



**More than a machine.**

An advanced wide range for  
sheet metal processing.

Partners  
for **Life**







We  
make  
it **Work**



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## KNOW-HOW

A path of **50 years** in the machines manufacture, press brakes and shears, ensures the necessary experience to offer the best solutions for the greatest challenges. High quality standards require a professional and specialized team.



## PREDICTING FUTURE

Day-to-day operations are important, but long-term business strategy will determine the ongoing and further success. Building a reliable board of principles will help to **ensure that our vision for the future will be carried forward.**



## RELIABILITY + DURABILITY

Our products are the result of a continuous focus on improving processes and supported by high quality levels, which result in recognition of RICO machines as state-of-the-art equipment.



## SUSTAINABLE GROWTH

We value sustainability respecting people and the environment.

# —50<sup>years</sup> More then of *Know-How*

We believe in specialization because it gives us more advanced knowledge of technology and processes.

With a growing dynamic over time, the experience gained over the years is increasingly fundamental to mastering technology.



**Specialization.**



# PRCE

## Competing for Excellence

**PRCE** press brake is a performance winner.

It has an extremely short cycle time, which provides high levels of competitiveness.  
Fully servo-electric and highly efficient.

# PRCE

## Get to know





## Advantages.

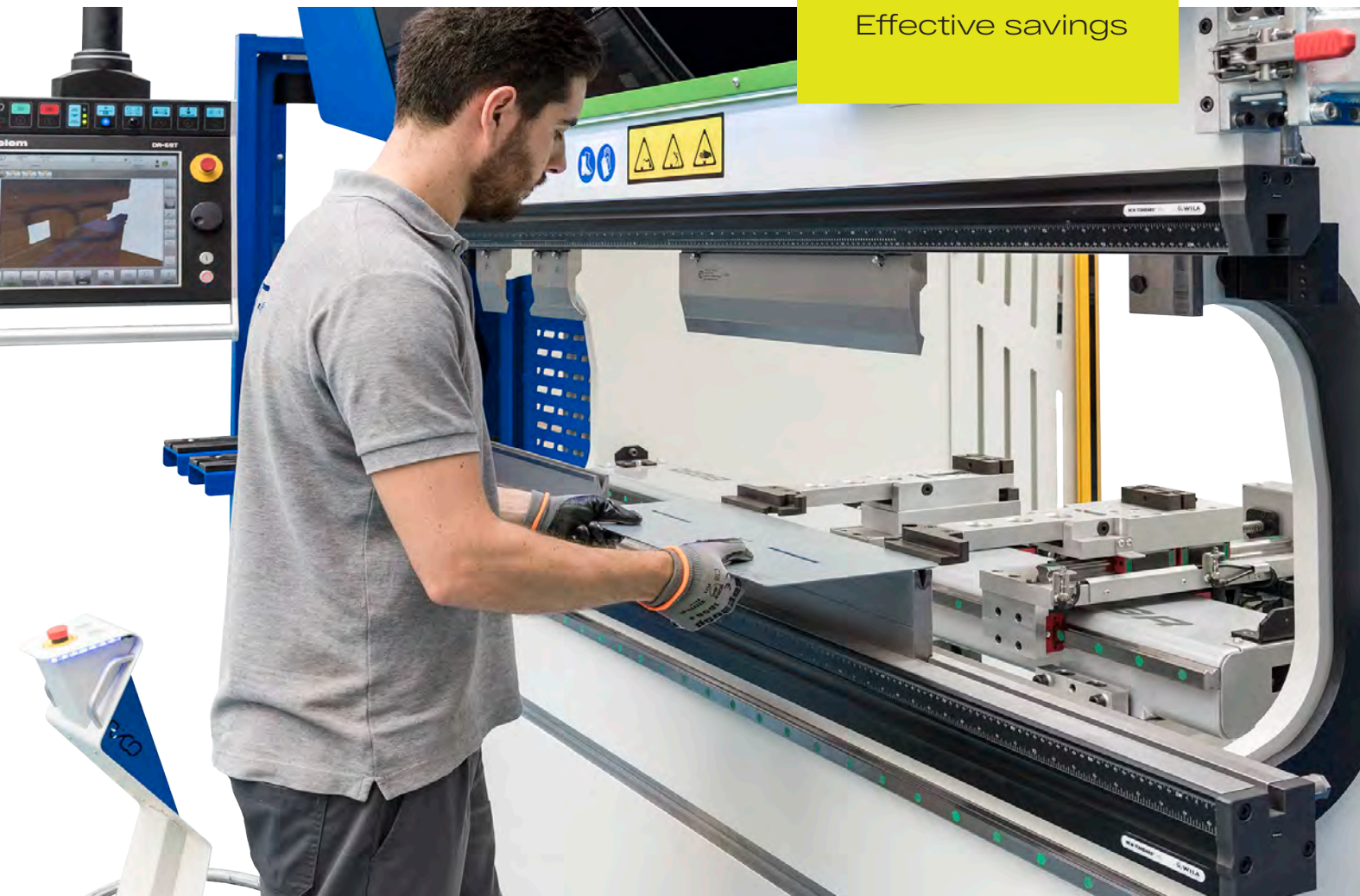
The synchronized electric-servo system offers the best performance, with a very short cycle time. Combined with the Direct-Drive engine, we also benefit from greater precision and comfort.

