

Automated Electric Press Brake

EUROMAC®

General catalogue

The cell was created with a variety of bending applications in mind, but more specifically **yours!**

Fxbend cell

Automated electric press brake



Short programming time

With our Fx Cell 3D software, it is possible to program the robot off-line in very short time.

Active Fingers

For an accurate repeatability of the pieces with self-learning mode.

Customisable to adapt to your needs

Modular system to meet the specific requirements of your production, ensuring the utmost efficiency and less space requirements.

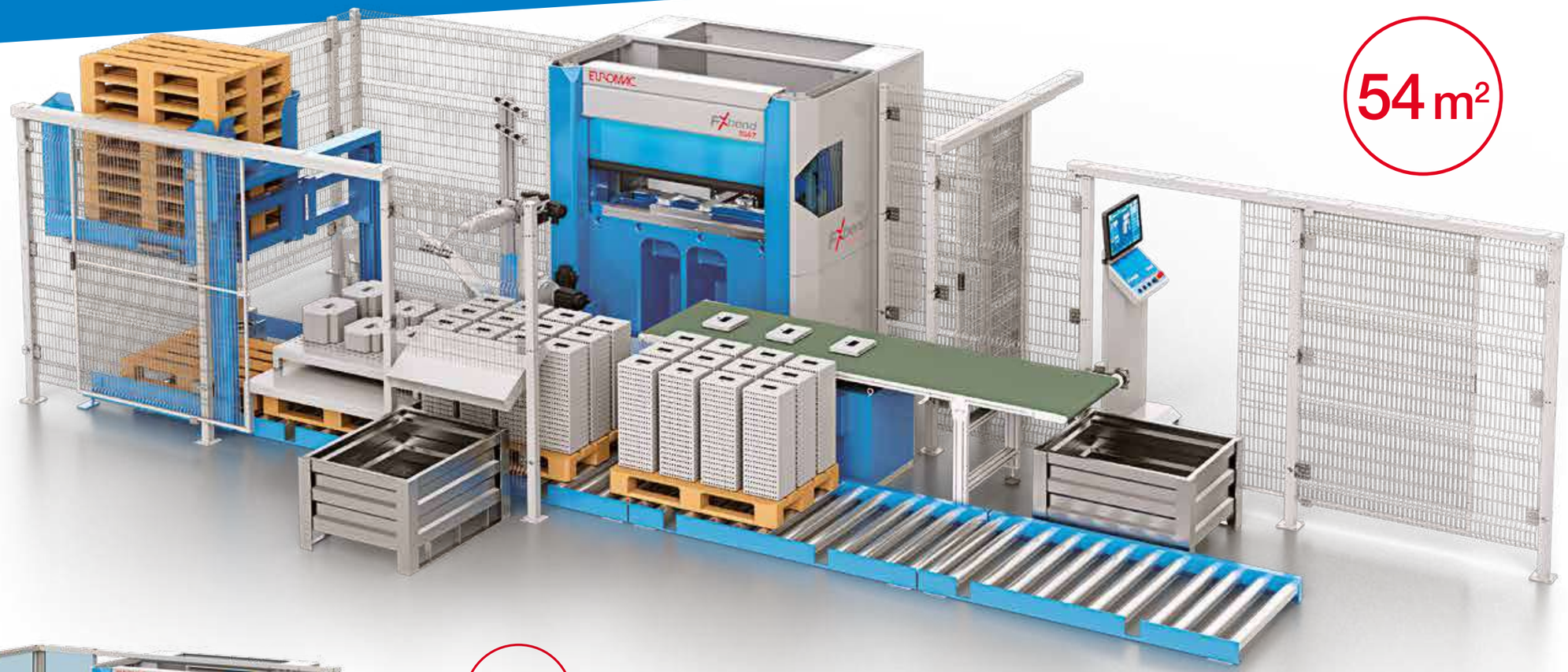
System completely realized by Euromac

Euromac provides a complete solution, designing and developing every single element of the structure, from the machine and the robot integration, to the software wthat runs the production.
A complete, reliable and friendly-use system.

