



**Punching
Machines**

EUROMAC®

General Catalogue

Much more than a simple punching machine.

COMPLETE SOLUTION FOR SHEET METAL FORMING

The structure made of a single Meehanite® piece ensures greater productivity and reliability.

Designed according to the FEM method and with a resistance of 700 N/mm², it offers maximum stability and precision even at high speeds.

The punching cylinder is integrated into the structure for superior performance.

The high stability of the X-axis allows fast forming even of large and heavy sheets of metal supported by a third gripper and rolling-ball table.

The result is a highly productive machine with low running costs.

EXCEPTIONAL FLEXIBILITY

Quick and easy configuration with single tools (A, B, C, D up to Ø 88.9 mm) or multitools.

Flexibility counts for more than just the number of stations: there are up to 102 tools, 48 of which can be indexed.

A TRUE INTEGRATED FORMING SYSTEM

Euromac punching machines are complete solutions for sheet metal forming, each able to perform punching, moulding, bending, ribbing and threading.

Euromac can reach where a laser cannot.

FLEX 2.0 Hybrid System

FORMING WITH MAXIMUM FLEXIBILITY

The best of electric and hydraulic.

The FLEX hybrid system combines the power of hydraulics with the precision and speed of electronic control, ensuring high performance and low consumption (8.5 kW installed power, 4.5 kW on average).

TOTAL CONTROL

- Speed up to 2000 strokes/min
- Full control of stroke, acceleration and pressure
- Maximum precision of moulding operations
- Deformation-free results on ribs and offsets

