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Personal and collective protective equipment

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PPE, CPE : key advantages in risk prevention.

PPE : Personal Protective Equipment.

PPE are defined as any device or means intended to be worn or held by one person to protect itself against one or several risks liable to threaten its safety or its security.

CPE: Collective protective equipment.

Collective protective equipment for preventing electrical hazards contains all the products that close off the hazard by:

- Distance (marking, signs),
- Obstacles (covers, screen, barrier),
- Insulation (insulating blankets, insulating caps, etc.).

CPE must comply with the standards in force.

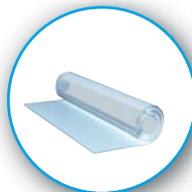
PPE within the framework of electrical safety recommendations.

"Personal Protective Equipment is used to protect individuals who work on or near an installation that presents an electrical hazard."

Equipment complying with the standards in force and appropriate for the type of operation and voltage level of the installation must be used.

PPE check

- Every PPE must be verified at least visually before and after every use.
- Regular tests must be made by qualified persons and at least annually.
- If the slightest doubt exists the equipment must be reformed and replaced at once.



REGULATIONS

The personal protective equipment have to be in compliance with the requirements of the European Directive :

89/391/CEE, on the introduction of measures to encourage improvements in the safety and health of workers at work.

89/655/CEE and **89/656/CEE**, on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace.



89/686/CEE, on the approximation of the laws of the Member States relating to personal protective equipment (CE marking).

In practice, they define:

- The protections adapted to the kind of risk,
- The highest level of protection possible,
- The comfort, the ergonomics and the quality of the equipment,
- The annual verification of PPE by a competent individual.

The obligations for using PPEs in companies are defined by the European Directive 89/656.

THE RESPONSIBILITY OF THE EMPLOYER

- To give free of charge and in a personal way equipment necessary and adapted to the risks,
- To watch over their actual use,
- To ensure the necessary replacement as well as the maintenance and the compliance,
- To inform the users of the risks against whom they are protected.

Safety glasses

Protection against UV radiation and ejections of solid particles.

Reference	Characteristics	UV protection	Resistance
MO-11000	Clear lenses	99.5 % < 370 nm	Level F Impact: 6 mm steel ball launched at 45 m/s
MO-11001	Tinted lenses	99.5 % < 370 nm	
MO-11003 *	Tinted lenses	UV/IR protection, welding filter	

Delivered in storage bag.
* EN 169 - 80 °C - FT HTA N°127.

 **Caution: Do not use for welding operations.**



EN 166 / EN 170
CE

Polycarbonate lens with a large field of vision. Anti-scratch, anti-impact and anti-chemical product treatments.



MO-11001



MO-11003



Overglasses

Polycarbonate overglasses. Protection against UV radiation and ejections of solid particles.

Reference	Characteristics	UV protection	Resistance
MO-11010	Clear lenses	100 % 180 < 400 nm	Level F Impact: 6 mm steel ball launched at 45 m/s
MO-11011	Green tinted lenses	100 % 180 < 400 nm	

Delivered in storage bag.

 **Caution: Do not use for welding operations.**

One piece wraparound protection that can be worn over eyeglasses.



EN 166 / EN 170
CE

Polycarbonate lens and frame with a panoramic field of vision.

MO-11010



MO-11011



Face shield

Protection against electric short-circuit arcs. Face shield adjustable on MO-182 helmet.

Reference	UV protection	mm	g
MO-184	100%	470 x 200	170

 **Caution: Do not use for welding operations.**

Adjustable by rubber band.



EN 166 / EN 170
CE



Face shield on helmet MO-182/1-B.



Head protection

Face shield

Protective screen that can be used without a helmet.
Protection against electric arcs of short-circuits.
 Marking: 2-1.2 CATU 1 B 8 1 000 V.

Reference	Characteristics	mm	g
MO-186	Clear face shield	450 x 210	350
M-881635	Spare face shield	For MO-186	350
M-952206	Spare strap for MO-186		

Caution: Do not use for welding operations.

Head fit adjustment by milled wheel.



EN 166 / EN 170
 CE

Polycarbonate face shield. Anti-mist treatment.

ABS helmet

Safety industrial helmet. Standard sizes 53 to 63.
 Leather trim 21 cm along the inside for added comfort.
 Multiple adjustments for a perfect fit headband.

Reference	Characteristics	g
MO-182/1-B	WHITE	300
MO-182/1-R	RED	300
MO-182/1-J	YELLOW	300



Deformable shock-resistant helmet with a "gutter" brim.
 Size from 53 to 62 cm.
 Lightweight with a comfort lining

EN 397 440 V
 EN 50365 Δ 1 000 V
 ANSI Z89.1 20 000 V
 CE



Polycarbonate helmet

Protects against vertical and side impacts, very well ventilated. Improved comfort.
 Adjustable size from 53 to 63 cm.

Reference	Characteristics	g
MO-183-BL	WHITE	455
MO-183-RL	RED	455



MO-183-RL

Deformable shock-resistant helmet.

EN 12492
 EN 397 440 V
 EN 50365 Δ 1 000 V
 ANSI Z89.1 20 000 V
 CE

Head fit adjustment by milled wheel.

Chinstrap with an easy adjustment buckle. Designed to tear if hooked. (< 25 daN).



6-point cloth lining.

Helmet with built-in face shield

EN 166 / EN 170 / EN 397
EN 50365 ⚡ 1000 V
CE

Industrial helmet with integrated face shield
Approved for protection against electric arcs.
Electrical isolation **1000 V**.

Reference	Characteristics	UV protection
MO-185-BL	WHITE 	100%
MO-185-R	RED 	100%
MO-185-J	YELLOW 	100%
MO-185-B	BLUE 	100%
MO-185-BLM	WHITE  + Chinstrap with a chin	100%



Accessories

Reference	Characteristics
M-881622	Spare complete set MO-185
M-881836	Spare padded headband MO-185
M-881835	Chinstrap replacement with chin for MO-185
M-881837	RED headband + 4 hooks
M-881838	RED/WHITE velcro for identification
M-87384	Cover for MO-182, MO-183, MO-184, MO-185 for MO-186 BLACK fabric cover for transporting and protecting helmets and shields





Head protection



LED's headlamp (4 LED's)

Can be carried either on the head or any kind of helmet.

Reference	Characteristics	Sealing	 Weight
MS-124	5 led's headlamp	IPX7	75



Adhesive clip supplied to attach to helmet or shield.

Powered by 1 battery
AA LR6: 20 hours.



Lumens max.:
34 Lumens.

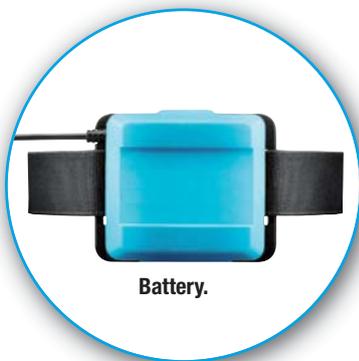
Light wiring for a **wide, short-distance beam** or a **long-range directional beam**, or a combination of the two for optimal lighting. 1 flash mode. Range **32 m.**

LED's headlamp

Can be carried either on the head or any kind of helmet.
Extra large stray.
The external battery 4-pack can be carried in a pocket or around the waist.

Reference	Characteristics	Sealing	 Weight
MS-125	Headlamp	IPX6	80

Adhesive clip supplied to attach to a helmet.



