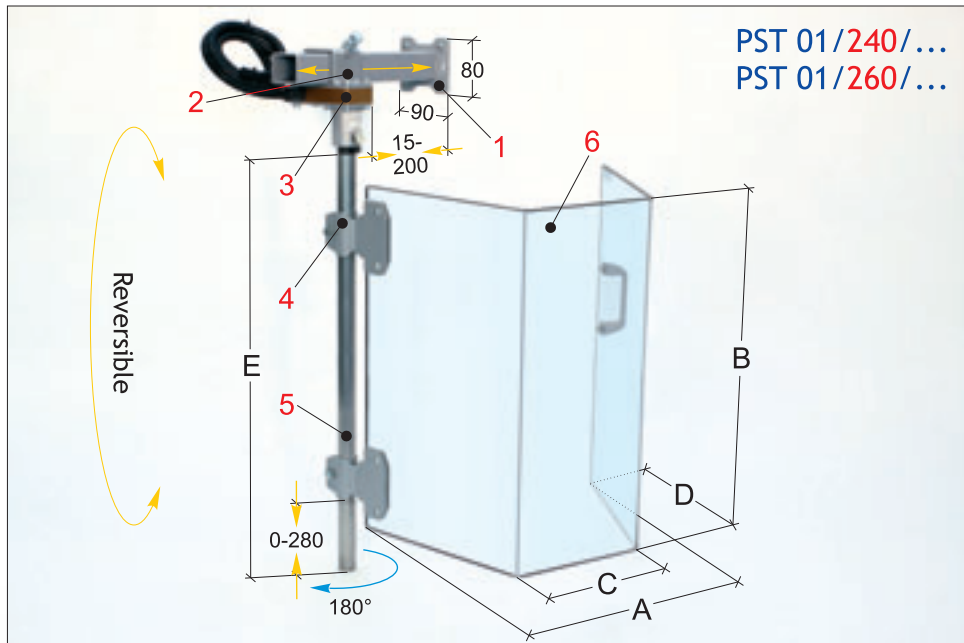


Safety guard for Slotting - Broaching machines

Item characterized by the vertical reversibility of the support system, for an easy installation on the most different machines - Available in two dimensions



Protects the operator from direct contact with alternate moving parts of the vertical slide and from the projection of shavings.

Thanks to its reversibility it is attachable on the right or left flank of the base, in addition with the high or low support group - Equipped with a completely transparent monolithic shield. Complete with safety microswitch.

- **Note:** Specify the mounting side by adding the suffix: /DX = Right - /SX = Left.

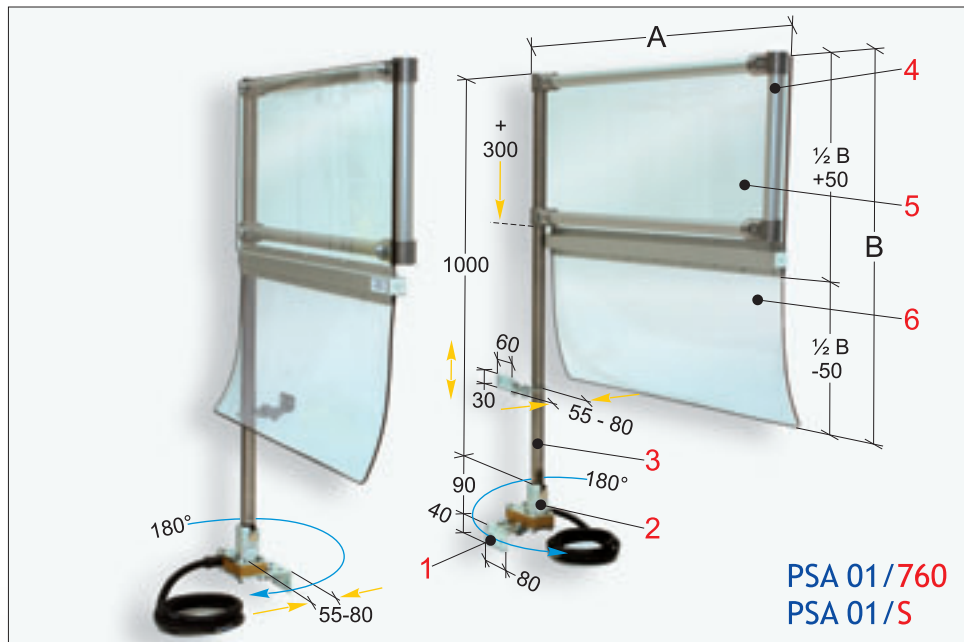
- 1 Levelling anchorage stirrup - in tubular steel
- 2 Depth-adjustable safety guard support
- 3 Safety microswitch main box - 180° rotation - n.2 NC contacts
- 4 Adjustable shield-arm fixing clamps - in pressed steel
- 5 Vertical shield support arm - in tubular stainless steel
- 6 Semi-hexagonal monolithic shield - in thick plastic shockproof and oil-resistant material



Code	A	B	C	D	E
PST 01/240	400	400	200	250	600
PST 01/260	400	600	200	250	800

Safety guard for alternative Saw

Made from two elements to be fixed on the flanks of the base - Equipped with panels subdivided into two sections, the lower one is shapeable for passage of rods



Protects the operator from direct contact with alternative moving parts of the cut group accessible sideways as well as from the projection of metallic parts that could be generated. Posteriorly attachable on the two sides of the base - The shields are subdivided into two sections, the lower one is made of flexible Pvc, to be potentially shaped for the passage of rods in working. Complete with safety microswitch.

