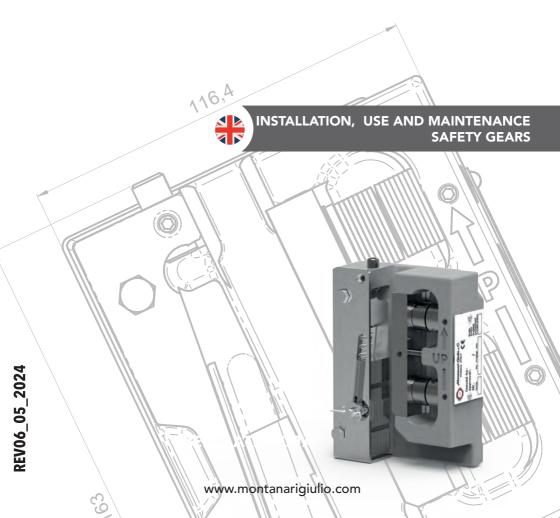
MANUALI - GUIDES - MANUELS HANDBUCH - MANUAL







Pag. Auf S.

43



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Massimo Montanari CEO of Montanari Group

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REV.	DATE	DESCRIPTION	EDITED BY	VERIFIED BY	APPROVED BY
1	17/04/2019	First Redaction	Marketing Dept	Technical Dept Stefano Bertoni	STEFANO BERTONI (DTE)
2	08/06/2020	Editing	Marketing Dept	Technical Dept Stefano Bertoni	STEFANO BERTONI (DTE)
3	20/05/2022	Editing	Marketing Dept	Technical Dept Stefano Bertoni	STEFANO BERTONI (DTE)
4	31/05/2023	Editing	Marketing Dept	Technical Dept Stefano Bertoni	STEFANO BERTONI (DTE)
5	01/05/2024	Editing	Marketing Dept	Technical Dept	FABIO FORNI
6	14/05/2024	Editing	Marketing Dept	Technical Dept	ANDREA MICHELINI

4	It indicates that safety measures must be taken to avoid electric shock.
<u>^</u>	It indicates that safety measures must be taken to prevent personal injury.
<u> </u>	It indicates that safety measures must be taken to prevent damage to components.
5555	It indicates that safety measures must be taken to prevent burns due to contact with hot/ overheated surface.
TIP	It indicates useful information before and during the installation step.
	It refers to specific parts of the manual.
43	It refers to the disposal of packaging and end-of-life product

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	VISUAL CHECKS	
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GENERAL INFORMATION

1.1 Introduction

The Safety Gear Units by Montanari Giulio & C. are designed and tested to ensure proper operation. They can be used for lifts and goods hoists.

These operating instructions are an integral part of the safety gear unit and must always be kept within easy reach for consultation.

All persons involved in the installation, operation, maintenance and repair of the unit must read and understand the instructions.

No liability is accepted for damage, breakage or accident caused by failure to follow the instructions provided in this manual.



The safety gear units described herein have been designed and manufactured in accordance with the recognized safety standards and the state of the art technical development applied at the time of printing.

Characteristics of the progressive safety gear:

The brake force is factory-adjusted according to the loads declared by the customer and the surface conditions of the guides.

The safety gear units are prepared and lead-sealed at the factory.

To make technical improvements, Montanari reserves the right, if deemed necessary, to modify the units and accessories, preserving their essential characteristics and improving efficiency and safety.

1.2 Copyright

All rights to these operating instructions belong to Montanari Giulio & C. S.r.l. The information in this manual may not be reproduced or used in an unauthorized manner or made available to third parties without prior permission. If you have any questions, please contact:



MONTANARI GROUP HEADQUARTER - MONTANARI GIULIO & C. Srl Via Bulgaria, 39 - 41122 - Modena - Italia Tel: +39 059 453611 - Fax: +39 059 315890 www.montanarigiulio.com

SAFETY

2.1 Intended use

The safety gear units are manufactured in accordance with the state of the art for safe and reliable use. It is forbidden to tamper with devices or functions designed to prevent accidental contact.

Important: The blocks can be used at any speed below the maximum speed at which they have been certified.



It is forbidden:

- •Use the Safety Gear Units for purposes other than and/or in a manner different from that described in these instructions.
- •To modify totally and/or partially the Safety Gear;

•To change the factory setting;

- •To install two devices with different serial numbers and/or type/model at the same time;
- •To damage the lead seal;
- •To replace/combine parts from different devices;
- •To perform improper maintenance and inaccurate checks;
- •To use unsuitable and/or unofficial spare parts (use only Montanari Giulio & C. parts).

No liability is accepted for any malfunction due to installation not conforming to specifications, except in cases approved by Montanari Giulio & C.

The identification plate shows the serial number and the year of construction (see Fig.1).

The data for calibration are those provided in the order and the serial number is the reference for any detail.

Use is permitted only in accordance with the data provided and as specified in the type-examination.

2.2 Obligations of the user - installer

The responsibility for instructions lies with the company in charge of the work. The operator must ensure that all persons involved in installation, operation, maintenance and repair have read and understood the supplied operating instructions and have adapted to them in order to:

- Avoid damage to property or persons.
- Ensure safe and reliable operation of the unit.
- Avoid breakage and environmental damage due to misuse.

Immediate voidance of the guarantee in case of:

- Use of components other than those installed.
- Any kind of modification on the safety gear unit.

