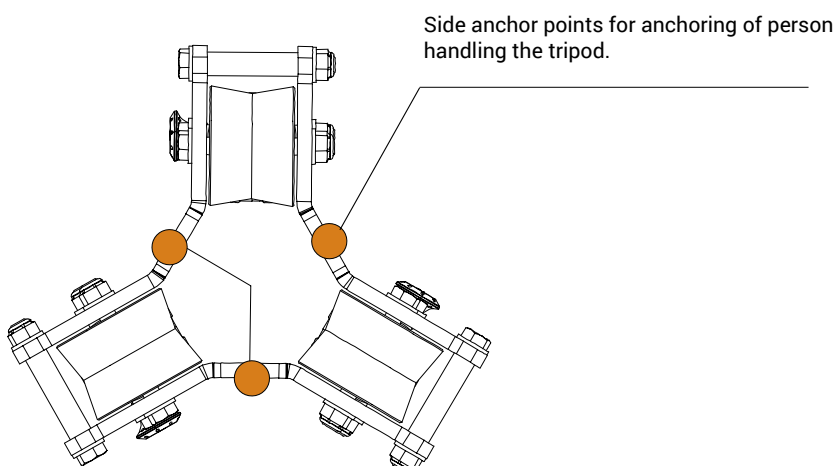
RUP 503
WITH UTB



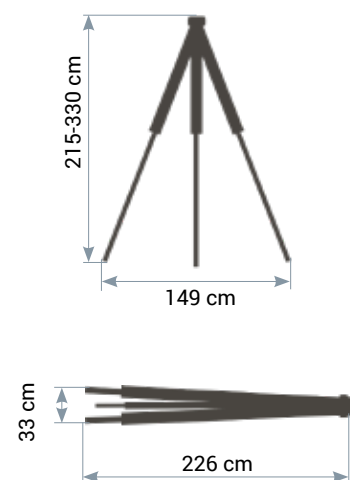
RUP 502
WITH UTB

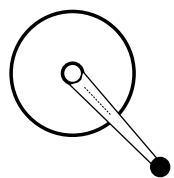


HEAD – PLAN VIEW



DIMENSIONS





RUP 502



RUP 502 is a winch equipped with a clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern of 20 and 25 m in length and 6.3 mm in diameter;

RUP 502 is a component of rescue equipment. The device, can be lifted from a lower level onto a higher level or vice-versa.

The descent distance cannot be more than 2 m.

With the ratio used in the mechanism it is possible to make one turn of the drum per 5 turns of the winch's crank.

The crank arm is available in 2 lengths which, depending of the variant chosen, enable torque adjustment.

The RUP 502 rescue device complies with EN 1496/B.

Accessories:

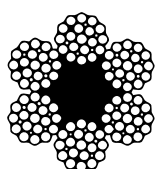
Spring-type energy absorber SDW

Pulley PL 101

CABLE LENGTH VARIANTS:

— 20 m
— 25 m

CABLE PARAMETERS:

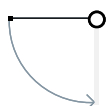


6x19+NFC

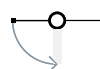


ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

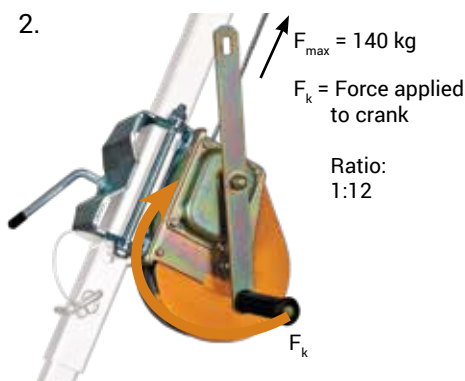
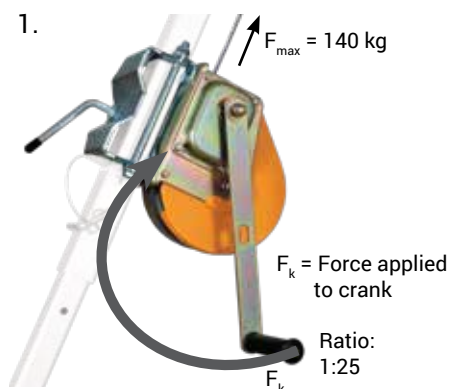
SPUR GEARING:



1 : 5

COMPATIBLE WITH :

TM 9
TM 9-L
TM 9-W



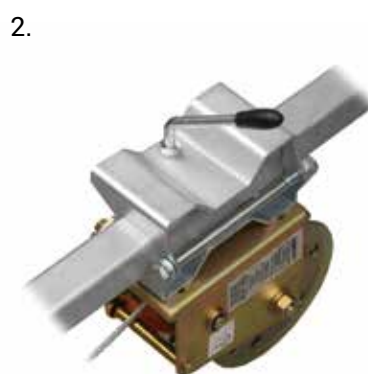
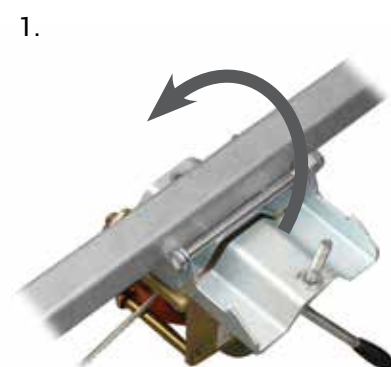
LOADS:

Variant 1:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 5.6 kG.

Variant 2:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 11.6 kG.



ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

Rescue winch RUP 502 is offered with pulley PL 101 and spring-type energy absorber SDW.

MAIN FEATURES:

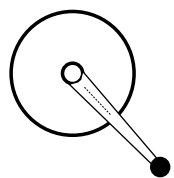
Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	5,6 kG
Force applied to lift 140 kg for variant 2:	11,6 kG
Permissible work load:	140 kg
Compatible with tripod types:	TM9, TM9-L, TM9-W
Standard:	EN 1496/B



EN 1496/B



1 person
at max. 140 kg



RUP 502-A



RUP 502-A is a winch equipped with a clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern of 20 and 25 m in length and 6.3 mm in diameter;

RUP 502-A is a component of rescue equipment. The device, can be lifted from a lower level onto a higher level or vice-versa.

The descent distance cannot be more than 2 m.

With the ratio used in the mechanism it is possible to make one turn of the drum per 5 turns of the winch's crank.

The crank arm is available in 2 lengths which, depending of the variant chosen, enable torque adjustment.

The RUP 502-A rescue device complies with EN 1496/B.

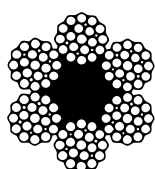
Accessories:

Spring-type energy absorber SDW

CABLE LENGTH VARIANTS:

— 20 m
— 25 m

CABLE PARAMETERS:

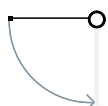


6x19+NFC

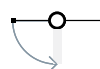


ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

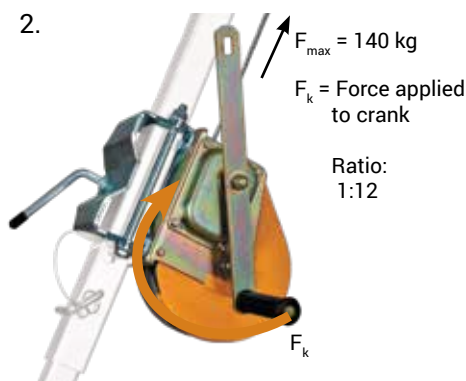
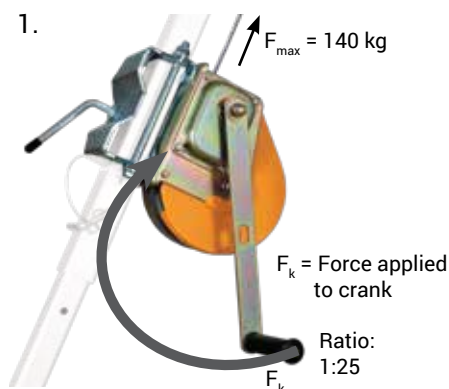
SPUR GEARING:



1 : 5

COMPATIBLE WITH :

TM 6
TM 12
TM 12-2
TM 13



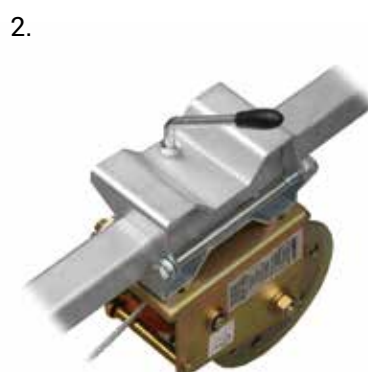
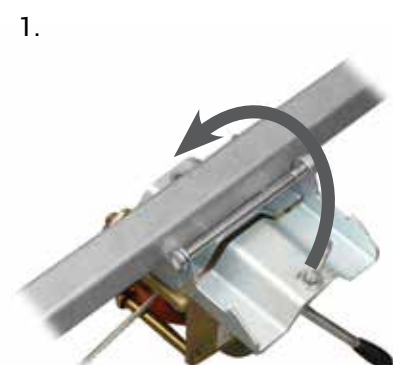
LOADS:

Variant 1:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 5.6 kG.

Variant 2:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 11.6 kG.



ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

Rescue winch RUP 502-A is offered with spring-type energy absorber SDW.

MAIN FEATURES:

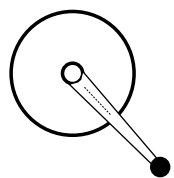
Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	5,6 kG
Force applied to lift 140 kg for variant 2:	11,6 kG
Permissible work load:	140 kg
Compatible with tripod types:	TM6, TM13, TM12, TM12-2
Standard:	EN 1496/B



EN 1496/B



1 person
at max. 140 kg



RUP 502-B



RUP 502-B is a winch equipped with a clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern of 20 and 25 m in length and 6.3 mm in diameter;

RUP 502-B is a component of rescue equipment. The device, can be lifted from a lower level onto a higher level or vice-versa.

The descent distance cannot be more than 2 m.

With the ratio used in the mechanism it is possible to make one turn of the drum per 5 turns of the winch's crank.

The crank arm is available in 2 lengths which, depending of the variant chosen, enable torque adjustment.

The RUP 502-B rescue device complies with EN 1496/B.

Accessories:

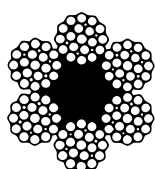
Spring-type energy absorber SDW

Pulley PL 101

CABLE LENGTH VARIANTS:

— 20 m
— 25 m

CABLE PARAMETERS:

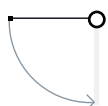


6x19+NFC

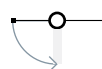


ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

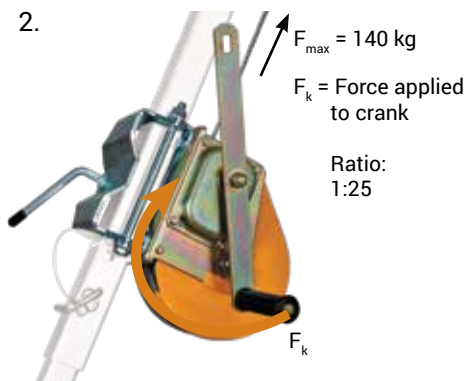
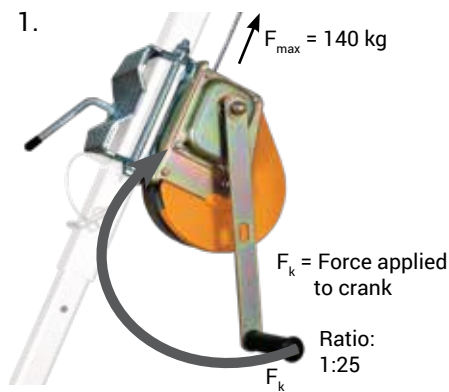
SPUR GEARING:



1 : 5

COMPATIBLE WITH :

TM 7



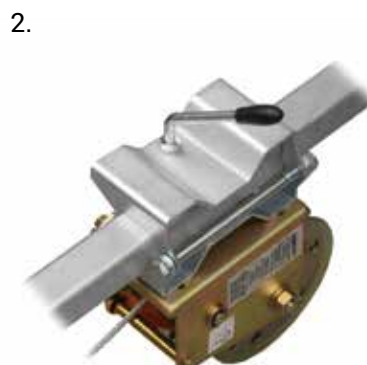
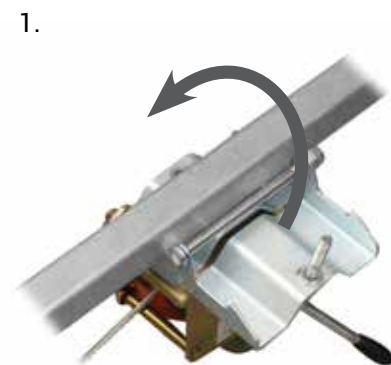
LOADS:

Variant 1:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 5.6 kG.

Variant 2:

At load weight (F_{\max}) of 140 kg force applied to the crank (F_k) shall be 11.6 kG.



ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

Rescue winch RUP 502-B is offered with pulley PL 101 and spring-type energy absorber SDW.

MAIN FEATURES:

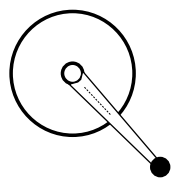
Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	5,6 kG
Force applied to lift 140 kg for variant 2:	11,6 kG
Permissible work load:	140 kg
Compatible with tripod types:	TM7
Standard:	EN 1496/B



EN 1496/B



1 person
at max. 140 kg



RUP 503



Switch for winch mechanism clutch disengagement and switching of descent/lift modes.

RUP 503 is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern, available in options of 25 m, 35 m, 45 m, 50 m in length and 6.3 mm in diameter;

RUP 503 is a component of rescue equipment. Using the device, a casualty can be lifted from a lower level onto a higher level or vice-versa. The descent distance cannot be more than 2 m;

With the ratio used in the mechanism it is possible to make one turn of the drum per 7.2 turns of the winch's crank;

Crank arm can be disassembled for easier transport;

The RUP 503 rescue device complies with EN 1496/B.

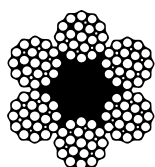
Accessories:

Spring-type energy absorber SDW

CABLE LENGTH VARIANTS:

- 25 m
- 35 m
- 45 m
- 50 m

CABLE PARAMETERS:

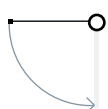


6x19+NFC



ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 27

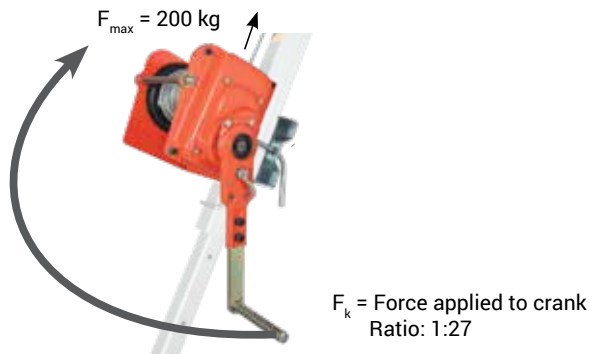
SPUR GEARING:



1 : 7,2

COMPATIBLE WITH :

TM 6
TM 12
TM 12-2
TM 13



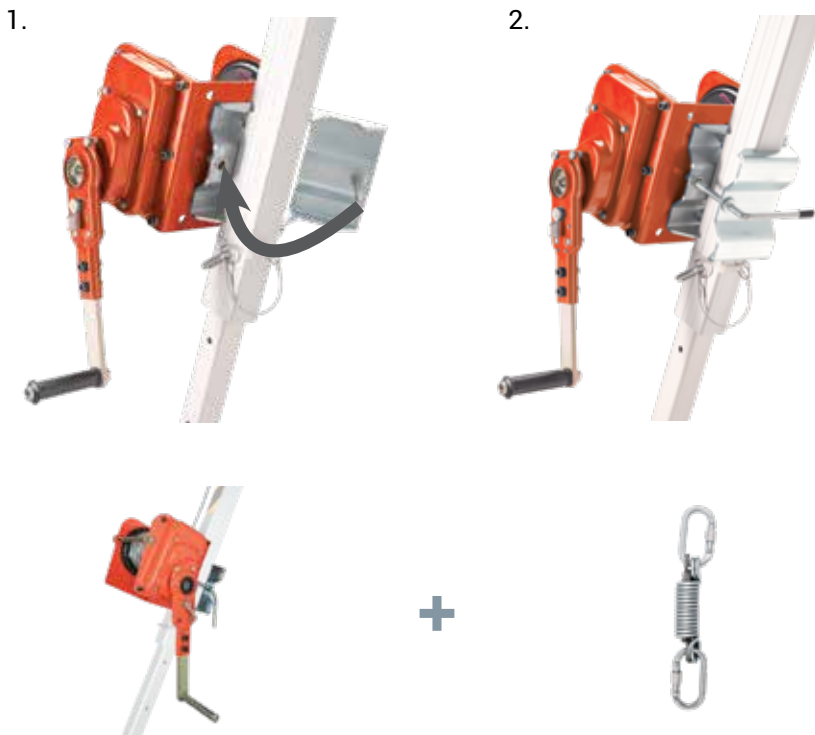
LOADS:

At load weight (F_{\max}) of 200 kg force applied to the crank (F_k) shall be 7.41 kG.

ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

Rescue winch RUP 503 is offered with spring-type energy absorber SDW.

MAIN FEATURES:

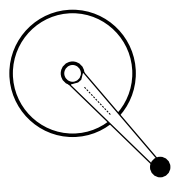
Winch weight depending on cable length:	22,5 kg to 26,2 kg
Cable length:	25 m, 35 m, 45 m or 50 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 7,2
Force required for pulling load with weight of 200 kg:	7,41 kG
Permissible work load:	200 kg
Compatible with tripod types:	TM6, TM12, TM12-2, TM13
Standard:	EN 1496/B



EN 1496/B



2 persons
at max. 200 kg



RUP 503-B

RUP 503-B is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern, available in options of 25 m, 35 m, 45 m, 50 m in length and 6.3 mm in diameter;

RUP 503-B is a component of rescue equipment. Using the device, a casualty can be lifted from a lower level onto a higher level or vice-versa. The descent distance cannot be more than 2 m;

With the ratio used in the mechanism it is possible to make one turn of the drum per 7.2 turns of the winch's crank;

Crank arm can be disassembled for easier transport;

The RUP 503-B rescue device complies with EN 1496/B.

Accessories:

Spring-type energy absorber SDW

Pulley PL 101

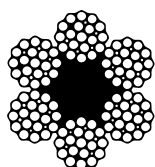


Switch for winch mechanism clutch disengagement and switching of descent/lift modes.