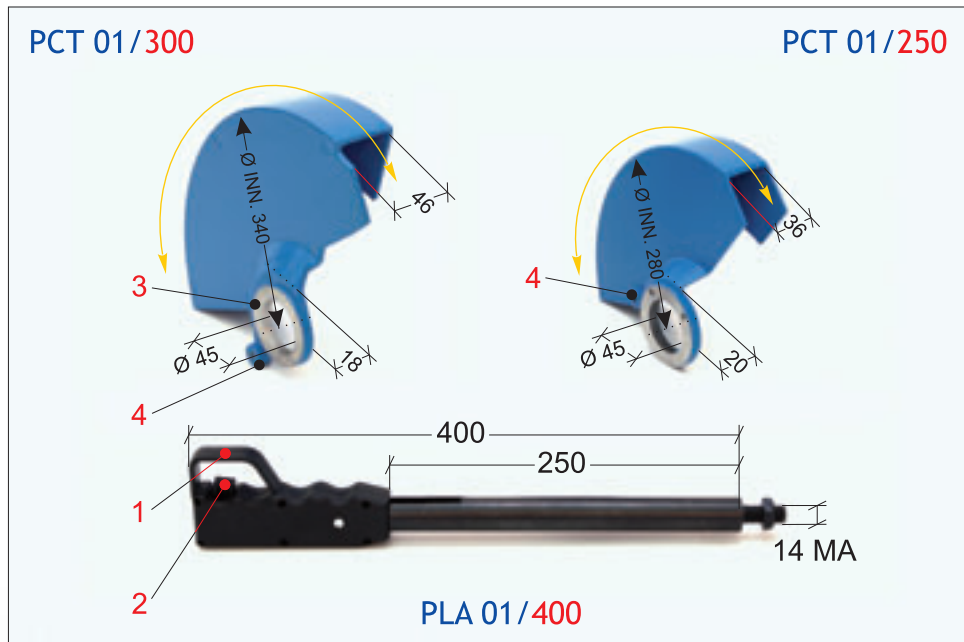
- 1 Adjustable angular anchorage stirrup - in pressed steel
- 2 Safety microswitch main box - 180° rotation - n.2 NC contacts
- 3 Vertical shield support arm - in tubular stainless steel
- 4 Shield structure in tubular aluminium
- 5 Upper section of shield in plastic shockproof and oil-resistant material
- 6 Lower section of shield in flexible Pvc, shapeable for the passage of rods



Code	A	B
PSA 01/760	700	600
PSA 01/S

Various devices for metal Miter Saw

Command device and mobile safety guards, for machines lacking typical safety systems of the metal miter Saw



Universal items to apply to metal miter Saws, lacking typical safety systems of such machines.

The items: PCT 01/250 - PCT 01/300 are made of pressure-fused aluminium, they represent the mobile part of the complete safety guard, that must be integrated with the fixed part, normally already present on the machine or to be done opportunely - The mobile safety guard rotates automatically during the descent of the disc, thanks to the reaction arm fixed between the guard, (point 4) and the machine's fixed structure.

- **Note:** For a sure compatibility check with the machine, it is advised to examine all the dimensions indicated, particularly the dimensions of the rotation collar: (point 3).

PCT 01/250 = Safety guard with Ø maximum of a 250 mm disc - PCT 01/300 = Safety guard with Ø maximum of a 300 mm disc.

PLA 01/400 = Universal command lever for Miter saws, equipped with ergonomic handle, with guard ring and pushbutton with contact: (3 Pin) - COM - NO - NC

- 1 Ergonomic handle with guard ring
- 2 Pushbutton with contact (3 Pin) COM - NO - NC
Contact rate: 16(4) A 250VAC 1E4 - 12(4) A 250VAC 5E4
- 3 Safety shield rotation collar
- 4 Reaction arm fulcrum point (not provided)

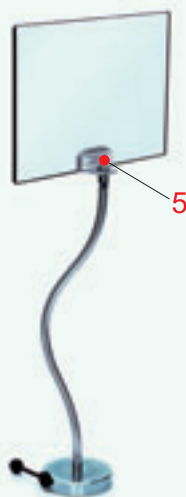
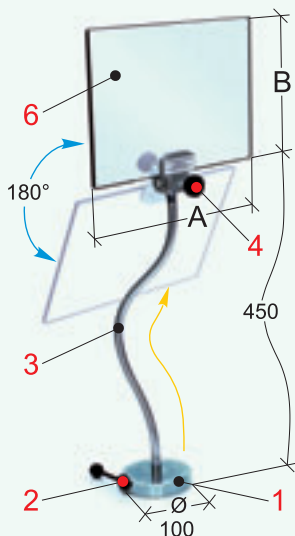


Safety guards with magnetic Base

Versatile magnetically-fixed item, offered in two versions:
With adjustable shield on flexible arm - With adjustable shield also with joint

PBM 11/320 - PBM 11/325

PBM 10/320 - PBM 10/325



Protects the operator's face from the projection of emery, dusts and small parts generated during operations.

Equipped with a powerful magnetic base with eccentric disconnection lever.

To be used on bases of machines and flat iron surfaces - Offered in two versions: **PBM 10/...** with shield adjustment by the single flexible arm - **PBM 11/...** with shield adjustment by flexible arm and articulated joint.