Battery.

Power by 1 battery:
30 h.



Lumens max.:
145 Lumens.

Lighting current for a wide, **short distance beam**, or a **long-range directional**, or the combination of the two for 1 flash mode. Range: **75 m.**

Insulating rubber gloves

An essential choice for safety!

Compliance.

Insulating gloves offer personal protection against electrical shocks when working on or near live wires. They must comply with the **IEC 60903** and **EN 60903** standards. As a result, they undergo various voltage, ageing, and mechanical testing.

The gloves are individually tested and sold in a sealed plastic bag.



CHARACTERISTICS OF SYMBOLS



- Label with a double triangle symbol IEC 60 417-5216, suitable for work on live wires.



- Label with a mechanical hammer symbol, indicating composite gloves.



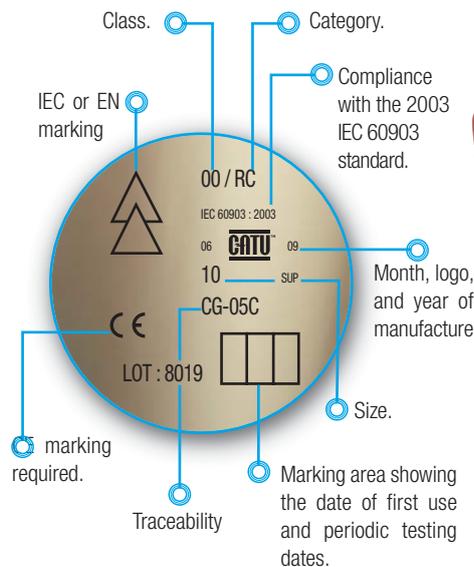
All our gloves provide greater comfort and hygiene when used.



Glove Types, Classes, and Categories.

There are **2 main types of insulating gloves**:

- **Latex gloves** provide high dielectric performance. They must be used with leather glove covers for mechanical protection.
- **Composite** gloves offer superior mechanical protection against punctures and tears. They eliminate the need for **overgloves**.



Symbol appears only on composite gloves

- **Insulating gloves** should be chosen according to their class, which corresponds the voltage level used.

Class	AC	DC
00	500 V _{effective}	750 V
0	1 000 V _{effective}	1 500 V
1	7 500 V _{effective}	11 250 V
2	17 000 V _{effective}	25 500 V
3	26 500 V _{effective}	39 750 V
4	36 000 V _{effective}	54 000 V

- **Insulating gloves** can have other environmental resistance properties, and they are classified into categories.

Category	Resisting in
A	Acid
H	Oil
Z	Ozone
R	Acid, Oil, and Ozone
C	Very low temperature

Note 1: Category R combines the characteristics of Categories A, H, and Z.
Note 2: Any category combination may be used.



Inspection and Storage of Insulating Gloves.



All insulating gloves must be visible inspected after inflation and before each use.

For **Classes 0** and **00**: The tests consist of an air inflation test and a visual inspection when the glove is inflated. The dielectric test is not required, but it may be performed at the owner's request.

For **Classes 1, 2, 3, and 4**: Even when in storage, a glove cannot be used without having been tested within the last six months. Normal testing periods are between 30 and 90 days.

An inspection of the inside of the gloves is also recommended. Gloves should be stored in their packaging, without being compressed or folded. They should not be stored near a heat source with a temperature of 10 to 21°C.

Insulating Latex Gloves

EN 60903 / IEC 60903

Gloves without mechanical protection for use with silicon leather glove covers.

Reference	Class	Voltage	Thickness max. mm	Category		
CG-05- ^(*)	00	≤ 500 V	0.5	AZC	360	150
CG-10- ^(*)	0	≤ 1 000 V	1	RC	360	220
CG-15- ^(*)	1	≤ 7 500 V	1.5	RC	360	270
CG-20- ^(*)	2	≤ 17 000 V	2.3	RC	360	450
CG-30- ^(*)	3	≤ 26 500 V	2.9	RC	360	560
CG-40- ^(*)	4	≤ 36 000 V	3.6	AZC	410	800

^(*) Reference to be completed by size A, B, C ou D.
CG-05 to **CG-20** : A, B, C, D.
CG-30 : B, C, D.
CG-40 : C, D.



Class 00 Class 0 Class 1 Class 2 Class 3 Class 4



CG-10

Insulating latex glove to glove cover size conversion table

GLOVES	GLOVES Reference	GLOVES Size	OVERGLOVES	OVERGLOVES Reference	OVERGLOVES Size
	CG-05- ^(*) CG-10- ^(*)	A = 8		CG-98- ^(*)	A = 8
		B = 9			B = 9
		C = 10			C = 10
		D = 11			D = 11
	CG-15- ^(*) CG-20- ^(*) CG-30- ^(*) CG-40- ^(*)	A = 8		CG-99- ^(**)	C = 10
		B = 9			D = 11
		C = 10			E = 12
		D = 11			

^(*) References to be completed by size A, B, C or D.
^(**) References to be completed by size C, D or E.

Total length

Weight



Composite gloves

EN 60903 / IEC 60903 
CE

Insulating gloves with higher mechanical properties for working in full safety without leather overgloves.

Conventional gloves

Reference	Class	Voltage	Thickness max. mm	Cat.		
CG-02- ^(*)	00	≤ 500 V	1.8	RC	360	300
CG-12- ^(*)	0	≤ 1 000 V	2.3	RC	360	350
CG-16- ^(**)	1	≤ 7 500 V	2.8	RC	410	580
CG-22- ^(**)	2	≤ 17 000 V	3.3	RC	410	620

^(*) References to be completed by size A, B, C, or D.
^(**) References to be completed by size B, C, or D.

Long Gloves

Reference	Class	Voltage	Thickness max. mm	Cat.		
CGL-20- ^(*)	2	≤ 17 000 V	3.3	AZC	800	1 800
CGL-30- ^(*)	3	≤ 26 500 V	3.6	AZC	800	2 040

^(*) References to be completed by size B or C.



Insulating gloves "arc flash"

See page 27.

Pneumatic glove tester

For compulsory control of gloves before use.
Checking is done by inflating and immersing in water.

Reference	Characteristics	
CG-117 *	Pneumatic glove tester	600

* Delivered in cardboard 140 x 150 x 160.



Gloves box

Specially designed for protecting insulating gloves.
Can be fixed on wall.

Reference		
CG-35/2 *	101 x 224 x 476	770

* Includes a bottle of talcum powder and precautions for use on tape positioned according to the language (English, French, Spanish, German, Italian, Portuguese, Arabic dutch, Chinese, Russian).

Recommended maintenance reminders.



The transparent cover enables to check gloves presence. UV resistant.

 Total length

 Dimensions

 Weight

GATUTM



Insulating gloves

Carrying bag

Reference	Dimensions (mm)	Characteristics
CG-36/1	100 x 210 x 430	1 gusset
CG-36/2	100 x 220 x 440	2 gussets to separate the insulated gloves and overgloves

Made from reinforced waterproof fabric for transport of rubber gloves in vehicles and tool boxes.



CG-36/1

Rear loop for belt and snaps.

Overgloves

Mechanical and electric arc protection.

Reference	Size	Weight (g)
CG-98-*	A = 8	160
	B = 9	
	C = 10	
	D = 11	
CG-99-*	C = 10	200
	D = 11	
	E = 12	

(* References to be completed by size A, B, C or D. See the conversion table page 21 for the correct size based on the insulated glove.