PERSONAL PROTECTIVE EQUIPMENT TO BE USED:

- Protection gloves against mechanical injuries
- Safety shoes



2.3 Before installation

Make sure that the serial number indicated on the plates (both must have the same serial number) and the one shown on the "Testing report" delivered by Montanari Giulio & C.

Check that the characteristics of the system, according to the "Testing Report", are respected and in compliance. In particular, check these characteristics:

• total mass to be braked (P+Q): for progressive safety gears, the actual mass may differ by up to ±7.5%

nominal thickness of the guides

• type of guide surface (machined or drawn)

lubrication of the guide surface (oiled or dry)

These characteristics must be maintained and controlled throughout the life of the installed safety gear.

With particular reference to the "treatment of the quide surface", if lubrication is required, it must be kept efficient and if not, it must never be lubricated.

2.4 Disposal of packaging and end-of-life product

The product consists mainly of steel, cast iron, iron and other materials such as rubber, plastic, etc., which are not particularly hazardous.

For this reason, disposal does not require any special safety procedures other than the conventional ones adopted for this type of waste.

Dispose of the product in compliance with the Environmental and Hygiene Regulations in force in the country it is installed in. Contact a specialised company for disposal.

Please note that the classification of the waste is responsibility of the waste producer himself; In the European Union, for disposal comply with the code 16.02.14 "Discarded equipment, other than those mentioned in 16.02.09 to 16.02.13".

3. IDENTIFICATION AND DATA

3.1 Identification plate

It is located on the outside of the box of both devices; the data shown are indicated in FIG. 1- 2.

FIG. 1 Istantaneous Safety Gears



DESCR	TYPE	Catalogue ref	CODE ART.	Certificate	
	PD 50	TAB 280	AC00000480	EDPD 002	
	PD50/B	IAB 200	AC00001564	EDPD 002/1	
			AC00000878		
	PA 50	TAB 281	AC00000879	EDPD 022	
	FA 30	IAD ZOT	AC00000880		
			AC00000881		
	pus / PB 50	50 TAB 282	AC00000882	EDPD 021	
One-way instantaneous /			AC00000883		
downwards only			AC00000884		
			AC00000886		
			AC00000887		
	PI50	TAB 282.1	AC00000887	EDPD 021	
			AC00000874		
	PL50	TAB 282.2	AC00000875	EDPD 024	
		TAB 282.2	AC00000876		
	PM50		AC00000888	EDPD 008	



FIG. 2 Progressive Safety Gears



DESCR	TYPE	Catalogue ef	CODE ART.	V max tripp.	Certificate	
			AC10001032			
			AC11001032			
	PP16	TAB 284	AC12001032	2 22	EDPD 025	
	FFIO	IAD 204	AC00001032	3,22	EDFD 023	
			AC01001032			
			AC02001032			
One-way progressive	PP35	TAB 285	AC10001033	3,22	EDPD 027	
	FF33		AC00001033	3,22		
	PP65	TAB 286	AC00001035	3,22	EDPD 029	
	KB40	TAB 287	AC00001502	2,88	EDPD 013	
			AC00001503			
		TAB 287.1	AC00001508		EDFD 013	
			AC00001509			
		TAB 283.10	AC00001054			
	PPR25BD	IAD 203.10	AC00001055	2,63	EDPD 020	
Two-way progressive		TAB 283.11	AC00001056			
I wo-way progressive		TAB 283.12	AC00001089			
	PPR40BD	IAD 203.12	AC00001090	2,63	EDPD 006	
		TAB 283.13	AC00001091			

According to UNI EN 81-20, paragraph 5.6.2.2.1.1, here below the rules for overspeed governor used with progressive safety gears.

- Vn= installation nominal speed
- V1= OSG tripping speed.

OSG Tripping speed (V1) has to be ≥115% of Vn and:

- IF NOMINAL SPEED IS ≤ 1m/s: Tripping speed has to be <1,5m/s
- IF NOMINAL SPEED IS > 1m/s: Tripping speed has to be <[1,25*Vn+(0,25/Vn)]



3.2 Standard references

N	Regulation	DESCRIPTION	Tab	
1	1 UNI 10147 Maintenance: Terminology.			
2	2 EN 81-20 Safety regulations regarding the construction and installation of lift used for the carriage of persons and goods.			
3	Safety regulations regarding the construction and installation of lifts			
4 EN 81 - 21 Safety regulations regarding the construction and the installation of new lifts used for the carriage of persons and goods in existing buildings.				

4. TRANSPORT AND STORAGE

4.1 Handling

Different types of packaging can be used, depending on the size and means of transport. Unless otherwise specified, the packaging complies with the HPE quidelines.

It is recommended to verify also the condition of the goods upon receipt. In case of damages do not proceed with installation except for Montanari Giulio & C. authorization. Comply with the symbols on the packaging to prevent damage to property or personal injury. Here are the meanings of the symbols that may appear on the packaging.



Keep dry



Upper side



Fragile



Handle with care



Do not use hooks



Center of gravity



Attachment point



Keep away from heat sources

4.2 Storage



In particular, if the unit is stored outdoors, it should be carefully covered, taking care that no moisture or other foreign matter can accumulate on it.



Supplies for special environmental conditions during transport (e.g. by ship) and storage (climate, termites, etc.) must be contractually agreed.