This RICO system includes two special ball screws, specially developed for this purpose, driven by two servo motors and planetary gearbox. The transmission components are high quality and suitable for high loads. Thus, they guarantee high performance and durability.



# Versatility accuracy

**50%**  
Effective savings



## . PERFORMANCE

### PRECISION

The beam synchronism is ensured by the **control of two independent servo-electric axes**. The reading positioning is obtained by high precision optical linear encoders.

### SHORT CICLE TIME

The servo-electric system **provides an effective reduction of transition time** compared to hydraulic systems. In addition, with the components used in the PRCE model, the speeds are higher when compared to other electric press brakes.

## . SAVINGS

### LOWER ENERGY CONSUMPTION

The importance of energy consumption in business competitiveness is increasingly a decisive factor. Energy is one of the main pillars of sustainable development and a major strategic segment for the global industry. The **development of eco-design products** enables a **significant reduction of environmental impacts of energy savings**, which results in cost savings at the same time. The PRCE model aims to optimize environmental performance, and ensures the same technical results.

**UP TO  
-40%**  
Energy consumption

### LOW MAINTENANCE

Being an electric model, it doesn't require regular maintenance. The automatic lubrication system is standard equipment on the PRCE.

## . CONFORT

### LOW NOISE

**PRCE allows a reduction up to 70% of noise than other machines.** In Europe it is estimated that more than a third of workers are exposed to potentially harmful noise levels for at least a quarter of their working time. The reduction of the noise level is therefore a great benefit for workers and the environment impact.

**UP TO  
-70%**  
Noise



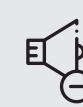
SHORT  
CYCLE  
TIME



LOW  
ENERGY  
CONSUMPTION



LOW  
MAINTENANCE



LOW NOISE



2 YEARS  
GUARANTEE



## .01 PRCE

### . Range

	LENGTH (mm)				
CAPACITY	1100	1600	2100	2600	3100
40 Ton	●	●	●		
80 Ton			●	●	●

**PRCE** press brake is a machine designed to increase productivity with lower operating costs.

Cycle time is substantially reduced since there is no time loss in speed transitions as in hydraulic machines. In addition, the PRCE model has extremely fast accelerations, thus eliminating any time lost for the operator in the transition between bends. **Operating costs are much lower compared to a hydraulic press brake as it does not require regular maintenance and consumption is much lower.**



### Mechanical Quality.

The components used in the mechanical transmission ensure great durability while maintaining precision over time.