CABLE LENGTH VARIANTS:

- 25 m
- 35 m
- 45 m
- 50 m

CABLE PARAMETERS:

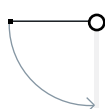


6x19+NFC



ø 6,3 mm

OVERALL MECHANISM RATIO:



1 : 27

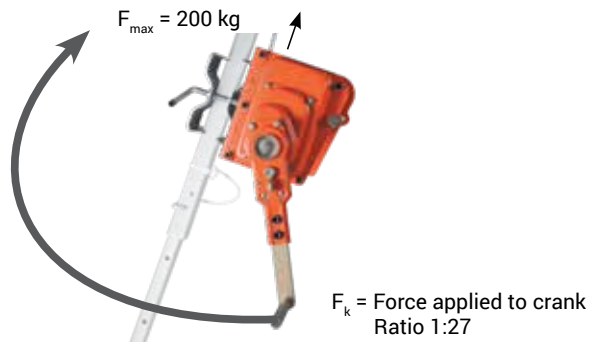
SPUR GEARING:



1 : 7,2

COMPATIBLE WITH :

TM 7



LOADS:

At load weight (F_{max}) of 200 kg force applied to the crank (F_k) shall be 7.41 kG.

ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

Rescue winch RUP 503-B is offered with pulley PL 101 and spring-type energy absorber SDW.

MAIN FEATURES:

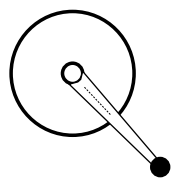
Winch weight depending on cable length:	22,5 kg to 26,2 kg
Cable length:	25 m, 35 m, 45 m or 50 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 7,2
Force required for pulling load with weight of 200 kg:	7,41 kG
Permissible work load:	200 kg
Compatible with tripod types:	TM7
Standard:	EN 1496/B



EN 1496/B



2 persons
at max. 200 kg



RUP 505



RUP 505 is a rescue lifting device equipped with clamp for mounting of the device on a tripod leg. The lifting device operates with static textile ropes of length as required by the customer. The rope should be ordered separately.

RUP 505 is a component of rescue equipment. Using the device, a casualty can be lifted from a lower level onto a higher level or vice-versa. The descent distance cannot be more than 2 m;

With the ratio used in the mechanism it is possible to make one turn of the drum per 2.13 turns of the device's crank or in the second mode, 6.2 turns;

The crank is easily dismounted to facilitate transport;

The RUP 505 rescue device complies with EN 1496/B.

Accessories:

Spring-type energy absorber SDW

Pulley PL 101

CABLE LENGTH VARIANTS:

— unlimited

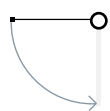
Rope sold separately

CABLE PARAMETERS:

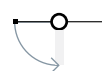


ø 10-11 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 13,5



Variant 2
1 : 39,9

SPUR GEARING:



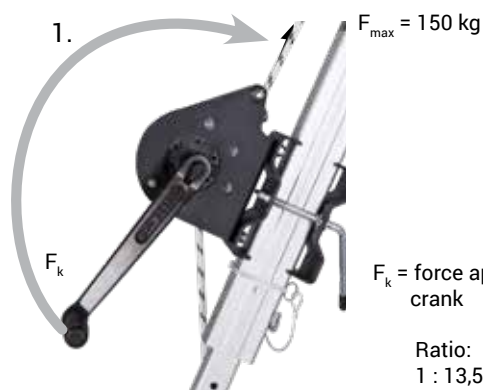
1 : 2,13



1 : 6,28

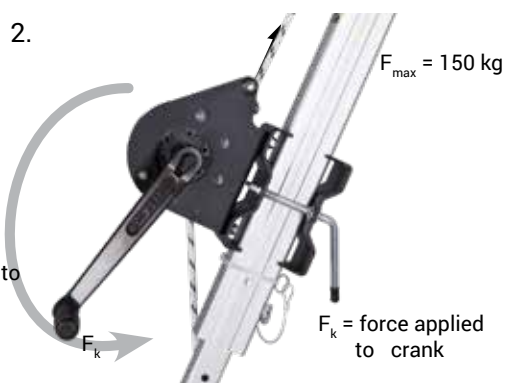
COMPATIBLE WITH :

TM 9,
TM 9-W



F_k = force applied to crank

Ratio:
1 : 13,5



F_k = force applied to crank

Ratio:
1 : 39,9

LOADS:

Variant 1:

At load weight (F_{max}) of 150 kg force applied to the crank (F_k) shall be 11,11 kG

Variant 2:

At load weight (F_{max}) of 150 kg force applied to the crank (F_k) shall be 3,75 kG



INSTALLATION:

Simple mounting of the device on the tripod leg by means of a clamp:

1. Clamp opened
2. Clamp closed.



KIT:

Rescue lifting device RUP 505 is offered with spring-type energy absorber SDW.

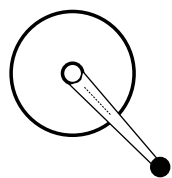
MAIN FEATURES:

Lifting device weight:	8 kg
Rope length:	unlimited
Rope type:	od 10 do 11 mm
Rope diameter:	static textile rope conforms with EN 1891
Mechanism ratio 1:	1 : 2,13
Mechanism ratio 2:	1 : 6,28
Force applied to lift 150 kg kg for variant 1:	11,11 kG
Force applied to lift 150 kg kg for variant 2:	3,75 kG
Permissible work load:	150 kg
Compatible with tripod type:	TM9, TM9-W
Standard:	EN 1496/B

EN 1496/B



Personal lifting device for up to 150 kg



RUP 505-A



RUP 505-A is a rescue lifting device equipped with clamp for mounting of the device on a tripod leg. The lifting device operates with static textile ropes of length as required by a customer. The rope should be ordered separately;

RUP 505-A is a component of rescue equipment. Level the device, a casualty can be lifted from a lower level onto a higher level or vice-versa. The descent distance cannot be more than 2 m;



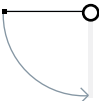



With the ratio used in the mechanism it is possible to make one turn of the drum per 2.13 turns of the device's crank or in the second mode, 6.2 turns;

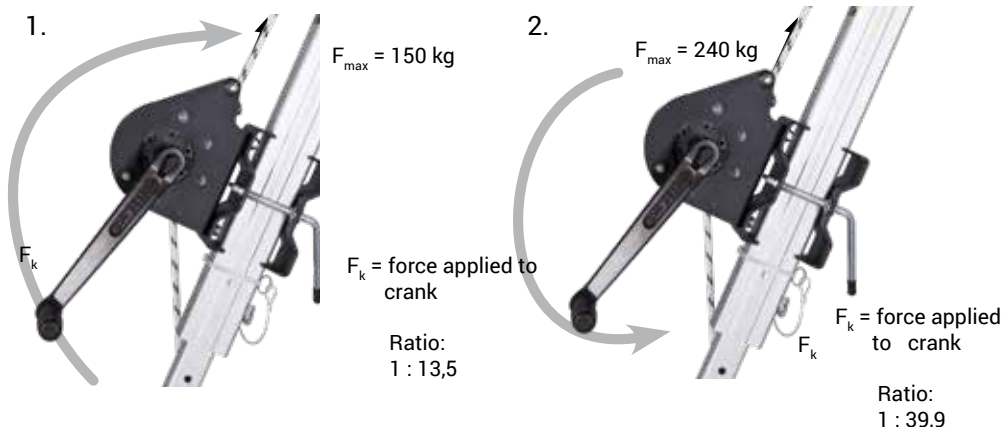
The crank is easily dismounted to facilitate transport;

The RUP 505-A rescue device complies with EN 1496/B.

Accessories:

Spring-type energy absorber SDW

CABLE LENGTH VARIANTS:	CABLE PARAMETERS:	OVERALL MECHANISM RATIO:	SPUR GEARING:	COMPATIBLE WITH :
 unlimited Rope sold separately	 \varnothing 10-11 mm	 Variant 1 1 : 13,5	 1 : 2,13	TM 13
		 Variant 2 1 : 39,9	 1 : 6,28	



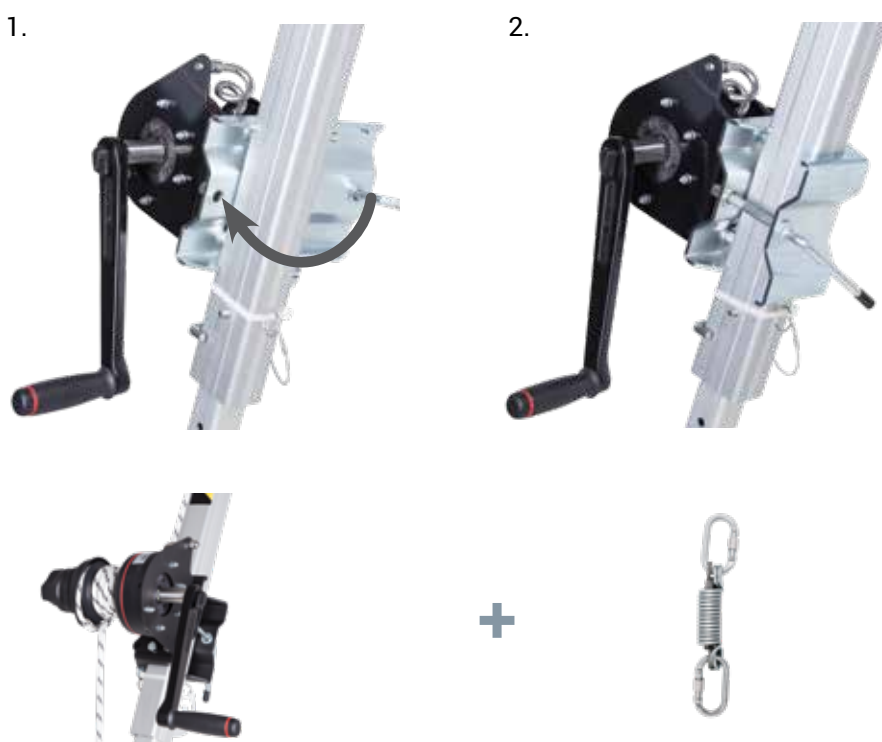
LOADS:

Variant 1:

At load weight (F_{max}) of 240 kg force applied to the crank (F_k) shall be 17.7 kg.

Variant 2:

At load weight (F_{max}) of 240 kg force applied to the crank (F_k) shall be 6 kg.



INSTALLATION:

Simple mounting of the device on the tripod leg by means of a clamp:

1. Clamp opened
2. Clamp closed.

KIT:

Rescue lifting device RUP 505-A is offered with spring-type energy absorber SDW.

MAIN FEATURES:

Lifting device weight:	8 kg
Rope length:	unlimited
Rope type:	od 10 do 11 mm
Rope diameter:	static textile rope conforms with EN 1891
Mechanism ratio 1:	1 : 2,13
Mechanism ratio 2:	1 : 6,28
Force applied to lift 200 kg kg for variant 1:	17,7 kG
Force applied to lift 200 kg kg for variant 2:	6 kG
Permissible work load:	240 kg
Compatible with tripod type:	TM13
Standard:	EN 1496/B

ADDITIONAL OPTION:

Rope guide

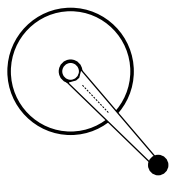
Guide a textile rope when tripod TM 13 is used with lifting device RUP 505-A.



EN 1496/B



Personal lifting device for up to 240 kg



CRW 200



Hook with fall indicator

CRW 200 is a combination of a retractable type fall arrester and a rescue lifting device. The device is equipped with a manual winch featuring lift and descent functions. In order to install on the tripod, first mount an adequate mounting clamp;

Connector has a fall indicator; the design requires no energy absorber;

Permissible work load: 140 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 7.4 turns of the winch's crank;

Retractable type fall arrester CRW 200 is a component of personal fall protection equipment and conforms to EN 360 and EN 1496/B.



CABLE
LENGTH
VARIANTS:

15 m

CABLE
PARAMETERS:

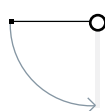


7x19 + IWRC



ø 4,7 mm

OVERALL
MECHANISM
RATIO:



Variant 1
1 : 22

SPUR
GEARING:



1 : 8,8

COMPATIBLE
WITH :

Compatible with
ALL personal
tripod types.



Clamp for mounting retractable type fall arrester CRW 200 on the tripod leg. According to the leg thickness, either clamp AT 173 or AT 174 is used. The clamp is simple to mount and is made of galvanized steel. Above is an example mounting of clamp AT 173 on tripod TM 9 leg.

Example mounting of fall arrester CRW 200 by means of clamp AT 173 on tripod TM 9 leg.



Side anchor point on tripod head can be used to attach fall arrester CRW 200 by means of connector AZ 017.

Example mounting of fall arrester CRW 200 by means of side anchor point on tripod TM 9 head.

MAIN FEATURES:

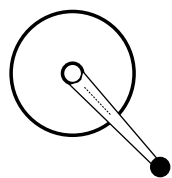
Winch weight:	11 kg
Cable length:	15 m
Cable diameter:	4,8 mm
Cable type:	7x19 + IWRC
Mechanism ratio:	1 : 8,8
Force required for pulling load with weight of 140 kg:	6.4 kG
Permissible work load:	140 kg
Standard:	EN 1496/B
When clamp AT 173 is used, compatible with tripod type:	TM9, TM9-L, TM9-W
When clamp AT 174 is used, compatible with tripod type:	TM6, TM12, TM12-2, TM13
When connector AZ 017 is used, compatible with tripod type:	TM6, TM7, TM9, TM9-L, TM10, TM12, TM12-2, TM13



EN 1496/B
EN 360



1 person
at max. 140 kg



CRW 300



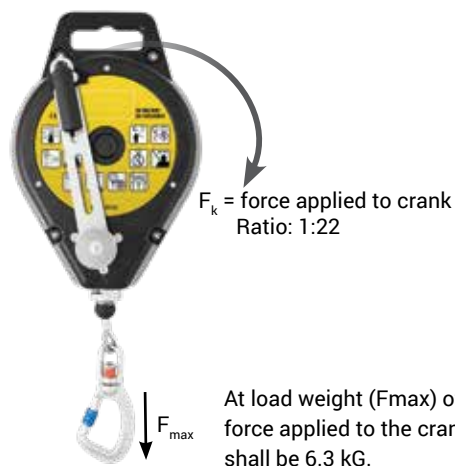
CRW 300 is a combination of a retractable type fall arrester and a rescue lifting device. The device is equipped with a manual winch featuring lift and descent functions. In order to install on the tripod, first mount an adequate mounting clamp;

Connector has a fall indicator; the design requires no energy absorber;

Permissible work load: 140 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 7.4 turns of the winch's crank;

Retractable type fall arrester CRW 300 is a component of personal fall protection equipment and conforms to EN 360 and EN 1496/B.



CABLE
LENGTH
VARIANTS:

— 25 m

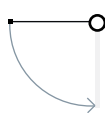
CABLE
PARAMETERS:



7x19 + IWRC

∅ 4,7 mm

OVERALL
MECHANISM
RATIO:



Variant 1
1 : 22

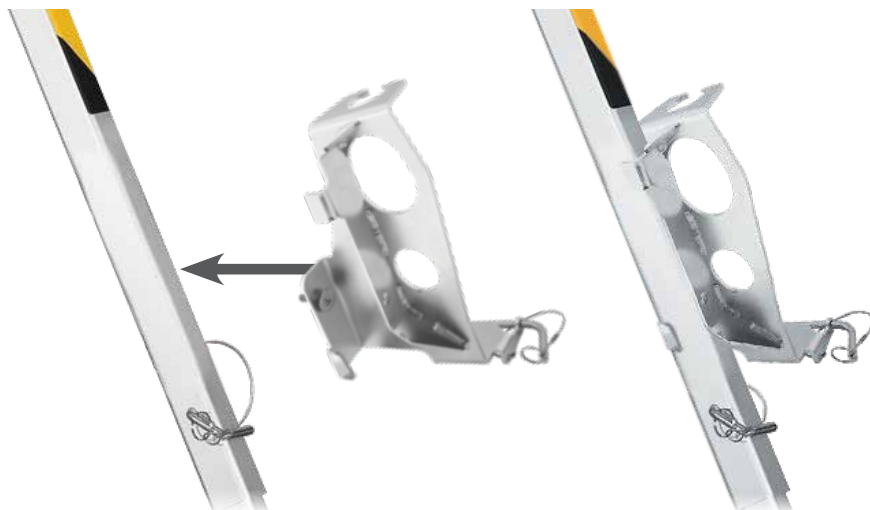
SPUR
GEARING:



1 : 7,4

COMPATIBLE
WITH :

Compatible with
ALL personal
tripod types.



Clamp for mounting retractable type fall arrester CRW 300 on the tripod leg. According to the leg thickness, either clamp AT 171 or AT 172 is used. The clamp is simple to mount and is made of galvanized steel. Above is an example mounting of clamp AT 171 on tripod TM 9 leg.



Example mounting of fall arrester CRW 300 by means of clamp AT 172 on tripod TM 13 leg.



Side anchor point on tripod head can be used to attach fall arrester CRW 300 by means of connector AZ 017.



Example mounting of fall arrester CRW 300 by means of side anchor point on tripod TM 6 head.

