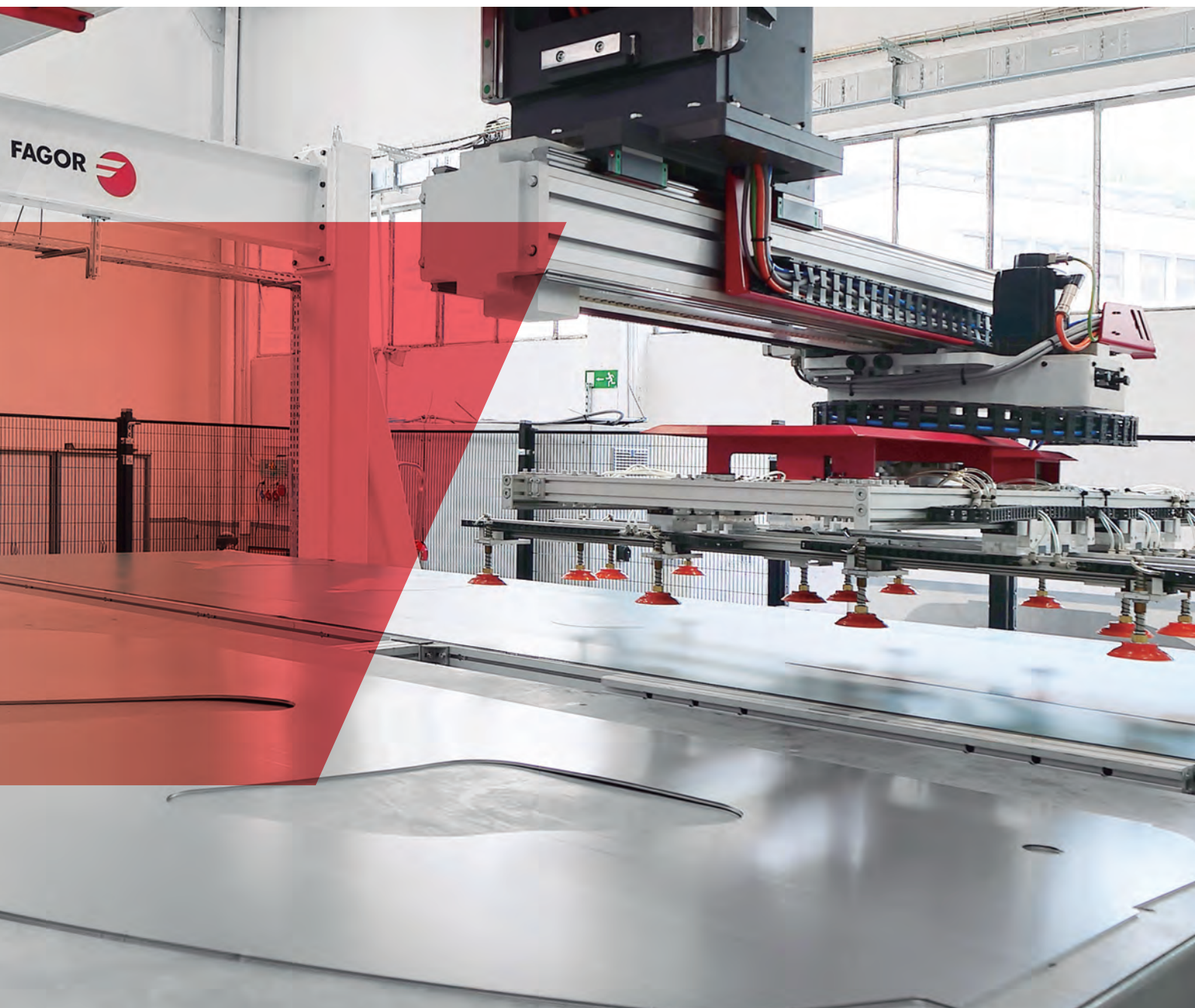


## **ROBOT LINEAR STACKER**

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Increased flexibility and efficiency  
for your production strategy







## Linear feeder configuration

This type of equipment can be integrated on Press Blanking Lines, Laser Blanking Lines and Cut-to-Length Lines.

VIDEO



Main parameters	1TR Serie	2TR Serie
Feeders	1	2
Axes per robot	4	4
Cycle/min maximum	15	30



Main parameters	1LR Serie	2LR Serie
Feeders	1	2
Axes per robot	4	4
Cycle/min maximum	20	40

### Same control software fully integrated in the line

No special robotic programming is required, everything is in the same program structure, same PLC, which makes stacking mode simple and intuitive through the same HMI of the line which involves: no skilled operators are required, simple maintenance, easy identification and troubleshooting.