## .02 Differentiating Systems



**BALLS SCREWS**

- High performance
- Low noise
- Grease retention

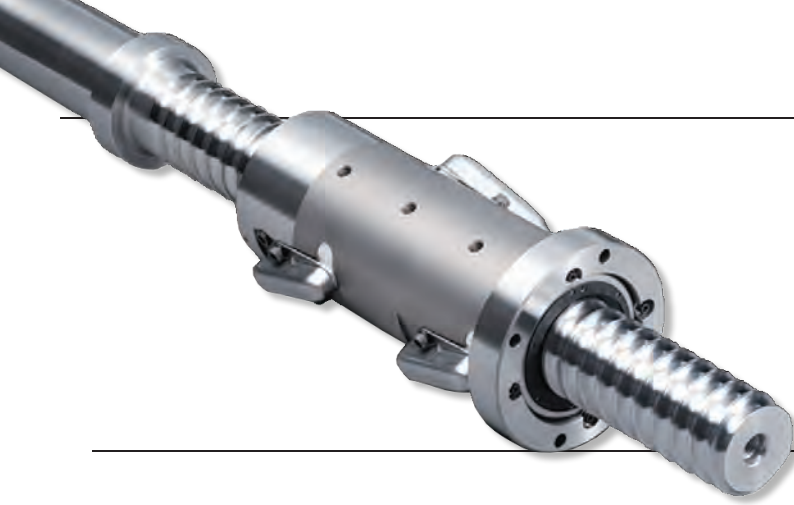


**PLANETARY GEAR**

SP+ High Speed  
(Only in 40 Ton models)







## . BALL SCREWS

### HIGH PERFORMANCE

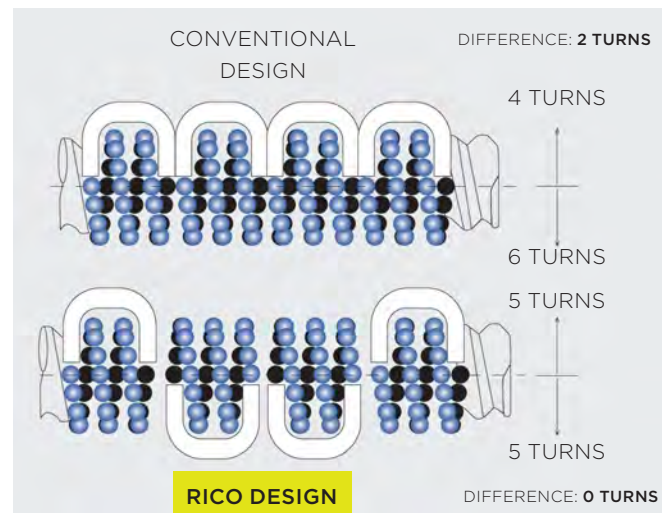
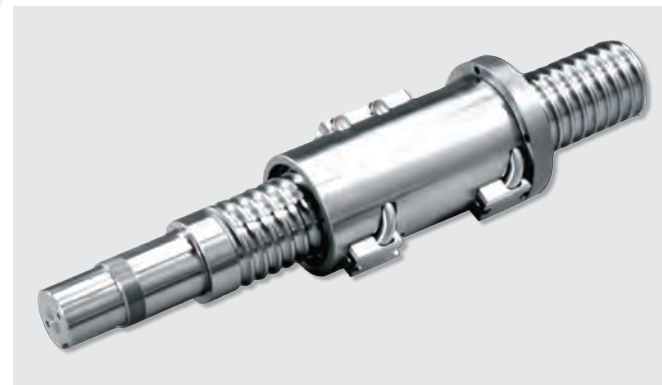
The high capacity ball screws has larger balls diameters in higher quantity. The balls recirculation tubes are positioned at 180° ensuring a better load distribution.

### LOW NOISE

By absorbing the movement of the balls in the direction of the tangent to the spindle axis, the impact of the collision with other components is strongly reduced. Compared with the conventional spindle type, **the noise is reduced more than 6dB.**

### GREASE RETENTION

Thanks to the special profile of the spherical screw cavity together with the A1 grease retention seal the grease retention characteristics have been greatly improved compared to conventional plastic seals.

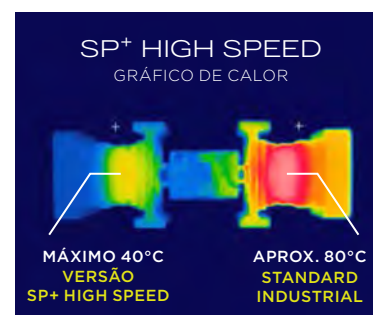


## . PLANETARY GEAR - SP+ HIGH SPEED

The High Speed version is suitable for high accuracy positioning and highly dynamic cyclic operation. The **SP+ HIGH SPEED** gearbox is particularly effective for applications with maximum speeds during continuous operation.