MAIN FEATURES:

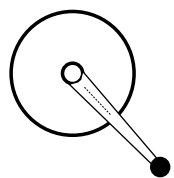
Winch weight:	15 kg
Cable length:	25 m
Cable diameter:	4,8 mm
Cable type:	7x19 + IWRC
Mechanism ratio:	1 : 7,4
Force required for pulling load with weight of 140 kg:	6.3 kG
Permissible work load:	140 kg
Standard:	EN 1496/B
When clamp AT 171 is used, compatible with tripod type:	TM9, TM9-L, TM9-W
When clamp AT 172 is used, compatible with tripod type:	TM6, TM12, TM12-2, TM13
When connector AZ 017 is used, compatible with tripod type:	TM6, TM7, TM9, TM9-L, TM10, TM12, TM12-2, TM13



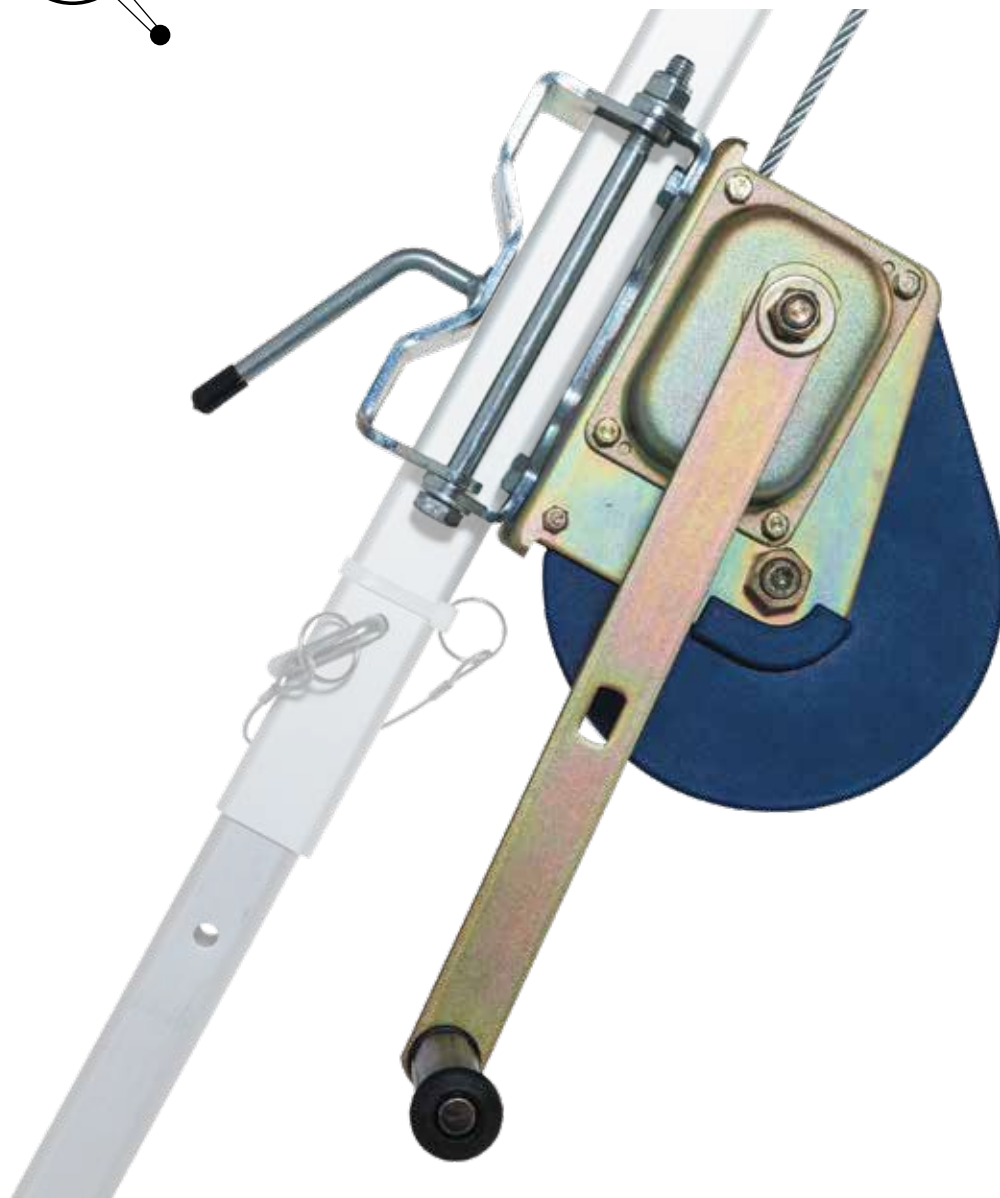
EN 1496/B
EN 360



1 person
at max. 140 kg



RUP 502-T



RUP 502-T is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern of 20 and 25 m in length and 6.3 mm in diameter;

Intended for lifting loads with weight of up to 500 kg;

With the ratio used in the mechanism it is possible to make one turn on the drum per 5 turns of the winch's crank;

The crank arm is available in 2 lengths which, depending on the variant chosen, enable torque adjustment;

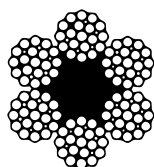
Accessories:

Pulley PL 101

CABLE LENGTH VARIANTS:

— 20 m
— 25 m

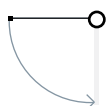
CABLE PARAMETERS:



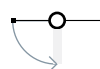
6x19+NFC

Ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

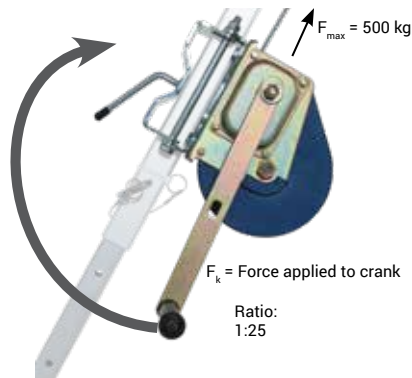
SPUR GEARING:



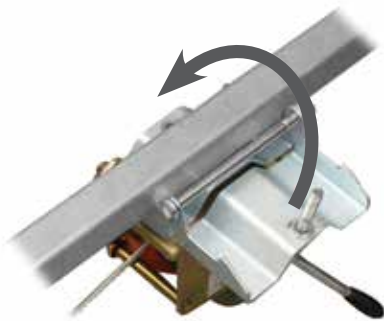
1 : 5

COMPATIBLE WITH :

TM 9-T



1.



2.



LOADS:

Variant 1:

At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 20 kG.

Variant 2:

At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 41.6 kG.

ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.

KIT:

Rescue winch RUP 502-T is offered with pulley PL 101.

MAIN FEATURES:

Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	20 kG
Force applied to lift 140 kg for variant 2:	41,6 kG
Permissible work load:	500 kg
Compatible with tripod types:	TM9-T



Capacity of up to 500 kg



RUP 502-AT



RUP 502-AT is a winch equipped with clamp for mounting on tripod's leg. The winch is equipped with six-strand steel cable with natural fibre kern of 25 m in length and 6.3 mm in diameter;

Intended for lifting loads with weight of up to 500 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 5 turns of the winch's crank;

The crank's arm is available in 2 lengths which, depending of the variant chosen, enable torque adjustment.

PRICE:

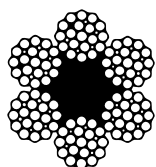
20 m - 157,5 €

25 m - 168 €

CABLE LENGTH VARIANTS:

— 20 m
— 25 m

CABLE PARAMETERS:

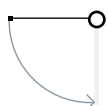


6x19+NFC

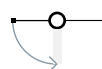


ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

SPUR GEARING:

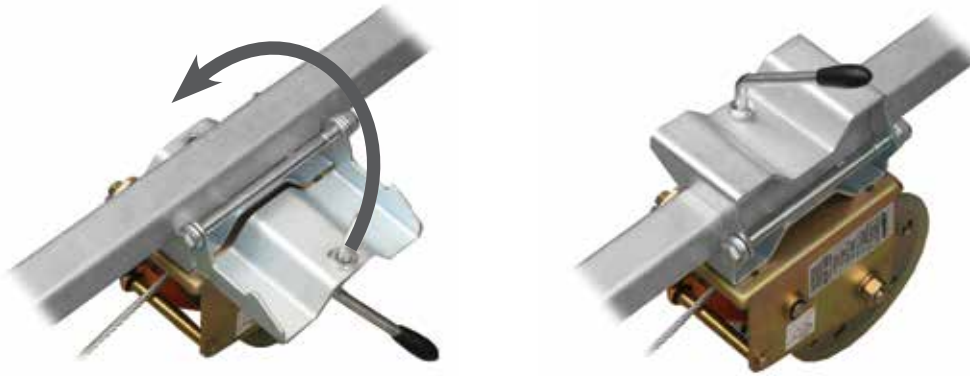


1 : 5

COMPATIBLE WITH :

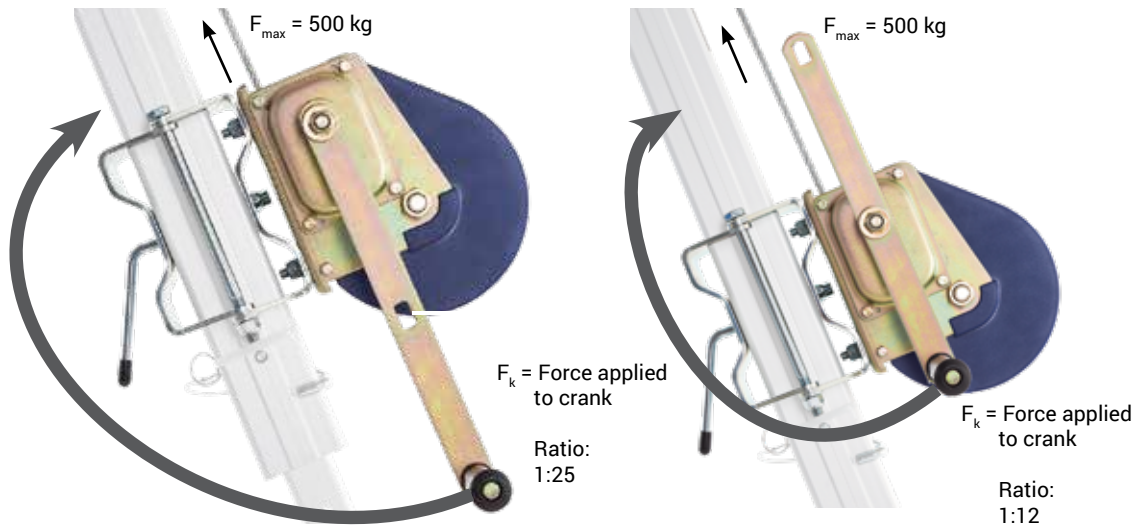
TM 6-T
TM 11-T2
TM 12
TM 12-2
TM 13-T

ASSEMBLY:



Mounting winch on tripod's leg – clamp opened and closed.

LOADS:



Variant 1:

At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 20 kG.

Variant 2:

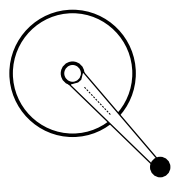
At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 41.6 kG.

MAIN FEATURES:

Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	20 kG
Force applied to lift 140 kg for variant 2:	41,6 kG
Permissible work load:	500 kg
Compatible with tripod types:	TM6-T, TM11-T2, TM-13-T, TM12, TM12-2



Capacity of up to 500 kg



RUP 502-BT



RUP 502-BT is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern of 25 m in length and 6.3 mm in diameter;

Intended for lifting loads with weight of up to 500 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 5 turns of the winch's crank;

The crank arm is available in 2 lengths which, depending of the variant chosen, enable torque adjustment.

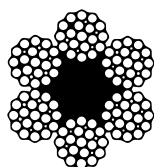
Accessories:

Pulley PL 101

CABLE LENGTH VARIANTS:

- 20 m
- 25 m

CABLE PARAMETERS:

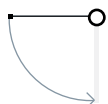


6x19+NFC

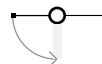


ø 6,3 mm

OVERALL MECHANISM RATIO:



Variant 1
1 : 25



Variant 2
1 : 12

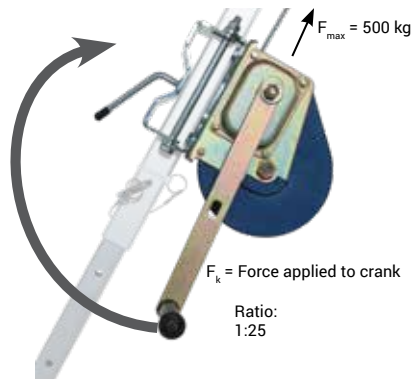
SPUR GEARING:



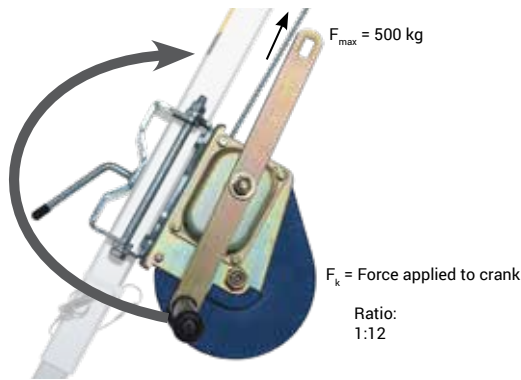
1 : 5

COMPATIBLE WITH :

TM 7-T



1.



2.

LOADS:

Variant 1:

At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 20 kG.

Variant 2:

At load weight (F_{max}) of 500 kg force applied to the crank (F_k) shall be 41.6 kG.

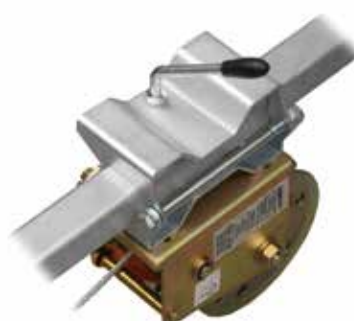
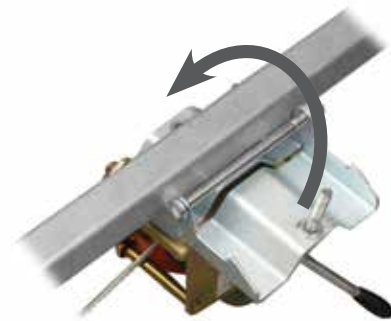
ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.

KIT:

Rescue winch RUP 502-BT is offered with pulley PL 101.

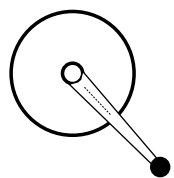


MAIN FEATURES:

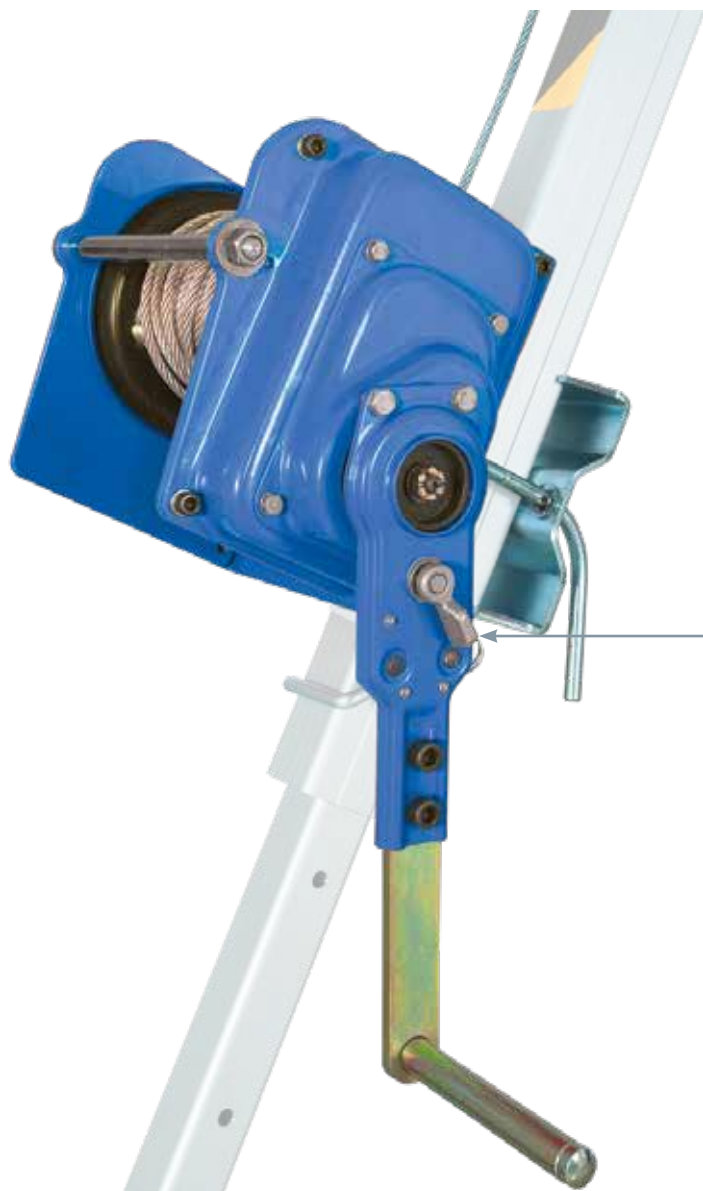
Winch weight:	13 kg, 14 kg
Available cable variants:	20 m, 25 m
Cable diameter:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 5
Force applied to lift 140 kg for variant 1:	20 kG
Force applied to lift 140 kg for variant 2:	41,6 kG
Permissible work load:	500 kg
Compatible with tripod types:	TM7-T



Capacity of up to 500 kg



RUP 503-T



RUP 503-T is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern, available in options of 25 m, 35 m, 45 m, 50 m in length and 6.3 mm in diameter;

Intended for lifting loads with weight of up to 1000 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 22.2 turns of the winch's crank;

Crank arm can be disassembled for easier transport.

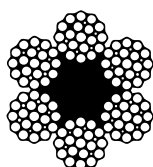


Switch for winch mechanism clutch disengagement and switching of descent/lift modes.

CABLE LENGTH VARIANTS:

- 25 m
- 35 m
- 45 m
- 50 m

CABLE PARAMETERS:

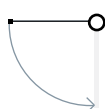


6x19+NFC



ø 6,3 mm

OVERALL MECHANISM RATIO:



1 : 83,3

SPUR GEARING:



1 : 22,2

COMPATIBLE WITH :

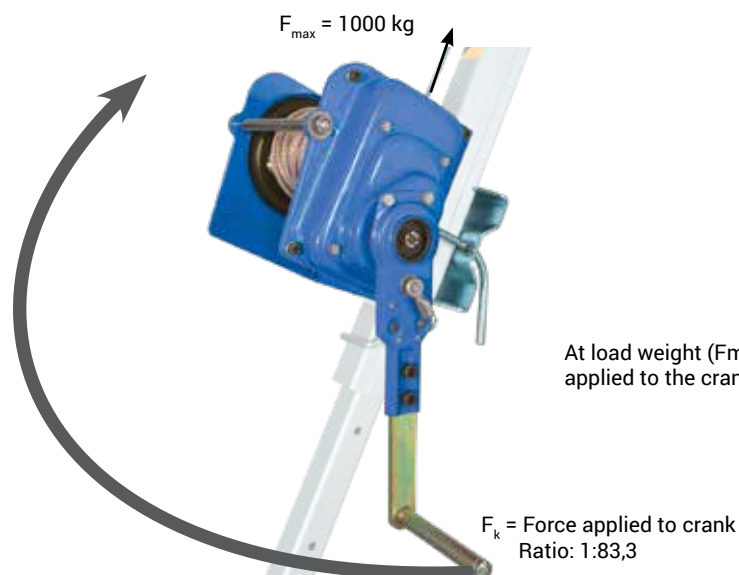
TM 6-T
TM 12
TM 12-2
TM 13-T

ASSEMBLY:



Mounting winch on tripod leg – clamp opened and closed.