DESCRIPTION & OPERATION

5.1 General description

The safety gear unit is a safety device that trips when the cab exceeds the rated speed.

The Montanari safety gear units can be one-way or two-way, progressive or instantaneous.

6. INSTALLATION & FIXING

6.1 Arrangements for mounting all safety gear units.

Observe the specified installation distances when planning and positioning (see model specific indications):

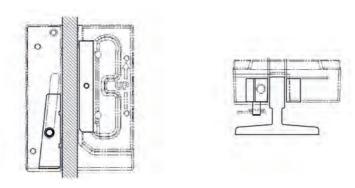
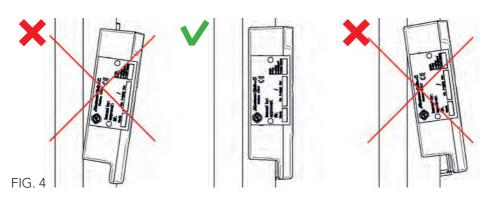
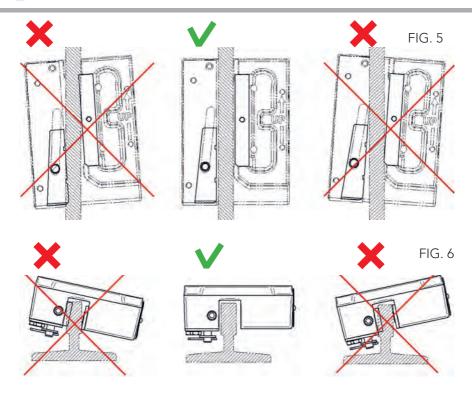


FIG. 3

While mounting, make sure that both devices are aligned with the guides (Fig. 3 - 4 - 5 - 6)









Mount in pairs on the frame of the cab or of the counterweight at the bottom or top (as preferred). Engage your own lever systems to the roller drive lever.

IMPORTANT:

- Normally the safety gear units work in pairs; check that the grip is simultaneous for both blocks.
- In the idle position, the brake elements must not come into contact with the guides.

7. TROUBLESHOOTING, MAINTENANCE AND REPAIR

Periodically, and at least once a year, it is necessary to check the proper functioning.

In case of malfunctioning:

- Stop the system and prevent its use.
- Request instructions indicating the serial number.

7.1 VISUAL CHECKS

After each braking test, visually check the safety gear and check for:

- The absence of obstacles in the movement of the movable wedges and the control levers.
- The absence of deformation on the various parts of the safety gear unit.
- The alignment of the safety guard devices to the guides.
- The presence of metal chips due to test braking; if so, eliminate them.
- The tightening of the fixing screws (depending on the model).

If damage is detected, the safety guard must be replaced and the system must be prevented from functioning. Braking traces, which are usually minor, should preferably be removed by hand using sandpaper or special files without causing excessive marks on the guide.

For anything not specified in this booklet, follow the instructions in the harmonized standards as per the table of the regulatory references.



Tab. 2

	TYPE	RE. Product Catalogue	CODE ART.
	PD50	TAB 280	AC00000480
	PD50/B	IAD 200	AC00001564
			AC00000878
	PA50	TAB 281	AC00000879
	PASU	IAD ZOI	AC00000880
			AC00000881
One-way instanta- neous / downwards only			AC00000882
			AC00000883
	PB50	TAB 282	AC00000884
			AC00000886
			AC00000887
	PI50	TAB 282.1	AC00000887
			AC00000874
	PL50	TAB 282.2	AC00000875
		TAB 282.2	AC00000876
	PM50		AC00000888
	PP16		AC10001032
			AC11001032
		TAB 284	AC12001032
		IAD 204	AC00001032
			AC01001032
0			AC02001032
One-way progres-	PP35	TAB 285	AC10001033
sive	PP35	IAD ZOO	AC00001033
	PP65	TAB 286	AC00001035
		TAB 287	AC00001502
	KB40	TAB 207	AC00001503
	ND40	TAB 287.1	AC00001508
		IAB 207.1	AC00001509
	PPR-	TAB 283.10	AC00001054
	25BD	TAD 203.10	AC00001055
Two-way progres-	2300	TAB 283.11	AC00001056
sive	PPR-	TAB 283.12	AC00001089
	40BD	IAD 203.12	AC00001090
	4000	TAB 283.13	AC00001091

PD50 INSTANTANEOUS, WITH ROLLERS - DOWNWARDS ONLY

RE. Product Catalogue	Cab S m/s	Guide thick- ness H mm	CODE ART.
TAB 280	0,63	8-16	AC00000480

Tab. 3



For lifts and goods hoists with body thickness 50 mm; Recess them in the structure; if this is not possible, set a stopping point. Braking by means of two knurled rollers operating only downwards. Fix through the 4 threaded holes at the side.

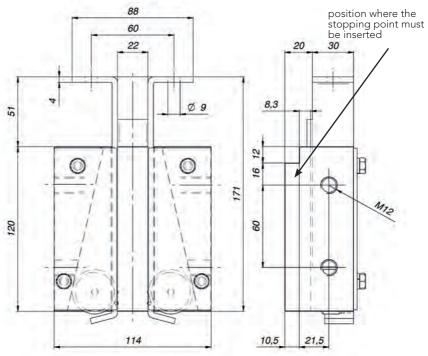


FIG. 7



PD50/B INSTANTANEOUS, WITH ROLLERS - DOWNWARDS ONLY

RE. Product Catalogue	Cab S m/s	Guide thick- ness H mm	CODE ART.
TAB 280	0,63	8-16	AC00001564

Tab. 3.1



For lifts and goods hoists with body thickness 50 mm; Recess them in the structure; if this is not possible, set a stopping point. Braking by means of two knurled rollers operating only downwards. Fix through the 4 threaded holes at the rear.

