



ELECTRIC RESCUE DAVIT ARM AVAHO

TECHNICAL DATA

Electric descent equipment for people **AVAHO**.

Destinated to descent, ascent and rescue maneuvers at wells, sewers, blast furnaces, storage reservoirs...

The equipment can be dismantled and mounted in different places on the ground with his fixed bases.

Just fix a base over each work place for an easy and quick set-up.

The equipment includes a powered electric hoist with a load capacity of 280 kg for lifting and descending people easily and safely.

A wireless commander controls the system from the work seat. In case of a rescue situation there are a secondary control post placed at the davit's arm.

A secondary safety system can rescue manually the operator by using a handle ubicated at the davit's arm. In order to guarantee the safety against fall of the operator, the system includes a retractable fall arrest device according to EN 795B norm.



RESCUE DAVIT ARM AVAHO



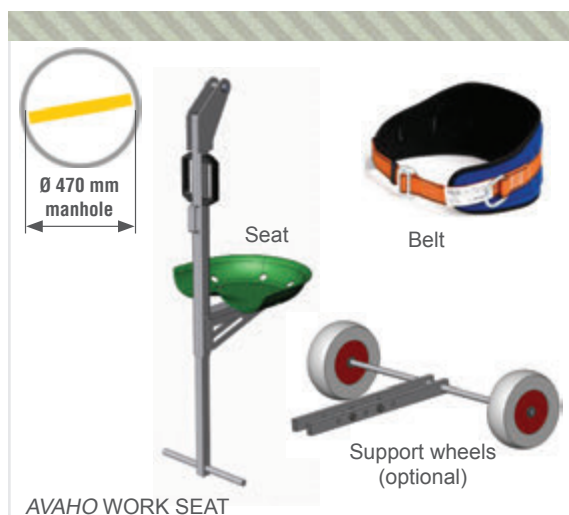
RESCUE DAVIT ARM AVAHO

TECHNICAL FEATURES

Load capacity of the davit arm	280 kg
Maximum work height	30 or 50 m
Load capacity of the work seat	120 kg
Number of people	1
Maximum lifting capacity	280 kg
Lifting speed	8 m/min
Electric power	Three-phase 400 V - 50 Hz
Number of anchorage points for people according to EN 795B	3
Manual rescue	Yes
Double control post	Yes
Davit arm with pivoted system and block	Yes
Wireless control commander	Yes
Wheels for transport	Yes
Electric hoist with manual emergency descent	Yes
Retractable fall arrest device with manual emergency ascent	Yes
Retractable fall arrest device with manual emergency descent	Yes
Detachable	Yes
Support wheels	Optional



ELECTRIC RESCUE DAVIT ARM AVAHO



Rescue systems:

- With the electric hoist with electric power.
- With the electric hoist manually with handle.
- With the retractable fall arrest device with manual lifting.

Safety devices:

- Electric hoist: in case of non electric power or overload.
- Electric cabinet: emergency button.
- Retractable fall arrest device.
- Sensor for the limit of the wire rope.
- Rescue handle's sensor.

Certifications:

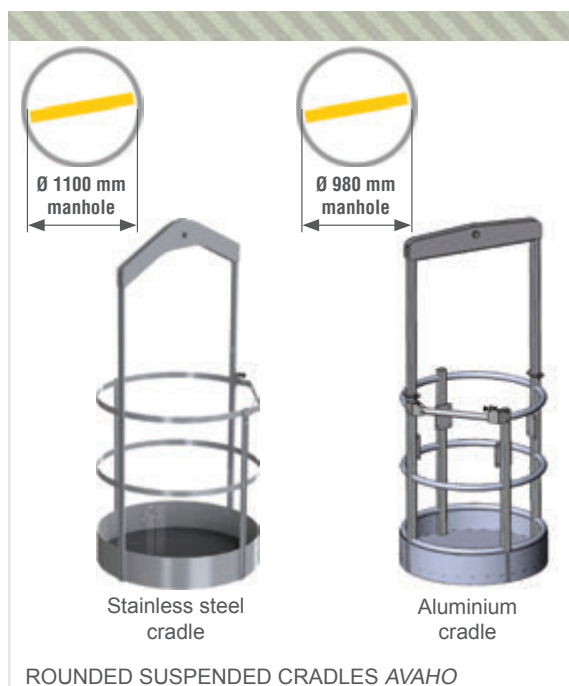
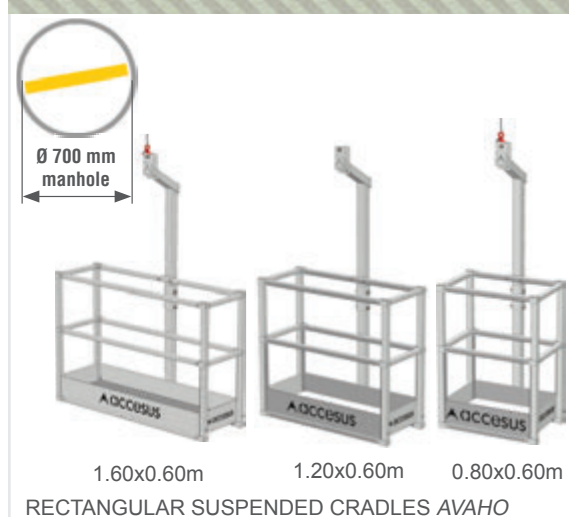
- EN 795B Retractable fall arrest device with EN 1496 Rescue device.
- Electric hoist according to EN 1808 norm.
- Fall arrest device according to EN 1808 norm.
- Anchorage points for people according to EN 795B norm.
- CE marking.
- Machine's Directive approved 2006/42/CE.