LOADS:



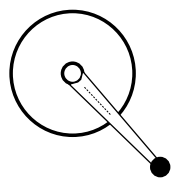
At load weight (F_{max}) of 1000 kg force applied to the crank (F_k) shall be 12 kG.

MAIN FEATURES:

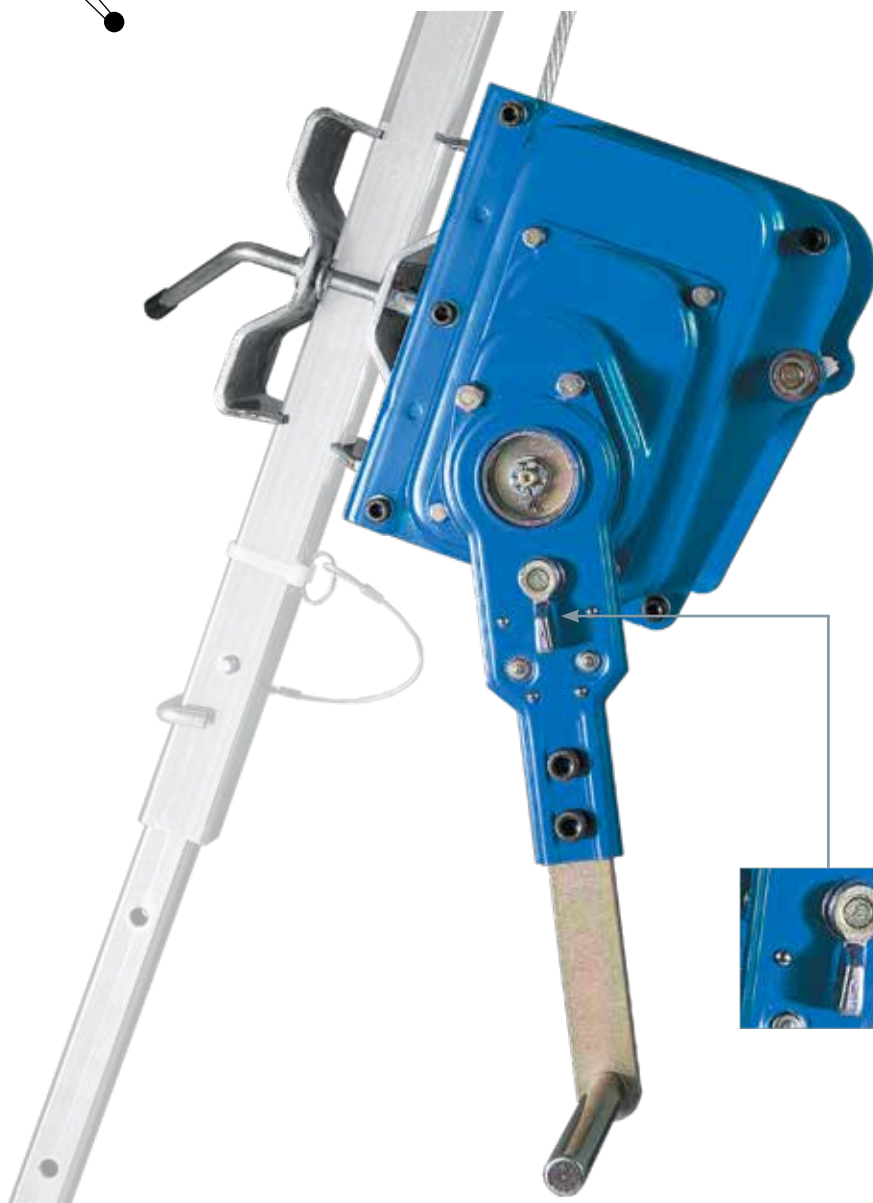
Winch weight:	22,5 kg to 26,2 kg
Cable diameter:	25 m, 35 m, 45 m or 50 m
Cable type:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 22,2
Force required for pulling load with weight of 1000 kg:	12 kG
Permissible work load:	1000 kg
Compatible with tripod types:	TM6-T, TM12, TM12-2, TM13-T



Capacity of up to 1000 kg



RUP 503-BT



RUP 503-BT is a winch equipped with clamp for mounting on tripod leg. The winch is equipped with six-strand steel cable with natural fibre kern, available in options of 25 m, 35 m, 45 m, 50 m in length and 6.3 mm in diameter;

Intended for lifting loads with weight of up to 1000 kg;

With the ratio used in the mechanism it is possible to make one turn of the drum per 22.2 turns of the winch's crank;

Crank arm can be disassembled for easier transport.

Accessories:

Pulley PL 101

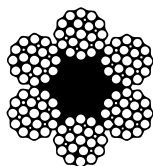


Switch for winch mechanism clutch disengagement and switching of descent/lift modes.

CABLE LENGTH VARIANTS:

- 25 m
- 35 m
- 45 m
- 50 m

CABLE PARAMETERS:

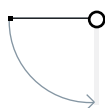


6x19+NFC



ø 6,3 mm

OVERALL MECHANISM RATIO:



1 : 83,3

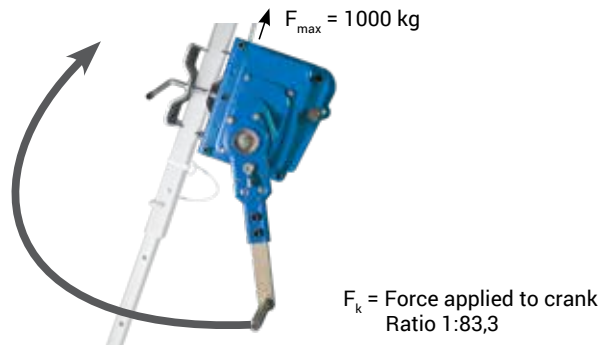
SPUR GEARING:



1 : 22,2

COMPATIBLE WITH :

TM 7-T



LOADS:

At load weight (F_{max}) of 1000 kg force applied to the crank (F_k) shall be 12 kG.

ASSEMBLY:

Simple mounting of the winch on the tripod leg by means of a clamp:

1. Clamp opened;
2. Clamp closed.



KIT:

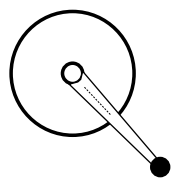
Rescue winch RUP 503-BT is offered with pulley PL 101.

MAIN FEATURES:

Winch weight:	22,5 kg to 26,2 kg
Cable diameter:	25 m, 35 m, 45 m or 50 m
Cable type:	6,3 mm
Cable type:	6x19 + NFC
Mechanism ratio:	1 : 22,2
Force required for pulling load with weight of 1000 kg:	12 kG
Permissible work load:	1000 kg
Compatible with tripod types:	TM7-T



Capacity of
up to 1000 kg



PULLEYS

PL 101, TU 415, TU 416



CABLE DIAMETER:

- ∅ max. 6.3 mm for steel cable
- ∅ between 8 and 12 mm for textile rope

WORK LOAD:

↓ Permissible work load:
10 kN



CABLE DIAMETER:

- ∅ max. 6.3 mm for steel cable
- ∅ between 8 and 12 mm for textile rope

WORK LOAD:

↓ Permissible work load:
10 kN

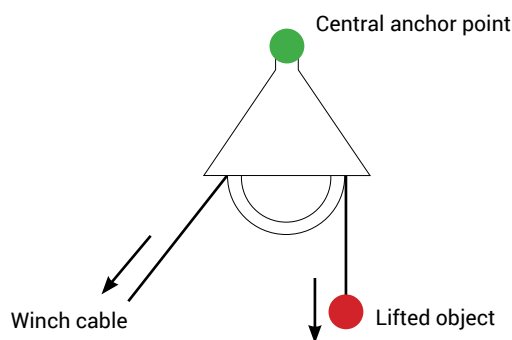


CABLE DIAMETER:

- ∅ between 6.3 mm and 8 mm for steel cable
- ∅ between 10,5 and 14 mm for textile rope

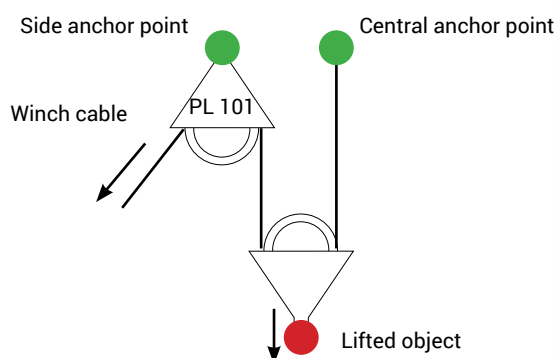
WORK LOAD:

↓ Permissible work load:
20 kN



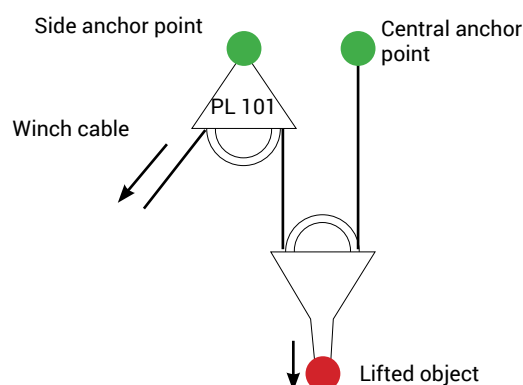
PL 101

Basic pulley of 90 mm in diameter attached at anchor point on the tripod head. Made of galvanized steel and polyamide. Connected to anchor point by means of connector AZ 090. Pulley is a component of winches RUP 502, RUP 502-B, RUP 502-BT, RUP 502-T, RUP 503-B, RUP 503-BT.



TU 415

Pulley TU 415 with steel hook is used for lifting and lowering loads with weight of up to 1000 kg. It can be used both with steel cables (of up to 6.3 mm in diameter) and textile ropes (of diameters between 8 and 12 mm). The mechanism ratio 2:1 enables reduction of the force required to lift a given load, thus allowing for lifting of as much as twice the load using a given winch. The product can be used with all winches and Protekt tripods. When used with tripods and winches with admissible load of 500 kg (TM 9 series) it is possible to increase the load capacity of the whole combination up to 1000 kg.

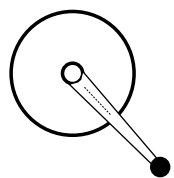


TU 416

Pulley TU 416 with steel hook is used for lifting and lowering loads with weight of up to 2000 kg. It can be used both with steel cables (between 6.3 and 8.0 mm in diameter) and textile ropes (of diameters between 10,5 and 14 mm). The mechanism ratio 2:1 enables reduction of the force required to lift a given load, thus allowing for lifting of as much as twice the load using a given winch. The product can be used with all winches and Protekt tripods. When used with tripods and winches with admissible load of 1000 kg (TM 6-T, TM 11-T, TM 13-T, TM 12, TM 12-2) it is possible to increase the load capacity of the whole combination up to 2000 kg.

MAIN FEATURES:

	PL 101	TU 415	TU 416
Material:	Polyamide, galvanized steel	Polyamide, galvanized steel	Cast iron, galvanized steel
Weight:	0,45 kg	1,14 kg	2,54 kg
Pulley wheel diameter:	90 mm	90 mm	110 mm
Dimensions:	133x56x128 mm	300x130x56 mm	330x130x56 mm
Static strength:	15 kN	10 kN	20 kN
Breaking strength:	30 kN	50 kN	60 kN
Admissible weight load:	1000 kg	1000 kg	2000 kg



UTB - Universal Handle



Tripod leg mounting



PARAMETERS:

Mass:	2250 g
Material:	galvanised steel, rubber, plastic
	tt

DEVICE DESCRIPTION:

The universal holder (UTB) can be attached to all tripods offered. The following winches are compatible with the holder (UTB): RUP502 / RUP503 / RUP504 / RUP506.

THE HANDLE CAN BE USED WITH ALL PROTEKT TRIPODS
AND ALL AVAILABLE WINCHES.



THINNER PROFILE

TM 9 TRIPOD
TM 9-N TRIPOD
TM 12 TRIPOD



ROUND PROFILE

TM 15 TRIPOD



THICK PROFILE

TM 13 TRIPOD
TM 14 TRIPOD

APPLICATION:

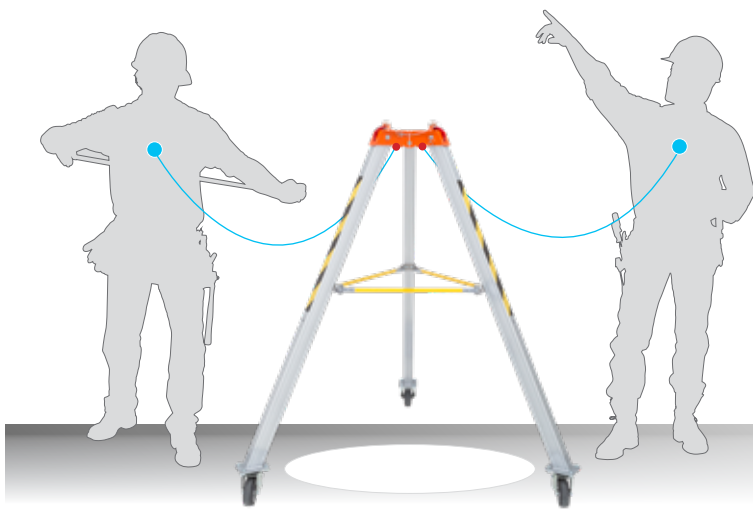


RUP 502 WITH UTB

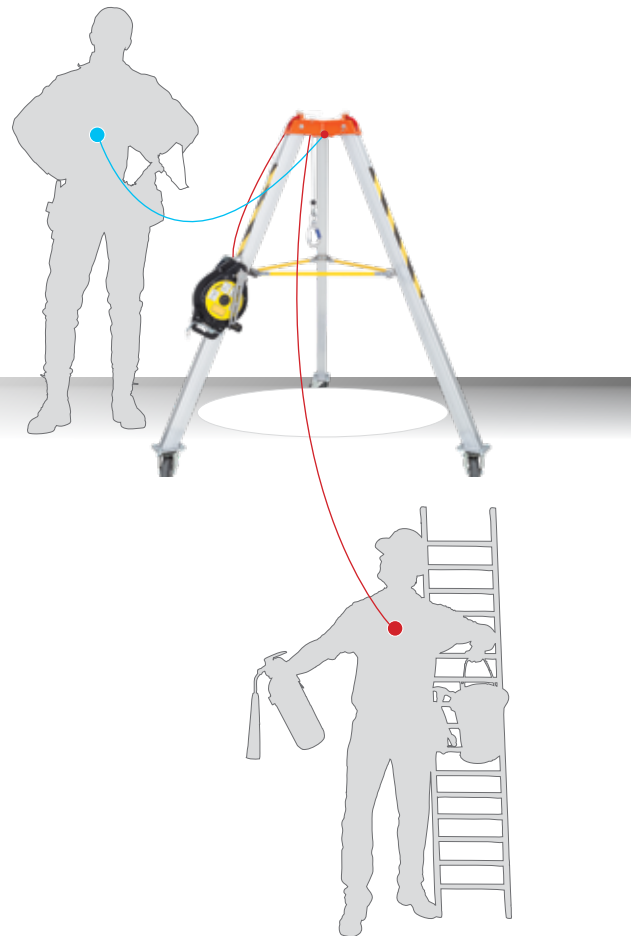


RUP 503 WITH UTB

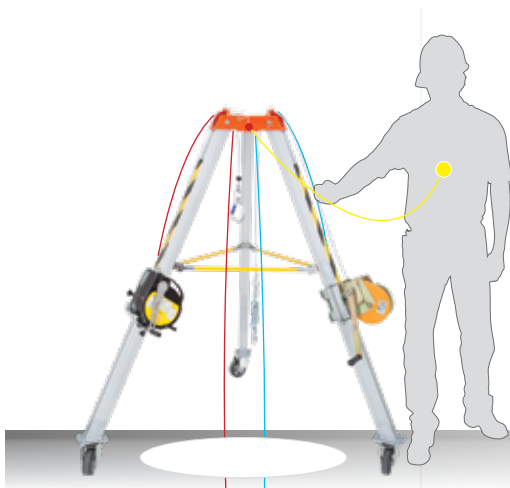
EXAMPLE USES OF TRIPOD SETS



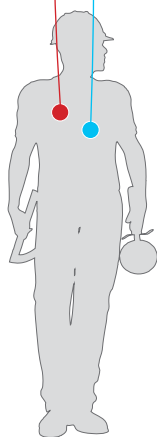
USE OF THE TRIPOD WITHOUT LIFTING DEVICES
AS A MOBILE ANCHOR POINT.



USE OF TRIPOD AND RETRACTABLE TYPE FALL
ARRESTER WITH RESCUE LIFTING DEVICE FUNCTION
TO SAFEGUARD A WORKER (WITH POSSIBILITY
OF INSTANT EVACUATION).