Fx bend cell 1023 - 1547

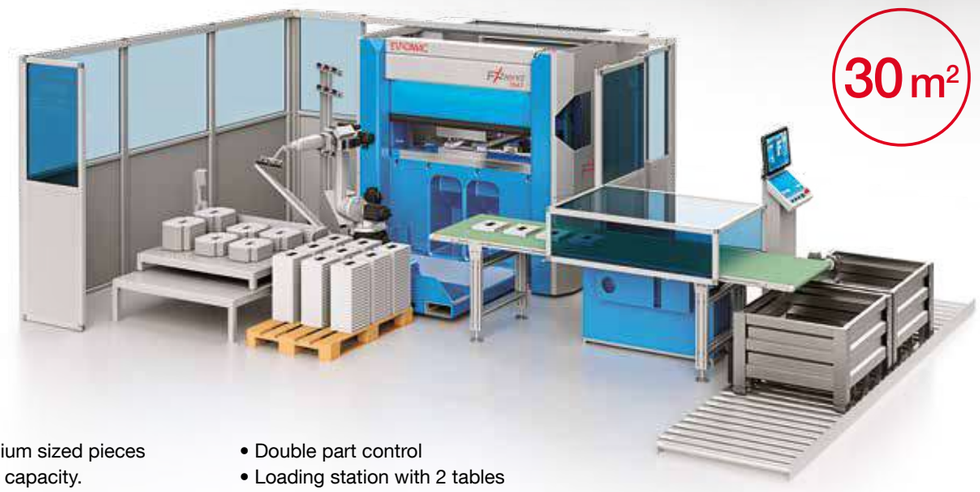
The first cell configurable according to your production needs.

We configure the machine to your individual specification:



MAX - MAX 7 (7 Axes Robot)

Cell for small and medium sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axis backgauge
- Robot 20/70/120 Kg
- Base of the robot integrated into the machine
- Turnover system
- Double part control
- Loading station with 2 tables of 1200 x 800 mm
- Unloading:
  - Palletization on a motorized roller conveyor for Europallet
  - Vertical storage up to 10 Europallets (optional)
  - Automatic belt with unloading into a box (optional)
- **Also available with 7 axes robot (MAX).**



PLUS

Cell for small and medium sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge.
- Robot 20/70/120 Kg
- Base of the robot integrated into the machine
- Centering table
- Turnover system
- Double part control
- Loading station with 2 tables of 1200 x 800 mm
- Unloading:
  - Palletization on a Europallet
  - Automatic belt conveyer together with motorized roller conveyor for multi boxes.



STANDARD

Cell for small and medium sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge
- Robot 20/70/120 Kg
- Base of the robot integrated into the machine
- Turnover system
- Double part control
- Loading station with 2 tables of 1200 x 800 mm
- Unloading:
  - Palletization on a Europallet
  - Automatic belt conveyer for unloading into a box (optional).

Fx bend cell 1547

When productivity needs important performances.

The ideal solution for workpieces up to 1500 x 800 mm. Large-capacity robot, with 2 different unloading configurations that can be modulated based on the customer productivity.

64 m²



MAX

Cell for small and medium sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge
- Robot 20/70/120 Kg
- Base of the robot integrated into the machine
- Centering table
- Turnover system
- Double part control
- Loading station with 2 tables of 1500 x 800 mm
- Unloading:
  - Vertical storage for 10 Europallet (optional)
  - Palletization on a motorized roller conveyor for Europallet
  - Boxes for small pieces
  - Automatic belt conveyer for unloading into a box (optional).