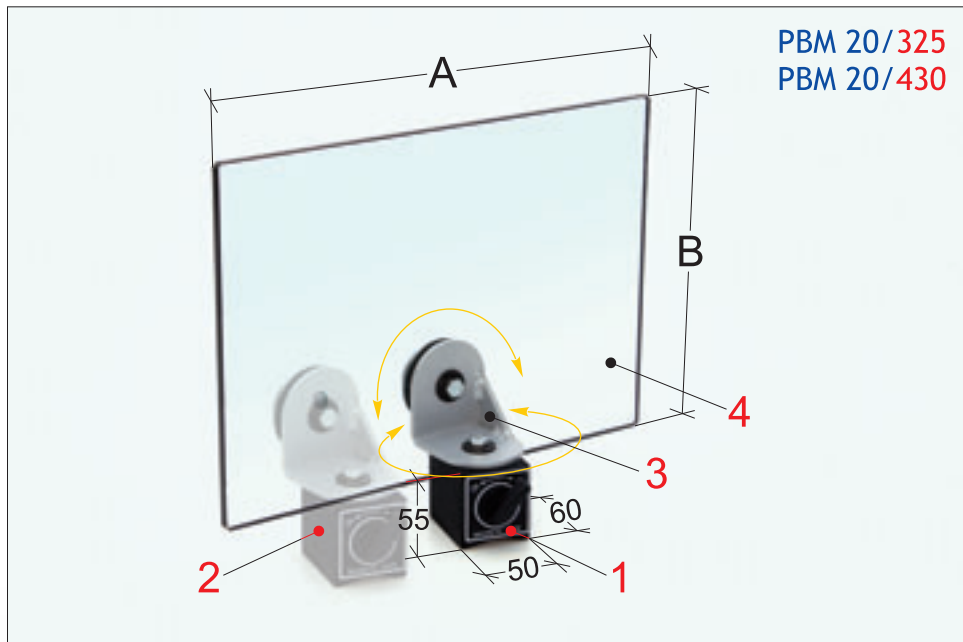
- 1 Magnetic base Ø 100 mm. - force of attraction 55 Kg.
- 2 Eccentric disconnection lever
- 3 Flexible articulated arm
- 4 Shield support clamp equipped with articulated joint and locking knob
- 5 Shield support clamp without joint
- 6 Shield in plastic shockproof and oil-resistant material



Code	A	B
PBM 10/320 - PBM 11/320	300	200
PBM 10/325 - PBM 11/325	350	250

Safety guard with magnetic Base

Universal magnetically-fixed safety guard, provided with adjustable shield on two positions - Magnetic base insertable with appropriate selector



Protects the operator's face from the projection of emery, dusts and small parts generated during operations.

Equipped with a magnetic base with insertion selector - To be used on bases of machines and flat iron surfaces - Shield made of plastic shockproof and oil-resistant material, supplied with double fixing position and angular coupling for an easy positioning.

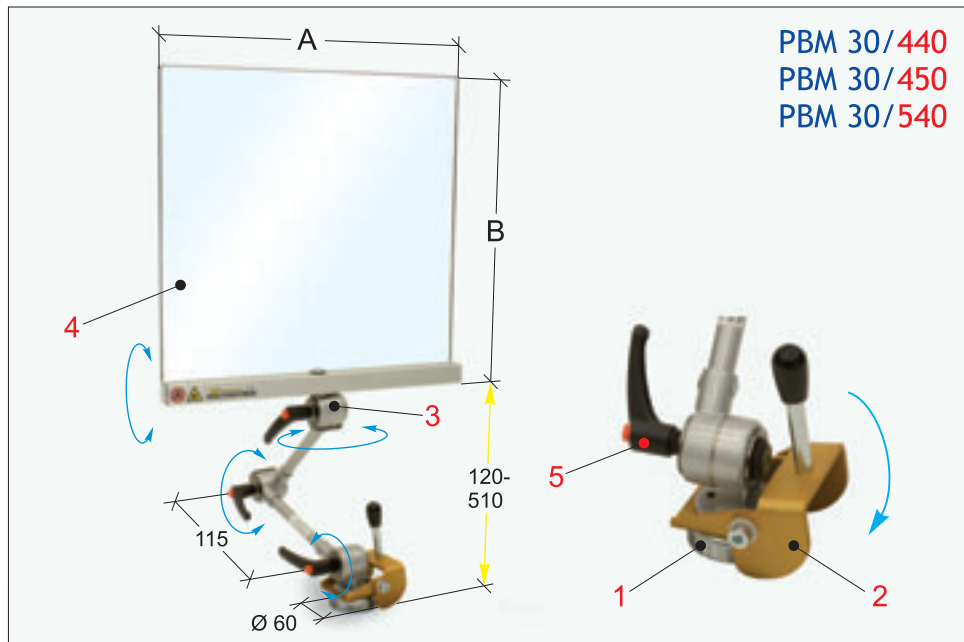
- 1 Magnetic base dim. 50x60 mm. with insertion selector - force of attraction 40 Kg.
- 2 Lateral mounting position of magnetic base
- 3 Rubbing angular coupling - in pressed steel
- 4 Shield in plastic shockproof and oil-resistant material

Code	A	B
PBM 20/325	350	250
PBM 20/430	400	300



Safety guard with magnetic Base

Universal magnetically-fixed safety guard - The only one to be also positioned vertically, thanks to the powerful Neodymium magnet - Complete with release lever



PBM 30/440
PBM 30/450
PBM 30/540

Magnetic fastening item for universal use, suitable to be used on metal work surfaces and machinery bases - Its numerous articulations allow a shield positioning in any direction: vertically - horizontally "flag type" - with its upper end in contact with the base.

Its features make it suitable for general use: to grind - to assembly small components from possible accidental "projection" - extempored situations where rapidity of intervention is required and where a safety guard with electric interlock is not specifically requested.

The powerful fastening Neodymium magnet can be used in any situation, even in vertical position or hanging from above.