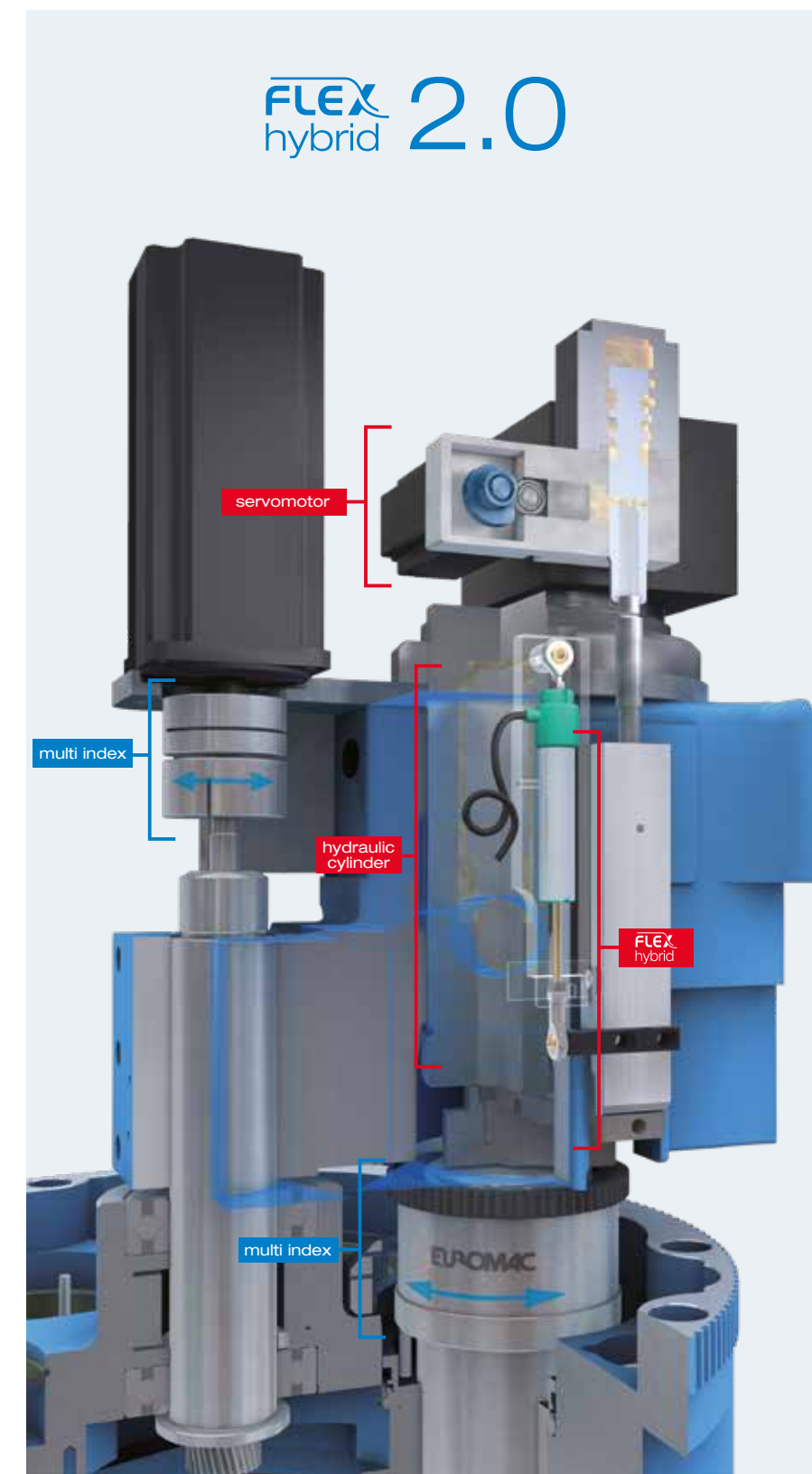
MULTI INDEX

Easy rotation, maximum productivity.

The Multi Index direct transmission system has fewer mechanical components and is therefore more reliable and easier to maintain.

BENEFITS

- Increased productivity
- Lower operating costs
- Rotation of single tools and FMTE 4, 5, 6, 10 and 16 multitools.



mtx_{plus}

FLEX
hybrid 6

FLEX
hybrid 12

Speed, stability,
exceptional flexibility
and precision.

STRUCTURE AND PERFORMANCE OF THE MTX PLUS

The structure of the MTX plus is made of a single Meehanite® spheroidal cast iron piece with a strength of 700 N/mm², designed according to the FEM method to ensure maximum strength and precision.

The punching cylinder is integrated into the cast piece, eliminating weld points and increasing reliability and stability. The compact design saves space and enables flexible handling of sheet metal in different formats.

Thanks to the FLEX system, the machine can work at high speeds while punching at a consistent depth.

The turret offers extensive configurability with 60 or 66 tools.

AUTOINDEX SYSTEM

The Multi Index direct transmission system has fewer mechanical components and is therefore more reliable, productive and quicker to maintain.

FLEX HYBRID TECHNOLOGY

Our innovative FLEX hybrid system combines the power of hydraulics with the precision and speed of electronic control.



Examples of possible tool configurations applicable to MTX



15 TOOLS
12 INDEXED TOOLS
3 STATIONARY TOOLS



27 TOOLS
24 INDEXED TOOLS
3 STATIONARY TOOLS



21 TOOLS
12 INDEXED TOOLS
9 STATIONARY TOOLS



43 TOOLS
20 INDEXED TOOLS
23 STATIONARY TOOLS

Optional device

Side discharge hatch with part detection sensor

- It eliminates micro-joints and reduces labour and secondary processing costs.
- The automatic unloading hatch allows the finished parts to exit without the need for operator intervention.
- Compatible with the unloading of parts measuring up to 1250×1000 mm (depending on configuration of the machine).

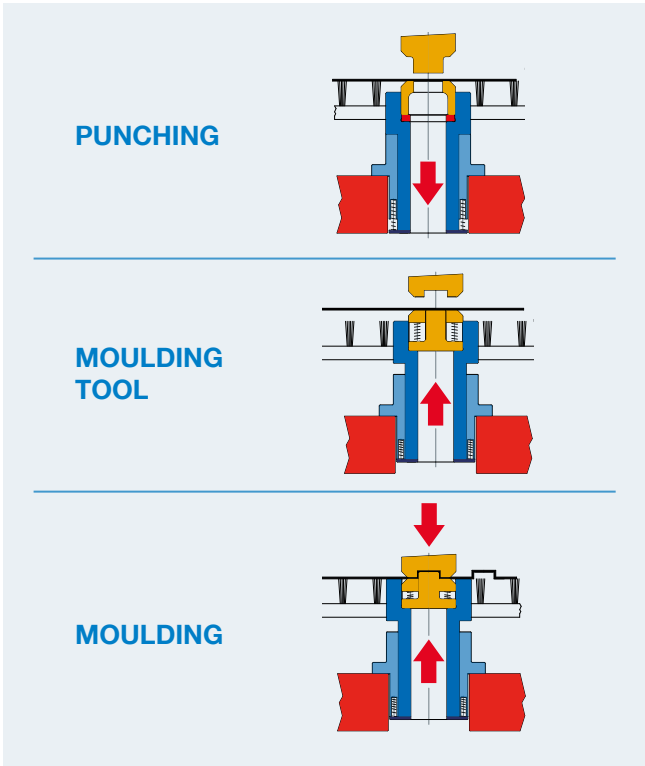
Available for MTX plus.