50 m²



STANDARD

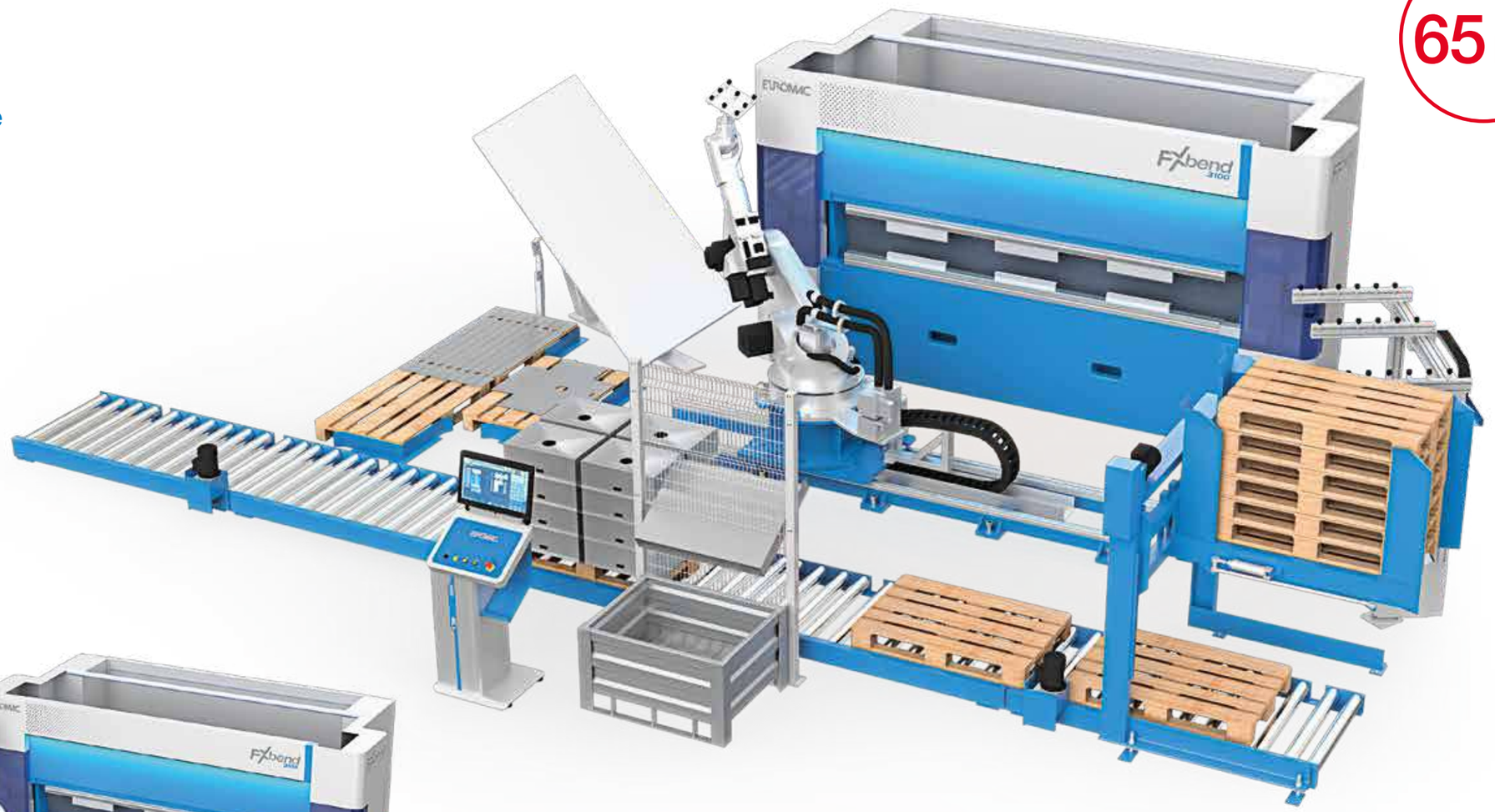
Cell for small and medium sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge
- Robot 20/70/120 Kg
- Base of the robot integrated into the machine
- Centering table
- Turnover system
- Double part control
- Loading station with 2 tables of 1500 x 800 mm
- Unloading:
  - Palletization on 2 Europallet
  - Automatic belt conveyer for unloading into a box (optional).

Fx bend cell 3100

Think big!
Robotic solution on rails for large-format parts.

Large-scale robot, available in 2 unloading configurations suitable to your productive needs.

65 m²



MAX

Cell for medium and large sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge
- Robot 20/70/120 Kg on rail
- Centering table
- Turnover system
- Double part control
- Loading station for pieces up to 2500 x 900 mm
- Unloading:
  - Vertical storage for 10 Europallet (optional)
  - Box for small pieces
  - Palletization on motorized roller conveyor for Europallet.
  - Automatic belt with unloading on case (optional).

65 m²



STANDARD

Cell for medium and large sized pieces with a high production capacity.
The cell is integrated by:
- Fx Bend with 6-axes backgauge
- Robot 20/70/120 Kg on rail
- Centering table
- Turnover system
- Double part control
- Loading station for large parts
- Unloading:
  - Palletization up to 7 Europallet.
  - Automatic belt with unloading on case (optional).

SOFTWARE

ON LINE
Standard software
with parametrized programs.



FX CELL Supervisor

The added value is the extreme ease and speed in making any kind of modification to your work.

With Fx Cell supervisor it is possible to:
- modify all the parameters of the bending cells
- choose the right gripper and activate or deactivate the suction cups
- select or modify the loading part position
- select or modify the unloading position
- activate or deactivate the double metal sheet control

All this, working directly from the interface of our Fx Soft and without having to change anything from the program.