- 1 Support base with Neodymium magnet Ø 60 mm - force of attraction 110 Kg
- 2 Detachment eccentric cam of magnetic base
- 3 Support arm with double articulation, for complete shield adjustment
- 4 Shield in plastic shockproof oil-resistant material, with aluminium structure
- 5 Knobs for articulations lock

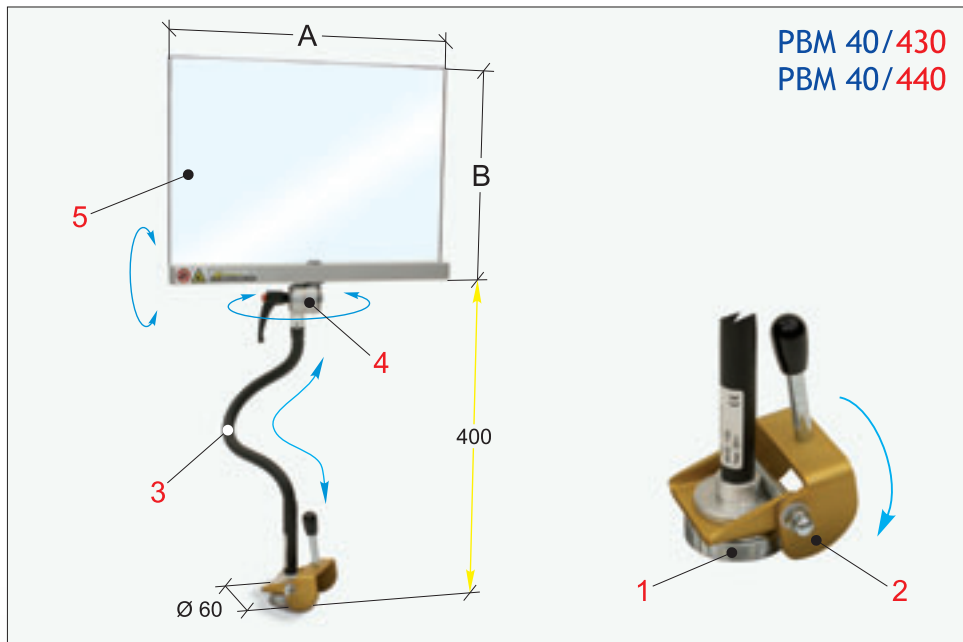


Code	A	B
PBM 30/440	400	400
PBM 30/450	400	500
PBM 30/540	500	400



Safety guard with magnetic Base

Universal safety guard with multi-adjustable shield supported by a flexible arm
Equipped with a powerful Neodymium magnet complete with release lever



Magnetic fastening item for universal use, suitable to be used on metal work surfaces and machinery bases. The support flexible arm, equipped with double final articulation, allows the shield to be adjusted in any direction until its tip reaches the base.

Its features make it suitable for general use: to grind - to assembly small components from possible accidental "projection" - extempored situations where rapidity of intervention is required and where a safety guard with electric interlock is not specifically requested.

The powerful fastening Neodymium magnet can be used in any situation, even in vertical position or hanging from above.

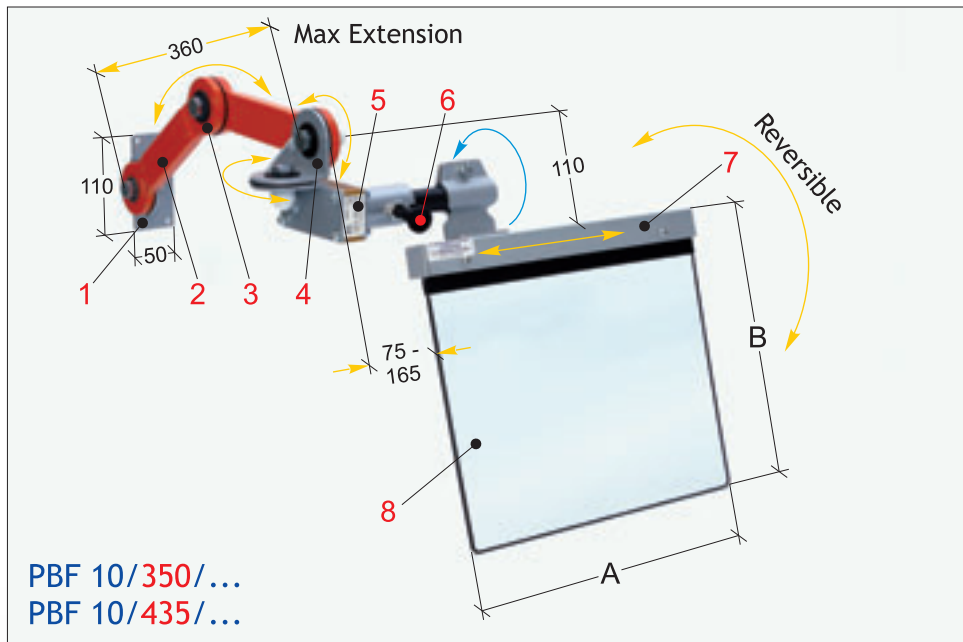
- 1 Support base with Neodymium magnet Ø 60 mm - force of attraction 110 Kg
- 2 Detachment eccentric cam of magnetic base
- 3 Metal flexible arm, with external plastic material covering
- 4 Double articulation for complete shield adjustment
- 5 Shield in plastic shockproof oil-resistant material, with aluminium structure



Code	A	B
PBM 40/430	400	300
PBM 40/440	400	400

Safeguard for hydraulic Presses and various machines

Universal rubbing articulated arms guard, with reversible opening direction
Practical and immediately adjustable - Designed for frequent changes of operation



Protects the operator from direct contact with dangerous parts frontally segregated by the shield.