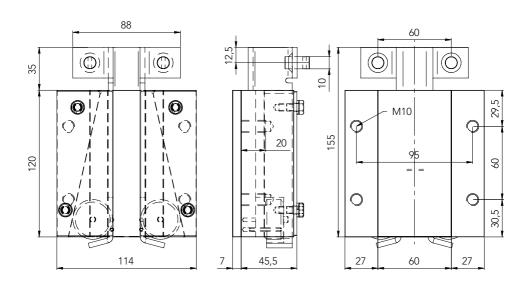


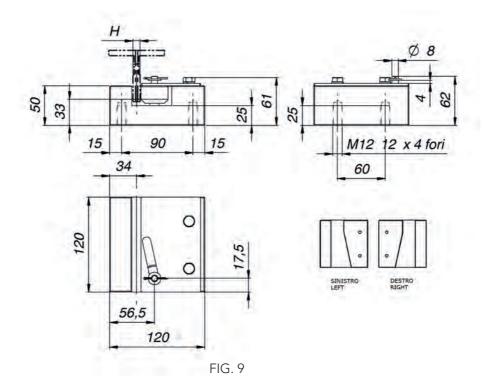
FIG. 8

INSTANTANEOUS WITH ONE ROLLER - DOWNWARDS ONLY PA50

RE. Product Catalogue	Cab S m/s	Guide thick- ness H mm	CODE ART.	Tab. 4
		8	AC00000878	
TAB 281	0 / 2	9	AC00000879	
IAD ZOI	0,63	10	AC00000880	
		16	AC00000881	

For lifts and goods hoists with body thickness 50 mm; set a stopping point. Braking by means of one knurled roller operating only downwards. Fix through the 4 threaded holes at the rear.







PB50 INSTANTANEOUS WITH ONE ROLLER - DOWNWARDS ONLY

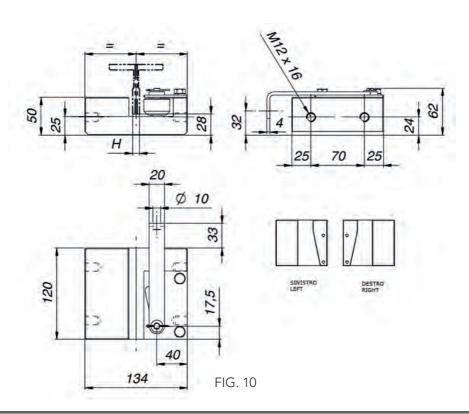
RE. Product Catalogue	Cab S m/s	Tripping S m/s	P + Q max kg	Guide thick- ness H mm	CODE ART.	Tab
			1.885	8	AC00000882	
			1.885	9	AC00000883	
TAB 282	0,63	1	1.813	10	AC00000884	
			3.330	14	AC00000886	
			4.020	16	AC00000886	

b. 5



For lifts and goods hoists with body thickness 50 mm; set a stopping point.
Braking by means of one knurled roller operating only downwards.
Fix through the 4 threaded holes at the side.





INSTANTANEOUS WITH ONE ROLLER - DOWNWARDS ONLY PI50

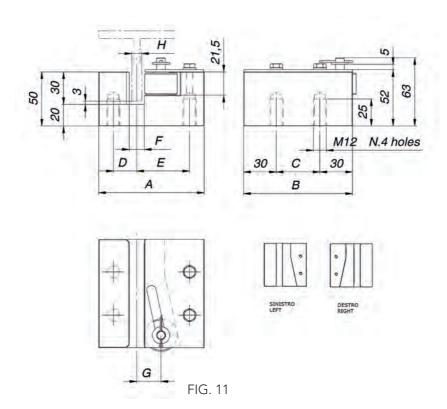
RE. Product	Cab S	Tripping S	P + Q max	Guide thick-	CODE ART.
Catalogue	m/s	m/s	kg	ness H mm	
TAB 282.1	0,63	1	2057	16	AC00000877

Tab. 6

For lifts and goods hoists with body thickness 50 mm; set a stopping point.
Braking by means of one knurled roller operating only downwards.

Fix through the 4 threaded holes at the rear.





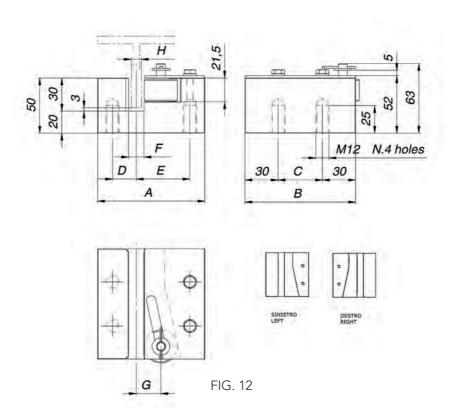


PL50 INSTANTANEOUS WITH ONE ROLLER - DOWNWARDS ONLY

RE. Product Catalogue	Cab S m/s	Tripping S m/s	P + Q max kg	Guide thick- ness H mm	CODE ART.	Tab. 7
			1.188	8	AC00000874	
TAB 282.2	0,63	1	1.188	9	AC00000875	
			1.430	10	AC00000876	



For lifts and goods hoists with body thickness 50 mm; set a stopping point.
Braking by means of one knurled roller operating only downwards.
Fix through the 4 threaded holes at the rear.