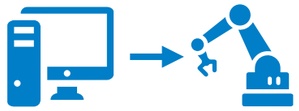
Everything at your fingertips in a simple and fast way.

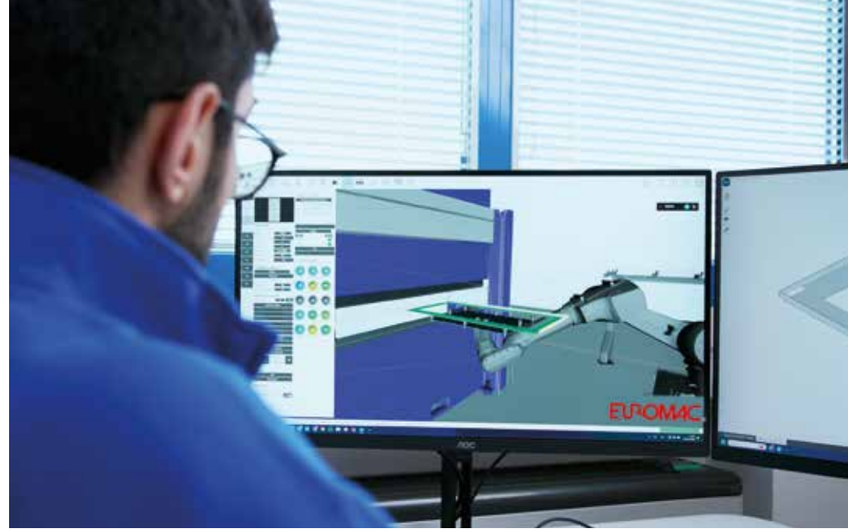
Possibility to put the robot in parking mode
to work in manual mode inside the cell.

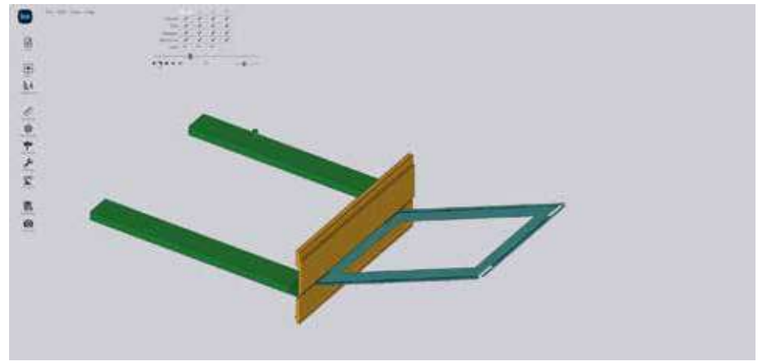


SOFTWARE

OFF LINE
Easy Cell Plus Software optional





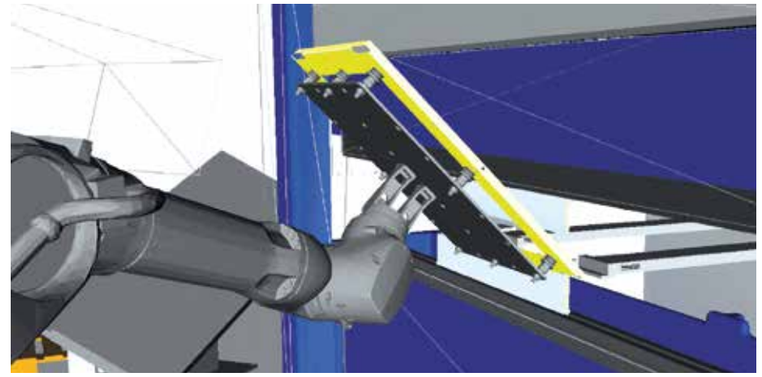


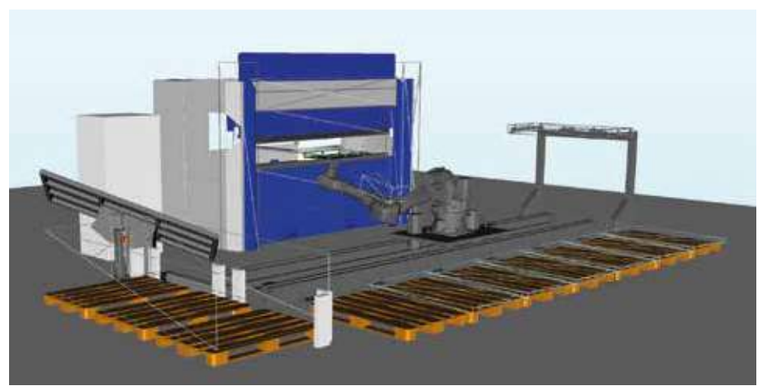
Easy and fast programming time
even for more complex requirements.