Silicon grain leather, very flexible.

EN 388 / IEC 388
EN 420 CE

Silicon cow grain leather

Large protective cuff in chrome tanned hide.

3122

CG-99C

2121

Undergloves Nomex III®

See page 27.

Undergloves

These washable cotton undergloves improve the use of the insulating gloves. They bring the best held, hygiene and a greater comfort.

Reference	Size	Weight (g)
CG-80-*	H = Men F = Women	28

(* References to be completed by size H ou F.



Washable cotton undergloves.

CE

Mittens

Its fingerless gloves shape allowing to keep the maximum of dexterity.

Reference	Size	Weight (g)
CG-81	One size	20



Cotton mittens, limit the effects of perspiration and its fingerless gloves shape allowing to keep the maximum of dexterity.

CE

Insulating boots and mats

Insulating boots

Protection against step and touch hazardous potential gradients.

Reference	Voltage	Standards
MV-135-(*)	20 000 V	ISO EN 20345
MV-134-(*)	1 000 V	ISO EN 20347 EN 50321 - Classe 0 EN 13287

(*) Add sizes: 39, 40/41, 42, 43, 44, 45, 46/47, 48, 49/50.
Example: MV-135-40/41.



ISO EN 20345
ISO EN 20347



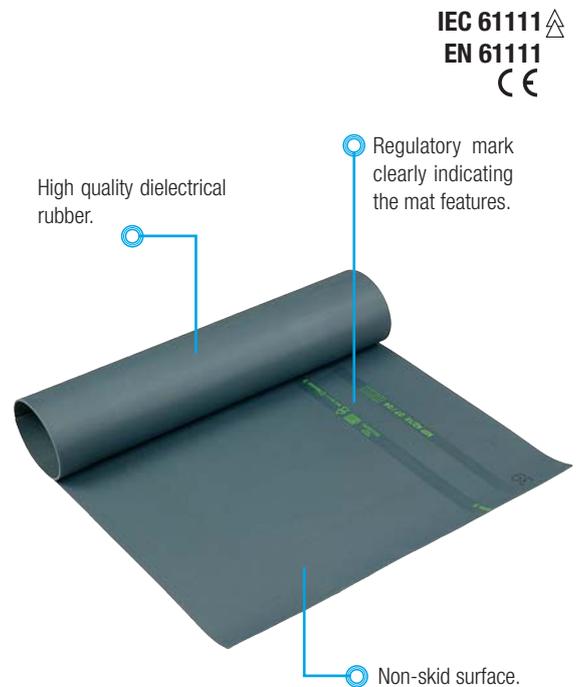
Insulating mats

Individual models

Reference	Class	Voltage	Thickness mm	mm	g
MP-42/11	3	≤ 26.5 kV	3	1 000 x 1 000	4 500
MP-42/16	3	≤ 26.5 kV	3	600 x 1 000	2 900
MP-42/66	3	≤ 26.5 kV	3	600 x 600	1 800

For placing in front of panels

Reference	Class	Voltage	Thickness mm	mm	g
MP-60/03-5	3	≤ 26.5 kV	3	600 x 5 000	14 000
MP-60/03-10	3	≤ 26.5 kV	3	600 x 10 000	28 000
MP-100/03-5	3	≤ 26.5 kV	3	1 000 x 5 000	25 000
MP-100/03-10	3	≤ 26.5 kV	3	1 000 x 10 000	53 500
MP-60/05-5	4	≤ 36 kV	5	600 x 5 000	28 000
MP-60/05-10	4	≤ 36 kV	5	600 x 10 000	44 000
MP-100/05-5	4	≤ 36 kV	5	1 000 x 5 000	45 000
MP-100/05-10	4	≤ 36 kV	5	1 000 x 10 000	89 000



IEC 61111
EN 61111



Insulating mats

Adapted to **High Voltage**.

Reference	Thickness mm	mm	g
MP-100/10-5	10	1 000 x 5 000	87 000
MP-100/10-10	10	1 000 x 10 000	154 000

Contact us for any particular application.





Accessories and insulating platforms

Multi-pockets electrician bag

Specially designed for carrying and protecting insulating mats, face shield and controllers.

Reference		
M-87386	650 x 150 x 250	850



Bags for insulating mats

Specially designed for carrying and protecting insulating mats. Equipped with a shoulder strap.

Reference	Characteristics	
MP-01	For MP-42/16 and MP-42/66	700
MP-02	For MP-42/11	1 100



Insulating platforms (indoor models)

Reference	Class	Rated insulation	Standards	Height mm	
CT-7-25/1	4	≤ 24 kV	UNE 204 001 ≤ 36 kV	220	3 700
CT-7-40/1	5	≤ 40 kV	UNE 204 001 ≤ 45 kV	260	3 800



Insulating platforms (indoor models)

Adapted to the B High Voltage.

Reference	Rated insulation	Height mm	
CT-7-63	≤ 63 kV	515	3 350



Insulating platform (outdoor model)

Reference	Rated insulation	Number of skirts/foot	Height mm	
CT-9-25	≤ 24 kV	2	350	6 000
CT-9-45	≤ 45 kV	3	435	6 500
CT-9-63	≤ 63 kV	4	515	7 000



 Total length

 Dimensions

 Weight

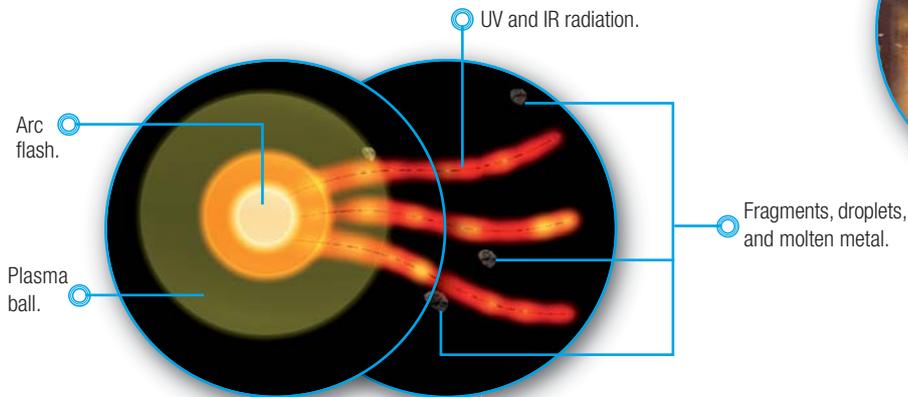


Arc Flash Protection

the solution for complete electric arc protection

The "Arc Flash" phenomenon.

An electric arc follows a short circuit. It produces nearly instant effects with serious consequences without proper protection.



- The arc's main manifestation is its thermal effect. The heat energy released, which is proportional to the voltage, intensity, and fault length, can be considerable (19,000°C), melting the metal and charring the insulation.
- Blast effect, caused by the very rapid release of energy in a limited volume of air (similar to an explosion).
- Light effect with high ultraviolet and infrared radiation.
- Ionisation effect that can trigger an arc on nearby active sections.

In addition to these effects, particles may be projected, and the metal may melt.

When electric arc danger exists, heat-resistant clothing must be worn.

