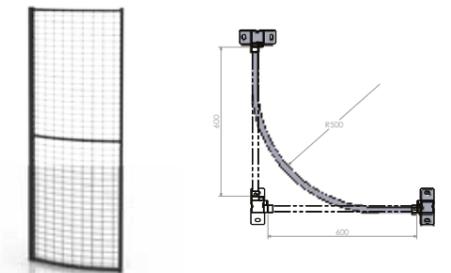




## X-Guard® Contour

In 2012 Axelent launched an unique machine guard with round corners, X-Guard Contour. The new, rounded panels are part of our X-Guard series so they are easily combined with other parts of the same series. Read more about it's benefits below in "Space-saving".



### Axelent X-Guard® Contour

The panels come in three different heights, 1300, 1900 and 2200 mm, and in two angles, 45° and 90°.

Standard panels come in colour RAL 9011 but can be customized to specific requirements.

*For more information see product facts on p 12.*

# X-Guard® – a completely new way of thinking for machine guarding

X-Guard is a completely new range of machine guard that complies with the Machinery Directive's demands on permanent guards from 29 December, 2009 (see pages 31-33).

With its wide range of standard components and accessories, X-Guard is guaranteed to cover all possible machine guard needs. Now we also have a new machine guard, X-Guard Contour, which is the first machine guard with round corners.

### Safe

Axelent's machine guards are designed to fulfil all the demands put on a functional machine guard.

### Functional and smart

In addition to safety, it is vital that our products work as smoothly as possible. Our machine guards have many smart solutions to facilitate the flows in and around the machines that require this type of protection.

### Simple

Our machine guards are built around a standard design with regard to panels, posts, accessories and colour. This makes it easier for you to complement existing guards if required.

### Complete

X-Guard machine guards are available in mesh panel sections or sheet plate and plastic sections (see pages 12-13). Axelent's large selection of doors, locks and accessories offer a complete machine guard solution tailored to your needs.

### Cost-effective

Smooth and easy handling, together with speedy delivery and assembly, always gives you a good overall economy when choosing Axelent's machine guards.

### A machine guard that grows

X-Guard was launched in 2008, since then new dimensions in panels, posts and accessories have been added. We listen to our customers to enable us to develop the range as new needs arise.

### Space-saving

It may seem like only a small improvement, but nobody has previously dared to veer from the traditional machine guard design with 90° right angles.

By opening ourselves to new shapes we allow the machine guards to be an attractive yet integrated part of the whole. With X-Guard Contours more 'friendly' design, you don't have to deal with square corners that take up unnecessary space, and you'll get a machine guard that smoothly fits in the production environment.



We have listened to the market and followed the machine makers' lead by giving our products a new dimension that embraces design and function.

**MATERIALS**  
**Handling** *Working with ease...*  
PTY LTD

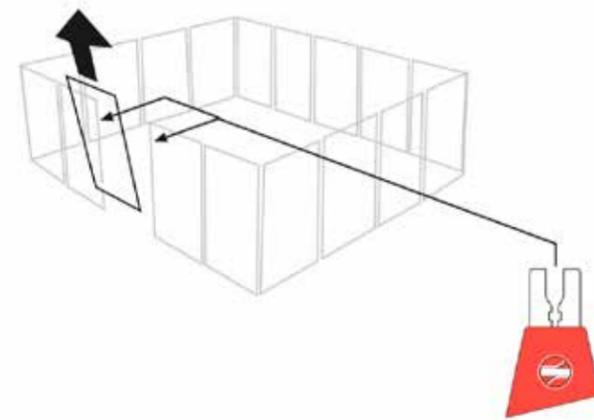
Our website: [www.materialshandling.com.au](http://www.materialshandling.com.au)  
Phone us: 1300 25 84 07 Fax us: 1800 68 68 96  
Email us: [sales@materialshandling.com.au](mailto:sales@materialshandling.com.au)

**Australia Wide Sales and Service**



**X-Key**

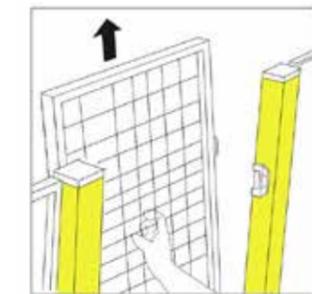
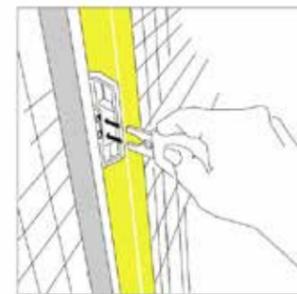
A unique key designed for the rapid release of a panel. Forget all other tools. The X-Key is all you need. More info can be found on page 22.