The offline programming software works in perfect cohesion with the FX bend cell, becoming a complementary optional item allowing to quickly anticipate the movements, the processing efficiency and eventually acting to optimize it. Thanks to a 3D graphic display and the management of the palletization data, it's possible to have a complete operation vision and reduce production times.

With Easy Cell Plus software we can assure that in the great majority of the pieces it is not necessary to touch the teaching pad.

- Reduce production stops due to programming time to a minimum.
- Predict the efficiency of the workcell for any particular product and take action to improve it if necessary.
- Simplify robot programming task.
- Easily visualize and setup palletizing data.





LOADING & UNLOADING



Maximum versatility of loading - unloading for any production requirement.

When designing a complete system, Euromac also paid great attention to the in-and outbound parts flow, to ensure a fast and reliable production.
By anticipating multiple production needs, the FX bend cell offers a wide range of solutions for the loading-unloading operation.

Loading
Loading area with 2 pre-alignment tables.The pre-alignment table has a perforated die for the perfect positioning of the pieces.
With different loading zones according to the model 1000 x 600, 1500 x 800, 2500 x 1000 mm.
Optionally, we offer the possibility to have additional loading tables, to stack pieces next to a punching or a laser machine, and the easily moved to the cell with a forklift.

Unloading
Our automated work stations offer many unloading solutions, from palletization of parts on fixed europallets to 10 europallet automatic towers (kit of extra 5 optional pallets), to motorized roller conveyors for fast unloading operations.
It is also possible to position pieces directly in cases or on a conveyor belt to unload on a fixed case, or positioned on motorized rollers.

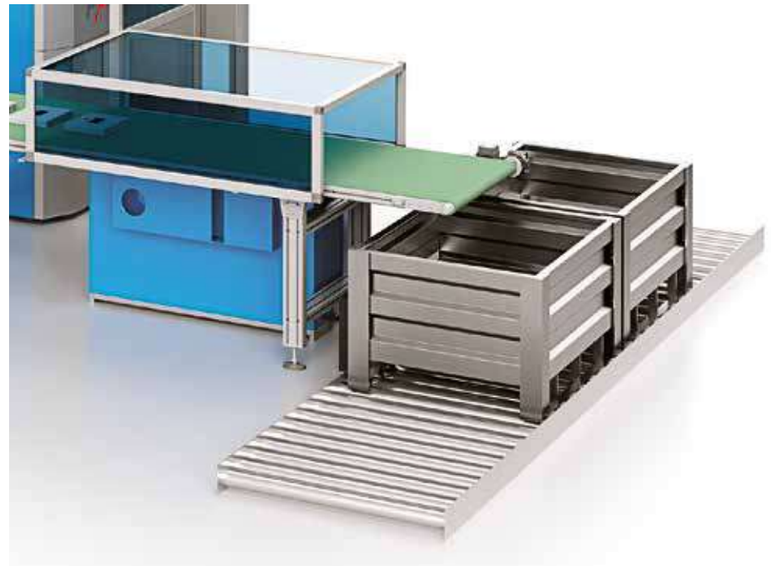


COMBINATION OF UNLOADING
Optional.