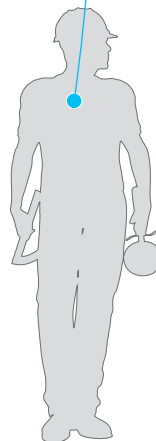
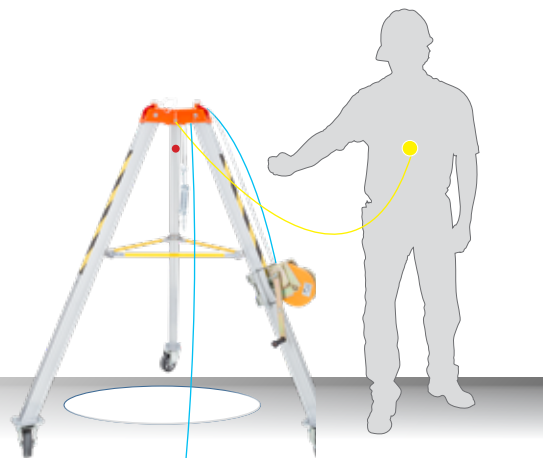
USE OF THE TRIPOD WITH LIFTING DEVICE AND RETRACTABLE TYPE FALL ARRESTER TO LIFT/LOWER A WORKER.



no limitations

no limitations

USE OF TRIPOD WITH LIFTING DEVICE TO LIFT/LOWER A WORKER.








no limitations

max. 2 m






REVIEW OF TRIPODS AND WINCHES

		TM 1	TM 6	TM 6 - T	TM 7	TM 7 - T	TM 9	TM 9 - L	TM 9 - T	TM 9 - W	TM 11 - T2	TM 12	TM 12 - 2	TM 13	TM 13 - T	TM 14 - SB TM 14 - ZSE	ACCESORRIES	WINCH TYPE
RUP 502	RUP 502																PL 101 + SDW	rescue 140 kg
	RUP 502-A																SDW	rescue 140 kg
	RUP 502-AT																-	material 500 kg
	RUP 502-B																PL 101 + SDW	rescue 140 kg
	RUP 502-BT																PL 101	material 500 kg
	RUP 502-T																PL 101	material 500 kg
RUP 503	RUP 503																SDW	rescue 200 kg
	RUP 503-B																PL 101 + SDW	rescue 200 kg
	RUP 503-BT																PL 101	material 1000 kg
	RUP 503-T																-	material 1000 kg
RUP 505	RUP 505																PL 101 + SDW	rescue 150 kg
	RUP 505-A																SDW	rescue 240 kg
CRW 200	CRW 200 + AT173																PL 101	rescue 140 kg
	CRW 200 + AT174																-	rescue 140 kg
	CRW 200 + AZ017																-	rescue 140 kg
CRW 300	CRW 300 + AT171																-	rescue 140 kg
	CRW 300 + AT172																-	rescue 140 kg
	CRW 300 + AZ017																-	rescue 140 kg
MAX NUMBER OF USERS		2	2	-	1	-	1	1	-	1	-	2	2	2	-	2		
MAX LOAD WEIGHT		-	-	1000 kg	-	1000 kg	-	-	500 kg	-	1000 kg	1000 kg	1000 kg	-	1000 kg	-		

TRIPODS

				
Personal 1 person	Personal 2 or 3 persons	Material max 500 kg	Material max 1000 kg	Personal and material max. 1000 kg or 2-3 persons
TM 7	TM 1	TM 9-T	TM 6-T	TM 12
TM 9	TM 6		TM 7-T	TM 12-2
TM 9-L	TM 13		TM 13-T	TM 15
TM 9-W	TM 14 (SB and ZSE)		TM 11-T2	
	TM 9 - N			

LIFTING DEVICES

				
Rescue up to 140 kg	Rescue up to 200 kg	Material max. 500 kg	Material max. 1000 kg	Fall arrester max. 140 kg
RUP 502	RUP 503	RUP 502-T	RUP 503-T	CRW 200
RUP 502-A	RUP 503-B	RUP 502-AT	RUP 503-BT	CRW 300
RUP 502-B	RUP 505-A (up to 240 KG)	RUP 502-BT		
RUP 505 (up to 150 KG)				

ACCESSORIES

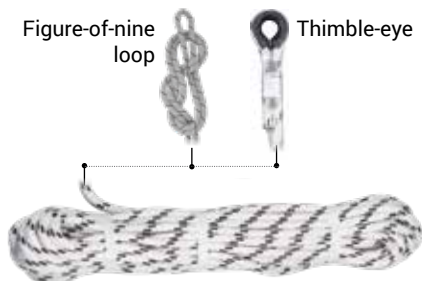
Rope guide AT015-400	Pulley PL 101	Pulley PL 415	Pulley PL 416	Spring absorber	Leg strap for transport AT011-500
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Rope for lifting device
RUP 505 and RUP 505-A

Figure-of-nine
loop

Thimble-eye



2 types of work rope terminations are recommended, using figure-of-nine loop to be used with tripods TM 9 and TM 9-W, and thimble-eye with tripods TM 9, TM 9-W and TM 13.



AT011-500
For tripods:

TM 7, TM 7-T,
TM 9, TM 9-T,
TM 9-L, TM 9-W

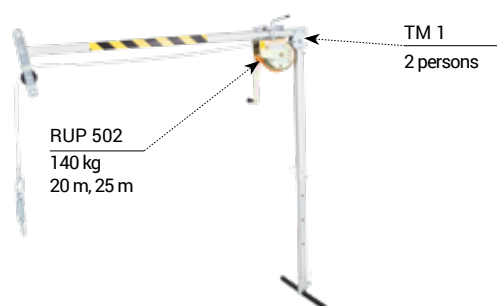
AT015-500
For tripods:

TM 11-T2,
TM 13,
TM 13-T

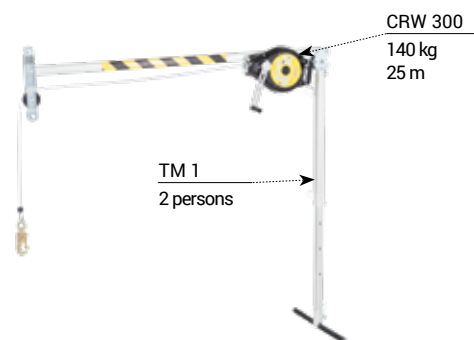


REVIEW OF TRIPODS AND WINCHES

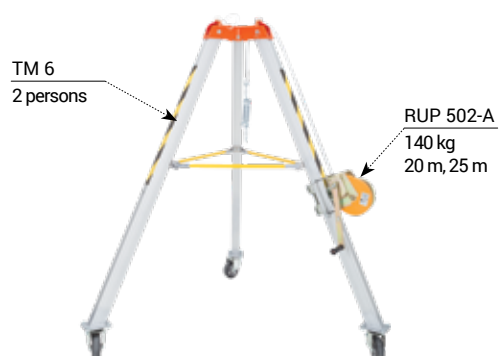
TM 1 + RUP 502



TM 1 + CRW 300



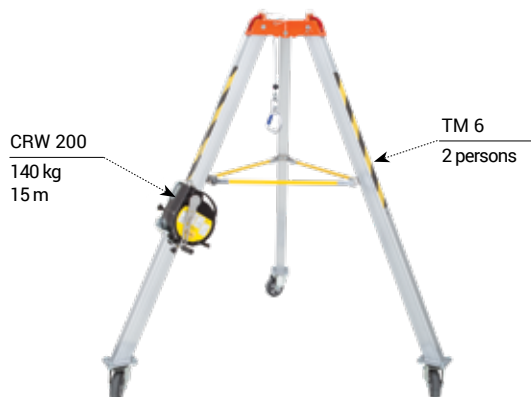
TM 6 + RUP 502-A



TM 6 + RUP 503



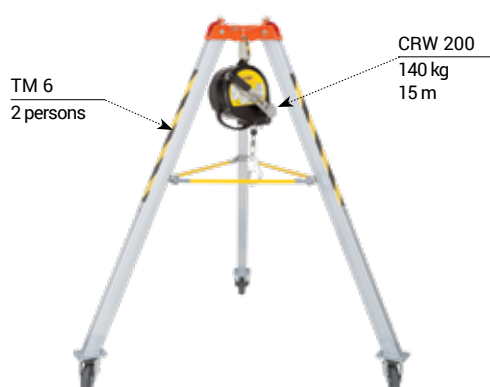
TM 6 + CRW 200 + AT174



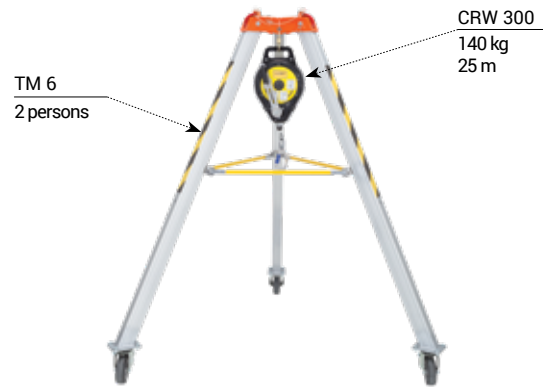
TM 6 + CRW 300 + AT172



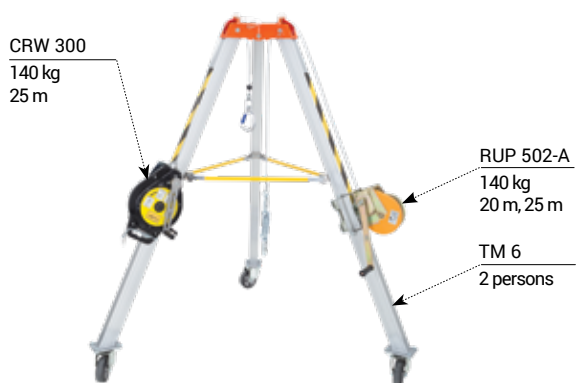
TM 6 + CRW 200 + AZ017



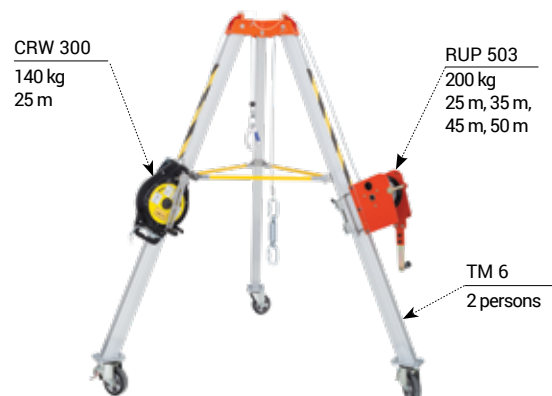
TM 6 + CRW 300 + AZ017



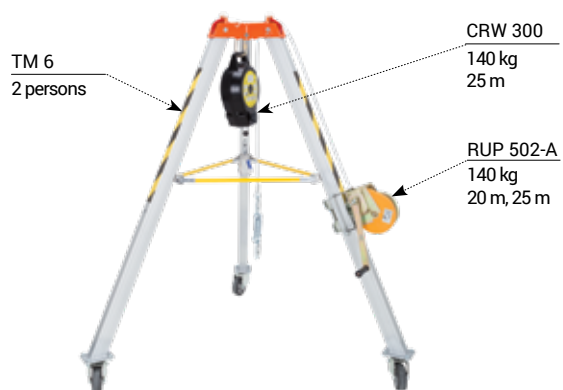
TM 6 + RUP 502-A + CRW 300 + AT172



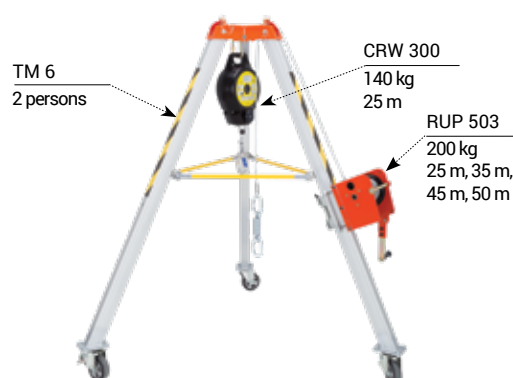
TM 6 + RUP 503 + CRW 300 + AT172



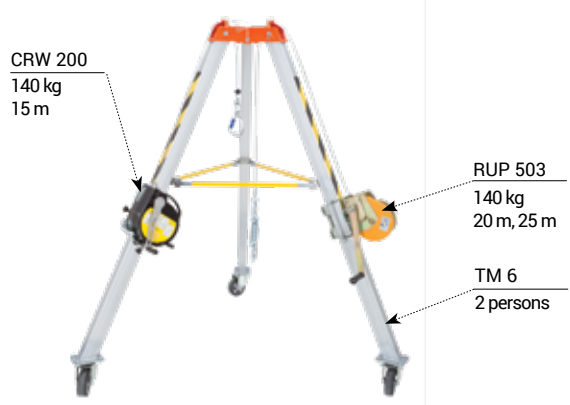
TM 6 + RUP502-A + CRW 300 + AZ017



TM 6 + RUP 503 + CRW 300 + AZ017



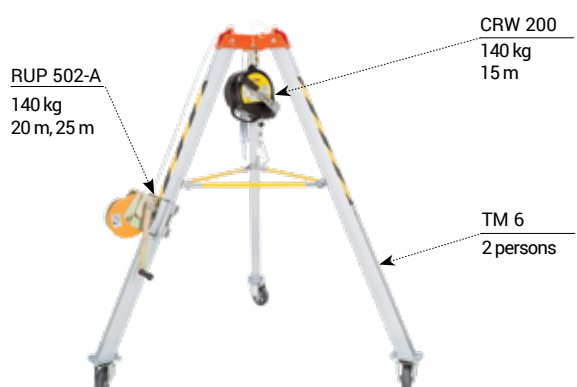
TM 6 + RUP 502-A + CRW 200 + AT174



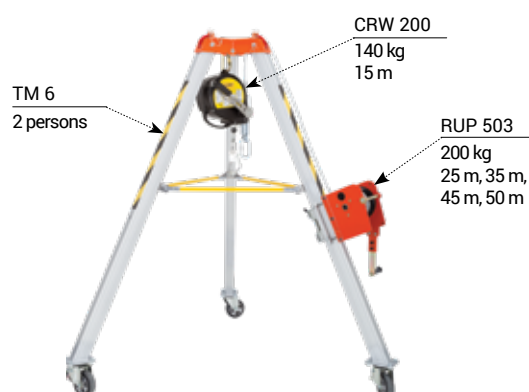
TM 6 + RUP 503 + CRW 200 + AT174



TM 6 + RUP 502-A + CRW 200 + AZ017



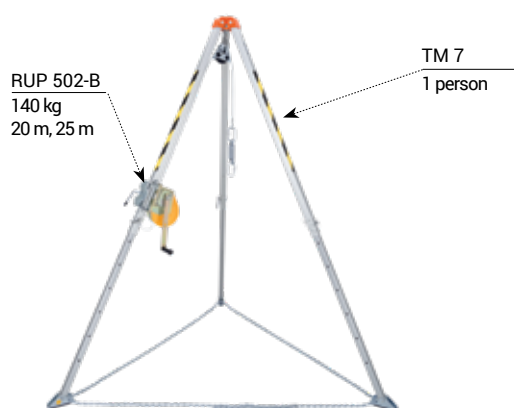
TM 6 + RUP 503 + CRW 200 + AZ017



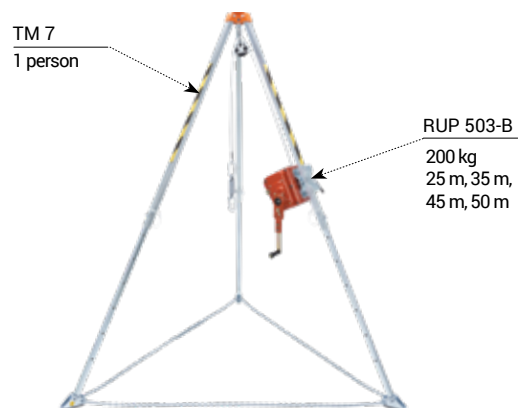


REVIEW OF TRIPODS AND WINCHES

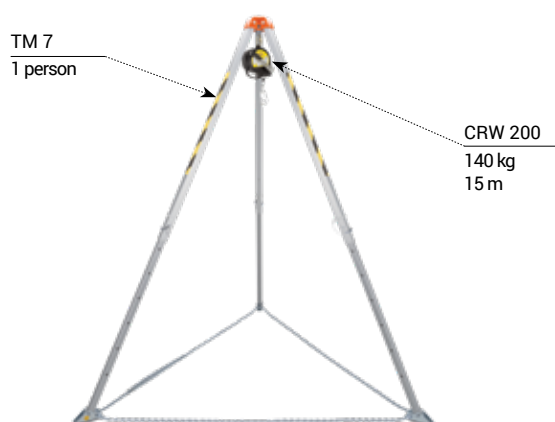
TM 7 + RUP 502-B



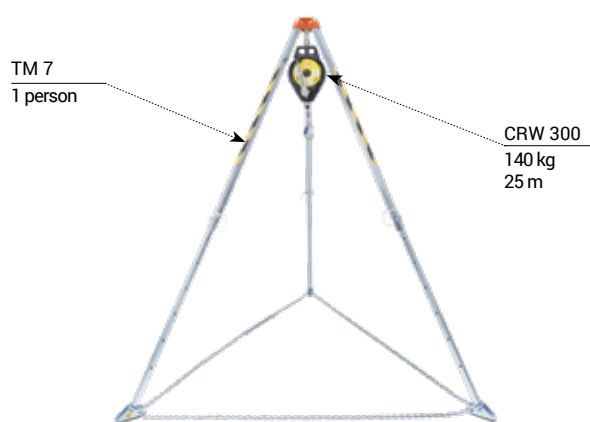
TM 7 + RUP 503-B



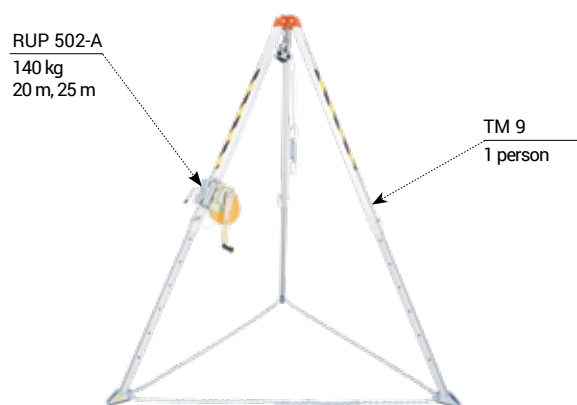
TM 7 + CRW 200 + AZ017



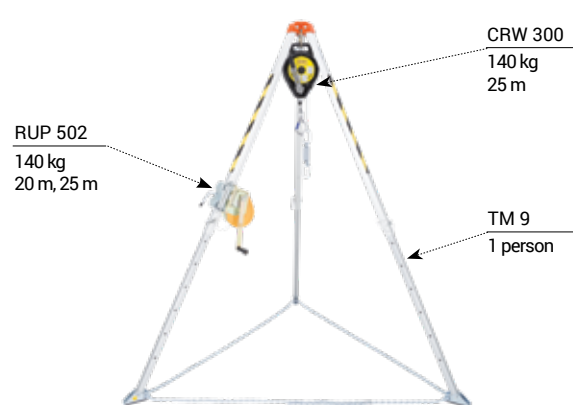
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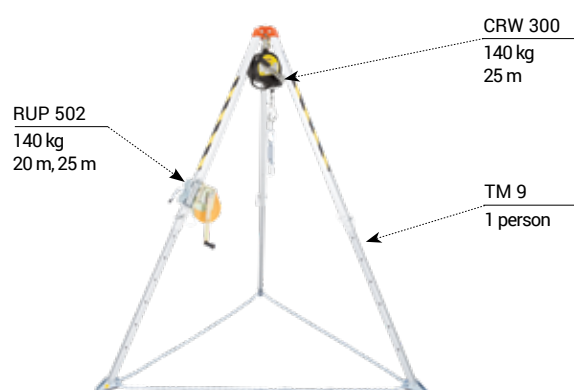
TM 9 + RUP 502