Optional device

Active matrix system

- The six B stations of the MTX FLEX 12 are equipped with a die lifting system for greater flexibility of moulding.
- The moulding dies, which are normally higher than the punching dies, are automatically lowered by 6 mm when not in use and returned to their position only when necessary.
- This eliminates configuration constraints and simplifies use and programming.

Available for MTX plus.



Optional device

Scrap vacuum system

- Prevents the deposit of scrap on the sheet metal, averting damage to the surface and the punch.
- Recommended for thin materials with protective film and for aluminium.
- This eliminates configuration constraints and simplifies use and programming.

Available for all models.



Configuration

Tool system

One of the distinctive features of Euromac machines is the high flexibility of the tool system.

All D stations can use single tools (A, B, C and D up to Ø 88.9 mm) or Euromac FMTE 4, 5, 6, 10 and 16 multitools.

PERFORMANCE AND BENEFITS

- Punching and boring operations up to 200 kN
- Fully guided punch to eliminate lateral bending
- Quick and easy tooling
- Adjustable pull-out force for processing both thick and delicate materials

The multitools, protected by international patents, guarantee precision and versatility regardless of application.

EFFICIENCY AND QUALITY

An anti-marking kit is available to avoid marks on delicate materials.

The punches of adjustable length increase durability (sharpening up to 8 mm of 1-mm sheet metal) and optimise the stroke.



QUATTRO TAP

no. 4 - threaders - from M3 to M10



FMTE 3

no. 1 - size of 50 x 5
no. 2 - Ø 31.7 mm



FMTE 4

no. 4 - Ø 31.7 mm



FMTE 5

no. 1 - size of 70 x 5
no. 4 - Ø 24 mm



FMTE 6

no. 6 - Ø 24 mm



FMTE 10

no. 2 - Ø 24 mm
no. 8 - 12.7 mm



FMTE 16

no. 16 - Ø 12.7 mm

mbx_{plus}

6 autoindex

Sturdy, accessible, fast
and much more...

STRUCTURE AND PERFORMANCE OF THE MBX PLUS

The structure of the MBX is made of a single Meehanite® spheroidal cast iron piece with a strength of 700 N/mm², designed according to the FEM method to ensure strength and precision.

This high-performance hydraulic machine reaches up to 600 strokes/min while maintaining the same speed as the axes of the MTX plus, and is ideal for moulding, bending and notching operations.

Can be configured with up to 96 tools, 48 of which are indexed.

AUTOINDEX SYSTEM

The Multi Index direct transmission system has fewer mechanical components and is therefore more reliable, productive and quicker to maintain.

OPTIONAL DEVICE

- Scrap vacuum system
- Combined rolling-ball tables
- FMTE 4, 5, 6, 10 and 16 multitools.



Examples of possible configurations of tools applicable to MBX



15 TOOLS
12 INDEXED TOOLS
3 STATIONARY TOOLS



23 TOOLS
20 INDEXED TOOLS
3 STATIONARY TOOLS



27 TOOLS
24 INDEXED TOOLS
3 STATIONARY TOOLS

Automatic loading and unloading system

The Euromac automatic system, compatible with all punching machines (except BX), is quick and easy to install: it is supplied pre-assembled and ready to start up in a few hours.

PRODUCTIVITY AND MANAGEMENT OF MATERIALS

Automatic loading and unloading significantly increases productivity. The system handles a wide variety of formats, from the smallest to the largest of sizes, with the utmost flexibility.