Frontally attachable to the machine - Equipped with wide “visibility” reversible opening shield: vertical or horizontal and left or right, with position-release knob - Available with safety microswitch.

- **Note:** Specify the mounting side by adding the suffix: **/DX** = Right - **/SX** = Left

- Available accessories: PBA01/190 - PBA01/325 - PBA02/325

- 1 Angular anchorage stirrup - in pressed steel
- 2 Articulated arms in tubular steel
- 3 Rubbing articulation with friction disc
- 4 Angular junction for vertical turnover of the shield
- 5 Main box with 180° rotation and safety microswitch with n.2 NC contacts (optional)
- 6 Shield-opening release knob
- 7 Shield structure in aluminium profile
- 8 Shield in plastic shockproof and oil-resistant material

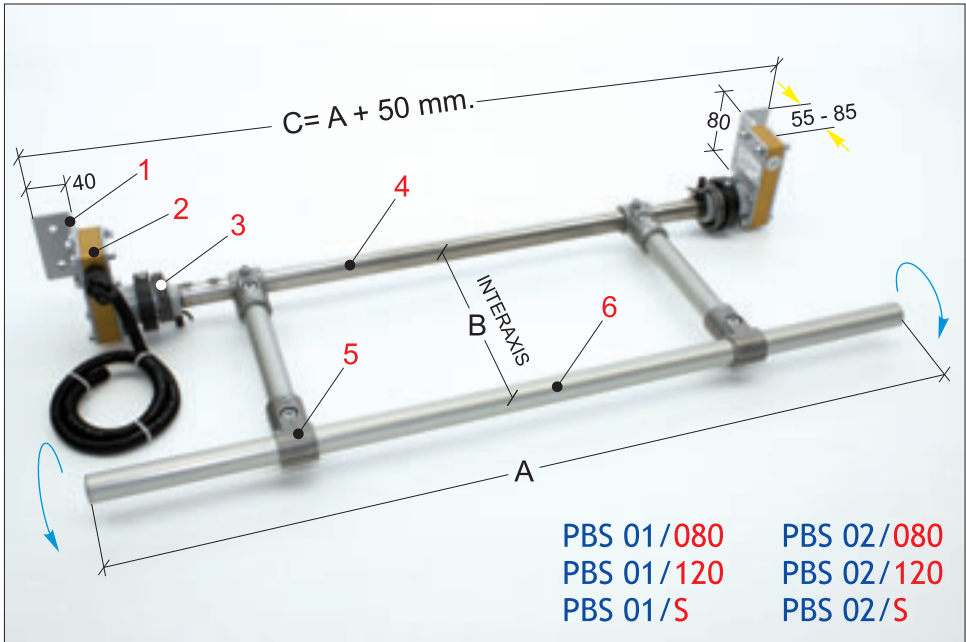
Code	A	B
PBF 10/350	350	300
PBF 10/435	400	350





Safety bar for various Machines

Solid and versatile device, to be used as Stop - Start - Emergency system
Operated with arms or feet - Also customized on request



Multi-function item, particularly strong and with various adjustments, suitable for use on different types of machines - Based on the purpose for which it is installed, it allows to operate the "Stop - Start" system, for the simple stopping and-or starting routine, or the "emergency" system for unexpected dangerous situation - Available with single microswitch, code **PBS 01/...** (assembled on the Left box and, if necessary, shifted on the Right) or with double microswitch, code **PBS 02/...**

Item designed to be mounted near the ground for being operated with feet (typical emergency function), or in raised position.

Equipped with adjustment of microswitch action.

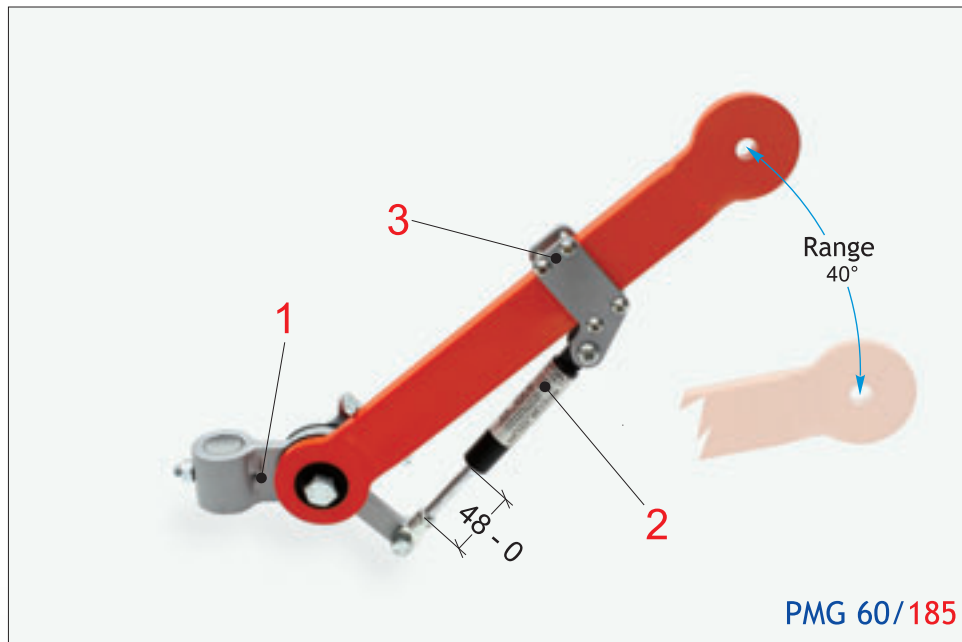
- 1 Adjustable angular anchorage stirrups - in pressed steel
- 2 Main boxes, equipped with one or two safety microswitches - n.2 NC contacts
- 3 Spiral springs for the bar recall in resting position
- 4 Connection bar - in tubular stainless steel
- 5 Clamps for adjustment of manoeuvre bar
- 6 Manoeuvre bar - in tubular aluminium



Code	PBS 0../080	PBS 0../120	PBS 0../S
A	800	1200
B	250	250

Balance Kit

Complete kit for the increase in manoeuvrability of all articulated arms safety guards
Ideal for frequent changes in operation



Allows an increase in manoeuvrability of all safety guards originally equipped with articulated arms support system - Complete with all the necessary accessories and bolts, including the support clamp (point 1).