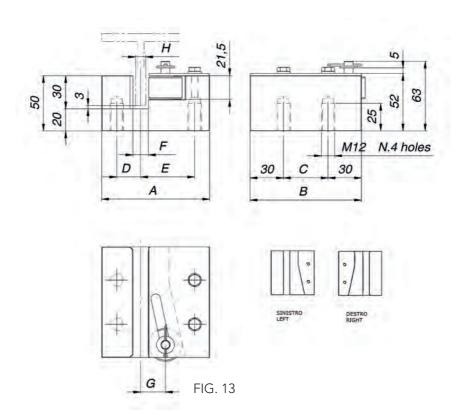
INSTANTANEOUS WITH ONE ROLLER - DOWNWARDS ONLY PM50

RE. Product	Cab S	Tripping S	P + Q max	Guide thick-	CODE ART.
Catalogue	m/s	m/s	kg	ness H mm	
TAB 282.2	0,63	1	1.680	16	AC00000888

Tab. 8

For lifts and goods hoists with body thickness 50 mm; set a stopping point.
Braking by means of one knurled roller operating only downwards.
Fix through the 4 threaded holes at the rear.







PP16 ONE-WAY PROGRESSIVE - DOWNWARDS ONLY

Tab. 9 RE. Product Cab S Tripping S Guide thick- $P + Q \max kq$ L CODE ART. Catalogue m/s m/s ness H mm 180 AC10001032 TOS 580-1480 **TAB 284** 2.8 3.22 8-10 200 AC11001032 LOS 680 - 1650 240 AC12001032

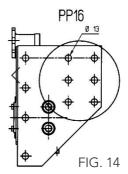
TOS: Dry and lubricated drawn guides LOS: Dry and lubricated machined guides

For lifts and goods hoists.

Braking by means of wedge jaws operating only downwards. Fix through the side plates (standard) or directly with the two bearing pins.

If the side plates are used, the fixing holes are those indicated in Fig.14.





Connect the 2 safety guard units together using a steel torsion bar. The square section must have a 16 mm side.

Fix it with the special sleeves provided.

The length depends on the distance between the guides with the following relation:

Lb = DG - 280

Lb = bar length in mm

DG = distance between the head of the guides

A safety switch (not supplied) must be mounted on the frame to stop the machine at the latest when the safety guard grips. Each frame builder is free to adopt the most appropriate method.

The safe'ty gear activation lever has several holes to which you can attach your connection device to the speed governor rope.

The force to be applied to the lever shall be between 140 and 900 N.

After installation, make sure that the locking wedges move at the same time when the lever is operated.

The guides must be aligned with the safety gear unit.
There must be a clearance of approx. 2 - 2.5 mm on both sides of the guide.

The safety gear unit must be centred with the guide.

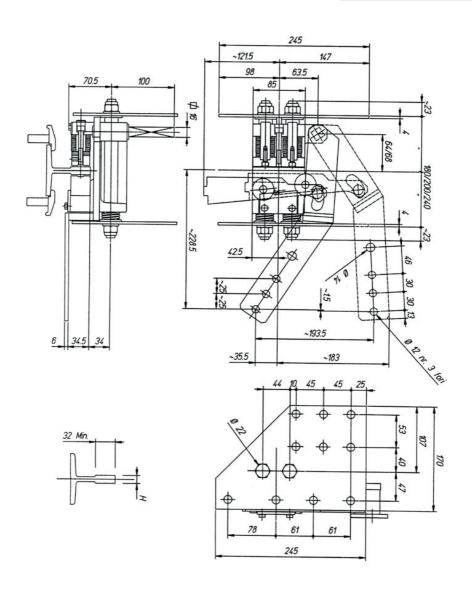


FIG. 15



PP35 ONE-WAY PROGRESSIVE - DOWNWARDS ONLY

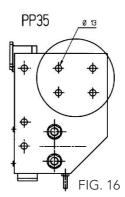
RE. Product Catalogue	Cab S m/s	Tripping S m/s	P + Q max kg	L	Guide thick- ness H mm	CODE ART.	Tab. 10
TAD 205	2.0	2 22	TOS 620-3290 LOS 670 - 3870	240	9-10	AC10001033	
TAB 285	2,8	3,22	LOS 670 - 3870	240	12-16	AC00001033	

TOS: Dry and lubricated drawn guides LOS: Dry and lubricated machined guides

For lifts and goods hoists.

Braking by means of wedge jaws operating only downwards. Fix through the side plates (standard) or directly with the two bearing pins. If the side plates are used, the fixing holes are those indicated in Fig.16





Connect the 2 safety guard units together using a steel torsion bar. The square section must have a 16 mm side.

Fix it with the special sleeves provided.

The length depends on the distance between the guides with the following relation:

1b = DG - 195

Lb = bar length in mm

DG = distance between the head of the guides

A safety switch (not supplied) must be mounted on the frame to stop the machine at the latest when the safety guard grips. Each frame builder is free to adopt the most appropriate method.

