MIRACLE ARM 360 DAVID ARM

MIRACLE ARM 360 DAVID ARM POLE HOIST SYSTEM

User Guide

ARGA® SAFETY

The Safest Way of Working at Height



FALL PROTECTION ANCHORAGES RETRACTABLE FALL ARRESTERS
WORKING AT HEIGHT LIFE LINE DAVIT ARMS CARABINERS
FALL PROTECTION EQUIPMENT HARNESSES
VERTICAL LIFE LINE PULLEYS

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MIRACLE ARM 360 DAVID ARM POLE HOIST SYSTEM

The anchor devices MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS are complying to the European Standard EN 795:2012 type A.

This product is reserved exclusively for the connection of personal protective equipment (PPE) against fall from height and not for lifting equipment.

Generalities:

This product is designed to provide protection against falling from a height. Before use, you should read and understand all the information contained in this document. Failure to comply with any of these warnings can result in serious or fatal injury. If there is any doubt, any problem of understanding, contact the technical department of ARGA SAFETY.

This instruction for use must always be available and accessible by the user. Any activity at heights is dangerous and can cause accidents, serious injury or death. Users must be aware that forces experienced during the arrest of a fall or prolonged suspension may cause bodily injury.

The equipment shall only be used by a person trained, must be physically healthy not to the influence of alcohol or drugs and be under the competent supervision.

Before and during use, the supervisors must consider about the risk of possible danger. A rescue plan needs to be established to deal with any emergencies that could arise during the work.

The equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended. Any modification or any addition to the equipment cannot be made without the prior written consent of ARGA SAFETY.
ARGA SAFETY does not allow any repair that can be carried out on the product whatsoever.

If the product is re-sold outside the original country of destination the reseller shall provide instruction for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

Using and limitations:

MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS are intended to be used on a horizontal structure. In case of fall a load of 17kN/m is transmitted to the structure.

The installers will ensure that the host structure is suitable and is able to withstand a force equal to 17kN/m. The maximum value of deflection of the anchor device and displacement of the anchor point that can occur in service is 100mm.

A full body harness EN 361, is the only acceptable body holding device in a fall arrest system. This anchor device should be use with a retractable fall arrester EN360, fixed on one of the internal or external anchor plate, functions to ensure that the impact forces on the body of the user during the arrest of a free fall are restricted to a maximum of 6kN.

Ensure compatibility of all other products used with the equipment when assembled into a system, that not to affect the security function of the entire system.

The user should carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used.
Check that metal components are not rusted or mechanically distorted, the webbing should not have cuts or frays and that the stitching is not damaged anywhere.

Life-span / Discard

This equipment lifespan is not limited.
WARNING, an exceptional event can lead you to put off a product after a single use (type and intensity of use, use environment: aggressive environment, marine environment, sharp edges, extreme temperatures, chemicals, etc.).

It is essential for safety that equipment is withdraw from use immediately if:

- It has been used to arrest a fall and not used again until confirmed in writing by a competent person that it is acceptable to do
- Marking not legible.
- You don’t have the periodical examination sheet.
- Any doubt arises about its condition for safe use.

The anchoring device has a marking indicating the date of the next or last inspection.

Instructions for maintenance

Minor soiling, wipe the anchor device with cloth or soft brush. Do not use abrasive material. Chemicals, solvents can alter the strength of the anchoring device. Intensive cleaning, wash, and rinse with clear water at temperature of 30°C using a neutral detergent.

If the equipment becomes wet, it shall be allowed to dry naturally and shall be kept away from heat.

Preferably storage in a cool dry place packed in sealed polybags away from damp environment, sharp edges, vibrations, ultraviolet rays.
It will be ensured that sufficiently packaged to prevent damage and deterioration during transportation. Using the original packing or in sealed polybag.

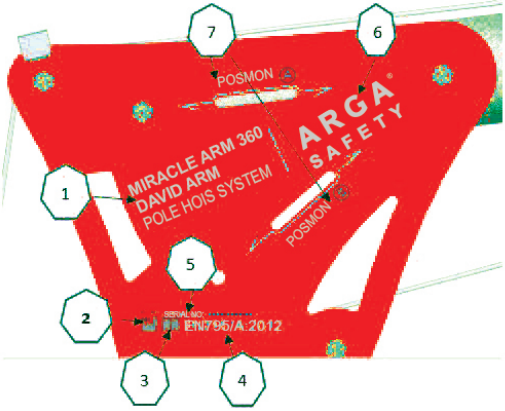
ARGA SAFETY guarantees this product against any material or manufacturing defects. Excluded from the warranty: normal wear, oxidation, modifications or repairs, poor storage, poor maintenance, damage due to accidents, negligence, uses for which this product is not intended.

It's very important to perform regular periodic examinations, at least it once a year, as the user's safety depends on the continued efficiency and durability of the equipment. The periodic examination also includes the requirement to check the legibility of the product marking. The periodic examinations of the MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS are only to be conducted by a competent person for periodic examination and strictly in accordance with the manufacturer's periodic examination procedures.