The arc's characteristics are given by:

- **The resistance value of the free arc, expressed in cal/cm² according to NFPA 70 E, ASTM standards, and IEC 61482-1-1.**

or

- **The protection class (1 or 2) with a constrained arc according to IEC 61482-1-2.**



Fire-retardant clothing in case of exposure to an electric arc, confirming to **IEC 61482-2** and the regulation **NFPA 70E**.

PROTECTION AGAINST ARC FLASH

The following are used to determine the proper equipment for protecting against an electric arc:

- The maximum fault current value.
- The phase/ground rated voltage at the site of the risk.
- The distance between the source of the arc and the reception surface.
- The AC cycle number and the mono or three-phase circuit type.
- The location where the arc is produced (confined space).

After recording these parameters, we can estimate the level of risk and determine the proper protective clothing and PPE to use: **8 to 100 cal/cm² or class 1 or 2**.

For more information, please contact our technical department.



Arc Flash protection

Insulating gloves for "Arc flash" protection

Latex insulating gloves designed especially to provide electrical insulation and heat protection from an electric arc.

Arc resistance:

- 21.6 cal/cm² according to **ASTM** (F1959 and glove standard project).
- Class 1 at 150 mm and Class 2 at 300 mm according to **IEC 61482-1-2**.

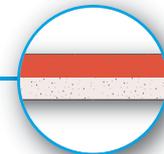
Reference	Class	Voltage	Thickness mm	Cat.	mm	g
CG-11-*	0	≤ 1000 V	1	RC	360	230

(* References to be completed by size A, B, C or D.



EN 60903 / IEC 60903
CE

Two-colour latex with a life indicator (white undercoat).



Nomex III® Undergloves

100% Nomex III® fire-resistant and heat-resistant undergloves. Protects the hands against heat of up to 100°C. Ideal protection for "arc flash" equipment.

Reference	Characteristics	Icon	g
CG-37	One size	Includes 5 pairs	32



EN 407
EN 420
CE

Fire protection.

High performance synthetic Nomex III® fibre.

"Arc flash" Gloves

Protects the hands against the heat of an electric arc of up to 65 cal/cm².

ASTM F 1506-02a standard, tests according to **ASTM F1959**.
NFPA 70E compliant.

Reference	Characteristics	g	mm
CG-65-CAL	One size	265	355



NFPA 70E

Outer layer Kevlar® with 2 layers made of Nomex® 33% of and Kevlar®.

High-Visibility "Arc flash" Parka

100% waterproof parka.
Resistant to arc flash and flames.
Ideal protection for "arc flash" equipment.
19 cal/m²

ASTMF 1891
ANSI 107 Class 3 Level 2.

Reference	Characteristics	g
M-882082	One size	924

High quality tissue.

Round neckline with a hood.

NFPA 70E

Tightening velcro.

Large pockets with a Velcro flap.

Zip closure and pressure flap.



mm Total length

Icon Packaging

g Weight



"Arc flash" face shield kit (10 cal/cm²)

NFPA 70E

Reference	KIT-ARC-01	
Composition		1 500
M-881956	1 Face shield with chin cup 10 cal/cm ² , absorbs > 99.9% of harmful UV radiation, 70% light transmission, tested to ASTM F 2178 specifications	
MO-182/1-B	1 ABS helmet electrically insulated EN397, EN 50365, ANSI Z89.1 20kV.	
M-87384	1 carrying bag for face shield and helmet	



"Arc flash" jacket and protective coverall kits (8 or 10 cal/cm²)

IEC 61482-2 
NFPA 70E

Reference	Capacity cal/cm ²	
KIT-ARC-08-C- (*) *1	8 cal/cm ²	4 100
KIT-ARC-10-C- (*) *2	10 cal/cm ²	4 200
KIT-ARC-10-J- (*) *3	10 cal/cm ²	3 075
KIT-ARC-10-JP- (*) *4	10 cal/cm ²	4 400

Composition of KITS		
M-881956	1 Face shield with chin cup 10 cal/cm ² , absorbs > 99.9% of harmful UV radiation, tested to ASTM F2178 specifications	
MO-182/1-B	1 ABS helmet electrically insulated EN397, EN 50365, ANSI Z89.1, 20kV.	
MO-11000	1 safety glasses EN 166/EN 170	
M-881960	1 arc flash protective hood (10 cal/cm ²), only with coverall.	
—	1 protective coverall 8 or 11 cal/cm ² *1, ASTM F1506 and NFPA 70E Standards or 1 arc flash protective jacket 11 cal/cm ² , ASTM F1506 and NFPA 70E Standards.	
M-87384	1 carrying bag for face shield and helmet.	
M-87295	1 all kit carrying bag.	



(*) Reference to be completed by the size M, L or XL.
Size S to 3 XL on request.

1 For reference KIT-ARC-08-C- ()

2 For reference KIT-ARC-10-C- ()

3 For reference KIT-ARC-10-J- ()

4 For reference KIT-ARC-10-JP- ()



"Arc flash" protective kits
(25, 40, 55, 65 or 100 cal/cm²)

IEC 61482-2
NFPA 70E

Reference	Capacity cal/cm ²	g	Color
KIT-ARC-25-B-(*) *1	25 cal/cm ²	6 000	KAKI
KIT-ARC-40-B-(*) *2	40 cal/cm ²	6 900	GREY
KIT-ARC-55-B-(*) *3	55 cal/cm ²	8 000	GREY
KIT-ARC-65-B-(*) *4	65 cal/cm ²	8 000	CAMEL
KIT-ARC-100-B-(*) *5	100 cal/cm ²	8 000	CAMEL

Composition

M-881968 *1 M-881961 *2 M-881973 *3 M-881976 *4 M-881979 *5	1 arc flash protective hood with an integrated face shield 25 *1, 40 *2, 55 *3, 65 *4 or 100 *5 cal/cm ² , ASTM F2178 and NFPA 70E Standards
MO-182/1-B	1 ABS helmet electrically insulated EN397, EN 50365, ANSI Z89.1 20kV.
—	1 arc flash protective bib overall 25 *1, 40 *2, 55 *3, 65 *4 or 100 *5 cal/cm ² , ASTM F1506 and NFPA 70E Standards
—	1 arc flash protective coat 25 *1, 40 *2, 55 *3, 65 *4 or 100 *5 cal/cm ² , ASTM F1506 and NFPA 70E Standards
MO-11000	1 safety glasses EN 166/EN 170
M-87384	1 carrying bag for face shield and helmet
M-87295	1 all kit carrying bag

(*) Reference to be completed by the size M, L or XL.
Size S to 3 XL on request.

- *1 For reference KIT-ARC-25-B-(*), kaki outfit.
- *2 For reference KIT-ARC-40-B-(*), grey outfit.
- *3 For reference KIT-ARC-55-B-(*), grey outfit.
- *4 For reference KIT-ARC-65-B-(*), brown/camel outfit.
- *5 For reference KIT-ARC-100-B-(*), brown/camel outfit.



KIT-ARC-25-B-(*)

KIT-ARC-40/55-B-(*)

KIT-ARC-65/100-B-(*)

Electrician coverall

Coverall without metallic part, avoiding any flash hazards. 100% cotton.

Reference	Size for Ref. (*)	Size	Chest size
MV-104/ (*)	01	40/42	85/92
	02	44/46	92/100
	03	48/50	101/108
	04	52/54	109/116
	05	56/59	117/124
	06	60/62	125/132
	07	64/66	133/140

(*) Reference to be completed by the size, ex : MV-104/02.