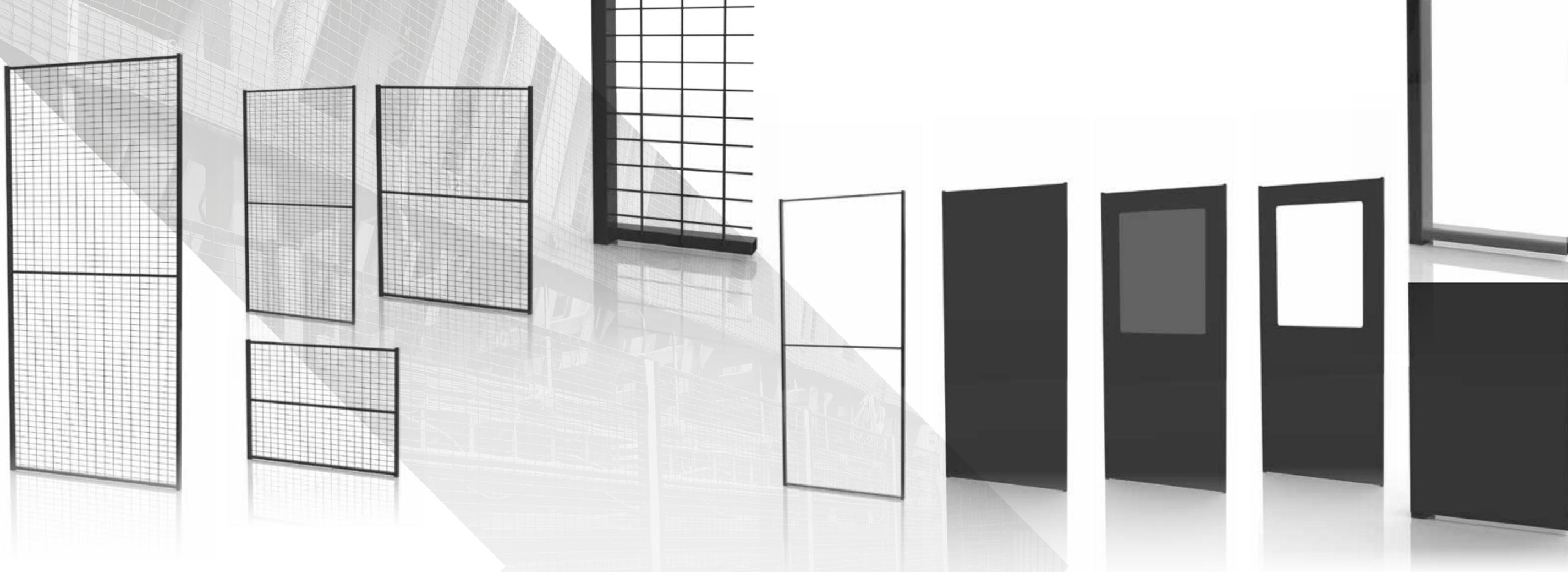


## X-Guard® – a flexible system with extremely smart solutions

Doors and panels are designed to ensure you can switch whenever necessary. You can change hinge and lock handing with a simple operation. This means you can quickly change the machine guard as and when the need arises.

Use the X-Key, place it into the upper fitting, push it to the side and the panel will come loose. Done!





# X-Guard® - Mesh, Plastic and Metal

## Mesh

Our mesh panels provide sufficient protection in most industrial environments. The panels come in a variety of widths and heights, as specified on the product sheet.