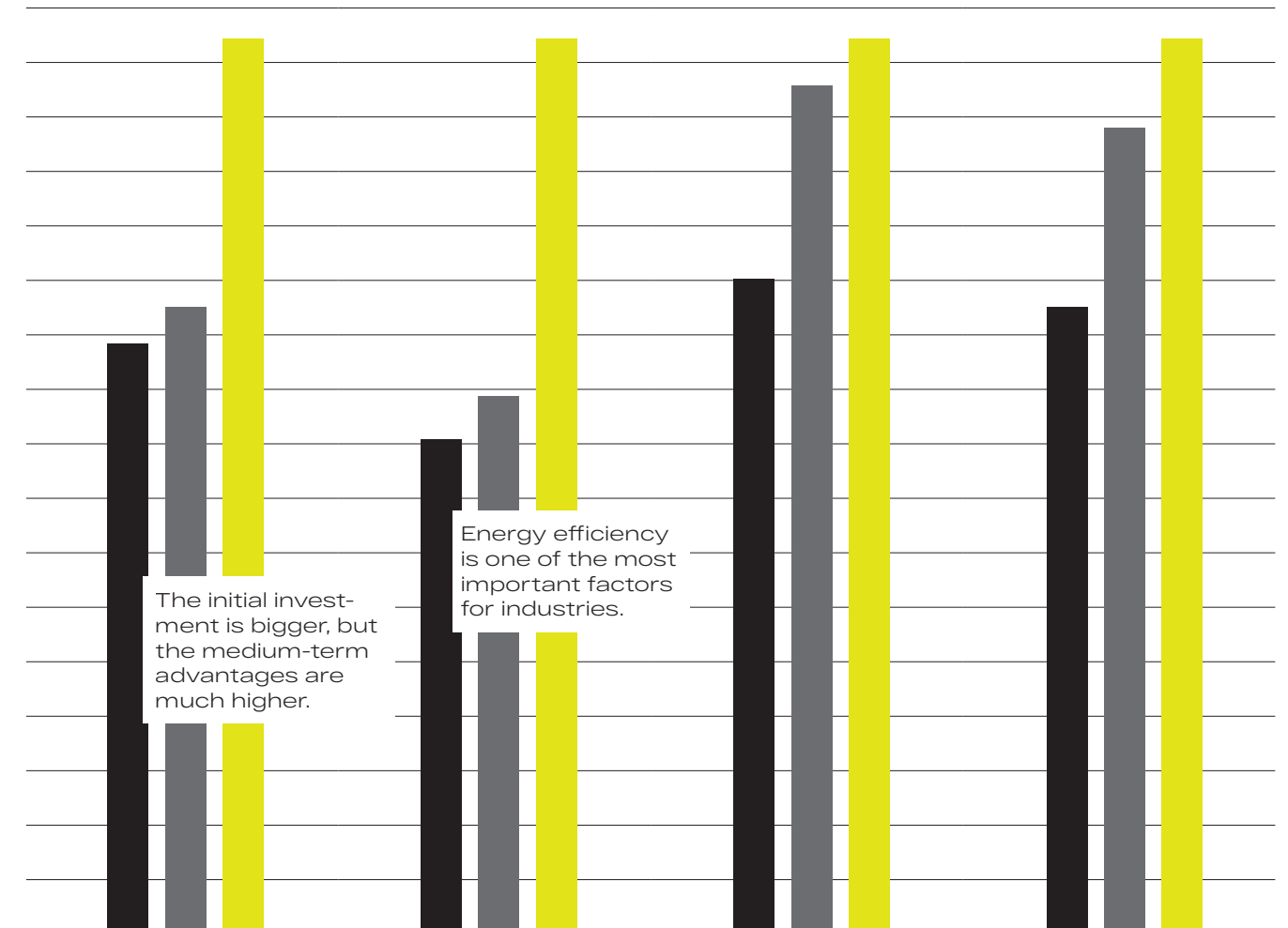
The gearbox doesn't requires maintenance because it has lifetime lubrication.

(Only on 40 Ton machines).