Dust-proof equipment

Combination

Waterproof nonwoven polypropylene, 3 layers SMS 68 g/m².

Reference	Characteristics	g
MO-132	One size XL – White	240

Hood with an elastic drawstring.

Type 5 - EN 13982-1
Type 6 - EN 13034
EN 1149-1 (antistatic)



Zipper with flap.

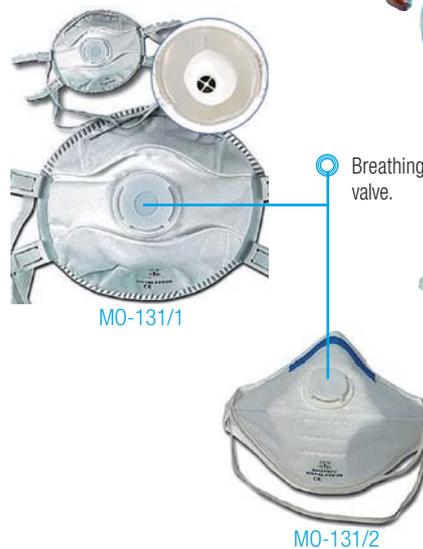
Elastic wrists, ankles, and waist in the back.

Dust masks FFP3 SL

Mask (disposable).

Protects against dust and very fine toxic liquids and solids, up to 50 times VL (asbestos protection only for maintenance operations).

Reference	Characteristics		g
MO-131/1	Shell mask	5	34
MO-131/2	Bendable mask	20	18



EN 149-1 : 2001
CE



Work Gloves

Reference	Size	
CG-96- (*)	A = 8	115
	B = 9	
	C = 10	
	D = 11	
CG-97-C	One size C = 10	115

(*) Reference to be completed by the size of A, B, C or D.

American style gloves with very soft and flexible full bloom leather allowing full finger movement.



EN 388 / IEC 388
EN 420

"Docker" style gloves with very soft full bloom leather allowing full finger movement.



Noise-reduction cover for helmet

Cover with adapter for mounting over headsets **MO-182/1**.

No metal for **electrical work**.

Reference	Characteristics	
MO-155	Noise-reduction cover	200

Adjustable positioning.



EN 352-1
SNR 28 dB

High performance noise-reduction helmet

No metal for **electrical work**.

Reference	Characteristics	
MO-156	Noise-reduction cover	178

Adjustable band, padded for comfort.

Yellow ABS shell.
Leather feel PVC padding.



EN 352
SNR 25 dB

Earplugs

Can be cleaned with soapy water.

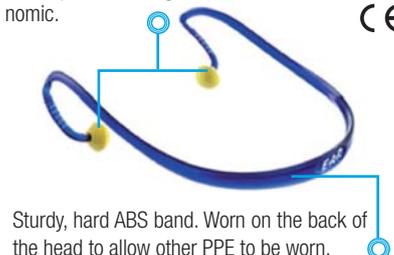
Reference	Characteristics	
MO-151	Pair of earplugs with cord	5
MO-151/100	Pair of earplugs without cord	100
MO-152	Pair of earplugs with headband	1

EN 352
SNR 30 dB



Washable end-pieces. Sound protection, ergonomic.

EN 352-2
SNR 21 dB



Safety Shoes

MV-123

Low, derby style shoe without metal parts.

MV-124

Heavy duty boots without metal parts.

ISO EN 20345
2007 SRC (SRA+SRB)
PPE category 2.
CE

Reference	Size	g
MV-123-(*)	from 39 to 48	900
MV-124-(*)	from 39 to 48	900

(* Reference to be completed by the size: 39, 40, 41, 42, 43, 44, 45, 46, 47, 48. Example: MV-123-40.



Safety Boots

Exposure to oils, hydrocarbons.

Work involving oil.

Thick soles avoiding, risk of slips and strains.

Heavy duty, manufacturing, and construction.

Reference	Size	g
MV-131-(*)	from 39 to 47	1 400

(* Reference to be completed by size: 39, 40, 41, 42, 43, 44, 45, 46, 47. Example: MV-131-40.



Cold Protection Kit and Cap

MO-157

Industrial safety cap with a fabric covered protective shell.

MO-158

Kit to protect against harsh weather conditions, including:

- 1 acrylic helmet cap. Protects against cold inside the helmet.
- 1 yellow high-visibility neck warmer.

Reference	Characteristics	g
MO-157	safety cap	155
MO-158	universal cap	55
	neck warmer	86



EN 812
CE



EN 471
CE

Equipment
for working
on pole

ARC FLASH-HARNESS
PLEASE CONSULT US



CATU™

Work at height, a regulation in line with the European Directive.

Regulatory perspective.

The safety equipment for working at height and their methods of use are defined by the decrees:

No. 92-766 dated 29 July 1992: which applies the 1989 European Directive,
No. 2004-924 dated 1st September 2004: "decree relating to the use of work equipment made available for temporary work at height".

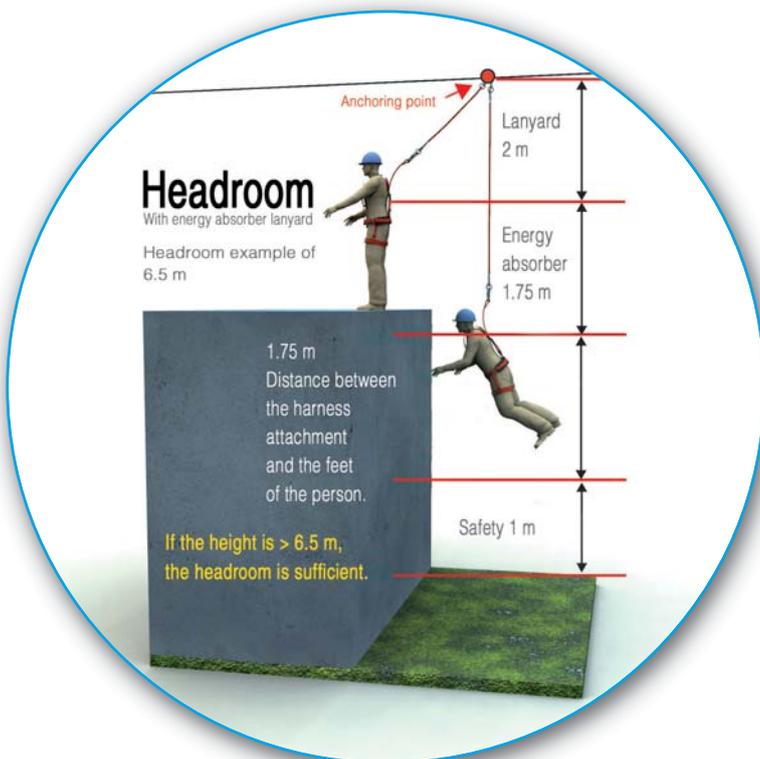
The following are defined in these decrees:

The priority is the installation of collective protective equipment. When this is not possible, the use of a device to an item of personal protective equipment against falls from a height is required, whether this is for the purposes of retaining, support, saving, or protecting against falls from a height.

Removal of the minimum height of 3 m: After a risk evaluation, protective equipment is required as soon as there is a risk of a falling.