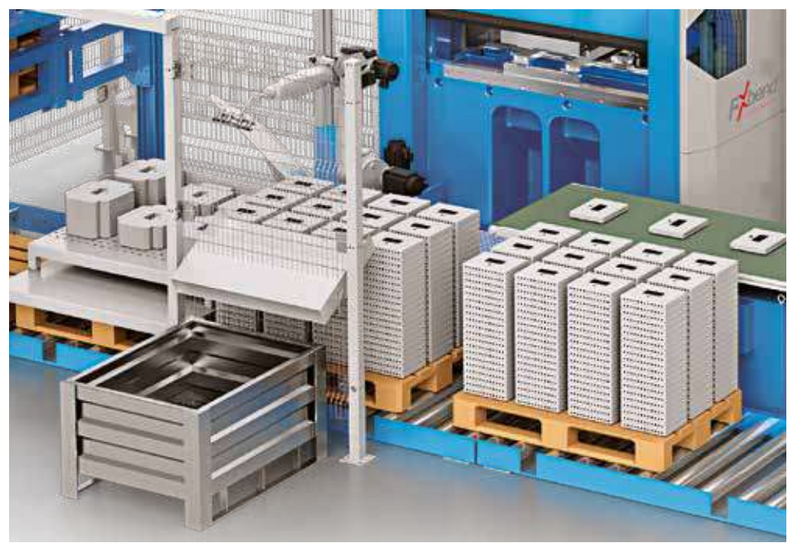
Belt conveyer unloading



Belt conveyer unloading with motorized boxes



Motorized Europallet unloading



FEATURES

Quality and reliability of parts and accessories for rapid production and high precision.



Active finger

For accurate replicability of manufactured parts thanks to the self-learning function.



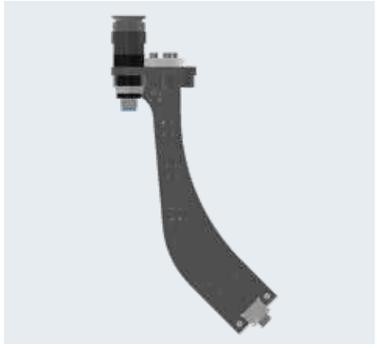
Gripper

Grippers are fully designed to meet customer requirements.

Euromac offers a wide range of different grippers capable of handling workpieces ranging from very small and light to large and heavy.

The number of (independent) suction cups or magnets depends on customer requirements.





It is possible to switch from one clamp to the other with just one screw.

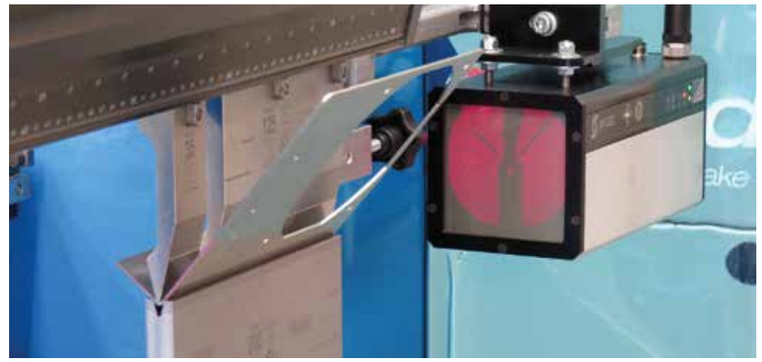






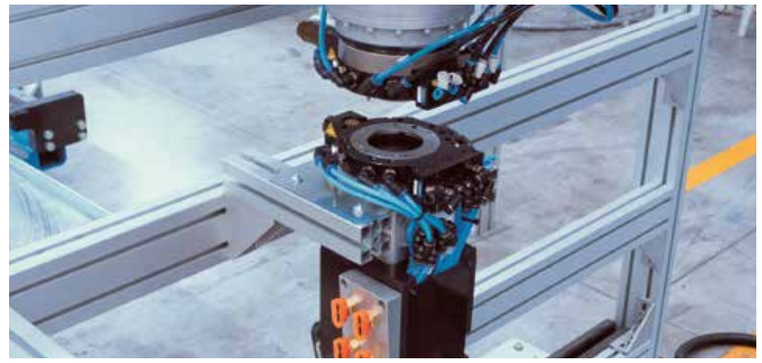
Angle control

Get the perfect bend, controlling the angle precisely, whether operating manually or using the robot.



Automatic gripper changeover

It allows the machine to change gripping parts automatically, following the cycle set during office programming.
It guarantees autonomy and almost no manning time at all.



Automatic tool change

Maximise efficiency by moving quickly from one batch to another with our automatic tool change system, reducing retooling time and eliminating human error.



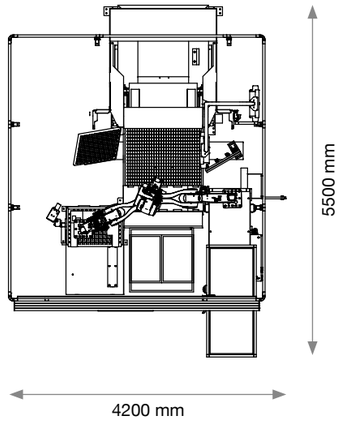
Fxbend cell

Machine range and productions



STANDARD 1023 / 1547

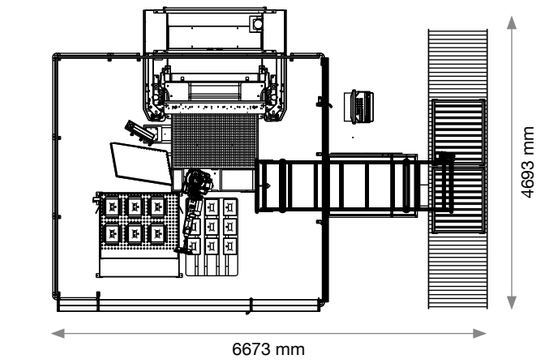
technical data	cell 1023	cell 1547
Max. bending force (kN)	230	470
Bending length (mm)	1020	1530
Daylight opening		
Wila clamping (die holder - to punch holder) (mm)	315	360
Promecam clamping (die holder - to ram) (mm)	395	440
Y axes stroke (mm)	196	240
Y axes speed (mm/sec)	200	200
Max. bending speed automatic mode (mm/sec)	36	36
Max. bending speed manual mode (mm/sec)	10	10
Robot		
Max. reach (mm)	1420 / 1810	1420 / 1810
Max. payload with gripper (kg)	10 / 20	10 / 20
Number of axes	6	6
Pose repeability (mm)	+-0.03	+-0.03
FX Cell		
Loading		
Minimum parts dimension (mm)	50 x 100	50 x 100
Maximum stack height (mm)	300	300
Unloading		
Belt conveyor buffer length (mm)	1500 / 3000	1500 / 3000
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	5000





PLUS 1023 / 1547

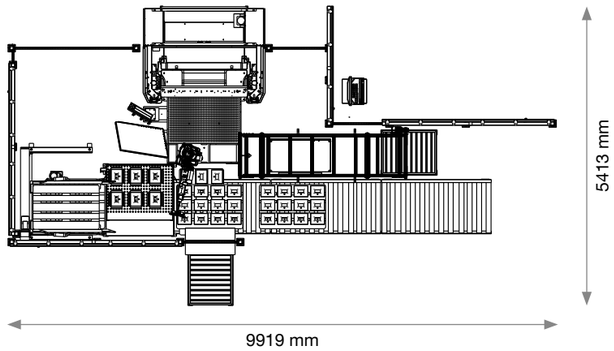
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Robot		
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Max. payload with gripper (kg)	10 / 20	10 / 20
Number of axes	6	6
Pose repeability (mm)	+-0.03	+-0.03
FX Cell		
Loading		
Minimum parts dimension (mm)	50 x 100	50 x 100
Maximum stack height (mm)	300	300
Unloading		
Belt conveyor buffer length (mm)	1500 / 3000	1500 / 3000
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	5500





MAX 1023 / 1547

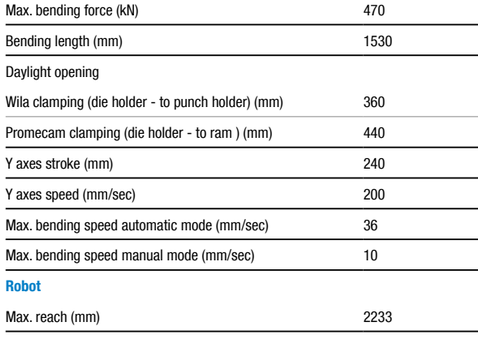
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Robot		
Max. reach (mm)	1420 / 1810	1420 / 1810
Max. payload with gripper (kg)	10 / 20	10 / 20
Number of axes	6	6
Pose repeability (mm)	+-0.03	+-0.03
FX Cell		
Loading		
Minimum parts dimension (mm)	50 x 100	50 x 100
Maximum stack height (mm)	300	300
Unloading		
Belt conveyor buffer length (mm)	1500 / 3000	1500 / 3000
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	6000





STANDARD-KR

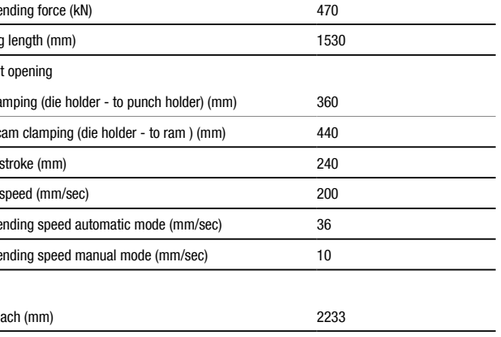
technical data	cell 1547
Max. bending force (kN)	470
Bending length (mm)	1530
Daylight opening	
Wila clamping (die holder - to punch holder) (mm)	360
Promecam clamping (die holder - to ram) (mm)	440
Y axes stroke (mm)	240
Y axes speed (mm/sec)	200
Max. bending speed automatic mode (mm/sec)	36
Max. bending speed manual mode (mm/sec)	10
Robot	
Max. reach (mm)	2233
Max. payload with gripper (kg)	70
Number of axes	6
Pose repeability (mm)	+-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	1500 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Unloading	
Belt conveyor Max. parts dimension (mm)	1000 x 600 x h 300
Belt conveyor buffer length (mm)	600 unloading + 600
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	6200





MAX-KR

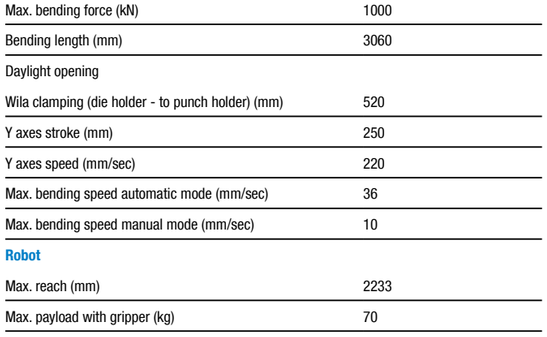
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Y axes stroke (mm)	240
Y axes speed (mm/sec)	200
Max. bending speed automatic mode (mm/sec)	36
Max. bending speed manual mode (mm/sec)	10
Robot	
Max. reach (mm)	2233
Max. payload with gripper (kg)	70
Number of axes	6
Pose repeability (mm)	+-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	1500 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Unloading	
Belt conveyor Max. parts dimension (mm)	1000 x 600 x h 300
Belt conveyor buffer length (mm)	600 unloading + 600
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	7000





STANDARD-KR

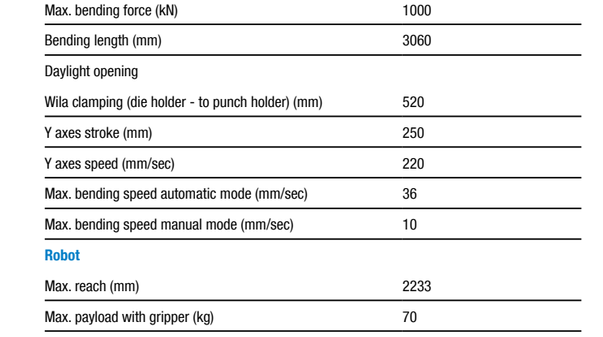
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Max. bending force (kN)	1000
Bending length (mm)	3060
Daylight opening	
Wila clamping (die holder - to punch holder) (mm)	520
Y axes stroke (mm)	250
Y axes speed (mm/sec)	220
Max. bending speed automatic mode (mm/sec)	36
Max. bending speed manual mode (mm/sec)	10
Robot	
Max. reach (mm)	2233
Max. payload with gripper (kg)	70
Number of axes	7
Pose repeability (mm)	+-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	3000 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Unloading	
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	9500





MAX-KR

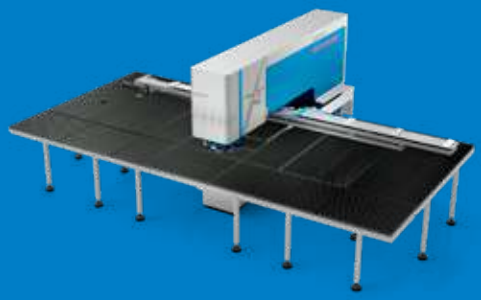
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Daylight opening	
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Y axes speed (mm/sec)	220
Max. bending speed automatic mode (mm/sec)	36
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Robot	
Max. reach (mm)	2233
Max. payload with gripper (kg)	70
Number of axes	7
Pose repeability (mm)	+-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	3000 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Unloading	
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	9500



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Automatic Loading and Unloading Systems



Punching Machines



Electric Press Brakes



Bending Machines



Notching Machines

EUROMAC®

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INDUSTRY **4.0**

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