## . COMPARISON

PRICE	ENERGY EFFICIENCY	BEAM SPEED	CYCLE TIME



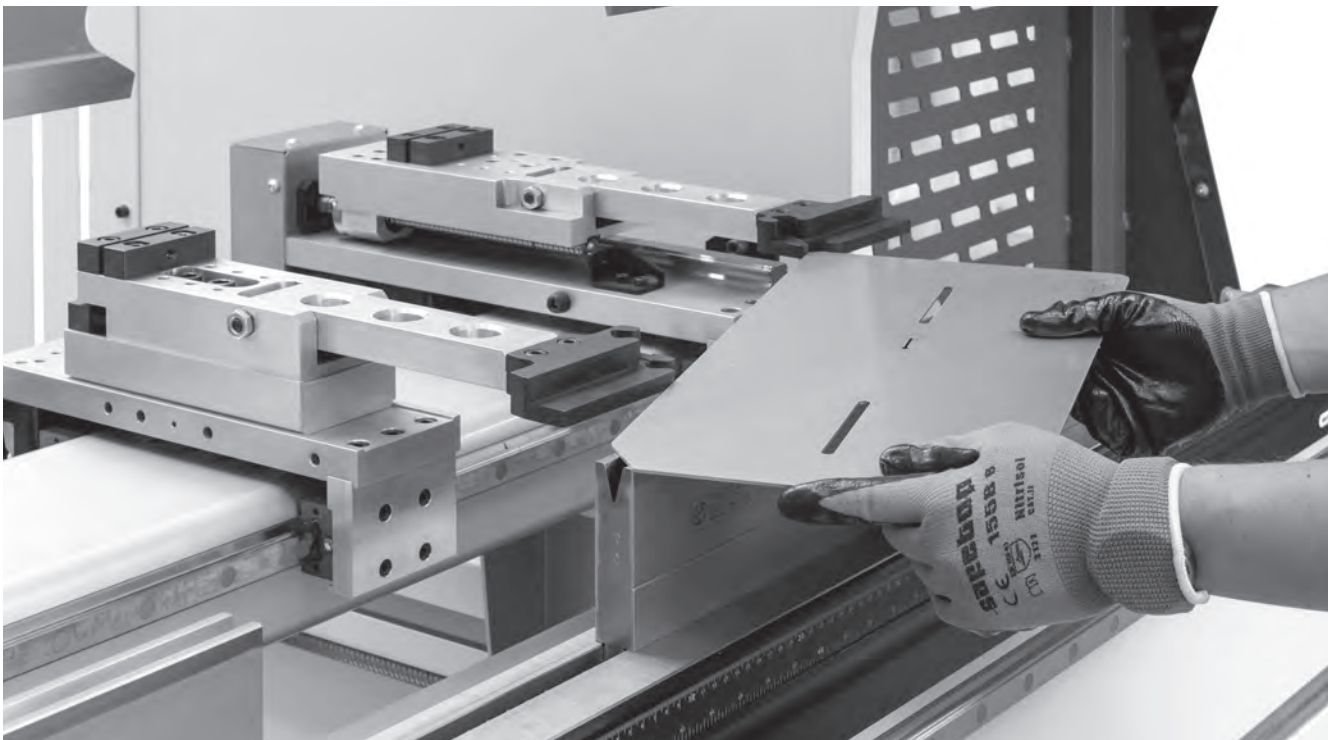
- Hydraulic press brake without ECO-Boost
- Hydraulic press brake with ECO-Boost
- Electric PRCE press brake