The kit is equipped with a gas spring (point 2) charged with a force of 60 Kg. (average value to understand a good part of the cases of use), axially adjustable along the articulated arm, thanks to the particular clamp (point 3), this determines the operation range of the spring, corresponding to an angle of about 40° - The effect of the spring auto-suspension implies a reduced clamping of the first joint, (obviously the most subject to the effects of gravity) with consequent reduced physical force for the adjustment and smaller mechanical stress of the component.

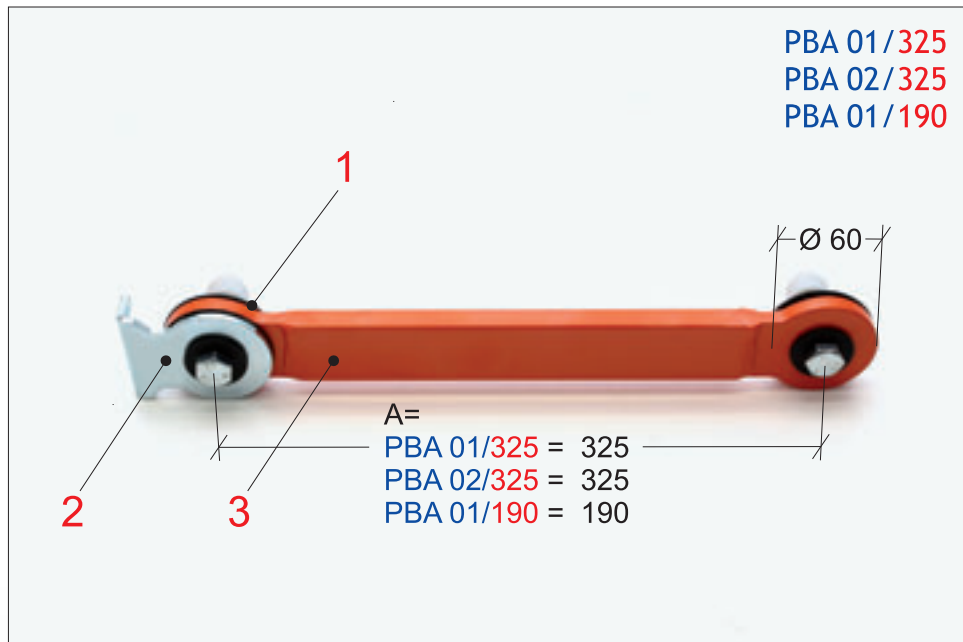
- **Note:** The use of the PMG 60/185 Kit, thanks to its auto-suspension effect, contributes to a better functionality of the additional arm kits: PBA01/325 - PBA01/325.

- 1 Gas spring support clamp, to replace the original - in welded steel
- 2 Gas spring loaded to 60 Kg.
- 3 Connection clamp with articulated arm, in pressed steel



Additional articulated arms Kits

Complete kits proposed for the expansion of the range of action of all the safety guards equipped with rubbing articulated arms - Available in various configurations



Increases the shield range of action of all the items originally equipped with the articulated arms support system - Complete with all the necessary accessories and bolts - Available in three versions, according to the range and the rigidity requested:

PBA 01/325 = Simple articulated arm, wheel base 325 mm.

PBA 02/325 = Reinforced articulated arm (composed of two side by side arms) wheel base 325 mm.

PBA 01/190 = Simple articulated arm, wheel base 190 mm.

- **Note:** Item **PBA 02/325** thanks to its rigidity is recommended to increase the range of action of safety guards with shield of a certain volume and weight, as well as all situations where it is considered necessary to increase the “locking” degree of the system and friction of the first arm.

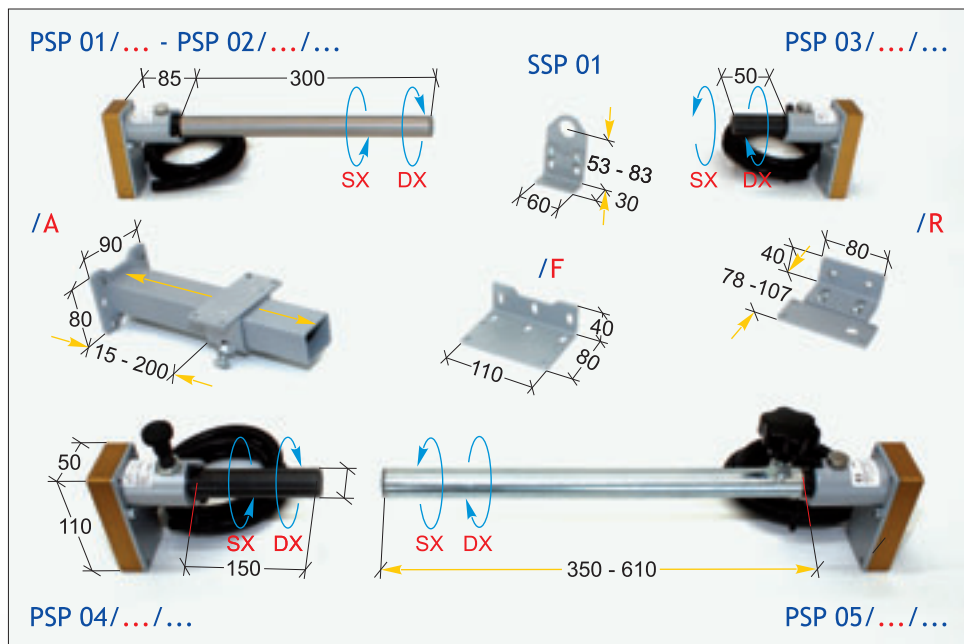
Other available accessories: the balancing kit with spring: **PMG 60/185** is designed to better support heavy safety guards and to facilitate frequent vertical adjustments, therefore achieving an increase in the holding of the first arm.