The safety gear activation lever has several holes to which you can attach your

connection device to the speed governor rope.

The force to be applied to the lever shall be between 140 and 900 N.

After installation, make sure that the locking wedges move at the same time when the lever is operated.

The guides must be aligned with the safety gear unit. There must be a clearance of approx. 2 - 2.5 mm on both sides of the guide. The safety gear unit must be centred with the guide. Use the adjustment screw to move it.

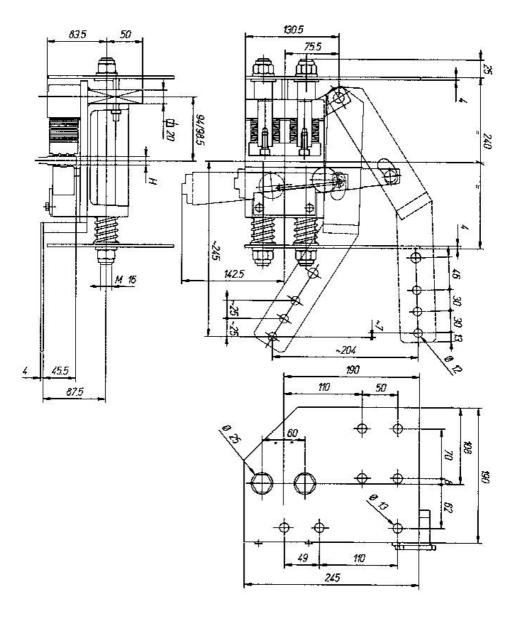


FIG. 17



PP65 ONE-WAY PROGRESSIVE - DOWNWARDS ONLY

RE. Product Catalogue	Cab S m/s	Tripping S m/s	P + Q max kg	Guide thick- ness H mm	L	CODE ART.	Tab. 11
TAD 204	2.0	2 22	TOS 1620 - 6450	14 - 16	260	AC00001035	
TAB 286	2,8	3,22	LOS 2080 - 6370	14-10	200	AC00001035	

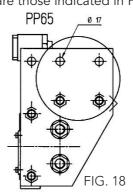
LOS: Dry and lubricated machined guides TOS: Dry and lubricated drawn guides

For lifts and goods hoists.

Braking by means of wedge jaws operating only downwards. Fix through the side plates (standard) or directly with the two bearing piece.

tes (standard) or directly with the two bearing pins. If the side plates are used, the fixing holes are those indicated in Fig. 18.





Connect the 2 safety guard units together using a steel torsion bar. The square section must have a 16 mm side.

Fix it with the special sleeves provided.

The length depends on the distance between the guides with the following relation:

Lb = DG - 210

Lb = bar length in mm

• DG = distance between the head of the guides

A safety switch (not supplied) must be mounted on the frame to stop the machine at the latest when the safety guard grips. Each frame builder is free to adopt the most appropriate method.

The safety gear activation lever has several holes to which you can attach your con-

nection device to the speed governor rope.

The force to be applied to the lever shall be between 140 and 900 N.

After installation, make sure that the locking wedges move at the same time when the lever is operated.

The guides must be aligned with the safety gear unit.

There must be a clearance of approx. 2 - 2.5 mm on both sides of the guide.

The safety gear unit must be centred with the guide. Use the adjustment screw to move it.

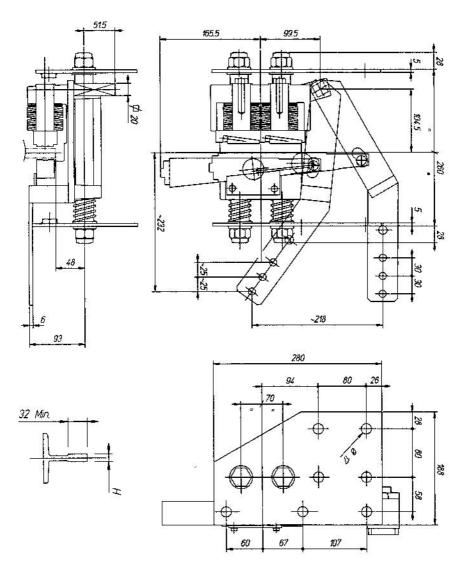


FIG. 19



KB40 ONE-WAY PROGRESSIVE - DOWNWARDS ONLY

Frame	RE. Product Catalogue	CODE ART.	Guide thickness H mm	Cab V m/s	Tripping V m/s	P + Q max kg	Force on drive pin N
Contilouer	TAB 287	AC00001502	11 - 16		2,88		
Cantilever	IAD 207	AC00001503	7 - 10	2			Min: 150 Max: 900
Standard -	TAB 287.1	AC00001508	11 - 16		2,00		
	IAB 287.1	AC00001509	7 - 10			TO 626 - 2813	

Tab. 13

LS: Dry drawn guides

LO:Lubricated drawn guides

TS: Dry drawn guides

TO: Lubricated drawn guides

It is used to stop the cab or the counterweight (only downwards) when exceeding

the tripping speed set on the relative speed governor.

Each braking device consists of a movable wedge and a sliding shoe supported by disc springs that regulate the braking force.

The sliding of the movable wedges activates the safety gear tripping.

The brake force is factory-adjusted according to the loads declared by the customer and the surface conditions of the guides.