KEY DETAILS

- Sheet size: 500×200 to 3000×1500 mm
- Thickness: 0.5 – 6 mm
- Weight of sheet metal: up to 200 kg

SMALL FOOTPRINT

An MTX FLEX 1250/30-2500 with loading/unloading system occupies only 6270 × 5030 mm

DOUBLE LOAD PREVENTION

- System inclusive of:
- Magnetic locks
 - Shaking system
 - Air jet
 - Automatic sheet metal thickness measurement
 - Brushes for non-magnetic materials

SIMPLE, INTEGRATED CONTROL

Programming and management are centralised in a single console, for quick and efficient use.



LOADING

Max. load (kg)	3000
Max. height (mm)	300
Modifiable layout of suction cups	Yes



UNLOADING

Max. load (kg)	3000
Max. height (mm)	400



MANUAL LOADING

Manual loading remains possible to allow fast production of small parts or batches.



SIDE HATCH

In combination with machines with side hatches, two additional unloading points are provided:

- 1) for parts measuring up to 200×200 mm.
- 2) for parts measuring up to 1500×1000 mm depending on the size of the machine recess.



Software

TopPunch®

The software for simple and intuitive programming, directly on board the machine.

KEY FEATURES

- Intuitive interface to create parts in moments
- Complete control of tools (stroke, speed, acceleration, pressure)
- Automatic compensation of thickness of the sheet metal and management of wear of the punches
- Graphic management of the turret and automatic check of compatibility of the tools
- Multitasking: simultaneous programming, simulation, and production
- Parameters that can be modified according to the material
- Simple programming of batch production

CONSOLE AND CONNECTIVITY

The console is equipped with an uninterruptible power supply to prevent data loss. TopPunch® allows you to resume a program from any point.

It can also be installed on office PCs for simultaneous programming and continuous operation.

Diagnostics and teleservice allow remote assistance to be carried out for the purpose of updates, checks and troubleshooting.

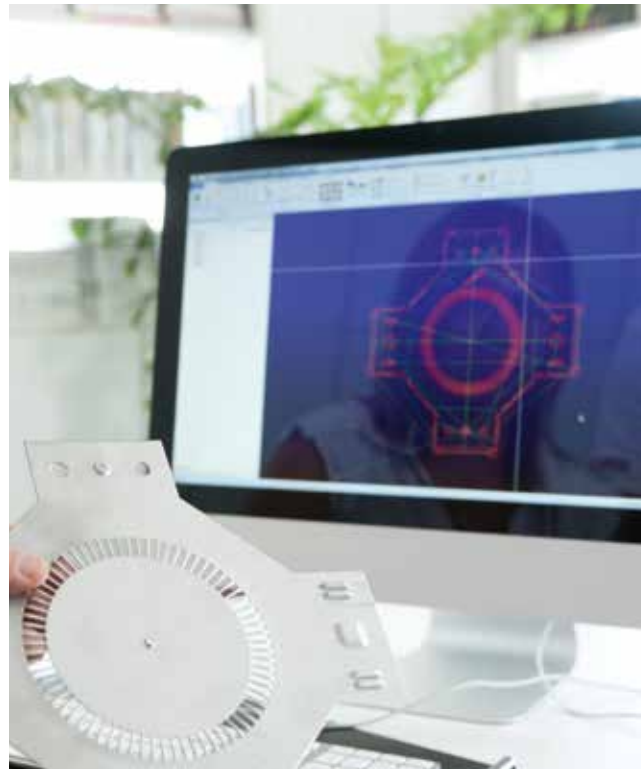
The graphical diagnostic system enables the rapid identification of any anomalies.

OFFICE PROGRAMMING

Direct import of DXF files and main CAD formats via CAD-CAM systems, to quickly generate programs in Euromac code.

LANGUAGES

Available in various languages, including: Italian, English, German, French, Spanish and many others.



Software

Easypunch®

The production software designed to automate the programming of punching machines.

Easypunch is the CAD/CAM software designed to automate the programming of CNC punching machines. It simplifies programming and makes best use of the sheet metal with intelligent and flexible nesting.