### PRODUCT FACTS MESH PANELS

Safety distance	120, 200 mm
Uprights	30x20 mm
Horizontals	25x15 mm
Posts	50x50, 70x70 mm
Vertical wires	Ø 3 mm
Horizontal wires	Ø 2.5 mm
Mesh aperture	50x30, 50x20 mm
Finish	Phosphatising/Epoxy paint
Colour mesh panel	Black RAL 9011
Colour post 50x50	Yellow RAL 1018, black RAL 9011, blue RAL 5005, red RAL 3020
Colour post 70x70	Yellow RAL 1018

(other colours can be quoted)

**Axelent's standard colours**

Posts		Panels	
			
Yellow RAL 1018	Red RAL 3020	Black RAL 9011	
			
Black RAL 9011	Blue RAL 5005		

## Sheet metal and plastic

Some environments require a more comprehensive protection in the form of plastic or sheet metal covered walls. X-Guard Plastic and Sheet Metal System is easy to assemble and you can use the same posts and door packages as for our mesh products. In order to avoid gaps between the section and post we recommend that you use our custom edging plate.

The plastic walls are heat resistant up to 60 degrees and available with clear or green coloured plastic, the last-mentioned as a protection for welding flare. Our green coloured plastic meets fire safety standards UL 94 V0 and also EN 1598.

The sections are available in 2 heights and various widths which are shown on a separate leaflet.