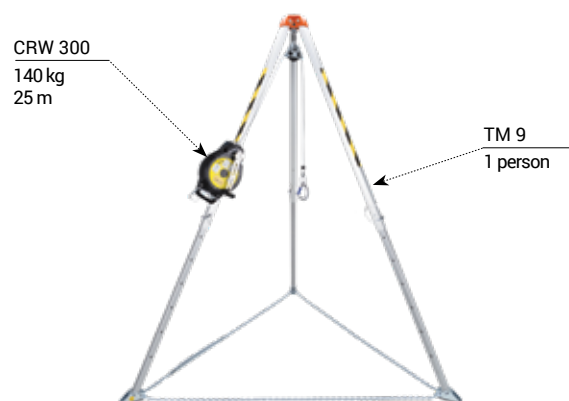
TM 9 + RUP 502 + CRW 300 + AZ017



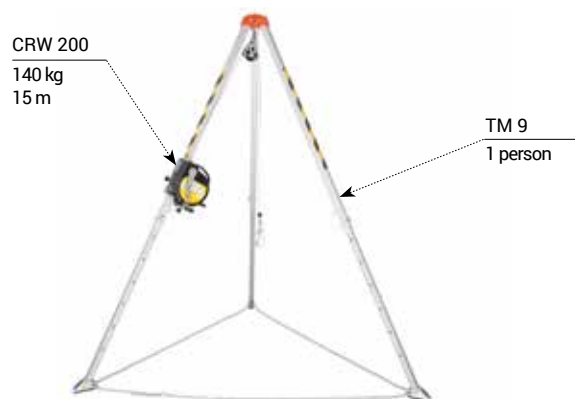
TM 9 + RUP 502 + CRW 200 + AZ017



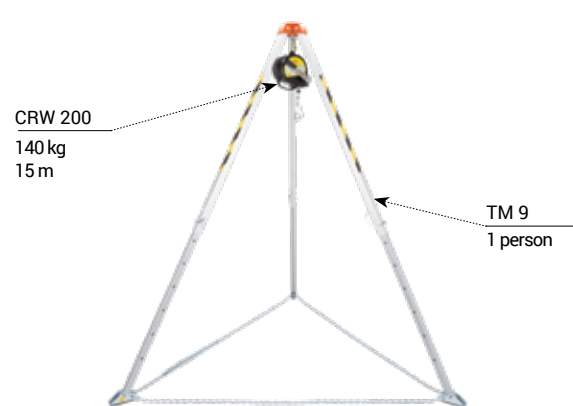
TM 9 + CRW 300 + AT171



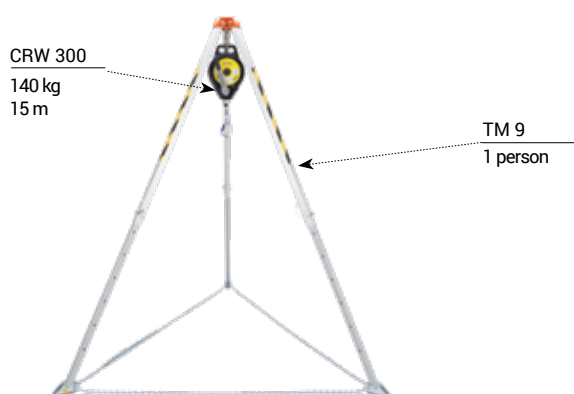
TM 9 + CRW 200 + AT173



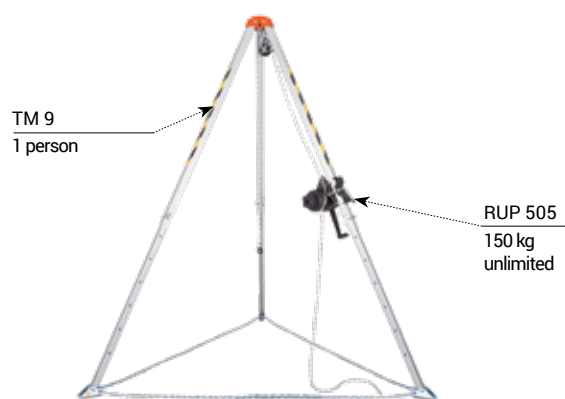
TM 9 + CRW 200 + AZ017



TM 9 + CRW 300 + AZ017



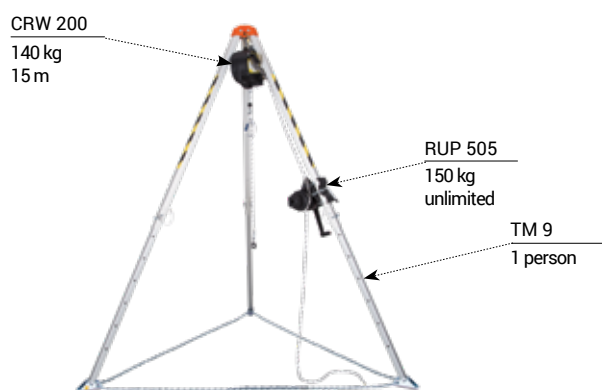
TM 9 + RUP 505



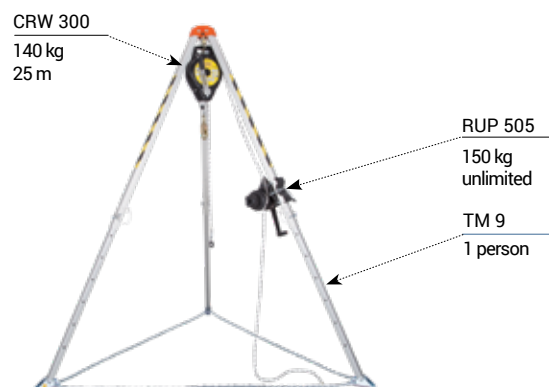


REVIEW OF TRIPODS AND WINCHES

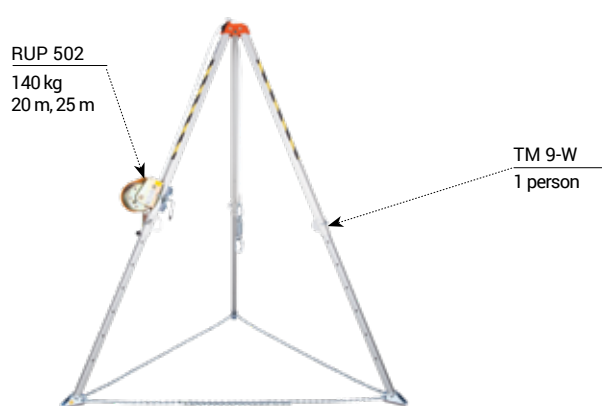
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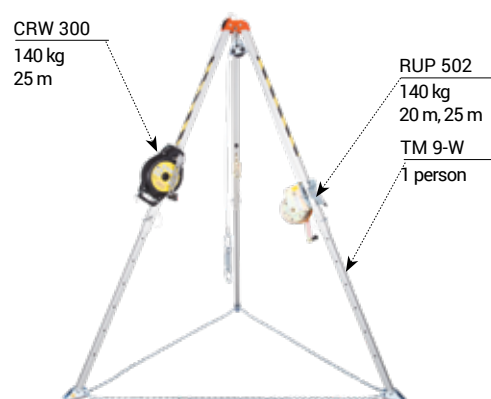
TM9 + RUP 505 + CRW 300 + AZ017



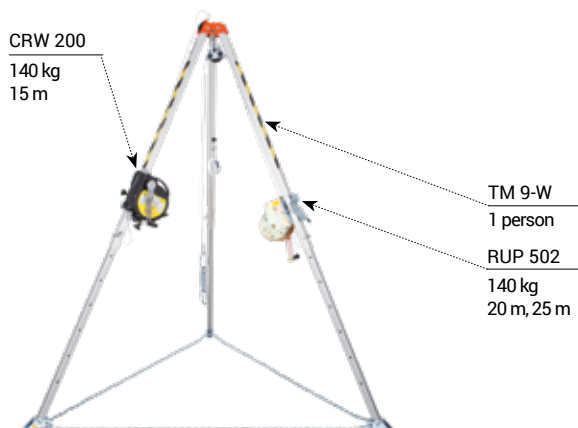
TM 9-W + RUP 502



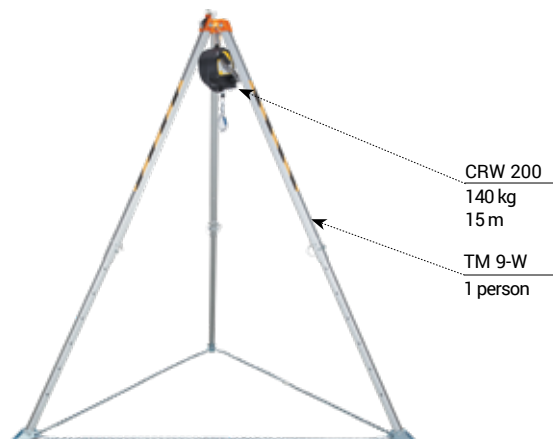
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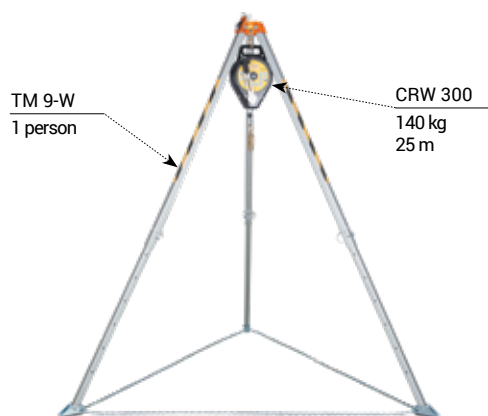
TM 9-W + RUP 502 + CRW 200 + AT173



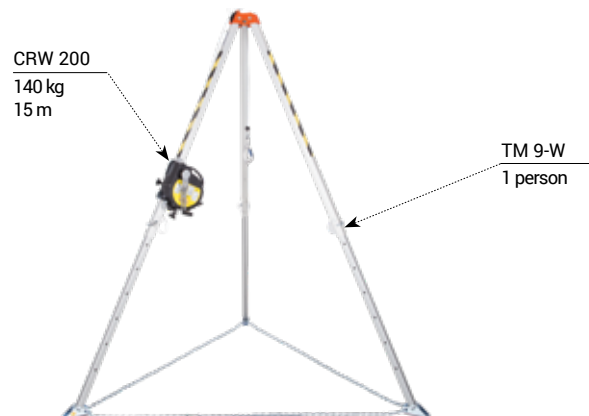
TM 9-W + CRW 200 + AZ017



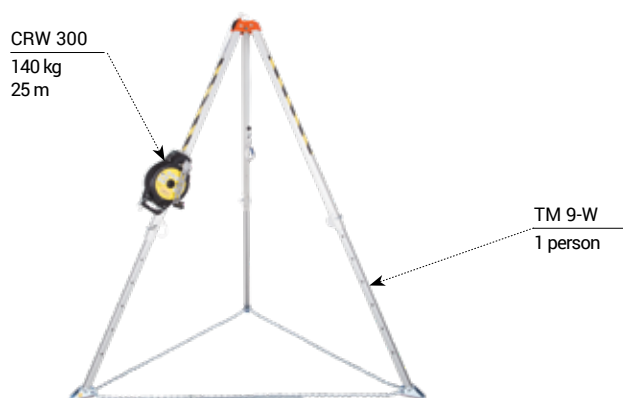
TM 9-W + CRW 300 + AZ017



TM 9-W + CRW 200 + AT173



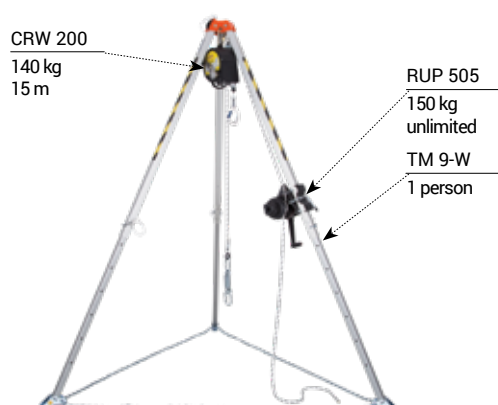
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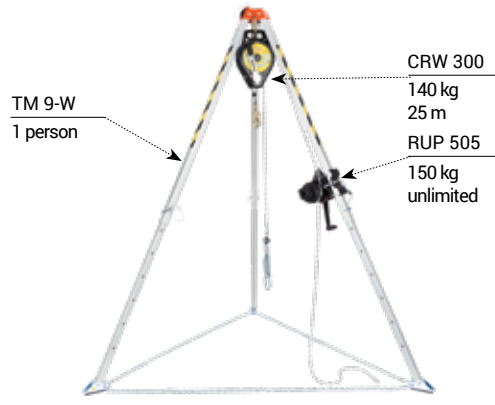
TM 9-W + RUP 505