Conformity and marking

The anchoring device comply with the relevant requirements of EN 795:2012. It has been tested and certify by the following accredited ISO 17025:2017 laboratory:

QUINTIN CERTIFICATIONS
825 route de Romans
38160 Saint Antoine l'Abbaye
France



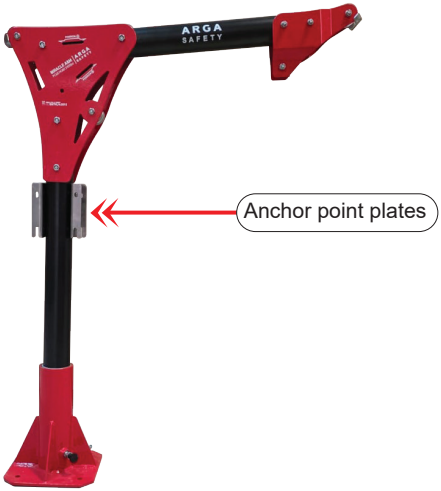
1 Reference
2 Manufacturing date
3 Read the instruction for use
4 Standard, type of the equipment, published year
5 Serial number
6 Manufacturer
7 Direction use

INSTALLATION

MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS is always properly positioned, and the work is done in such a way as to minimize the risk of falls and the height of the fall.

Check the free space under the user, so that in the event of a fall, there is no collision with the ground, no other obstacle set on the path and the risk in case of pendulum falls.

MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS has 2 anchor points plates (external and internal). Can be used:



MIRACLE ARM 360
DAVIT ARM POLE HOIST

The installation of the anchor device must be carried out in accordance with the specifications of ARGA SAFETY.

Concrete:

- MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS can be installed on concrete having strength of minimum 25Mpa.
- Fixing with M12 bolt.

Steel structure:

- MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS can be installed on metallic structure with a resistance of minimum 12kN.
- Fixing with M12 bolt.

The installers must ensure that the support materials in which structural anchor devices are attached are suitable.
ARGA SAFETY cannot be held responsible for improper installation of the anchor device.

A schematic plan should be affixed to the building so that it is visible to all. Below an example of an implementation plan.

Schematic installation plan

Building/Structure

Address:
Remarks:
Order no.:
Building type:
Roof shape:
Anchor device:

Customer

Name:
Address:
Contact person:
Phone:

Installer

Name:
Address:
Chief installer:
Phone:

Anchor device

Manufacturer:
Model/type identification:

Building component

Component 1: e.g. concrete ceiling
Component 2: e.g. concrete column
Building mat'l: e.g. reinforced concrete
Minimum thickness: e.g. 250mm
Minimum thickness: e.g. 500mm
Quality: e.g. min. C25/30

Fixings/Dowels

Manufacturer:

Fixing data
☐ data not required if through fixed

Drill-hole diamt : _____ mm
Drill-hole depth : _____ mm
Torque : _____ Nm



Type:
Material:
Min. edge distance (c):
Min. axial spacing (s):
Min. component thickness:
Permissible tensile force:
Permissible shear force:

Real situation:
Edge distance Cx: Cy:
Axial spacing Sx: Sy:

Remarks:

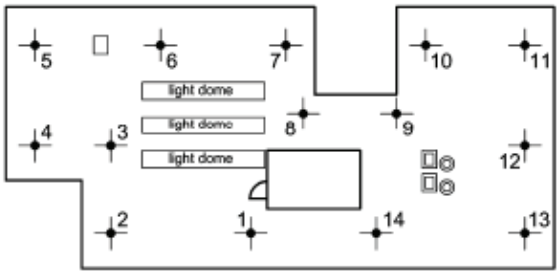
Drilling method:
☐ Hammer ☐ Drill-hole cleaning
☐ Rotary
☐ Torque controlled spanner ☐ Fixing test device

Testing device:
Impact System ☐ yes ☐ wet ☐ yes ☐ no ☐ dry ☐ no

CHECK LIST:

- ☐ Substrate as expected (no doubt on capacity)
- ☐ Installation complies with manufacturer's instructions
- ☐ Recommended fixings used
- ☐ All fixings photographed with identification number
- ☐ Fixings exposed
- ☐ Installation plan placed on site →
- ☐ Screw securing by through hole fixing technology
- ☐ Additional information _____

Roof ground plan:



Required pull-out force (kN), required torque [Nm] achieved?

Anchor point 1 _____	Anchor point 5 _____	Anchor point 9 _____	Anchor point 13 _____
Anchor point 2 _____	Anchor point 6 _____	Anchor point 10 _____	
Anchor point 3 _____	Anchor point 7 _____	Anchor point 11 _____	
Anchor point 4 _____	Anchor point 8 _____	Anchor point 12 _____	

Additional fixings: _____
Remarks by the chief installer: _____

Date: Signature:

Check Card

Identifying of the anchor device	
Manufacturer/supplier	ARGA SAFETY
Product name/reference	MIRACLE ARM 360 DAVIT ARM POLE HOIST SYSTEMS
Standards	EN 795 :2012 type A
Identification numbers	
Date of purchase	
First use date	

PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic or repair)	Defects noted, repair carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

ARGA®
SAFETY

The Safest
Way of
Working at Height

Arga İş Güvenliği ve Endüstriyel Ürünler A.Ş.

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