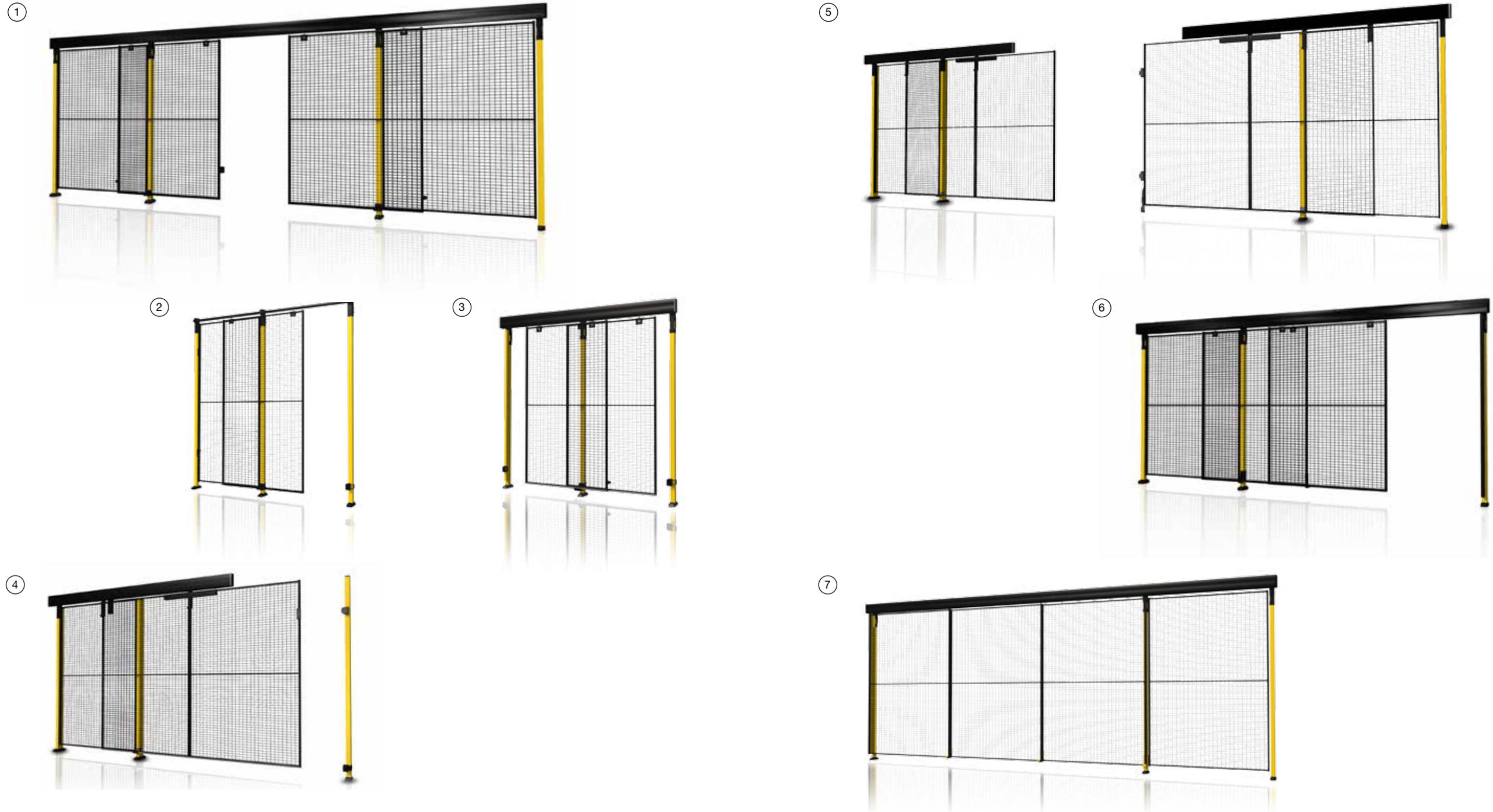
### Panel with window

This new panel replaces previous systems that combined half sections of sheet and plastic. These panels are used when you wish to monitor a certain process.

### PRODUCT FACTS MESH PANELS PLASTIC AND SHEET PANELS

Uprights	30x20 mm
Horizontals	25x15 mm
Plastic	2 mm (thermoplastic polyester)
Sheet	0,8 mm
Posts	50x50, 70x70 mm
Colour panel	Black RAL 9011
Colour post	Yellow RAL 1018, black RAL 9011, blue RAL 5005, red RAL 3020
Colour post 70x70	Yellow RAL 1018

(other colours can be quoted)