- The use of access and positioning techniques by means of ropes must comply with the following: a working rope, a safety rope fitted with a fall arrestor system, with two separate anchoring points. Workers must be provided with suitable fall arrestor harnesses connected to both ropes. Safe descent/mounting systems with a self-locking system and a mobile fall prevention system must be provided.
- The work must be programmed and supervised so that assistance can be given immediately to the worker in the event of an emergency.

The workers must receive suitable and specific training in the operations considered and in the rescue procedures.



KEY PRODUCT STANDARDS

- EN 353-1 Fall arrest grab for rigid support.
- EN 353-2 Fall arrest grab for flexible support.
- EN 354 Restraint lanyard.
- EN 355 Shock absorber lanyard.
- EN 358 Work positioning systems.
- EN 360 Retractable type fall arrestors.
- EN 361 Fall arrest harness.
- EN 362 Connectors.
- EN 363 Fall arrest systems.
- EN 813 Sit harnesses.



To determine your harness size, see the table on page 147.



Equipment for working on pole: harness

Pro electric full body fall arrest harness

Reference	Size	g
MO-563- ^(*)	S	2700
	M	
	XL	

^(*) Reference to be completed by the size (example: MO-563-XL).
Delivered in cloth bag.



EN 358
EN 361
CE

Pro electric full body fall arrest harness

Reference	Size	g
MO-565- ^(*)	S	3000
	M	
	XL	

^(*) Reference to be completed by the size (example: MO-565-M).
Delivered in cloth bag.



EN 358
EN 361
EN 813
CE

Full body fall arrest harness

Reference	Size	g
MO-71	Unique size	1900

Delivered in cloth bag.



EN 358
EN 361
CE

Equipment for working on pole: harness and anti-fall

Working on pole kits

Reference	Use
KIT-HAUT-01-(*)	To go up a pole with insulating ladders
KIT-HAUT-02-(*)	To go up a pole with spliced ladders
KIT-HAUT-03-(*)	To go up a catenary
KIT-HAUT-04-(*)	To go up on a pylon
KIT-HAUT-05-(*)	To go up on a roof
KIT-HAUT-06-(*)	To go up using a nacelle

(*) Add size : M or XL (order example: KIT-HAUT-02-XL).

Composition	KIT-HAUT-...					
	01	02	03	04	05	06
MO-563 Harness	•	•	•			
MO-565 Harness				•		
MO-71 Harness					•	•
MO-52020 Tether rope	•					•
MO-54010 Double tether rope		•		•	•	
MO-52034 Constraint tie	•	•				
MO-52031 Constraint tie				• x 2		
MO-56009 Tether rope with tension device	•	•	•	•	•	
MO-68/15 Anti-fall grip	•	•	•	•		
MO-54 Snap hook	•	•				
M-87-295 Carrying bag	•	•	•	•	•	•



Anti-fall grip

“ROP CHUCK” FALL ARREST.

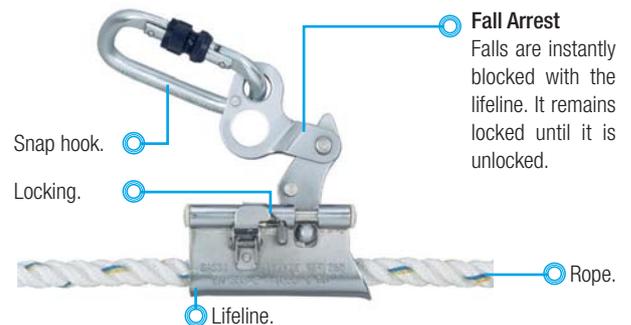
Uses special Ø 15 mm rope exclusively with a spliced upper end.

To be used with a harness.

Reference	Characteristics	 Weight
MO-68/10	With 10 m of rope	1 600
MO-68/15	With 15 m of rope	2 720

Delivered complete only.

EN 353-3
CE



Fall Arrest
Falls are instantly blocked with the lifeline. It remains locked until it is unlocked.



Equipment for working on pole: anti-fall and tether

Fall arrester retractable type

Reference	Characteristics	g
MO-591002	Max. length: 10 m.	7 000

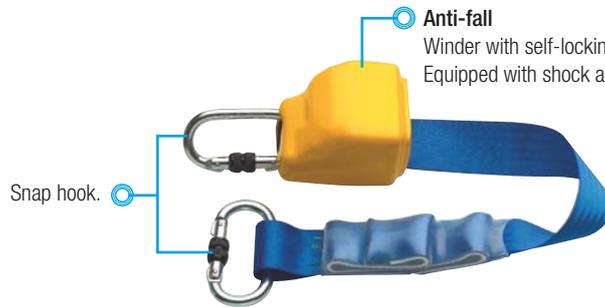


Integrated braking mechanism and dissipating element. Self locking mechanism and automatic tensioning and return facility.

EN 360

Anti-fall device with automatic release strap

Reference	Characteristics	g
MO-591000	Anti-fall: 2 m max.	1 160



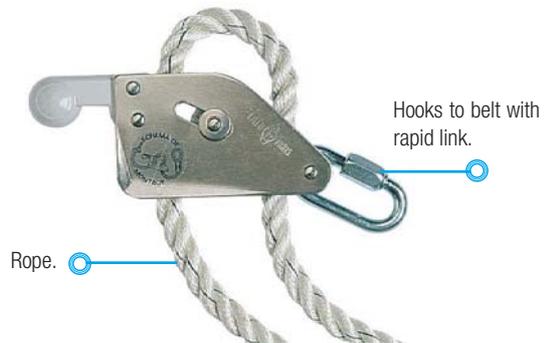
Anti-fall Winder with self-locking strap. Equipped with shock absorber.

EN 360
CE

Equipped rope straps with lever stretcher

Reference	Characteristics	g
MO-52-L	Length: 4 m	1 000
MO-61	Stretcher only	450

Equipped with adjuster.



Hooks to belt with rapid link.

Rope.

EN 358
CE

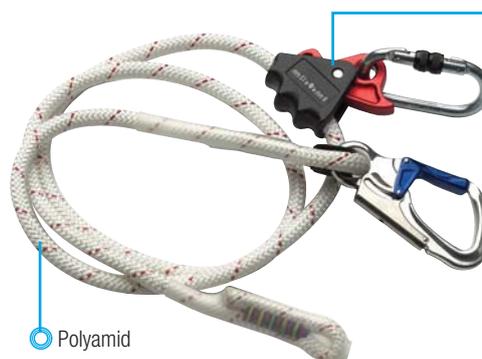
Tether rope equipped with a tension device.

Ideal for all horizontal works.

Reference	mm	mm	g
MO-56009	2 000	12	750
MO-56010	5 000	12	1 000

Tether protector

Reference	Characteristics	mm
MO-52-P	Chrome leather sleeve	950



Tensioning device: A double-locking system instantly stops the rope.

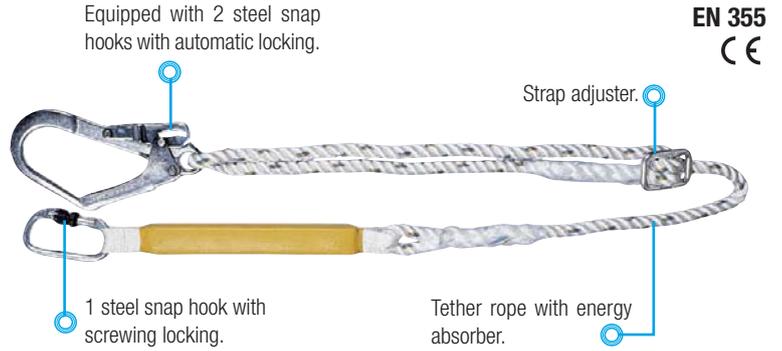
Polyamid roye.