## Robot linear stacker Advantages



The robot linear stacker is equipped with the flexible automated gripper. It allows to save cost and change over time, as the vacuum cups reposition automatically according to the next blank geometry to be produced, synchronizing itself with the nesting software.

### 01 FLEXIBILITY IN CHANGING THE SIZE REFERENCE

The most outstanding quality of the robot linear stacker is its total flexibility in changing the size reference, allowing a suction cup to be placed in any position on the gripping plane automatically. It provides high quality blanks, taking optimal care of edges.

### 02 HIGHER PRODUCTIVITY

The design is much more optimized for each application, what makes it faster than for example, a conventional articulated robot. 1 linear robot replaces at least 2 articulated robots.

### 03 ELIMINATES MANUAL HANDLING

The robotic linear stacker eliminates manual handling by the operator and improves ergonomics, eliminating the need to enter the line for changeover and reducing long downtime, as well as eliminating the investment and maintenance of manipulator storage.

### 04 VALID FOR ANY TYPE OF MATERIAL

The robot linear stacker allows the stacking of all types of materials in any shape, which provides great added value and high versatility.

### 05 CONFIGURATION ADAPTABLE TO ANY POSSIBLE LAYOUT

Optimized design according to necessary axis and weight to handle. Easy to adapt to the needs of the preferred evacuation of processed material. Different palletizing modes to facilitate the removal of packages. Suitable for tight spaces. Civil works are avoided compared to other solutions.

## Artificial Vision

Any type of part can be handled by the equipment, from small-medium blanks as B-pillars, inner doors or large ones as side panels.

To improve stacking quality, the stacker is equipped with artificial vision system that allows an accurate picking of the blanks in start-stop or continuous mode, a correct position of each blank on its pile and a flexible disposition of the pile in the pallet to avoid further manipulations at rates to 20 cycles/min, depending on the size and geometry of the part, weight, travelling stroke and number of blanks per cycle.

There are two types of Artificial Vision depending on the application:

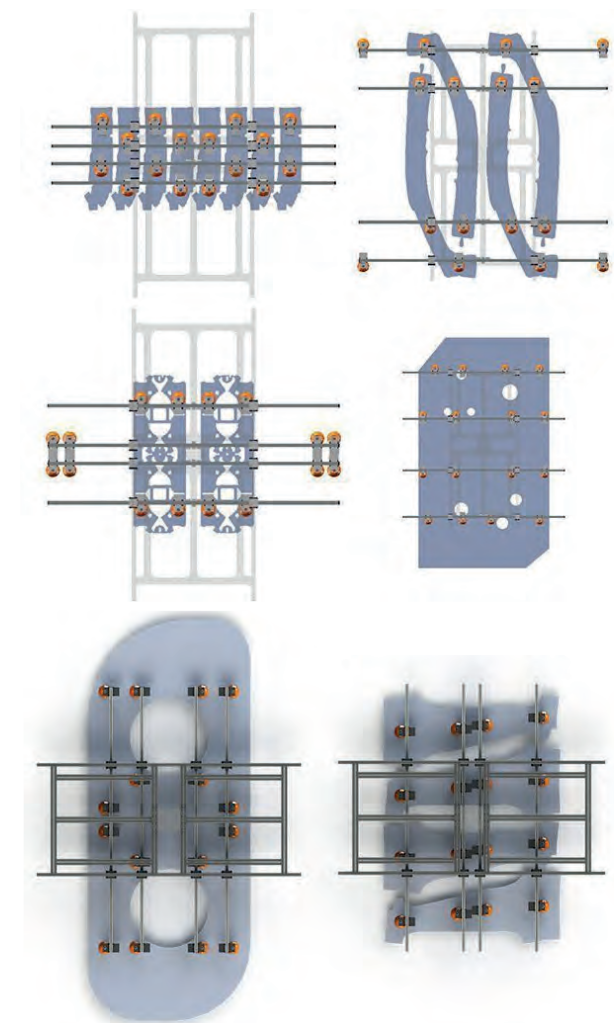
### Matrix cameras

The use of matrix cameras is suitable when the stacking cycle time is not very demanding and usually in single-piece stacking.

### Linear cameras

The use of linear cameras helps to reduce cycle time, because the capture of the image is in continuous mode.

In cases where the quality of the pile is very demanding, it is possible to use a stacking table with manual positioning stops adapted to the part geometry, or stops with automatic positioning by recipe.



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