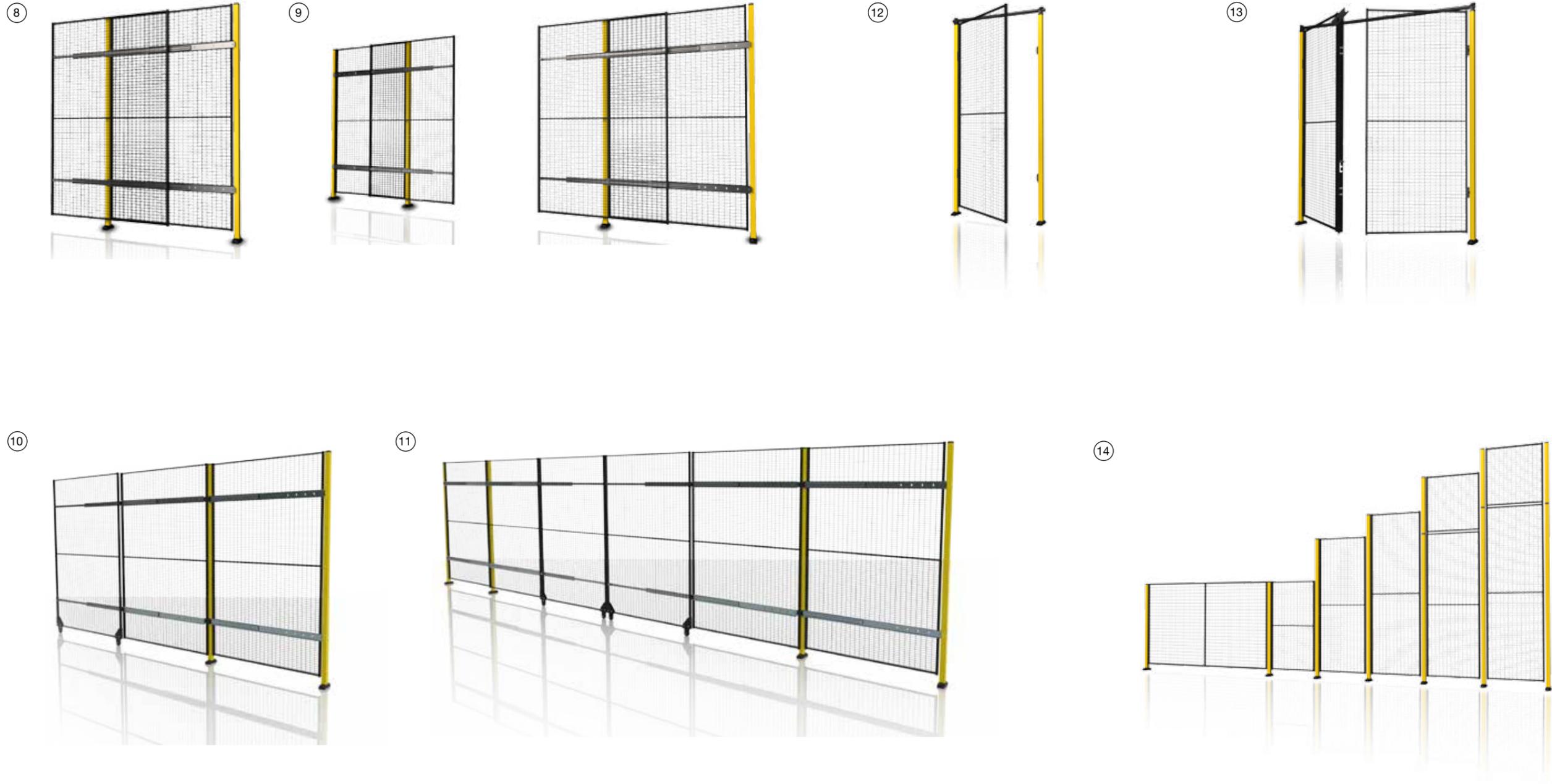
## X-Guard® - Doors

- ① Sliding door with centre lock, perfect solution when there is limited space and the door should be placed in the middle of a wall. Maximal width is 5900 mm.
- ② Single sliding door, can be built from max opening 5700 mm.
- ③ Double sliding door, for cramped areas and for two feed positions from the machine. Available in sizes up to 2x2900 mm.

- ④ Single sliding door without rail, has an opening of 3 metres and no upper limitation. The door is perfect when handling large volumes carried by overhead crane or forklift. Maximum width 3000 mm and maximum height 2300 mm.

- ⑤ Sliding door without rail, has an opening of 6 metres and no upper limitation. The door is perfect when handling large volumes carried by overhead crane or forklift. Maximum width 2x3000 mm and maximum height 2300 mm.
- ⑥ Double sliding door with 2-step rail, is used where a large opening is required but where there is limited space at the side. The panels overlap each other instead of sliding to the side. Maximum width 2x1500 mm and maximum height 2300 mm.

- ⑦ Triple sliding door with 3-step rail, is used where a large opening is required but where there is limited space at the side. The panels overlap each other instead of sliding to the side. Maximum width 3x1500 mm and maximum height 2300 mm.



## X-Guard® - Doors

- ⑧ Single sliding door without rail. An ideal solution for an opening with no overhead obstruction and where the need for a large opening isn't necessary. Maximum widths 900 mm and 1400 mm, maximum height 2300 mm.
- ⑨ Double sliding doors without rail, with centre lock. An ideal solution for an opening with no overhead obstruction and where the need for a large opening isn't necessary. Maximum widths 1800 mm and 2800 mm, maximum height 2300 mm.
- ⑩ Sliding doors without rail, with centre lock. An ideal solution for an opening with no overhead obstruction and where the need for a large opening is necessary. Maximum widths 1900 mm and 2900 mm, maximum height 2300 mm.
- ⑪ Sliding doors without rail, with centre lock. An ideal solution for an opening with no overhead obstruction and where the need for a large opening is necessary. Maximum widths 3800 mm, 4800 and 5800 mm, maximum height 2300 mm.

## X-Guard® - Doors & Heights

- ⑫ Single hinge door, max opening 1500 mm.
- ⑬ Double hinge door, access for wider goods, pallet truck etc max opening 2x1500 mm.
- ⑭ The panels come in a variety of widths. The heights are 750, 1300, 1900 and 2200 mm.