TM 9-W + RUP 505 + CRW 200



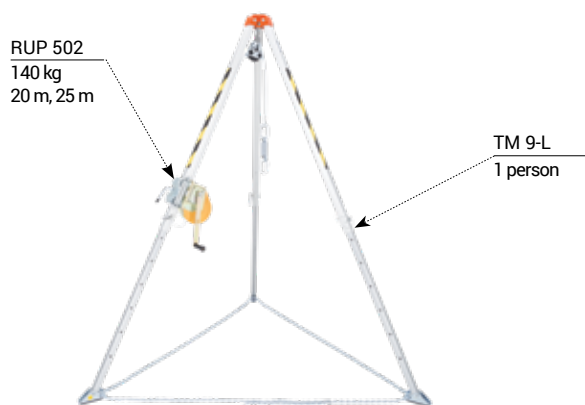
TM 9-W + RUP 505 + CRW 300



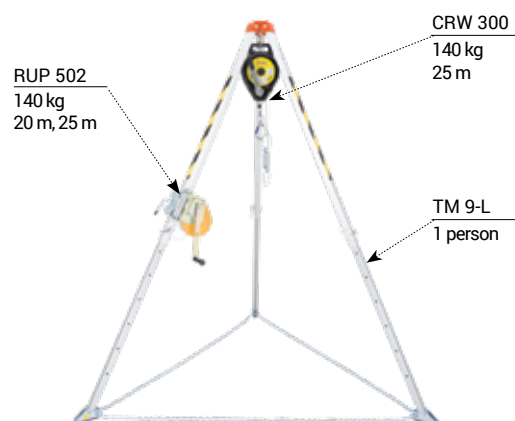


REVIEW OF TRIPODS AND WINCHES

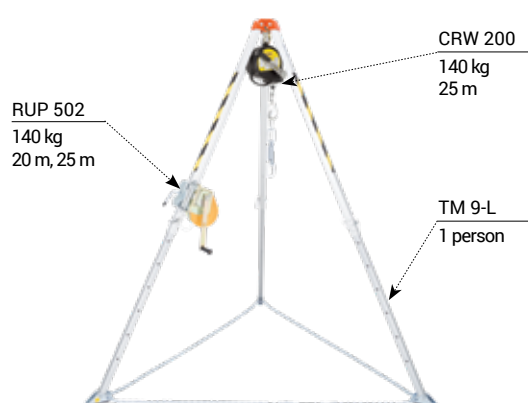
TM 9-L + RUP 502



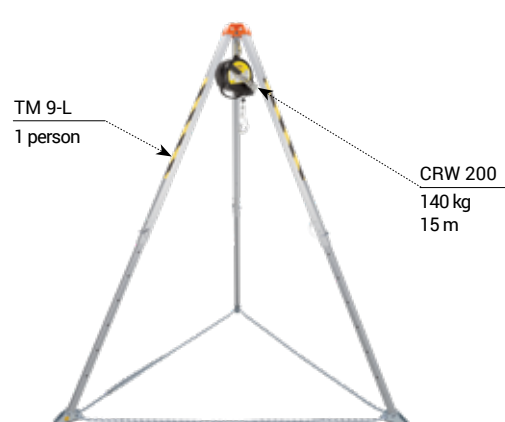
TM 9-L + RUP 502 + CRW 300 + AZ017



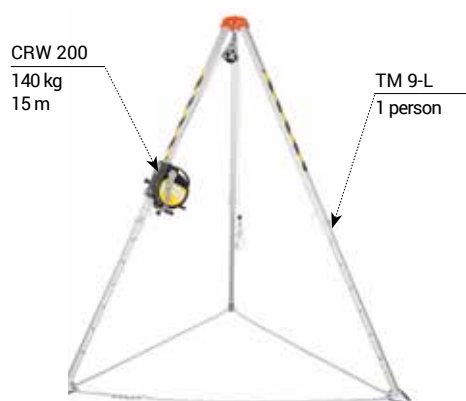
TM 9-L + RUP 502 + CRW 200 + AZ017



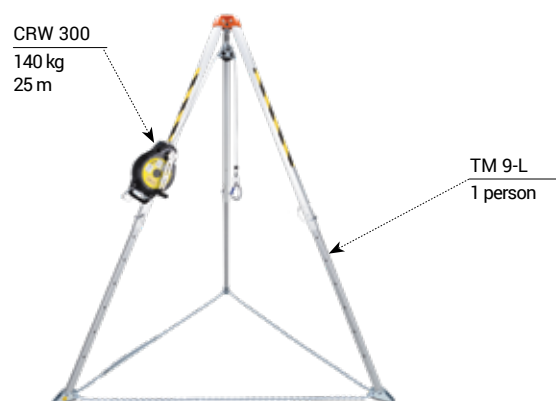
TM 9-L + CRW 200 + AZ017



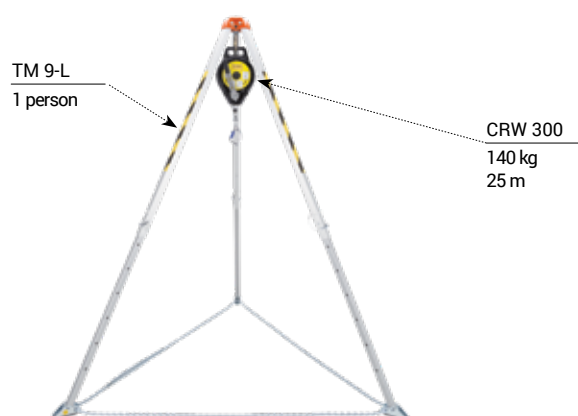
TM 9-L + CRW 200 + AT173



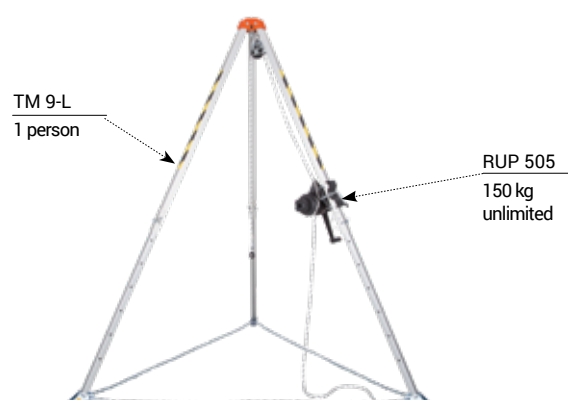
TM 9-L + CRW 300 + AT171



TM 9-L + CRW 300 + AZ017



TM 9-L + RUP 505



TM 12 + RUP 502-A



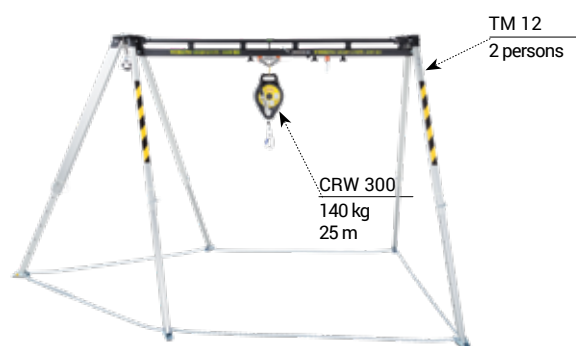
TM 12 + RUP 503



TM 12 + CRW 200 + AZ017



TM 12 + CRW 300 + AZ017



TM 12 + CRW 300 + AT172



TM 12 + CRW 200 + AT174



TM 12 + RUP 502-A + CRW 200 + AZ017



TM 12 + RUP 502-A + CRW 300 + AZ017



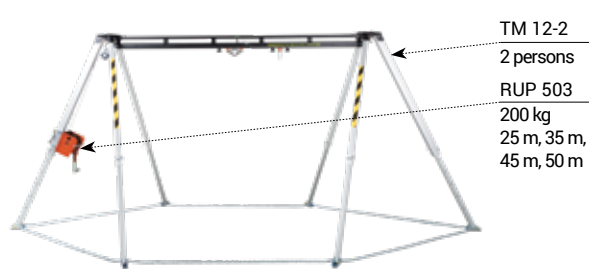


REVIEW OF TRIPODS AND WINCHES

TM 12-2 + RUP 502-A



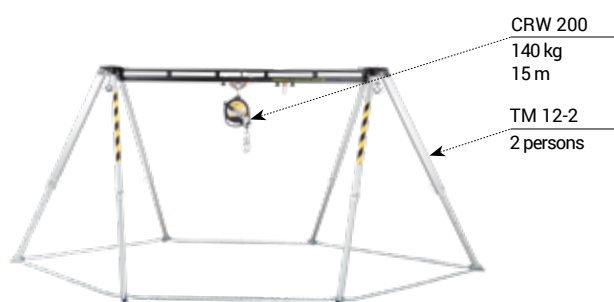
TM 12-2 + RUP 503



TM 12-2 + CRW 200 + AT174



TM 12-2 + CRW 200 + AZ017



TM 12-2 + CRW 300 + AT172



TM 12-2 + CRW 300 + AZ017



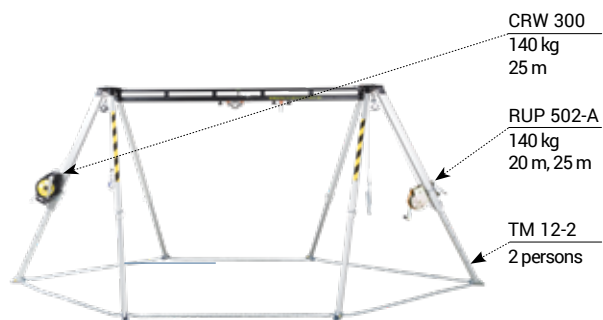
TM 12-2 + RUP 502-A + CRW 300 + AZ017



TM 12-2 + RUP 502-A + CRW 200 + AZ017



TM 12-2 + RUP 502-A + AT172 + CRW 300



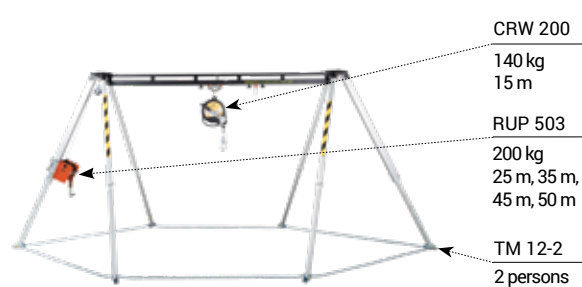
TM 12-2 + RUP 503 + CRW 300 + AZ017



TM 12-2 + RUP 503 + CRW 300 + AT172



TM 12-2 + RUP 503 + CRW 200 + AZ017



TM 12-2 + RUP 503 + CRW 200 + AT174



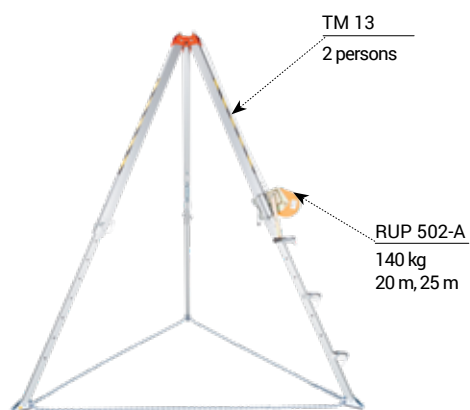
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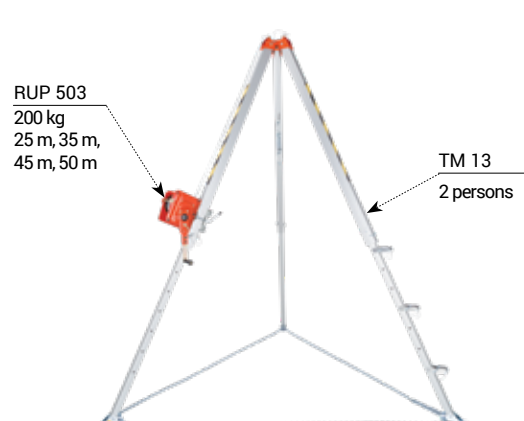


REVIEW OF TRIPODS AND WINCHES

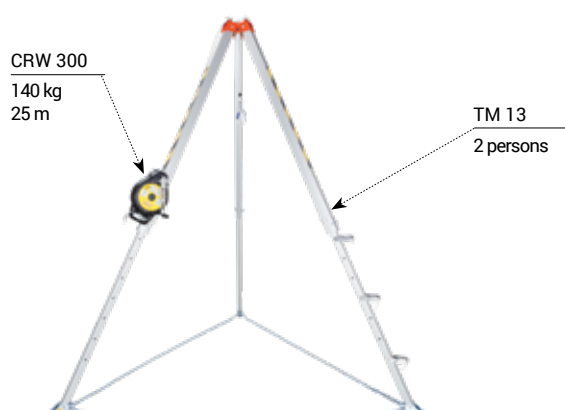
TM 13 + RUP 502-A



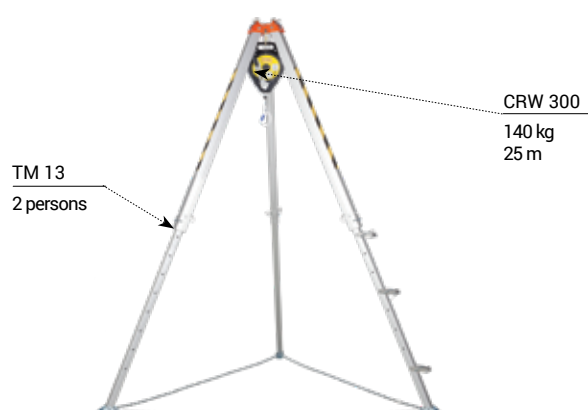
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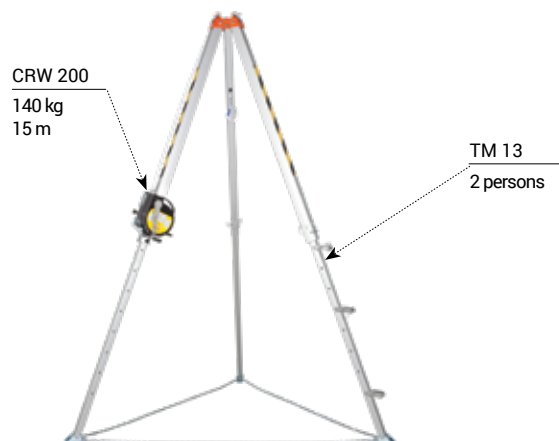
TM 13 + CRW 300 + AT172



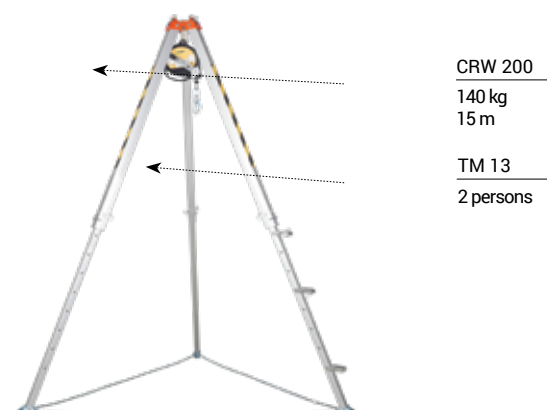
TM 13 + CRW 300 + AZ017



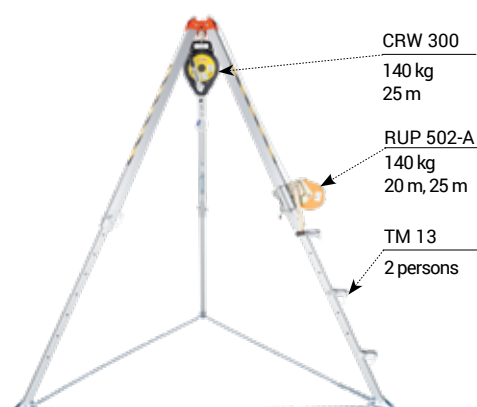
TM 13 + CRW 200 + AT174



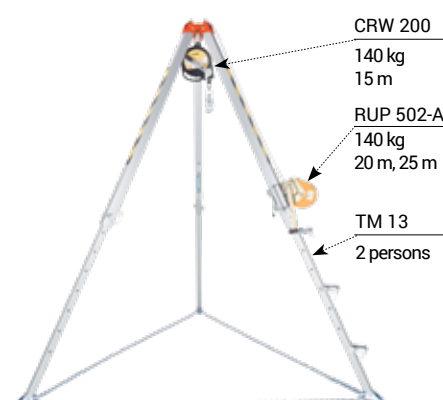
TM 13 + CRW 200 + AZ017



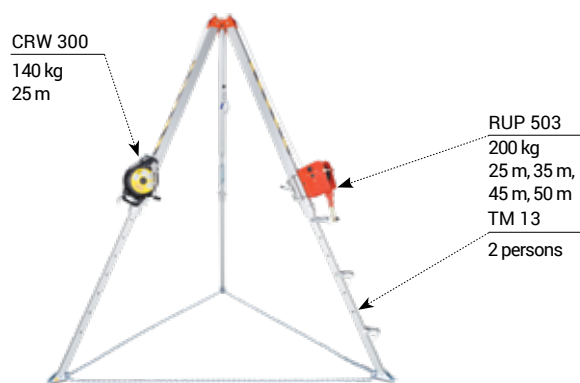
TM 13 + RUP 502-A + CRW 300 + AZ017



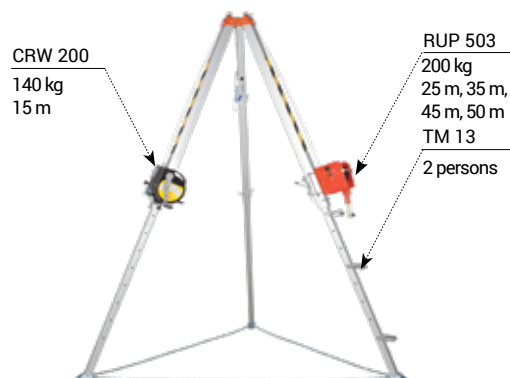
TM 13 + RUP 502-A + CRW 200 + AZ017



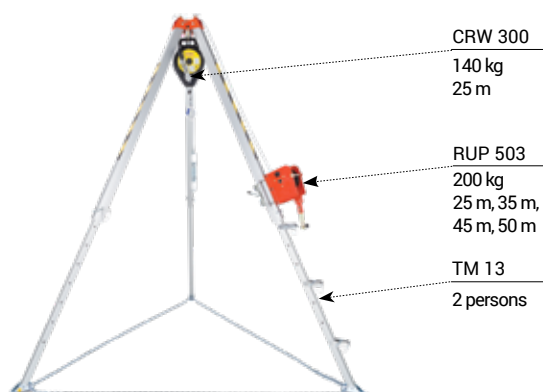
TM 13 + RUP 503 + CRW 300 + AT172



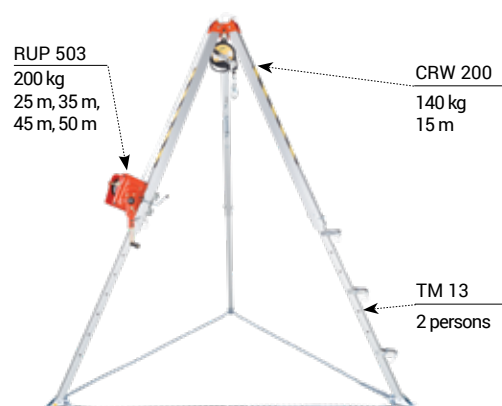
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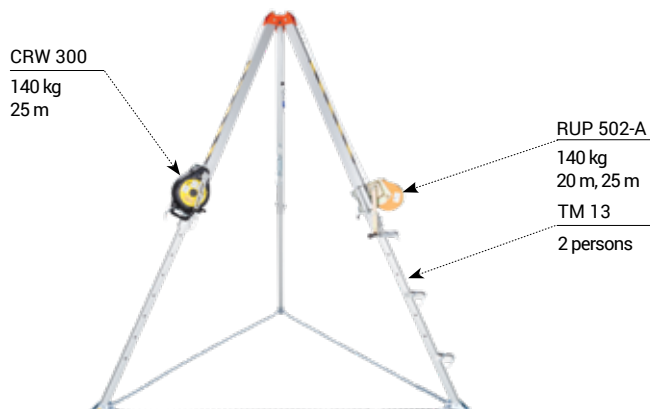
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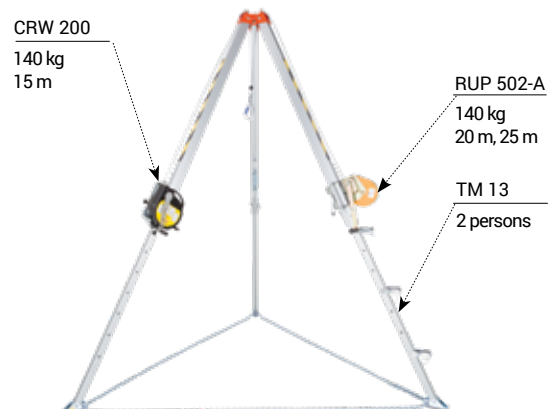
TM 13 + RUP 503 + CRW 200 + AZ017



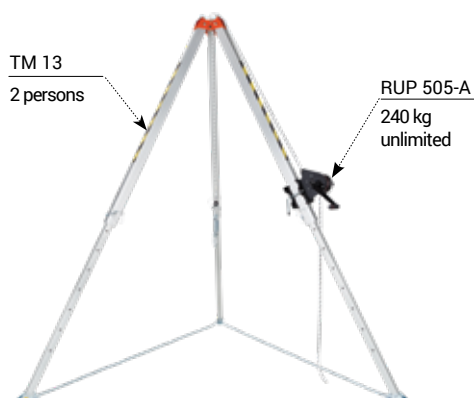
TM 13 + RUP 502-A + CRW 300 + AT172



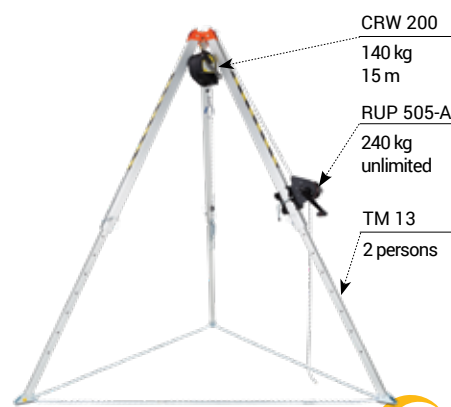
TM 13 + RUP 502-A + CRW 200 + AT174



TM 13 + RUP 505-A



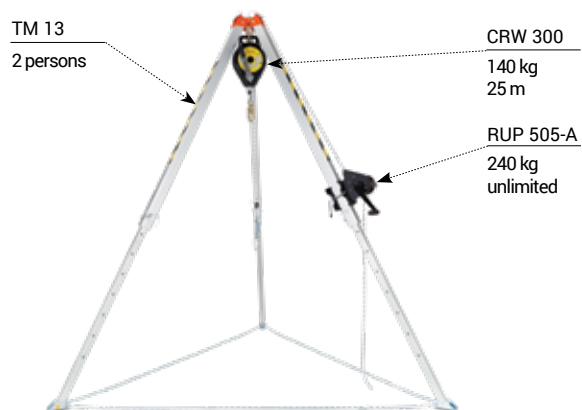
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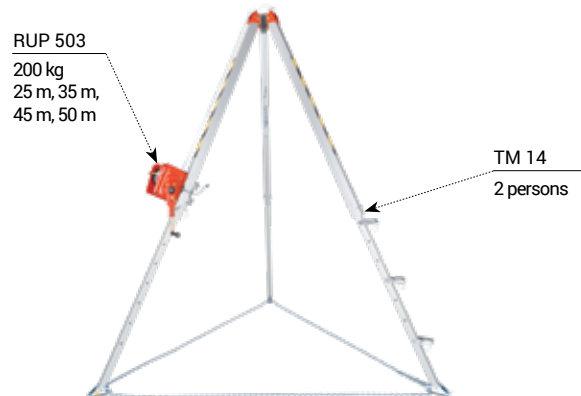