KEY FEATURES

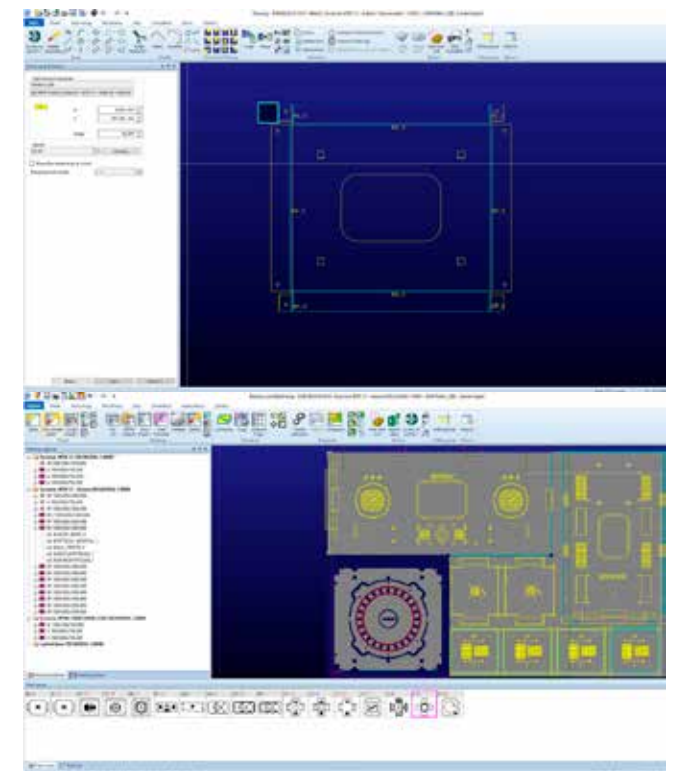
- Intuitive interface for fast and efficient programming
- Complete management of tools: standard, moulding, threading, offset and multitools
- Automatic, semi-automatic and manual nesting for maximum flexibility
- Optimisation of the layout of parts (Easypunch PLUS – optional)

EFFICIENCY AND INTEGRATION

- Library of parameters and custom management of components
- Open database for materials, orders and production
- 2D design with advanced tools
- Import/export compatible with the main CAD formats (DXF, DWG, IGES, DSTV)
- Integration with 3D systems (SolidWorks®, Inventor®, Solid Edge®, Catia®)

CONTROL AND PRODUCTIVITY

- Operation on the network with shared licenses (teamwork)
- Calculation of times and costs for parts and sheet metal
- Support for quoting and planning of production



mtx_{plus}



Optional devices:

- Third automatic hydraulic clamp.
- Unloading hatch measuring 1250 (Y) x 1000 (X) mm.
- Scrap vacuum system

Technical information

	mtx flex
	1250/30-2250 1250/30-2500
Max. punching force (kN)	300
Y-axis with Multitool/Monop. (mm)	
Y = 1250	1300 / 1250
X-axis (mm)	2250 / 2500
Automatic repositioning on X-axis (mm)	up to 10000
Punch stroke control (mm)	from 0.1 to 31
Servomotor-controlled hydraulic system	standard
Positioning accuracy (mm)	+/- 0.05
Moulding repeatability (mm)	+/- 0.1
Bidirectional Autoindex stations	3
Opening of grippers (mm)	11
Std automatic grippers	2
Max. number of strokes (1/min):	
Punching pitch 20 mm	375
Boring pitch 1 mm	1000
Marking	2000
Thickness (mm)	0.6 - 6
Max weight of sheet metal at low speed of axes (kg)	150*
USB ports	6
Power requirement (kW)	8.5
Average consumption (kW/h)	4.5
Approximate weight (kg)	
X = 2250	8400
X = 2500	8500
Dimensions (mm)	
X = 2250	3990 x 3630
X = 2500	4850 x 3630

* for sheet metal weighing more than 50 kg, the combined brush and rolling-ball tables are required

mbx_{plus}



Optional devices:

- Scrap vacuum system

Technical information

	mbx 6
	1250/30-1300 1250/30-2250 1250/30-2500
Max. punching force (kN)	300
Y-axis with Multitool/Monop. (mm)	
Y = 1250	1300 / 1250
X-axis (mm)	1300 / 2250 / 2500
Automatic repositioning on X-axis (mm)	up to 10,000
Servomotor-controlled hydraulic system	not available
Moulding repeatability (mm)	+/- 0.1
Bidirectional Autoindex stations	3
Opening of grippers (mm)	11
Std automatic grippers	2
Max. number of strokes (1/min):	
X = 1300 Punching pitch 20 mm	250
X = 2250 / 2500 Punching pitch 20 mm	300
X = 1300 Boring pitch 1 mm	550
X = 2250 / 2500 Boring pitch 1 mm	625
Thickness (mm)	0.6 - 6
Max weight of sheet metal at low speed of axes (kg)	150*
USB ports	6
Power requirement (kW)	8.5
Average consumption (kW/h)	4.5
Approximate weight (kg)	
X = 1300	8100
X = 2250	8400
X = 2500	8500
Dimensions (mm)	
X = 1300	2230 x 3630
X = 2250	3990 x 3630
X = 2500	4850 x 3630

* for sheet metal weighing more than 50 kg, the combined brush and rolling-ball tables are required

ZX_{plus}



Optional devices:

- Third automatic hydraulic clamp
- Scrap vacuum system

Technical information

	zx flex
	1250/30-1300 1250/30-2250 1250/30-2500
Max. punching force (kN)	300
Y-axis with Multitool/Monop. (mm)	1300 / 1250
X-axis (mm)	1300 / 2250 / 2500
Automatic repositioning on X-axis (mm)	up to 10,000
Punch stroke control (mm)	from 0.1 to 31
Servomotor-controlled hydraulic system	standard
Positioning accuracy (mm)	+/- 0.05
Moulding repeatability (mm)	+/- 0.1
Bidirectional Autoindex stations	1
Opening of grippers (mm) - standard	11
Std automatic grippers	2
Max. number of strokes (1/min):	
Punching pitch 20 mm	375
Boring pitch 1 mm	1000
Marking	2000
Thickness (mm)	0.6 - 6
Max. thickness (mm) with opt. grippers 13 mm (for copper / aluminium)	12.5
Max weight of sheet metal at low speed of axes (kg)	150*
USB ports	6
Power requirement (kW)	8.5
Average consumption (kW/h)	4.5
Approximate weight (kg)	
X = 1300	7900
X = 2250	8200
X = 2500	8300
Dimensions (mm)	
X = 1300	2230 x 3630
X = 2250	3990 x 3630
X = 2500	4850 x 3630

* for sheet metal weighing more than 50 kg, the combined brush and rolling-ball tables are required

bx_{plus}



Optional devices:

- Scrap vacuum system

Technical information

	bx autoindex
	1250/30-1300 1250/30-2250 1250/30-2500
Max. punching force (kN)	300
Y-axis with Multitool/Monop. (mm)	
Y = 1250	1300 / 1250
Punching accuracy (mm)	+/- 0.05
Opening of grippers (mm) - standard	11
Max. number of strokes (1/min):	
Punching pitch 20 mm	250
Boring pitch 1 mm	550
Thickness (mm)	0.6 - 11
Max. thickness (mm) with standard grippers	11
Max. thickness (mm) with opt. grippers 13 mm (for copper / aluminium)	12.5
Max weight of sheet metal at low speed of axes (kg)	150
USB ports	6
Power requirement (kW)	8.5
Approximate weight (kg)	
X = 1300	7900
X = 2250	8200
X = 2500	8300
Dimensions (mm)	
X = 1300	2230 x 3630
X = 2250	3980 x 3630
X = 2500	4850 x 3630

* for sheet metal weighing more than 50 kg, the combined brush and rolling-ball tables are required

Euromac meets your ambitions



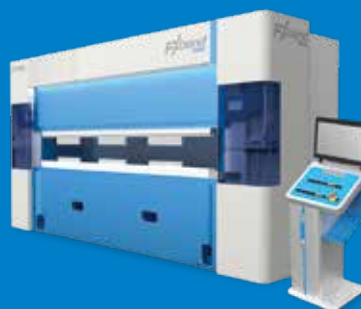
INDUSTRY 4.0



Automated Punching Machines



Automated Press Brakes



Electric Press Brakes

EUROMAC®

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Horizontal Presses



Notching Machines