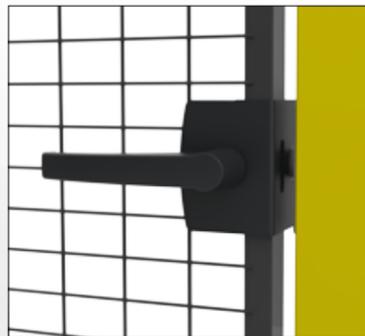


# Locks

## Hitch lock (large photo)

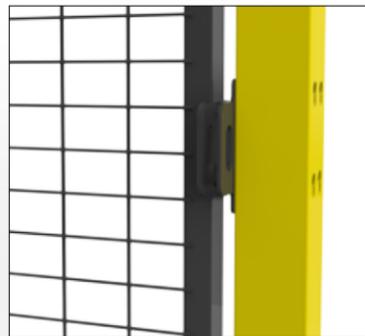
This lock is an alternative to our X-lock and has an integrated mounting for non-contact switches. The lock has an adjustable hitch for eliminating any internal play.

The handle is spring-loaded to remove the ability of the door to automatically fully close. To fully shut the door requires deliberate operation of the handle eliminating accidental closure. Euro cylinder locking is available as an option. With this variant the key should be carried with the engineer into the cell to prevent accidental closure.



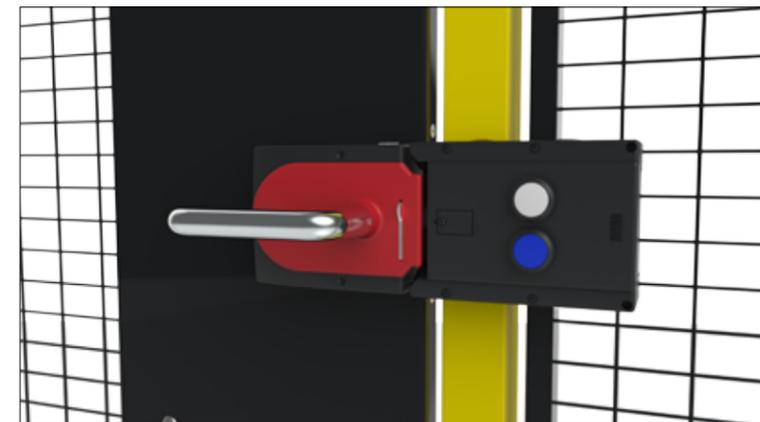
### Snap lock

The door closes with a simple push and is kept closed by the built-in catch.



### Pad lock

Our most simple lock system. A normal hinge lock secure the area from being entered by unauthorized.



### Euchner MGB

The MGB (Multifunctional Gate Box) is a unique inter- and guard locking system for the protection of safety doors on machines and systems. Four LEDs indicate information about the lock status.

The lock has an intelligent plunge whose position is detected by an RFID transponder which has a unique code. This prevents tampering while allowing the MGB meets EN ISO 13849-1 / SIL 3 according to EN 62061.



### Cylinder lock

Burglar-proof lock system with easy grip handle.



### Panic lock

A lock with cylinder can be used as an emergency exit and means of escape where maintenance access is required. Doors with panic lock can always be opened from the inside, even when locked by key from the exterior.