- 1 Friction disc Ø 60 mm - in pressed brake lining
- 2 Joint opposition plate - in pressed steel
- 3 Additional articulated arm - in tubular and discs in welded steel



Complete support Groups

Complete shield support kits, available as replacements of the originals and for the production of special safety devices - Available in various configurations



Shield support kits, complete with safety microswitch box, available as replacements for standard safety guards and for the production of special devices:

PSP 01/... = Group with microswitch box with 90° rotation - arm L=300 mm.

PSP 02/.../... = Group with microswitch box with 180° rotation - arm L=300 mm.

PSP 03/.../... = Group with microswitch box with 180° rotation - hub L=50 mm.

PSP 04/.../... = Group with microswitch box with 180° rotation - arm L=150 mm. and unlocking knob of position 0° and 180°

PSP 05/.../... = Group with microswitch box with 180° rotation - telescopic arm L=350 mm.

SSP 01 = Adjustable angular stirrup for the support of the terminal part of the arm Ø 25 mm.

- **Note:** Indicate the type of anchorage stirrup desired completing in the central part of the code the corresponding suffix:

/A = Heavy-type levelling anchorage stirrup.

/F = Frontal and lateral anchorage stirrup.

/R = Adjustable lateral anchorage stirrup.

- **Note:** Specify the operation direction of the microswitch indicating in the final part of the code the suffix: **/DX** = Right - **/SX** = Left

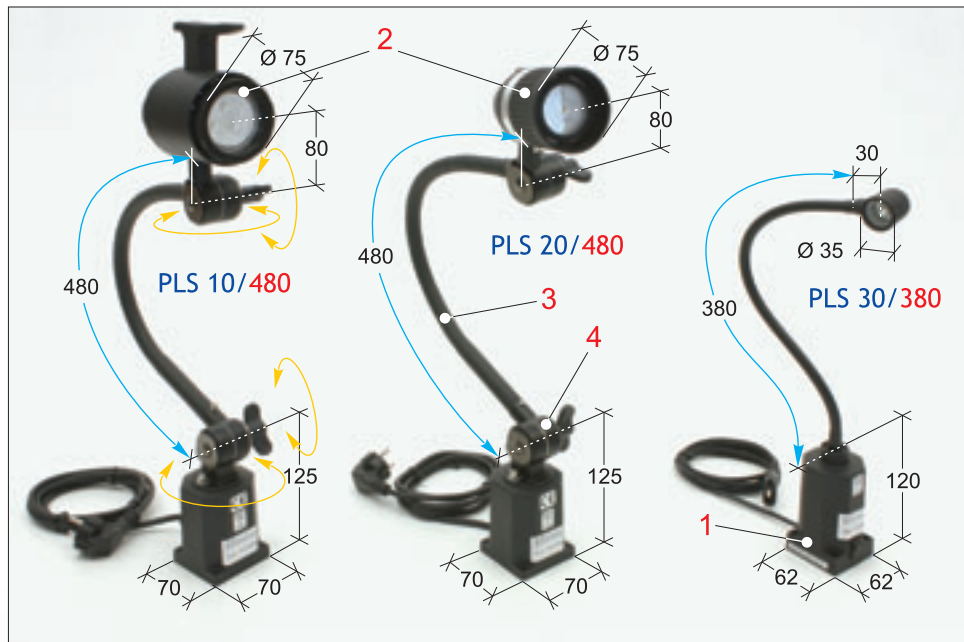
- **Note:** All versions are equipped with microswitch of n.2 NC contacts.

- **Example code:** **PSP 02/F/SX** = Group with microswitch box with 180° rotation - arm L=300 mm - Frontal and lateral anchorage stirrup - Operating microswitch on left side - n.2 NC contacts.



Adjustable lamps for general use

Equipped with led floodlight - Suitable to be used on general machines and on work benches, according to applications foreseen in the directive EN 1837



Series of lamps suitable for different uses, immediately positionable thanks to the flexible arm and the various frictionable articulations - Available in different configurations and one supply voltage (110÷230V-AC) - Complete with incorporated transformer and white led floodlight, with 40.000 hours estimated lifetime.

PLS 10/... = Suitable for industrial environments, in particular on tooling machines.

Led Floodlight 3W - Light beam angle 30° - Protection degree IP65 - Supply voltage 110÷230V-AC.

PLS 20/... = Suitable for general machines and work benches.

Led Floodlight 3W - Light beam angle 30° - Protection degree IP20 - Supply voltage 110÷230V-AC.

PLS 30/... = Suitable for small tooling machines and locations for precision works.