Suspended work seats & cradles available:

- **Suspended work seat** with belt & detachable support wheels (optional). Unassembled passes into Ø 470 mm manholes (max dimension 415 mm).

- **Rectangular suspended cradle detachable.** Available in **0.80, 1.20 or 1.60 m** length. Unassembled passes into Ø 700 mm manholes (max dimension 640 mm).

- **Rounded suspended cradle.** Available in **stainless steel** Ø1.04 m (chemical plants...) or made of **aluminium** Ø0.92 m (lightweight). Unassembled passes into Ø 1.100 mm manholes (max dimension 1.040 mm) or Ø 980 mm manholes (max dimension 920 mm).

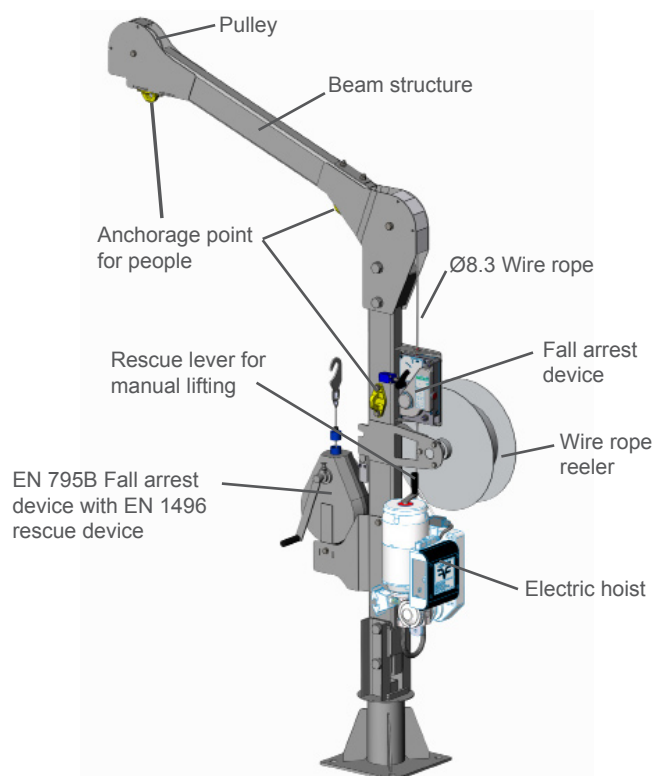


LOAD TABLE OF THE AVAHO DAVIT ARM

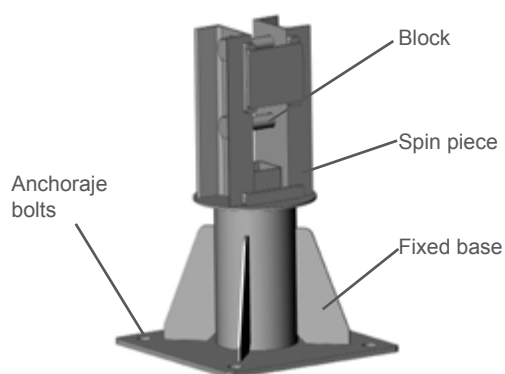
Weight Load Limit (W.L.L.)	280 kg
Weight of the heaviest piece	100 kg

LOAD TABLE OF THE AVAHO SEAT & CRADLES

Weight Load Limit (W.L.L.)	120 kg
Number of people	1
Weight of the seat	10 kg
Weight of the stainless steel cradle	60 kg
Weight of the rectangular cradle	90 kg
Weight of the rounded aluminium cradle	45 kg