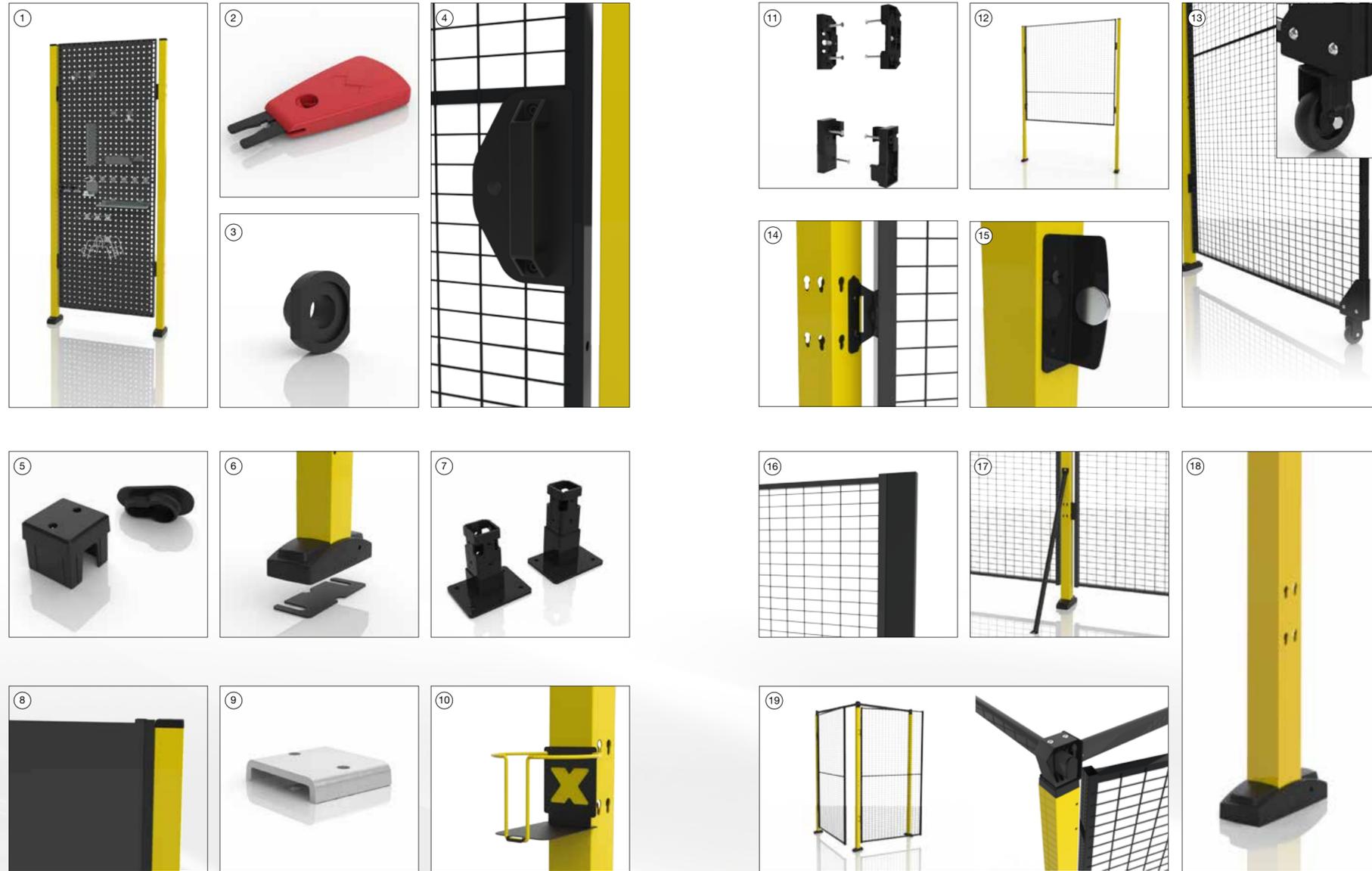
### X-Lock

A versatile door lock system that suits all our accident prevention series. X-Lock has a mechanical bolt that holds hinged and sliding doors closed. The lock is designed so that it requires conscious action to open and close the door from the outside. From the inside X-Lock can not be closed, but it is always possible to open.

To prevent the machine from being started accidentally, there is a plate with three holes on the side of the X-Lock where you can secure a padlock when the door is opened. This ensures the highest safety during safety work, etc. For X-Lock EN ISO 12100 chapter 5.5.3. is applicable.

## Switch/ Emergency Stop

Axelent collaborates with several market leaders within the sector, including Allen-Bradley GuardMaster, Euchner, Jokab, Telemecanique and Siemens. This gives us a wide range to offer our customers for the safest and most optimum solution possible.