EN 358
CE

Equipment for working on pole: tether and safety line

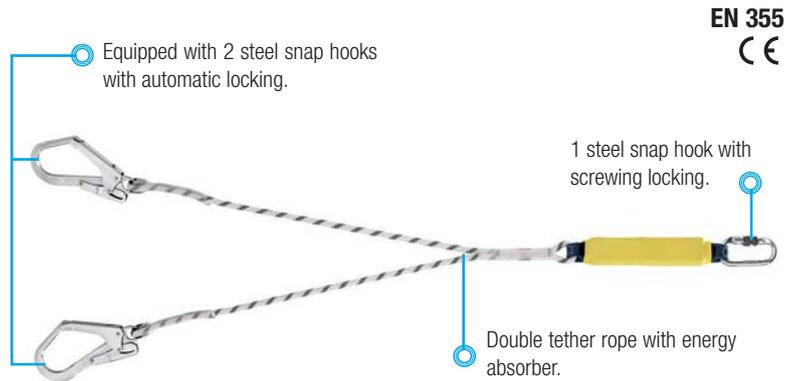
Double tether rope with energy absorber

Reference	↔	⚖
MO-52020	Length: 1.5 m	1 100
MO-52021	Length: 2 m	1 200



Double tether rope with energy absorber

Reference	↔	⚖
MO-54010	Length: 1.20 m	1 400



Double lanyard

Can be connected to the harness by locking steel screw karabiners.

Reference	↔ mm	∅ mm	⚖
MO-53010	1 000	12	1 400



Mobile safety line

Easy and quick to set up, this line can be used by 2 people. It is equipped with a tension device. This safety line is designed for short operations. The users can then hook themselves to the safety line using a fall arrest device or a shock absorbing lanyard. When using a shock absorbing lanyard, allow for at least 7 meters clearance.

Reference	↔	Resistance	⚖
MO-53002	5 to 20 m	2 000 Kg	2 820





Equipment for working on pole: ropes and snap hooks

Safety rope with wear tell tales

Two-colour safety rope, 100% polyester made of 3 white strands with black central thread.

Reference	↔ mm	∅ mm	g
MO-052	4000	15	760



EN 354
CE

Lanyard

Reference	↔ mm	∅ mm	g
MO-53	1500	10	125

Delivered without snap hook.



EN 354
CE

Double safety descent device

Double safety manual descent device. Works on a static 11mm lanyard. Its ergonomic shape improves the self-adjusting descent.

Reference	∅ mm Lanyard	g
MD-02	11	380



EN 341-A
CE

Snap hook with double safety latch

Reference	mm	F _{lim}	g
MO-54002	50	20 kN	390

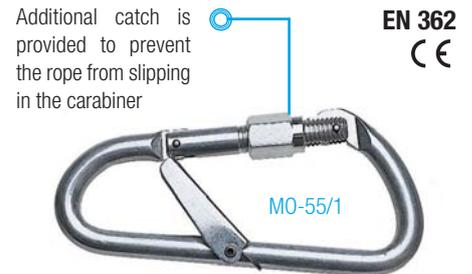


EN 362
CE

Equipment for working on pole: snap hooks and anchoring accessories

Snap hooks (stainless steel)

Reference	 mm	 mm	 g
MO-54	15	100 x 58	154
MO-55/1	28	155 x 75	140



Snap hooks (aluminium alloy) zical

Reference	 mm	 mm	 g
MO-54000	19	110 x 58	78
MO-54004	23	120 x 72	87



Snap hook with stick adaptor

To fix a life line from the ground. Snap hook to be operated with a stick and unlocking using a cord.

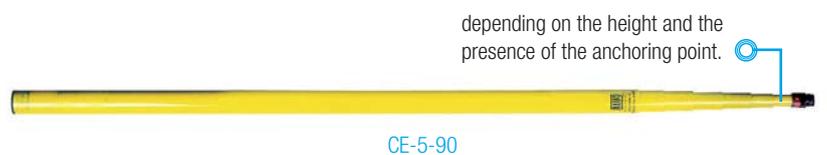
Connector with stick adaptor

Reference	 mm	Type	 g
MO-54005-C	50	C End fitting	470
MO-54005-K	50	K End fitting	470



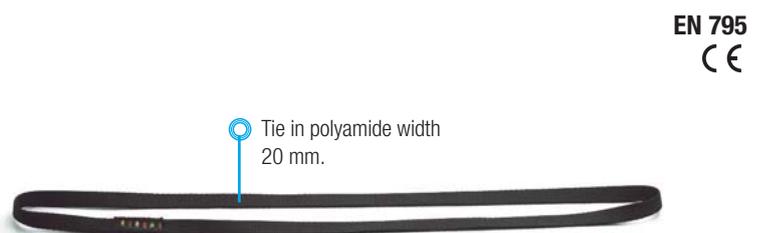
Telescopic stick

Reference	 mm	Type	 g
CE-5-90-C	9 m max.	C End fitting	4 000
CE-5-90-K	9 m max.	K End fitting	4 000



Constraint tie

Reference	 mm	 g
MO-52031	0.8 m	100
MO-52033	1.20 m	135
MO-52034	1.50 m	150



 maximal opening

 Dimensions

 Weight

 Total length

GATU™

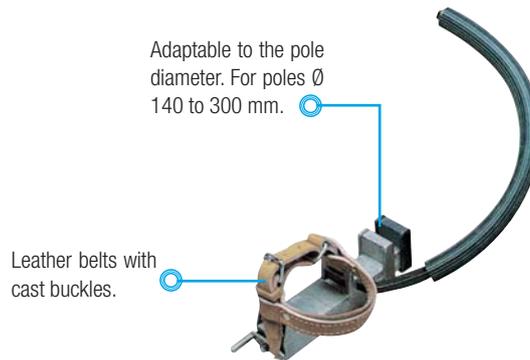


Equipment for working on pole: climbers and accessories

Mechanical climbers for round and hexagonal concrete poles

Reference	Ø Pole	g
MO-16-A	140 > 300	6 500

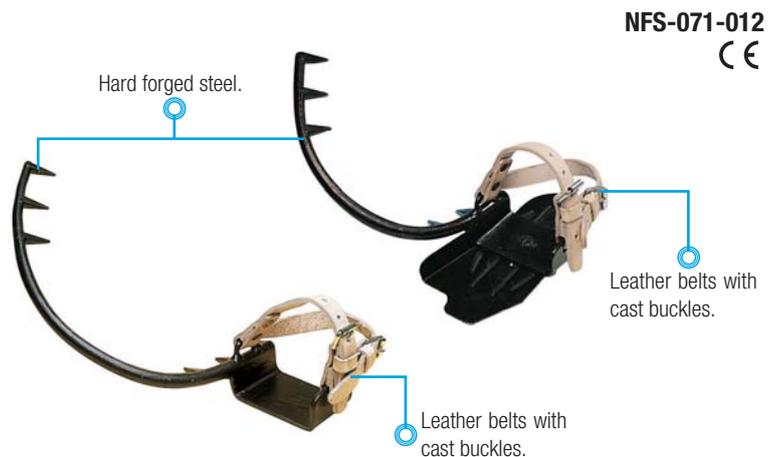
Delivered by pair.