Led Floodlight 1W - Light beam angle 45° - Protection degree IP55 - Supply voltage 110÷230V-AC.

- Spare parts:

PLS 10/L30 = Complete led group - 3W - **PLS 10/FST** = Standard neutral filter, Ø 65 mm.

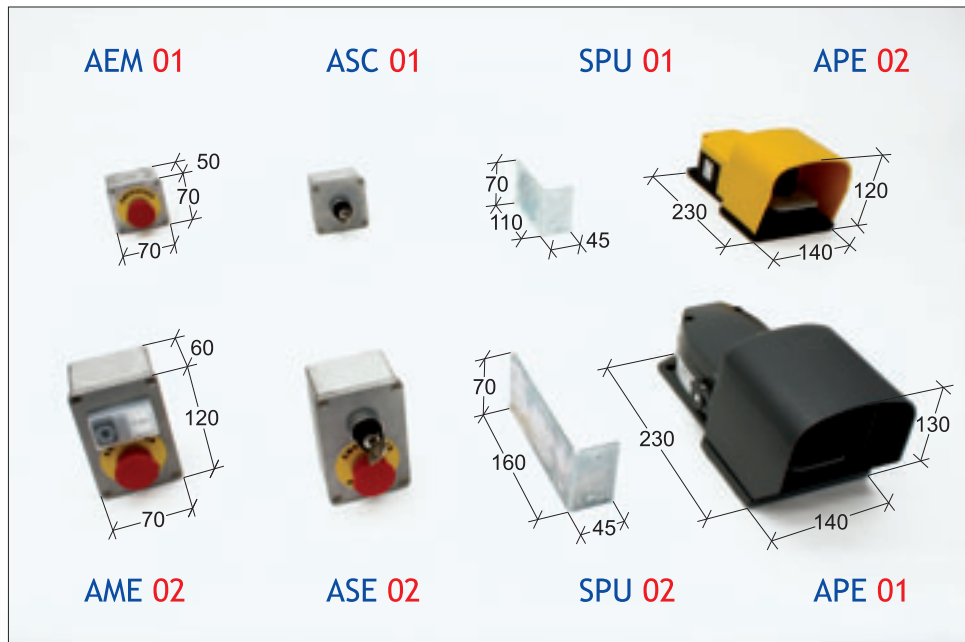
PLS 20/L30 = Complete led group - 3W - **PLS 20/FST** = Standard neutral filter, Ø 50 mm.

- **Note:** On request, all models are available with flexible arm of different sizes.

- 1 PLS 30/... Plastic supporting base, equipped with light switch
- 2 PLS 10/... - PLS 20/... Led floodlight with rear light switch
- 3 Metal flexible arm, with protective plastic sheath
- 4 Adjustable articulation, frictionable or lockable in their seat

Electrical control Devices

Control unit and complementary accessories, proposed in “heavy” configuration
Made to fulfill the electrical safety requirements



Pushbutton station and foot switches made in pressure-fused aluminium, complete with accessories and available with angular anchorage stirrups.

AEM 01 = Single operator pushbutton station, with mushroom-shaped Emergency pushbutton, with n.1 NC contact - Yellow label Ø60 "Emergency".

ASC 01 = Single operator pushbutton station, with Selector of two stable positions 0-1 with extractable key, with n.1 NC contact.

AME 02 = Two-operators pushbutton station, with Start-Stop-Light pushbutton, (n.1 NC contact + n.1 NO contact) - mushroom-shaped Emergency pushbutton (n.1 NC contact) - Yellow label Ø60 "Emergency".

ASE 02 = Two-operators pushbutton station, with Selector of two stable positions 0-1 with extractable key (n.1 NC contact) - mushroom-shaped Emergency pushbutton (n.1 NC contact) - Yellow label Ø60 "Emergency".

SPU 01 = Angular anchorage stirrup, for single operator Pushbutton station - in pressed steel.

SPU 02 = Angular anchorage stirrup for two-operators Pushbutton station - in pressed steel.

APE 01 = Heavy-type Foot switch with lever against accidental operations - in aluminium pressure die-casting - n.1 NC contact + n.1 NO contact.

APE 02 = Foot switch with lever against accidental operations - in thermoplastic resin - n.1 NC contact + n.1 NO contact.

- Complementary accessories for pushbutton stations:

ANC 01 = supplementary NC contact - **ANO 01** = supplementary NO contact.



Electrical safety Devices

Safety microswitches, suitable for general use and replacement for standard safety devices
Meets requirements for current regulations - Equipped with forced-opening contacts



Safety microswitches proposed in various configurations:

MCE 01 = Safety microswitch with separated actuator, with release electromagnet: (free actuator with excited electromagnet) - supply 24 VAC-DC - n.2 NC contacts - complete with straight and bent key (original replacement of some production safety devices with sliding doors).

MCH 01 = Safety microswitch with separated actuator, light version - n.2 NC contacts - complete with straight and bent key (original replacement of some production safety devices with sliding doors).

MCP 01 = Safety microswitch with separated actuator, heavy-duty version - n.2 NC contacts - complete with straight and bent key (original replacement of some production safety devices with sliding doors).

MCI 02 = Hinge for door support and safety shield, integrated with safety microswitch - n.2 NC contacts - connectable with item **CCI 01** (original replacement of some production safety devices).

MPR 02 = Small-roller safety microswitch in metal, with pre-wired cable of 2 mt. - n.2 NC contacts (original replacement for some production devices, equipped with "microswitch box").

MPI 02 = Small-piston safety microswitch in metal, with pre-wired cable of 2 mt. - n.2 NC contacts (original replacement for most devices equipped with "microswitch box").