.03 Equipment

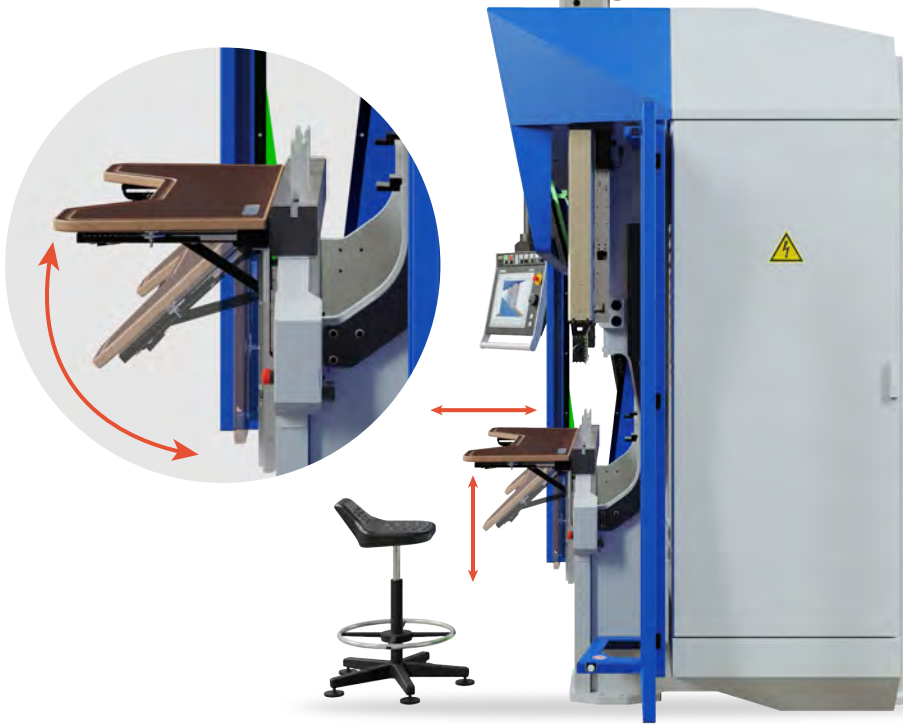
. Standard Equipment

Type	Item
Control panel	Delem DA-58T control
Automatic axes	4 automatic axes: Y1+Y2+X+R
Back gauge	BGR back gauge
Front safety	Laser AKAS II-M
Rear safety	Safety barriers (Level IV)
Supports	SFS front support
Top clamping	Promecam manual clamping
Bottom clamping	Promecam manual clamping
Offline software	Profile TL
Others	Hanging swivel control Machine LED status Hour counter Hex key set Automatic lubrication



. Front table S1E

On PRCE 1040 and PRCE 1540 versions it is possible to integrate the **S1E table with RICO ergonomic bench**. This solution increases operator comfort and allows the same operating rate.





