

# Easy PROG PORTAL

## ACCESSORIES



Easy PROG PORTAL is a painting system specifically designed for windows, panels, and doors, capable of **autonomously generating the painting path**. It consists of a portal equipped with photoelectric barriers and software.

The pieces to be painted, attached to a conveyor, pass through the scanner portal, are scanned in their actual position, and the software autonomously generates the painting program that the robot will then execute.



SCANNER NOT compatible with ATEX environment.  
Installable outside the booth.

## RECIPE PARAMETERS

Once the geometry is scanned, the software processes the painting path based on the selected recipe. This recipe contains the spraying strategy, and a range of parameters can be set for each element.

<b>SPRAYING STRATEGY</b> 	<b>PARAMETERS</b>							Optional parameters
	Speed	Distance	Spray gun angle	Gun tilt adjustments	Number of guns	Gun aperture	Shades and intersections	FLOW RATE
								ATOMIZATION
								FAN

## SPECIFICATIONS

### MAXIMUM DIMENSIONS

Maximum size of workpieces in production:

**3x3 m**

### SCANNING RESOLUTION

The reading barriers have a maximum resolution of:

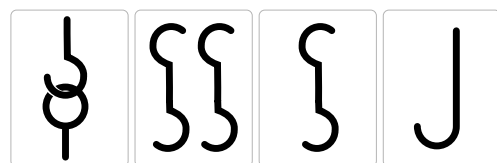
**5x5 mm**

### HANGING HOOKS

Maximum allowable section of hooks:

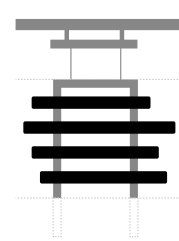
**Diameter ≤ 10 mm**

Recommended hooks for optimal system performance are:



### STRIP OBJECTS

It is possible to paint strips, glazing beads, and similarly shaped objects using appropriate hooks and supports.



**Diameter < 10 mm**  
**NO painting area**

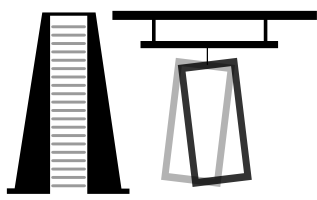
**Diameter > 10 mm**  
**Painting area**

**It's better have no supports here**

## SCANNING SYSTEM REQUIREMENTS

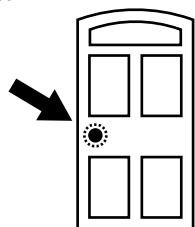
### OSCILLATIONS

Oscillations during the scanning phases **compromise the proper functioning of the system** as they make the geometry readings inaccurate.



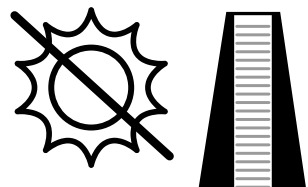
### HOLES

The holes in the pieces need to be covered to prevent the scanner from detecting them as edges to be painted.



### DIRECT LIGHT

The laser photocell barriers must be protected from direct exposure to sunlight. Any reflections can degrade the quality of the scanned image.



### ALLOWED INCLINATIONS

Allowed tilt of the object relative to the vertical in the direction of piece advancement is

**+/- 15°**