Forged steel climbers for round wooden poles

Reference	Ø Pole	g
MO-24	200	2 600
MO-25	250	2 800
MO-26	300	3 000
MO-35	350	3 200

Delivered by pair.



Mechanical climbers for rectangular shaped concrete poles

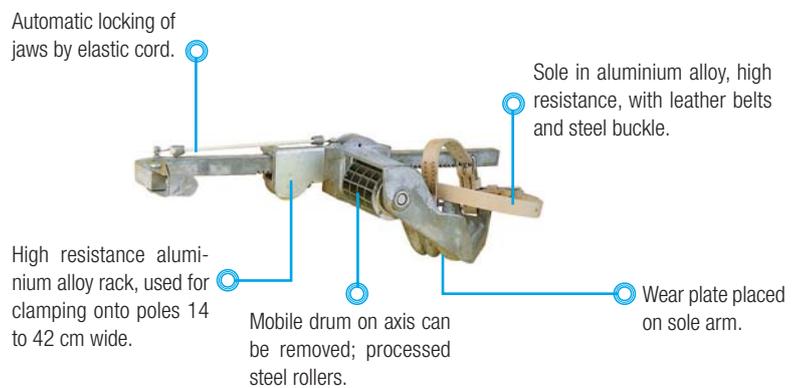
For rectangular shaped concrete poles

Reference	Pole width	g
MO-17-A	14 à 42 cm	9 000

Delivered by pair.

Spare parts

Reference	Characteristics
MO-17-01	Pair of elastic cords
MO-17-02	Pair of wear plates
MO-17-03	Blade roller
MO-17-04	Pair of runners



Tool bag for safety harness

Reference	Dimensions	g
MO-32/3	250 x 230 x 100	835



Insulating ladders

A complete range with top quality features: Insulation between two steps: 30,000 V (test performed after immersion in water for 24 hours). High mechanical resistance to bending and twisting. Good resistance/weight ratio. High fire resistance. High resistance against bad weather and corrosive elements.



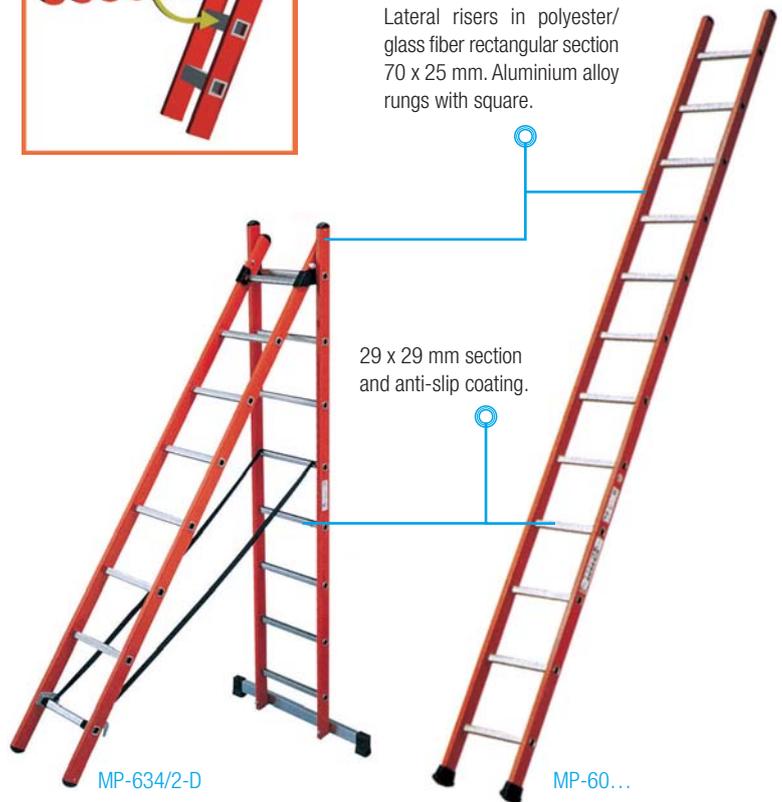
EN 131

Simple ladders

Reference	↔	Numbers of rungs
MP-602-D	2.41 m	8
MP-603-D	2.97 m	10
MP-604-D	4.09 m	14
MP-605-D	4.93 m	17

2 sections extension ladders

Reference	↔	Numbers of rungs
MP-634/2-D	2.70 / 4.66 m	9 + 9



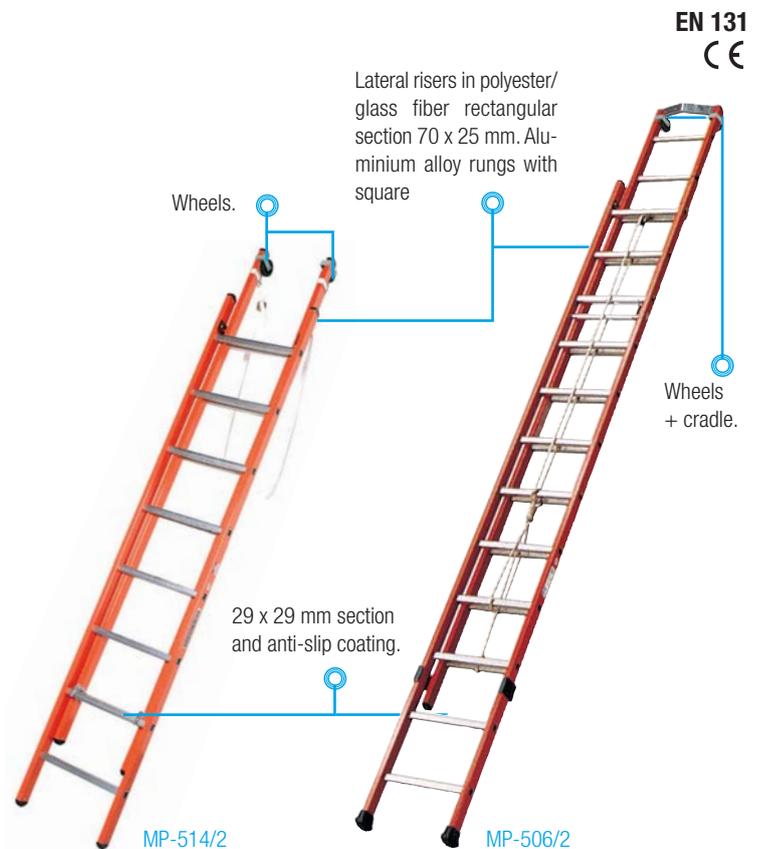
2 sections extension ladders, hand operated

Reference	↔ Folded	↔ Deployed	Numbers of rungs	⚠ Weight
MP-514/2	2.41 m	4.09 m	2 x 8	13 900
MP-515/2R	2.97 m	5.21 m	2 x 10	17 000

2 sections extension ladders, rope and pulley operated

Reference	↔ Folded	↔ Deployed	Numbers of rungs	⚠ Weight
MP-506/2	3.53 m	6.05 m	2 x 12	22 900
MP-508/2	4.66 m	8.30 m	2 x 16	35 400
MP-509/2	5.22 m	9.14 m	2 x 18	39 300
MP-510/2	5.78 m	10.26 m	2 x 20	43 000

Ladders come with cradle, strap and front wheels.



EN 131