## X-Guard® - Accessories

- 1 **Tool panel** - X-Guard Toolpanel's can be used in environments where operators need storage and quick access to tools while operating machinery. The panel is available in a 700 mm width and heights of 1900 and 2200 mm. The panel is compatible with X-Guard systems and comes in our standard RAL 9011 colour but is also available in special colours upon request. Many accessories are available for Toolpanel.
- 2 **X-Key** - A unique key for quick panel release. Forget about tools. All you need is X-Key. X-Guard panels can only be removed with the special X-Key. The X-Key offers quick release and replacement. As standard this is possible only from inside the hazard zone. This is also the setup recommended by Axelent, because it ensures that the respective machinery is stopped upon opening a movable guard. Fixed guards can then only be removed under safe conditions. However, if specifically required for particular maintenance jobs or because of space restrictions removal of panels is also possible from outside the guarded area. Accessory parts are required to install X-Guard for this type of access.
- 3 **Tube nut M8** - This fitting can be used when you have cut the panel and need to drill a new hole.
- 4 **Bail handle** - The shackle handle is supplied as a set of 2 pieces and an attachment.
- 5 **Plugs** - Black rubber plugs can be used to cover holes in posts which are not used. The plugs have both an aesthetic and functional use. Plugs are available both for the top of the post, for the smaller 'keyhole' and for tubes.
- 6 **Shim set** - Used to adjust the height of X-Guard posts where the floor is uneven.
- 7 **Floor support 70x70 mm** - Floor support for 70x70 mm post. Gap from floor 100 mm. Available in black, unpainted or in special colour.
- 8 **Cover strip** - Can be used to cover gaps between posts and panels. Cover strips in black (RAL 9011) are included in the delivery of sheet metal and plastic panels. The cover strip is available in heights of 1900 and 2200 mm and are also available in grey and special colours.
- 9 **Special nut** - For plastic cap on post.
- 10 **X-Cup** - Many people drink coffee and water when working. It is however not recommended to place coffee mugs near keyboards, drawings or where hot or cold drinks are not suitable. Axelent is the first company to develop a cup holder to attach to the X-Guard post. An intelligent and safe solution. X-Cup can be ordered as an accessory. Do you also want a mug for the holder? Contact your Axelent sales person.
- 11 **Quick fittings** - A number of brackets are available for X-Guard as accessories. These allow simple and quick attachment of panels to posts. The quick fittings has a top and a bottom attachment. The top fitting is a simple click-on fitting which can be fitted to the three sides of the post. The click-on function means simple and above all quick fitting. A fitter is only required to fit mesh panels to X-Guard machine guards. The lower fitting acts as a guide and guides the panel into the correct position. The panel is simply clicked into place in the top bracket, when it is in place. A quick fitting is also available for free positioning of the X-Guard post.
- 12 **Cutting package** - Panels may need to be cut to precise heights and widths in some environments. The X-Guard cutting pack can be used to help you cut panels and is available in both vertical and horizontal versions. The vertical version is available in four different heights; 750, 1300, 1900 and 2200 mm. The horizontal version is only available for 1500 mm but is compatible with all widths and is available with or without attachments to allow unrestricted positioning. The standard cutting pack colour is black (RAL 9011). We can however supply the colours customers require. An edging rubber can be fitted to provide a soft and good looking edge where mesh panels have been cut.
- 13 **Support wheel** - In case there is a need of a support wheel, like for larger door openings etc. we can offer this. The wheel-kit is adapted for hinge door as well for sliding doors. Easy to install.
- 14 **0-180° fitting** - Fitting at an angle of up to 180°. The fitting is used where the machine guard needs to be set up at angles other than 90°.
- 15 **Magnet** - For use with 'Snap' close door locks.
- 16 **Infill sheet metal** - A infill piece that can be used where it is important to the customer that the guard has a specific width. Infill pieces are available for all heights and for two different widths. The standard version is RAL 9011. It can however be adapted to customer requirements.
- 17 **Stabilization for contractor** - Stabilization for contractor, RAL 9011.
- 18 **Foot cover** - The foot cover gives a well designed appearance and makes it easier to keep clean. It consists of two sections which are simply attached together to form one unit. The foot cover is supplied with posts as standard (not 70x70).
- 19 **Top frame fittings for hinge doors in corner** - Top frame fittings for hinge doors in corner provide a more stable door structure for the machine guard. The width of the top frame fitting is adapted to the usage on assembly. Top frame fitting for doors are used to fit two doors in a corner.