REVIEW OF TRIPODS AND WINCHES

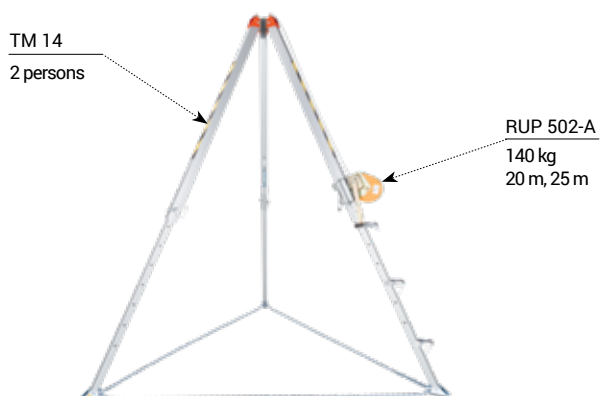
TM 13 + RUP 505-A + CRW300 + AZ017



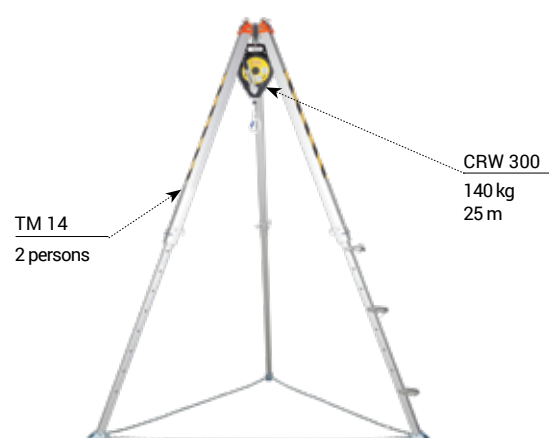
TM 14 + RUP 503



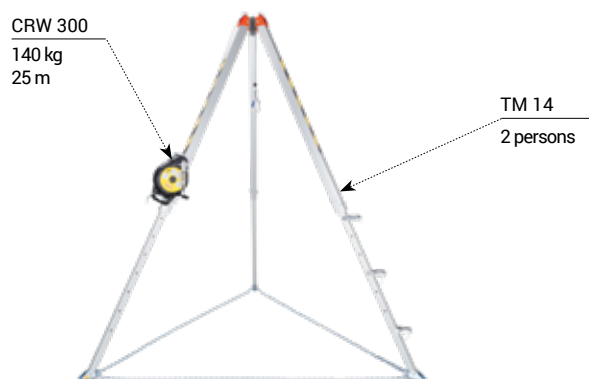
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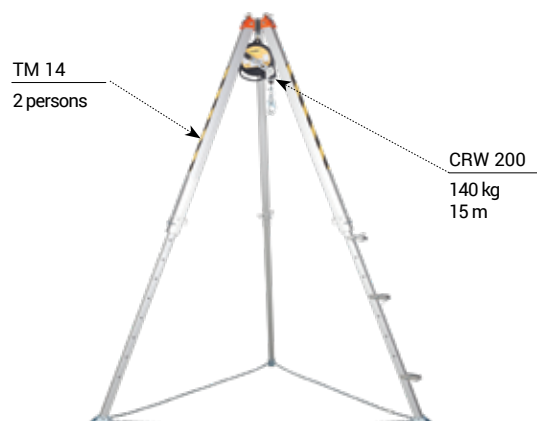
TM 14 + CRW 300 + AZ017



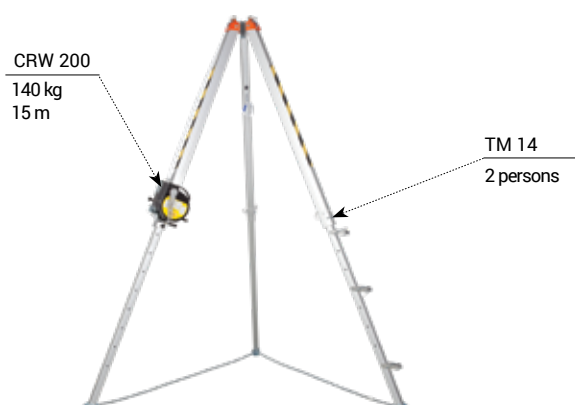
TM 14 + CRW 300 + AT172



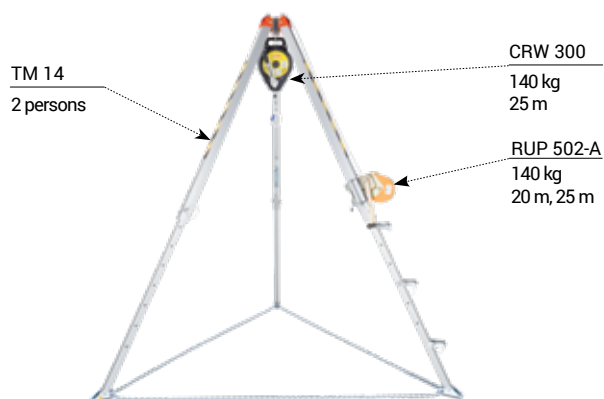
TM 14 + CRW 200 + AZ017



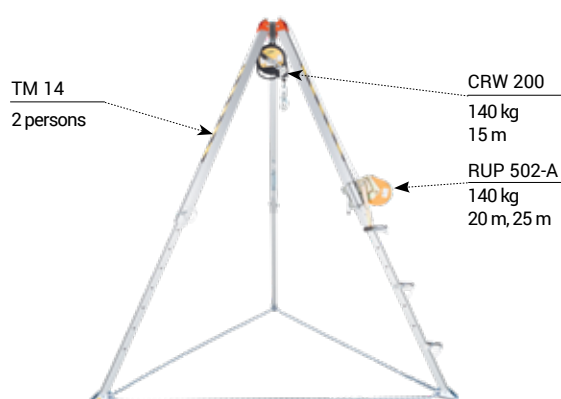
TM 14 + CRW 200 + AT174



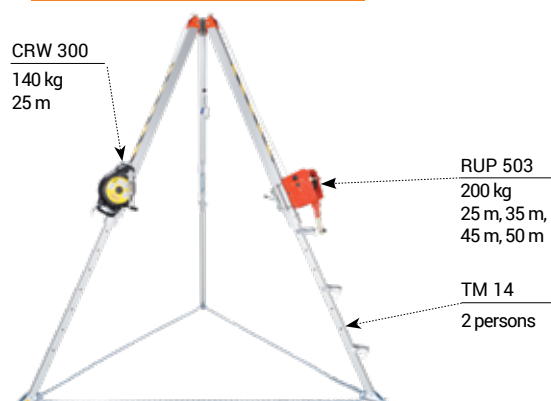
TM 14 + RUP 502-A + CRW 300 + AZ017



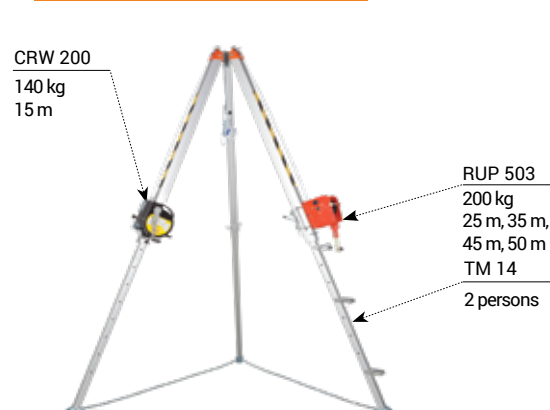
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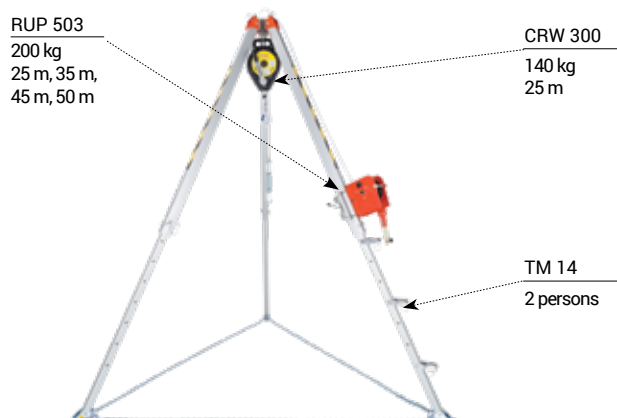
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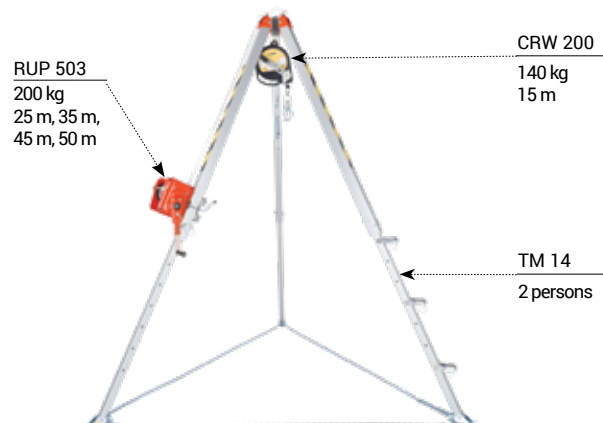
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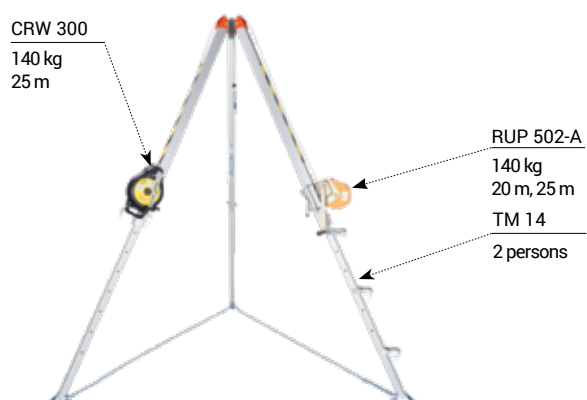
TM 14 + RUP 503 + CRW 300 + AZ017



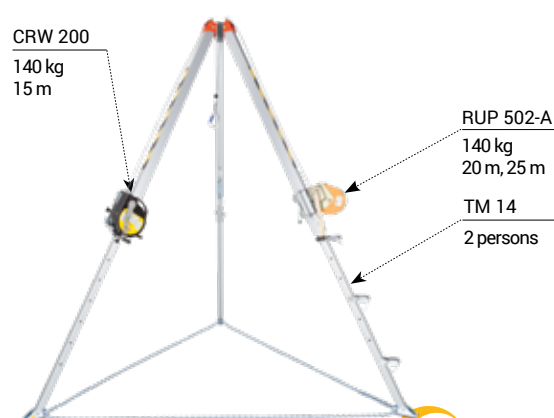
TM 14 + RUP 503 + CRW 200 + AZ017



TM 14 + RUP 502-A + CRW 300 + AT172



TM 14 + RUP 502-A + CRW 200 + AT174





REVIEW OF TRIPODS AND WINCHES

TM 12 + RUP 502-AT + CRW 300 + AZ017



TM 12 + RUP 503-T + CRW 300 + AZ017



TM 12 + CRW 300 + AT172



TM 12 + CRW 300 + AZ017



TM 12-2 + RUP 502-AT + CRW 300 + AT172



TM 12-2 + RUP 503-T + CRW 200 + AT174



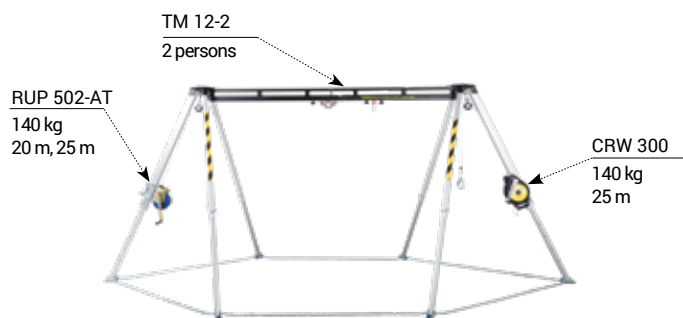
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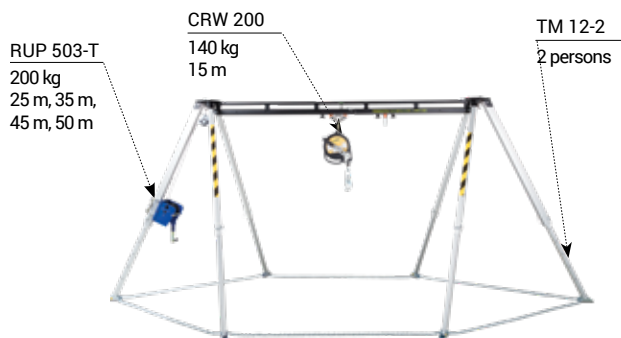
TM 12-2 + RUP 503-T + CRW 200 + AZ017



TM 12-2 + RUP 502-AT + CRW 300 + AT172



TM 12-2 + RUP 503-T + CRW 200 + AZ017



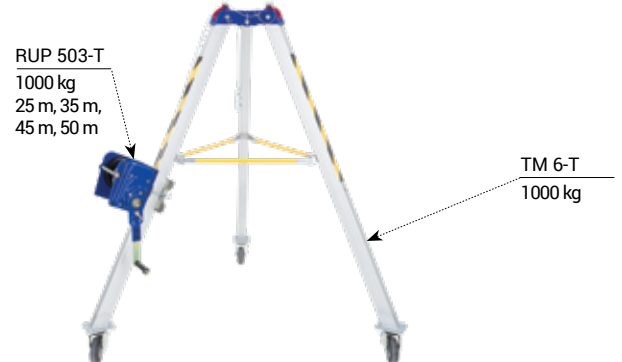


REVIEW OF TRIPODS AND WINCHES

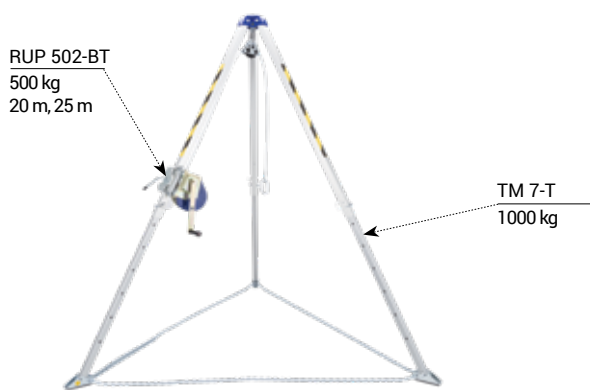
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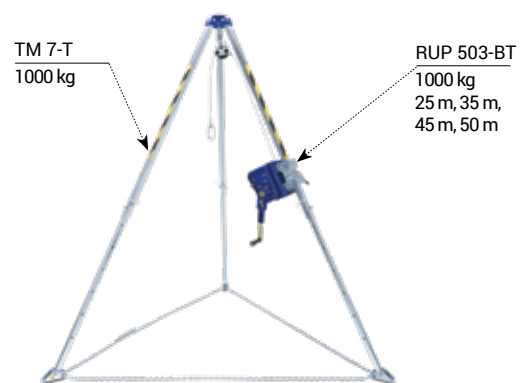
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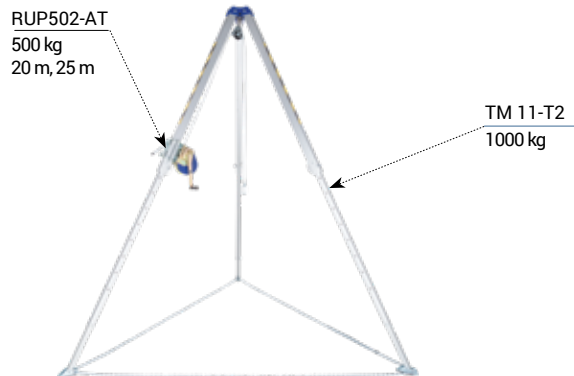
TM 7-T + RUP 502-BT



TM 7-T + RUP 503-BT



TM 11-T2 + RUP 502-AT



TM 12 + RUP 502-AT



TM 12 + RUP 503-T



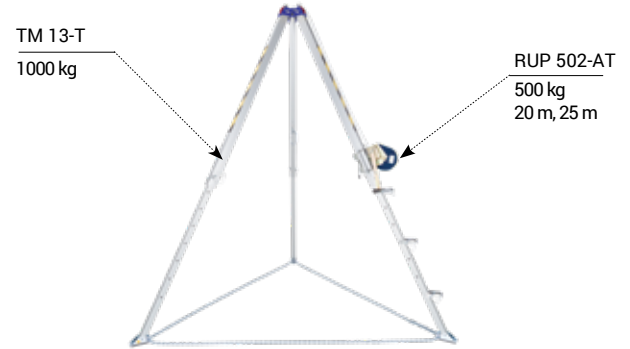
TM 12-2 + RUP 502-AT



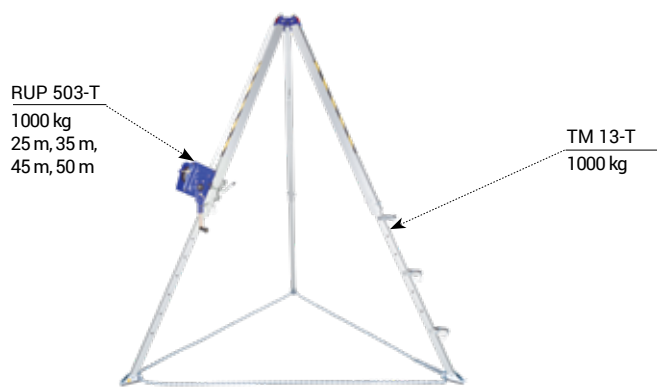
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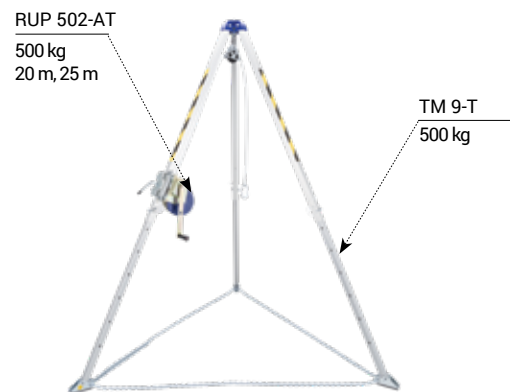
TM 13-T + RUP 502-AT



TM 13-T + RUP 503-T



TM 9-T + RUP 502-AT



**COMMERCIAL, TECHNICAL
AND ADMINISTRATIVE OFFICES**

Corso Roma, 40 • 12038 Savigliano (CN) • Italy

SALES DIRECTION

Dott. Lorenzo BOSIO

commerciale@sinecuraengineering.it

Cel: +39.333.7428737

Tel: +39.0172.750103

Fax: +39.0172.750387

TECHNICAL & ENGINEERING DIRECTION:

executive planning, structural calculations
and checks, testing and revision
of anti fall systems.

Dott. Ing. Gabriele AIMAR

Dott. Ing. Andrea ALBERTO

ingegneria@sinecuraengineering.it

tecnico@sinecuraengineering.it

Tel: +39.0172.750103

Fax: +39.0172.750387

ADMINISTRATIVE MANAGEMENT:

amministrazione@sinecuraengineering.it

Tel: +39.0172.750103

Fax: +39.0172.750387

www.sinecuraengineering.it

info@sinecuraengineering.it