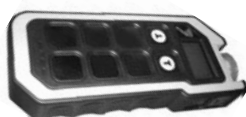
DAVIT ARM
AVAHO



FIXED BASE
AVAHO



Control post 1;
upper button pad

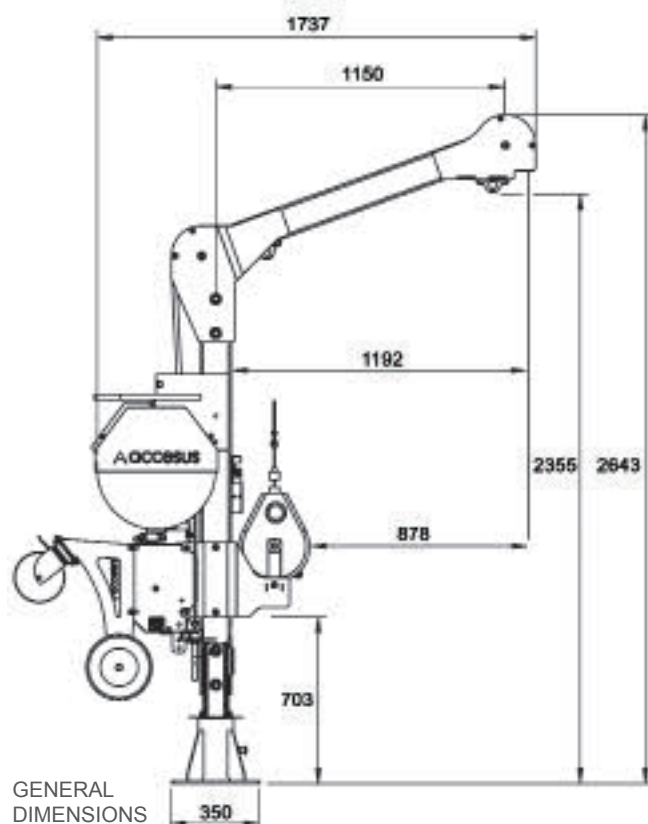


Control post 1;
wireless commander

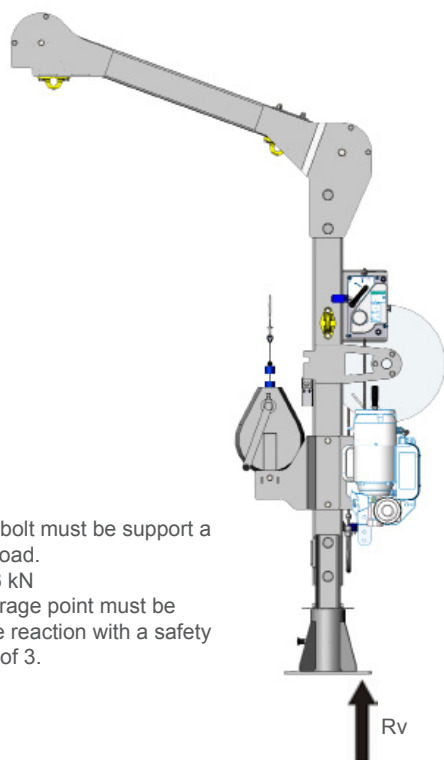
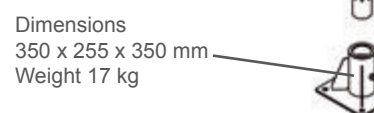
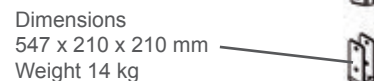
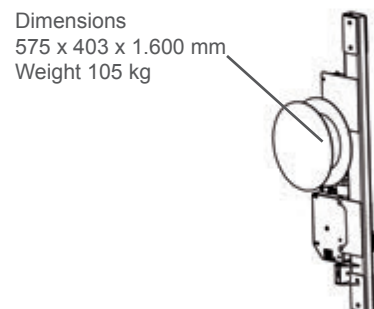
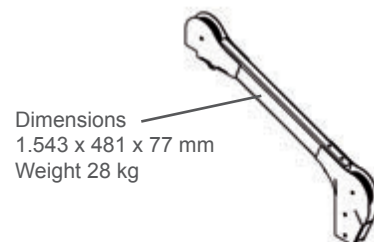


Electric cabinet and
wireless receiver

ELECTRIC EQUIPMENT
AVAHO



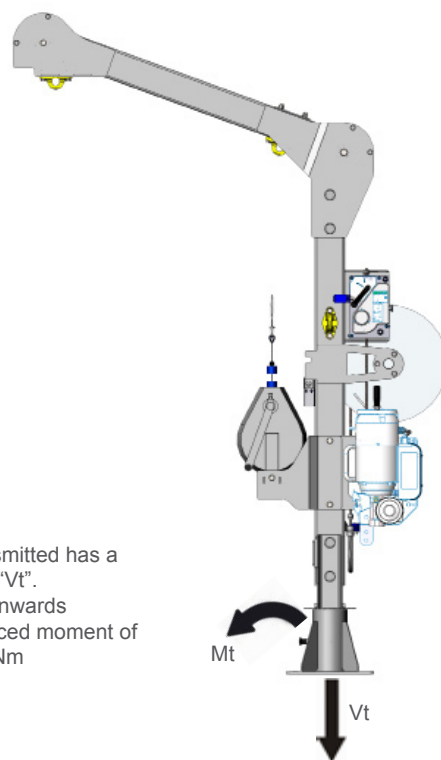
GENERAL
DIMENSIONS



Each M24 bolt must be support a "Rv" axial load.
 $R_v = 23.56 \text{ kN}$
The anchorage point must be support the reaction with a safety coefficient of 3.

R_v

EFFORTS DUE TO THE SUSPENDED LOADS



The efforts transmitted has a vertical force of "Vt".
 $V_t = 6,9 \text{ kN}$ downwards
with an unbalanced moment of "Mt". $M_t = 8,8 \text{ kNm}$

M_t

V_t



CAPTURE THIS FOR A
VIDEO DEMONSTRATION:



