

FXbend **cell**

automated electric press brake



electric
press brake

EUROMAC®

general catalogue

euromac electric press brake



The cell is manufactured with a variety of production configurations, of your own choice.

FX bend cell
automated electric press brake



Off-line office programming, easy and intuitive.

Plan your work production regardless of the number of pieces. With our cell it will be easy and fast to launch any production avoiding the teaching phase.

Integrated structure between machine and robot.

The system originates as unique element, with integrated robot as part of the structure of FX bend itself. An automated compact production cell is optimised with a small foot print.

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 that runs the production. **A complete, reliable and friendly-use system.**

We configure the machine to your individual specification.

MAX

Cell for small and medium sized pieces with a high production capacity.

The cell is integrated by:

- Fx Bend with 6-axis backgauge
- Robot Kuka KR10 cybertech nano
- 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).



54 m²



30 m²

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 Kuka KR10 cybertech nano.
- 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 conveyor 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 Kuka KR10 cybertech nano
- 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 conveyor for unloading into a box (optional).

23 m²



64 m²

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

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 Kuka KR60
- Base of the robot integrated into the machine
- 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 conveyor 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 Kuka KR60
- Base of the robot integrated into the machine
- Turnover system

- Double part control
- Loading station with 2 tables of 1500 x 800 mm
- Unloading:
 - Palletization on 2 Europallet
 - Automatic belt conveyor for unloading into a box (optional).

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

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 Kuka KR60 on rail
- Turnover system
- Double part control
- Loading station for pieces up to 2500 x 1000 mm
- Unloading:
 - Vertical storage for 10 Europallet (optional)
 - Box for small pieces
 - Palletization on motorized roller conveyor for Europallet



60 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 Kuka KR60 on rail
- Turnover system
- Double part control
- Loading station for pieces up to 2500 x 1000 mm
- Unloading:
 - Palletization on 6 Europallet

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.

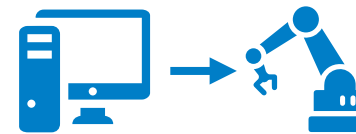
Everything at your fingertips in a simple and fast way.

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



SOFTWARE

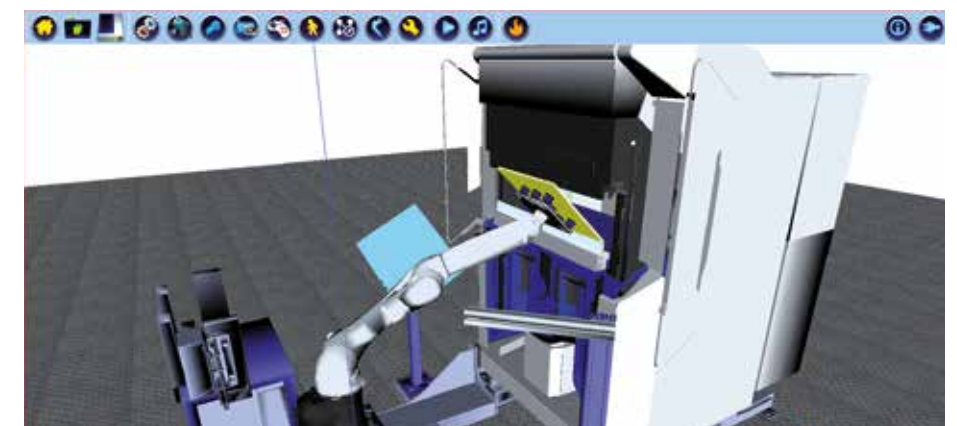
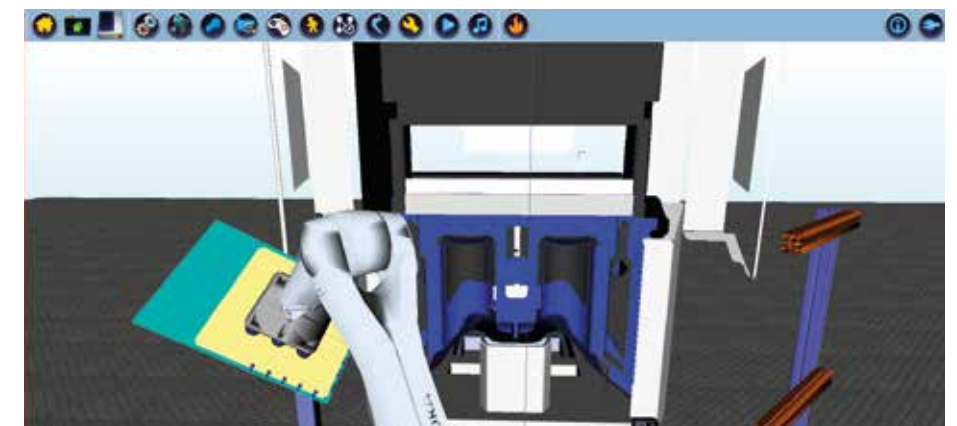
OFF LINE
FX CELL 3D
Software optional



Fast and simplified programming 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.

- 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.

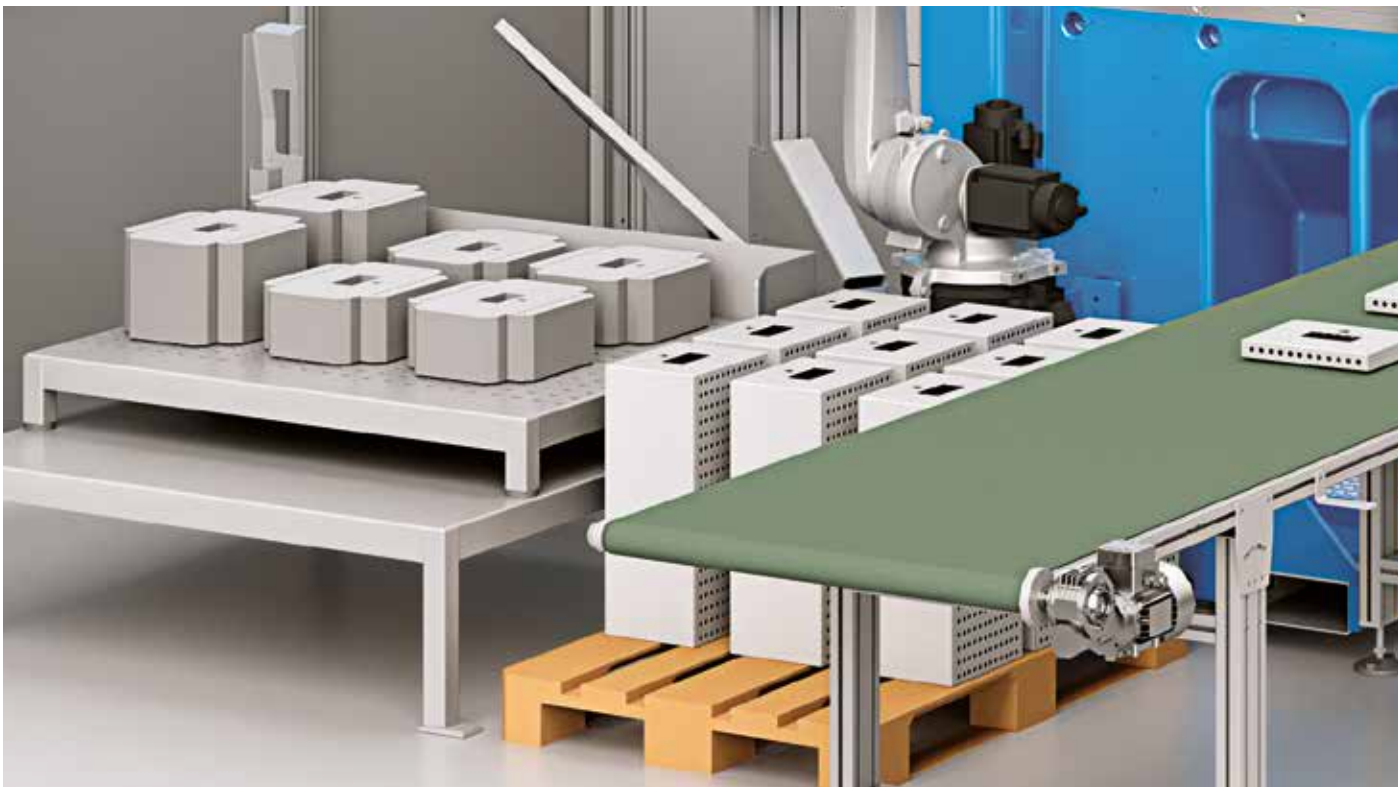
When designing a complete system, Euromac also paid great attention to the in-and outbound parts flow, to ensure a fast and reliable production. By anticipating multiple production needs, the FX bend cell offers a wide range of solutions for the loading-unloading operation.

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 euro-pallets to 10-euro-pallet automatic towers, 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



GRIPPERS

Three standard gripper.
Additional gripper to make special customer parts on request.



APPLICATIONS

Accuracy and reliability
for a fast and high quality production.



Gripper* with vacuum for big format parts,
external dimension 430x280
with the possibility to insert
up to 8 suction cups.

Max nominal part weight: 1.5 Kg
(centered position).



Gripper* with vacuum for medium format parts,
external dimension 230x230
with the possibility to insert
up to 10 suction cups.

Max nominal part weight: 5 Kg
(centered position).

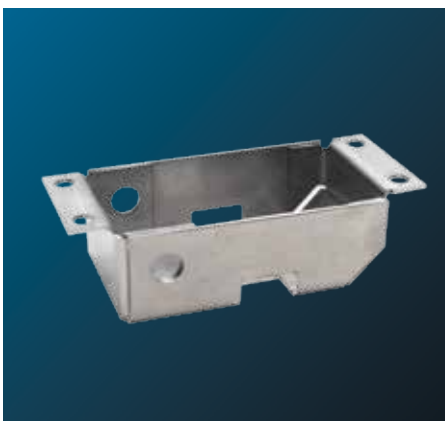


Gripper* with vacuum for small parts, with the possibility
to insert from 3 up to 20 suction
cups divided to maximum
8 independent zones.

Maximum nominal piece weight:
3 Kg. (in centered position).

**For a real feasibility is necessary to make a supplementary part inertia study where the part geometry is provided by the customer.*

FX bend cell is an automated bending cell combining production speed with high processing quality.
The system guarantees a high standard of bending precision on any type of part, large or small.



Machine range and productions



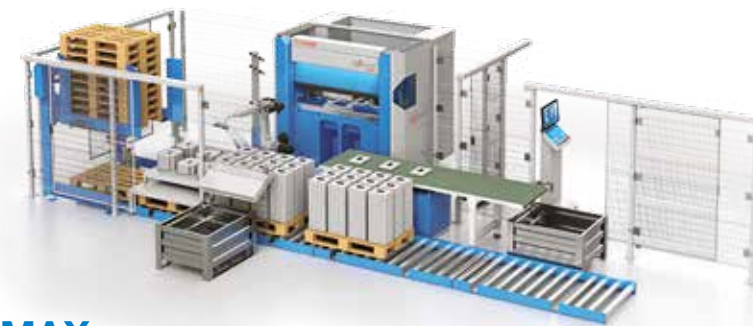
STANDARD

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	1420
Max. payload with gripper (kg)	10	10
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
Maximum thicknes (mm)	5	5
Minimum thicknes (mm)	0,7	0,7
Maximum part weight (kg)	5	5
Unloading		
Belt conveyor buffer length (mm)	600 unloading +600	600 unloading +600
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	5000



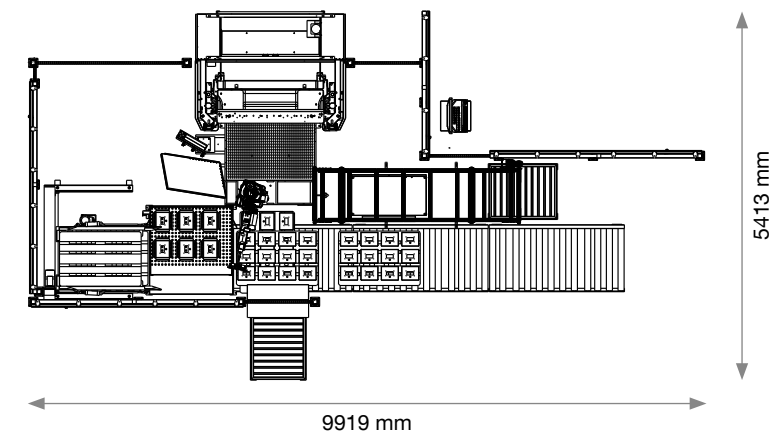
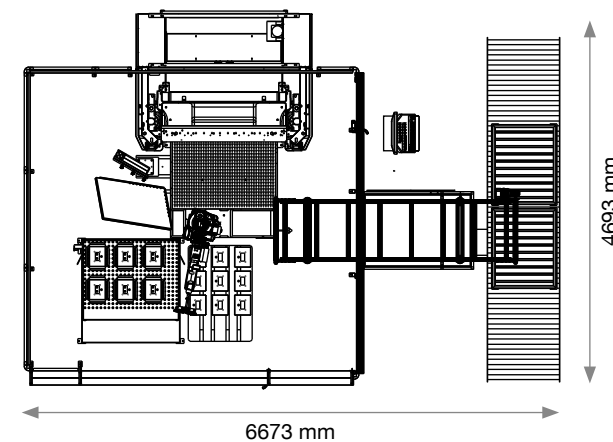
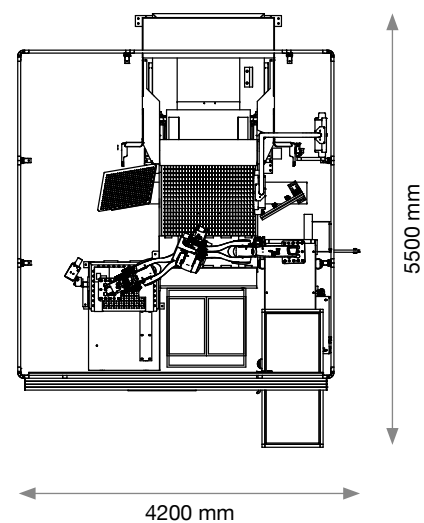
PLUS

technical data	cell 1023	cell 1547
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Bending length (mm)	1020	1530
Daylight opening		
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Robot		
Max. reach (mm)	1420	1420
Max. payload with gripper (kg)	10	10
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
Maximum thicknes (mm)	5	5
Minimum thicknes (mm)	0,7	0,7
Maximum part weight (kg)	5	5
Unloading		
Belt conveyor buffer length (mm)	600 unloading +600	600 unloading +600
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	5500



MAX

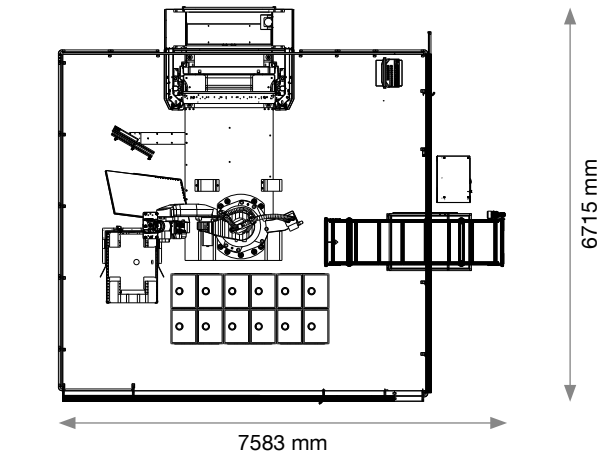
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Robot		
Max. reach (mm)	1420	1420
Max. payload with gripper (kg)	10	10
Number of axes	6	6
Pose repeability (mm)	+/-0.03	+/-0.03
FX Cell		
Loading		
Minimum parts dimension (mm)	50 x 100	50 x 100
Maximum stack height (mm)	300	300
Maximum thicknes (mm)	5	5
Minimum thicknes (mm)	0,7	0,7
Maximum part weight (kg)	5	5
Unloading		
Belt conveyor buffer length (mm)	600 unloading +600	600 unloading +600
Area for gravity unloading (mm)	1200 x 800	1200 x 800
Connected load (kWa)	5	6
Approx. weight (kg)	3000	6000





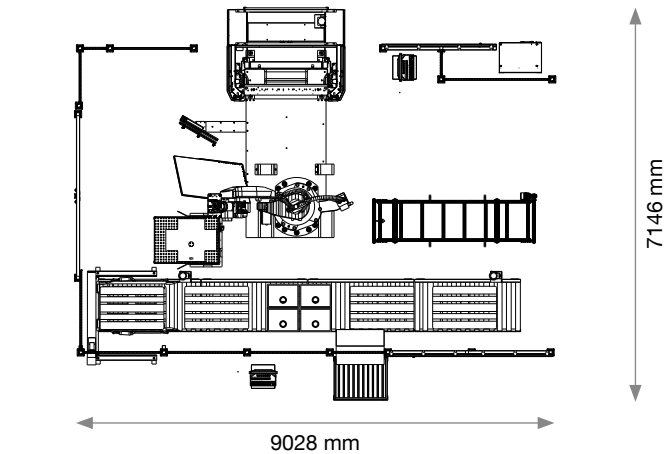
STANDARD

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)	60
Number of axes	6
Pose repeability (mm)	+/-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	1500 x 800
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Maximum thicknes (mm)	5
Minimum thicknes (mm)	0,7
Maximum part weight (kg)	30
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



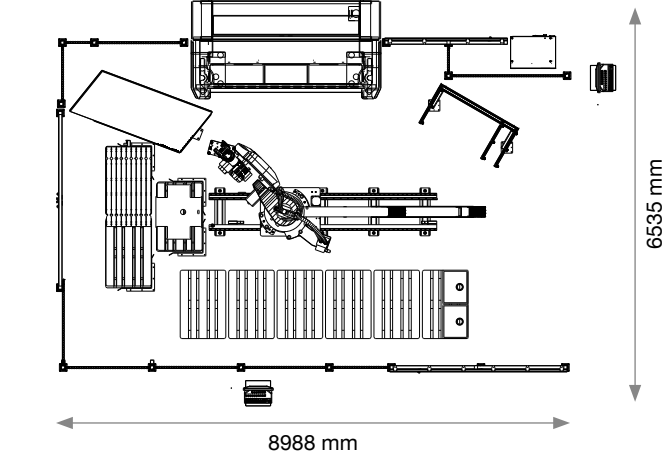
MAX

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)	60
Number of axes	6
Pose repeability (mm)	+/-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	1500 x 800
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Maximum thicknes (mm)	5
Minimum thicknes (mm)	0,7
Maximum part weight (kg)	30
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



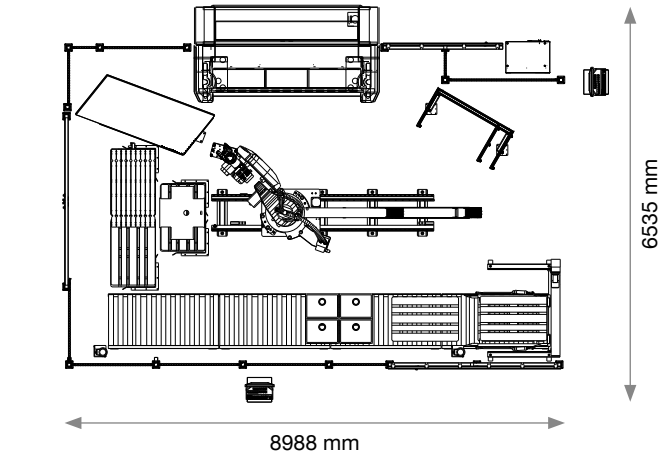
STANDARD

technical data	cell 2560
Max. bending force (kN)	500 / 600
Bending length (mm)	2550
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)	60
Number of axes	7
Pose repeability (mm)	+/-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	2500 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Maximum thicknes (mm)	5
Minimum thicknes (mm)	0,7
Maximum part weight (kg)	30
Unloading	
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	8500



MAX

technical data	cell 2560
Max. bending force (kN)	500 / 600
Bending length (mm)	2550
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)	60
Number of axes	7
Pose repeability (mm)	+/-0.06
FX Cell	
Loading	
Maximum parts dimension 1 stack (mm)	2500 x 1000
Minimum parts dimension (mm)	50 x 100
Maximum stack height (mm)	300
Maximum thicknes (mm)	5
Minimum thicknes (mm)	0,7
Maximum part weight (kg)	30
Unloading	
Area for gravity unloading (mm)	1200 x 800
Connected load (kWa)	6
Approx. weight (kg)	9500





sheet metal working center



automated electric press brake



electric press brake



horizontal bending machines



notching machines

EUROMAC®

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