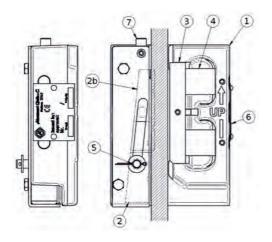


FIG. 20

Tab. 14

КВ40								
N° ref.	Description							
1	Safety go	ear body						
	Movable	e wedge						
2	а	b						
	Idle position	Stop posi- tion						
3	Sliding	g shoe						
4	Calibrate	d springs						
5	Control pin							
6	Plate							
7	Adjusting screw							

IMPORTANT

Depending on the type of frame (chair or central) and the distance between the sliding shoes of the cab and the guide, check how and where the safety gear units are mounted.

In the event of activation, the movable wedge and the sliding shoe of the safety guard unit must be free to move.

The best mounting solution is the floating one because the two devices are free to move orthogonally to the axis of the guides, being fixed to a support that allows this movement and at the same time ensures the right mechanical resistance

• Note: for the chair-type frames (guides on the side with respect to the cab) it is possible to mount the KB40 devices in a fixed way, observing the direction of assembly shown below and leaving the right distances between the cab sliding shoes and the guides.

• For the central frames (guides in the centre with respect to the cab) a fixed

installation with respect to the frame is forbidden.

The KB40 safety gear devices can be mounted either at the top or bottom of the frame according to the diagrams in Fig.24-25.

The travel of the control levers at the actuation pin must be equal to or greater than 65 mm from the idle position. With reference to the regulations in force, check the correct assembly, adjustment and solidity of the whole.

ASSEMBLY AND REGULATION

Observe the specified installation distances when planning and positioning (Fig. 21) and make sure that both devices are aligned with the guides.

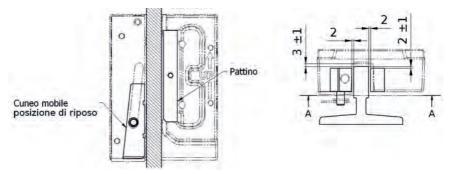
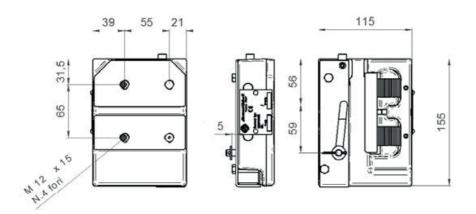


FIG. 21



DIMENSIONS TAB.287



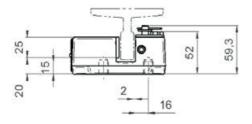


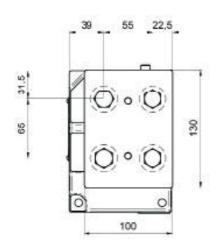
FIG. 22

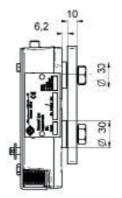


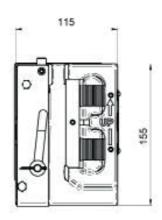
Chair-type frame

DIMENSIONS

TAB.287.1







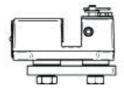


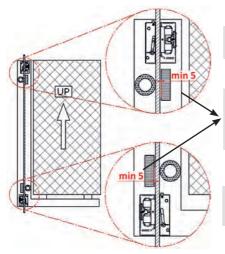
FIG. 23



Standard frame



Mounting diagrams: Chair-type frame



Devices mounted at the top: The spring assembly faces the cab.

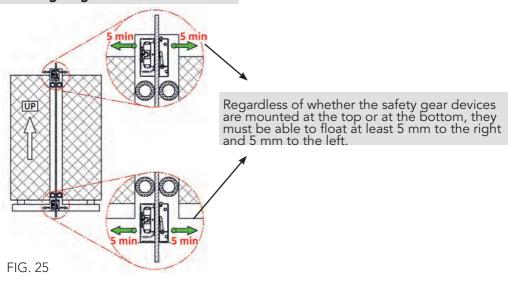
The cab sliding shoe facing the spring side of the device must have a minimum clearance of 5 mm with respect to the guide.

Devices mounted at the bottom:

The movable wedge faces the cab.

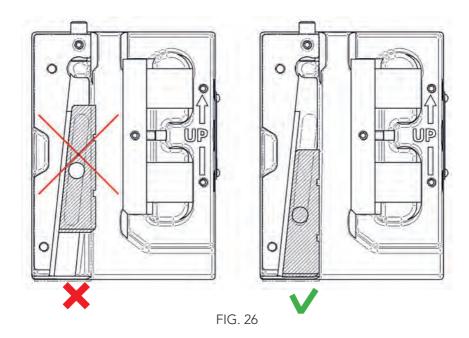
FIG. 24

Mounting diagrams: Central frame



Synchronization and adjustment of the control lever

All the adjustments described (unless otherwise indicated) must be carried out with the movable wedge in the idle position. (Fig. 26)



After the installation of the KB40 safety guard devices and of the control levers, it is mandatory to check that:

When the control levers are in the "standard operation" position the movable wedges are in the idle position; otherwise, the levers must be adjusted.
the levers must be adjusted by operating the control levers until the movable

 the levers must be adjusted by operating the control levers until the movable wedges and the sliding shoes come into contact with the guide. The strokes of the movable wedges must be the same, otherwise the levers must be adjusted.