# Integrations

## Competing for Excellence

**PR-CELL**  
Bending process automation

**TANDEM**  
For large bending lengths

# Be Special





## .06 PR-CELL - Robotic bending cell

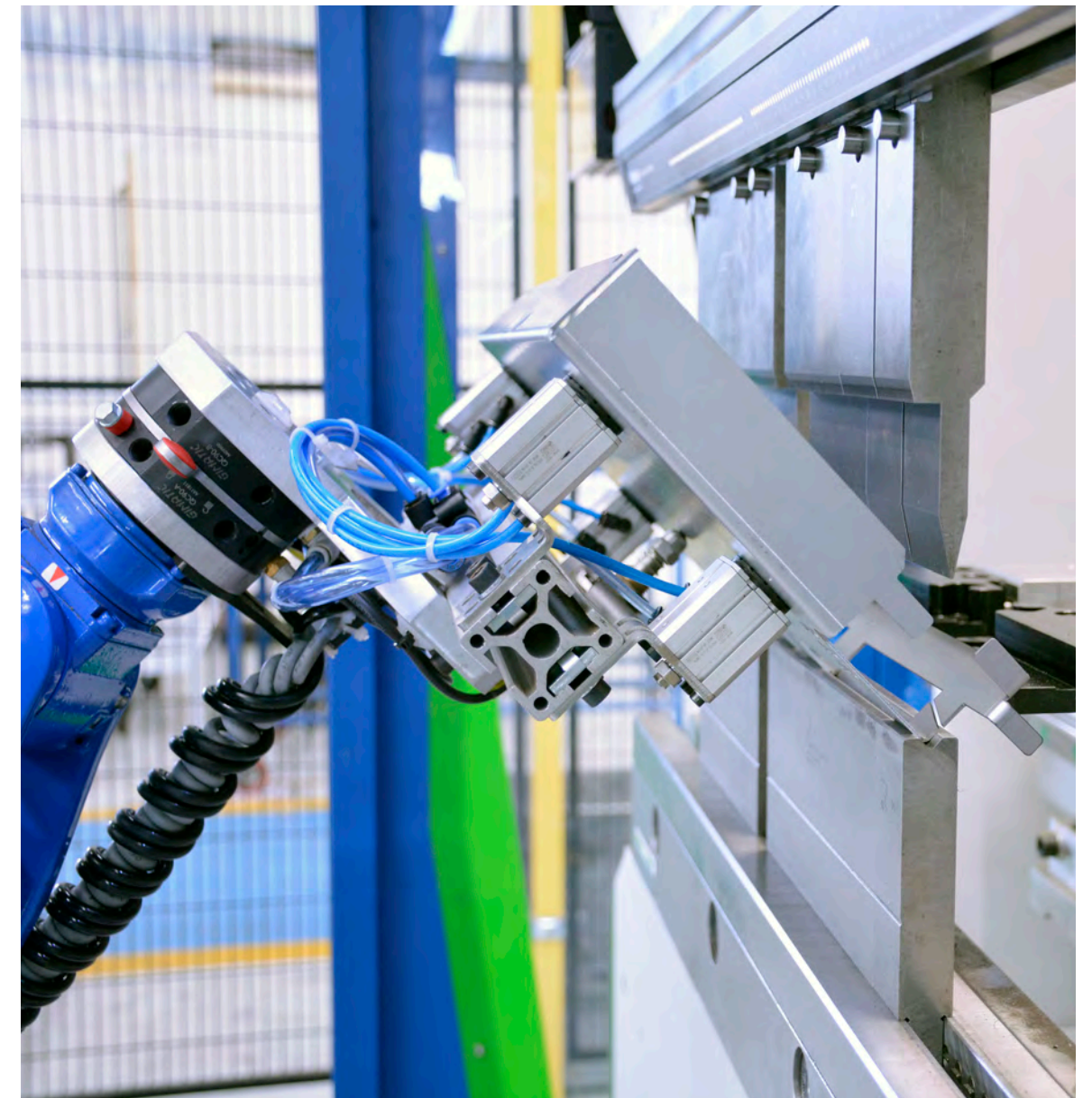
### . Robot integration

Automation is the solution for repeatability processes. It is now possible to consider these solutions for small quantities with offline programming without machine interruption.



**PR-CELL** is the independent solution for the bending process, from feeding, handling and palletizing. Various control systems, security and automatic tools changes are possible.