PPR25/40BD TWO-WAY PROGRESSIVE - UPWARDS/DOWNWARDS

TYPE	Frame	RE. Product Catalogue	L	CODE ART.	P + Q max kg	Cab V m/s	Tripping V m/s	Guide thick- ness H mm
	Cantile-	: I I A B / B 3 I I I	180	AC00001054	TO 568 - 3002 TS 605 - 2864 LO 716 - 2561 LS 601 - 2919 TO 3002 - 3997 TS 2865 - 4009 LO 2562 - 4662 LS 2920 - 4638		2,63	8- 16
PPR- 25BD	vered		240	AC00001055				
2300	Standard	TAB283.11	90/120	AC00001056		2.29		
	Cantile-		180			2,29 2,03	0-10	
40BD	vered		240	AC00001090				
	Standard	TAB 283.13	-	AC00001091				

Tab. 15

LS: Machined and non - lubricated guides

LO:Machined and lubricated guides

TS: Drawn and non lubricated drawn guides TO: Drawn and lubricated guides

For lifts and goods hoists.

Braking by means of knurled roller and insert operating downwards and upwards. Fix through the side plates (standard) or directly with the two bearing pins. If the rear support (e.g. hydraulic frame) is not necessary, just use the rear fixing holes.

Connect the 2 safety guard units together using a steel torsion bar.

The square section must have a 20 mm side.

Fix it with the special sleeves provided.

The length depends on the distance between the guides with the following relation:

Lb = DG - 210

• Lb =bar length in mm

• DG = distance between the head of the guides

Other systems can also be used to connect the two safety guard units as long as the two rollers are instantaneously activated.

A safety switch **(not supplied)** must be mounted on the frame to stop the machine at the latest when the safety guard grips.

The block activation lever is located at a distance of 130 mm from the axis of the guide.

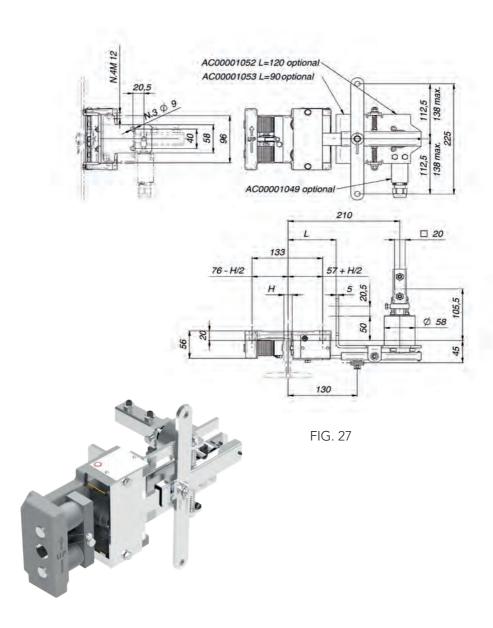
The force to be applied to the lever shall be between 140 and 900 N.

After installation, make sure that the locking rollers move at the same time when the lever is operated.

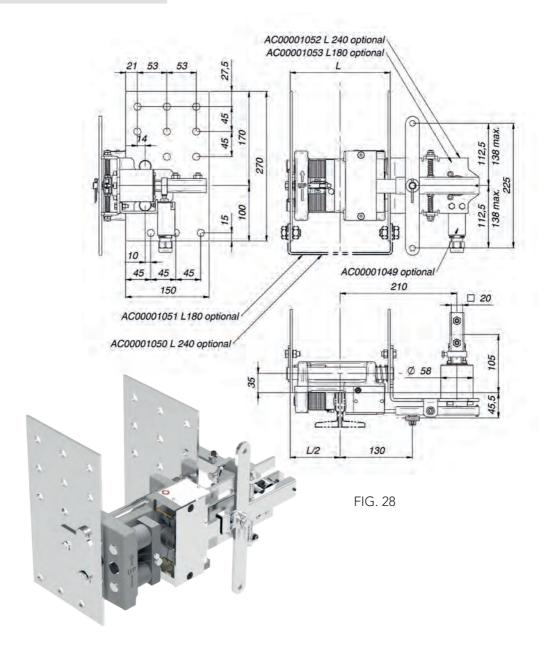
The guides must be aligned with the safety gear unit.

There must be a clearance of approx. 2 mm on either side of the guide.

The safety gear unit must be centred with the guide. Use the adjustment screw to move it. The tripping speed of the governor operating the safety guard must not be greater than 2.6 m/s







IMPORTANT

Depending on the type of frame (chair or central) and the distance between the sliding shoes of the cab and the guide, check how and where the safety gear units are mounted.

In the event of activation, the movable wedge and the sliding shoe of the safety guard unit must be free to move.

The best mounting solution is the floating one because the two devices are free to move orthogonally to the axis of the guides, being fixed to a support that allows this movement and at the same time ensures the right mechanical resistance.

- Note: for the chair-type frames (guides on the side with respect to the cab) it is possible to mount the PPR25/40BD devices in a fixed way, observing the direction of assembly shown below and leaving the right distances between the cab sliding shoes and the guides.

 • For the central frames (guides in the centre with respect to the cab) a fixed
- installation with respect to the frame is forbidden.

The PPR25/40BD safety gear devices can be mounted either at the top or bottom of the frame according to the diagrams in Fig. 24 - 25.

The travel of the control levers at the actuation pin must be equal to or greater than +-32,5 mm from the idle position.

With reference to the regulations in force, check the correct assembly, adjustment and solidity of the whole.



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