# Robotic cells *integration*





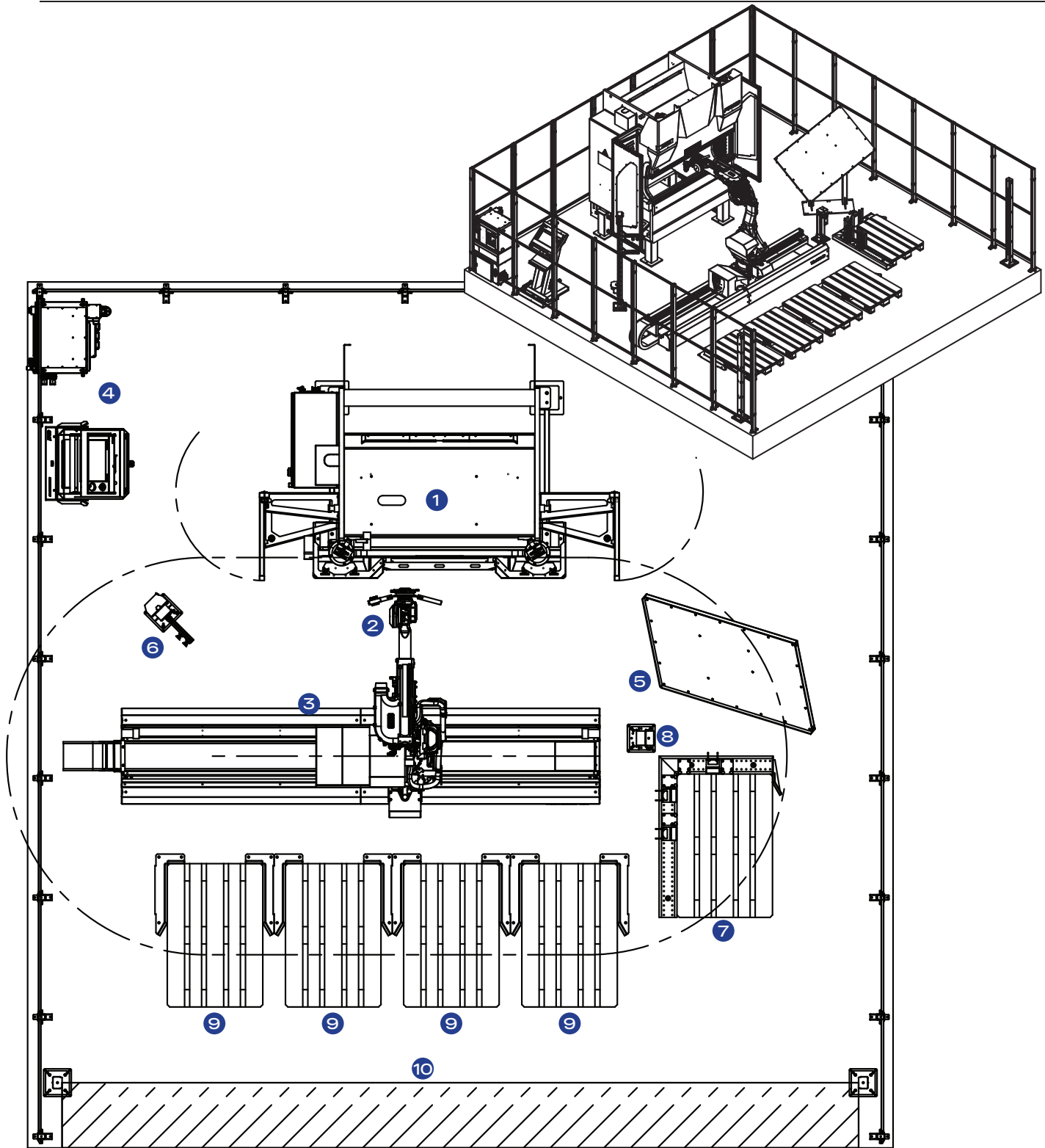
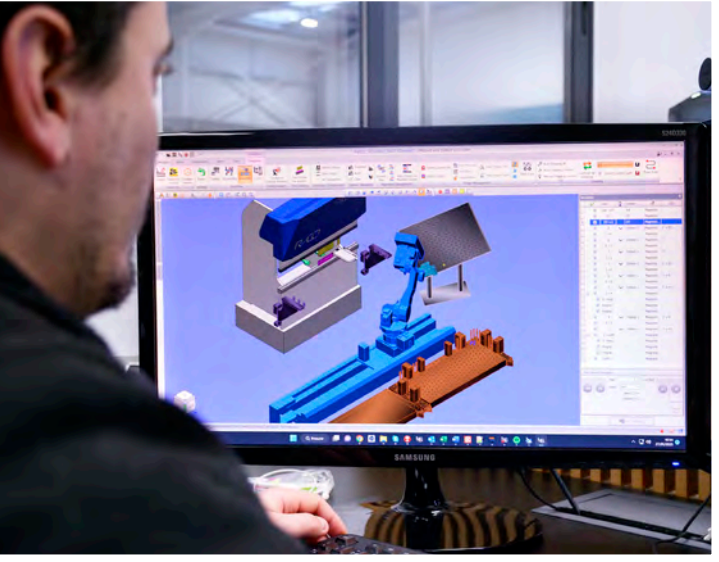
# PR-Cell - Interconnectivity

The robotic bending cell can be fully customized according to the characteristics of the parts. **The entire process is developed using intelligence and control systems that prevent potential failures.**

With the integration of the offline programming software, it is possible to perform all the programming of the press brake and the robot remotely without the need to stop the machine. This solution greatly increases productivity and allows the use of small series.

This solution offers several benefits, namely:

- Increased production cadence;
- Increased productivity;
- Increased profits;
- Reduction of operating costs;
- Reduction of errors;
- Greater guarantee in meeting deadlines;
- Higher product quality;
- Increased security;
- Better cost control.



LEGEND	
1	RICO Press brake
2	Robot
3	Track
4	Controller
5	Reference table
6	Regrip station
7	Loading zone
8	Thickness measurement & double sheet
9	Unloading zone
10	Safety barriers

Higher  
production  
capacity