



punching machines

EUROMAC®

Euromac meets your ambitions

Euromac is a well known worldwide supplier of machines for sheet metal working, such as CNC punching, bending and notching machines utilizing the most recent technologies and constantly refined by our design engineers to meet the most demanding market requirements for flexibility.

Euromac is a proud to be Italian company, with global presence in the sheet metal industry.



Euromac, established in 1986, designs, develops, produces and sells conventional and CNC fabricating machine tools. The vast experience of our design engineers combined with the knowledge of our customers renders Euromac both innovative and dynamic.

Euromac creates innovative products which are at the same time easy to use. We are accomplishing our objectives by utilizing the most recent technologies as well as constantly refining and adding to our designs and the results show it!

Euromac machines are tailored to meet demanding customers requirements; the combination of state-of-the-art technologies and unique concepts assure you advanced, productive and competitive products at all times.

EUROMAC®

C- Frame monoblock

Our machine frame is a normalized nodular cast iron monoblock in **Meehanite®** with **700N/mm²**, designed with FEM (Finite Element Method), punching head directly built into the monoblock frame. In practical terms this means a more robust (no welding points), precise and reliable structure being at the same time compact, hence using less floor space and allowing flexibility in loading different sheet sizes.

Tooling flexibility beyond conventional means

Choose the setup you need: from Single tool (A, B, C or D up to Ø 88,90 mm) to Multitool. Why talk about number of "stations"? What you need is the flexibility to easily and quickly setup your machine with the proper tools needed for your job. Euromac gives you this flexibility, we talk about number of "tools" (up to **66 total tools and 30 indexable**, on MTX models).



With Euromac you get the maximum punching flexibility



FLEX Hybrid System

Which one is better Electrical or Hydraulic? Why don't get the best of both systems? Our unique **Hybrid System** which we call **Flex** (2 patents pending) has the power of the hydraulics combined with the precision of the electronic control. Low power requirement of only 8,5 kw and **averaging only 4,5 kw** while punching. Besides being able to set the length of up and down stroke, the Flex System for each tool lets you set:

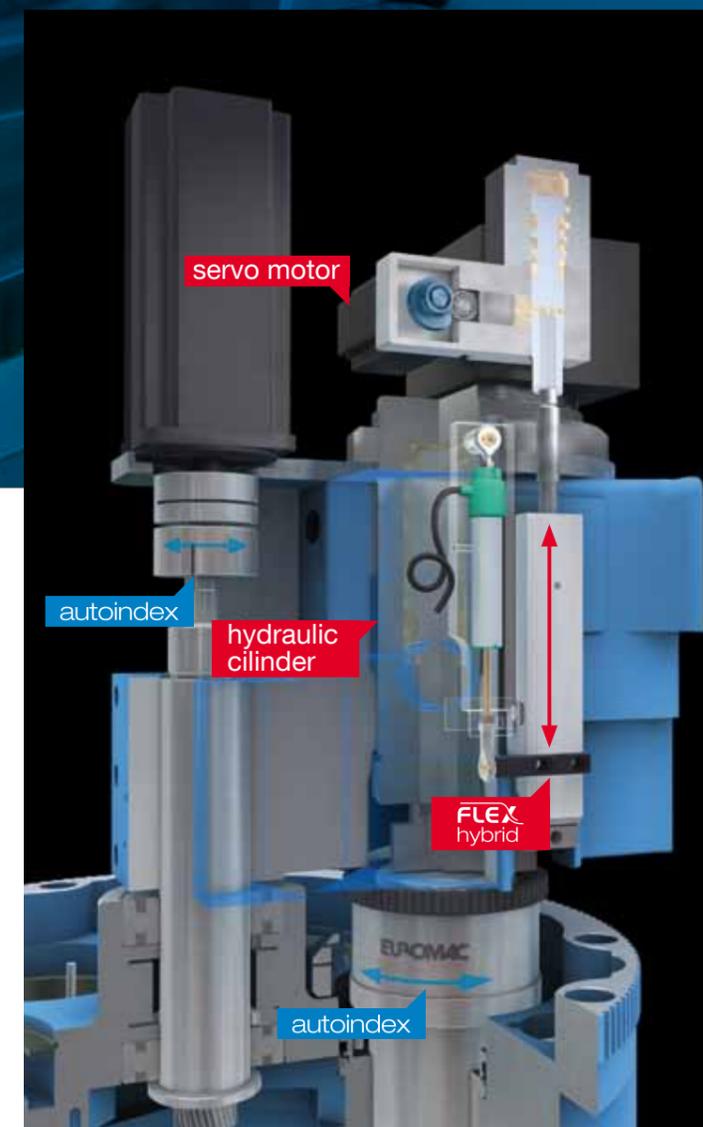
- Hit rate from 10 to 2000 Hits/min
- Acceleration/Deceleration of ram movement
- Dwell time

Thanks to the Flex System any Euromac owner now commands unlimited forming capabilities as well as the tools to process any application in a fast, reliable and cost efficient manner.

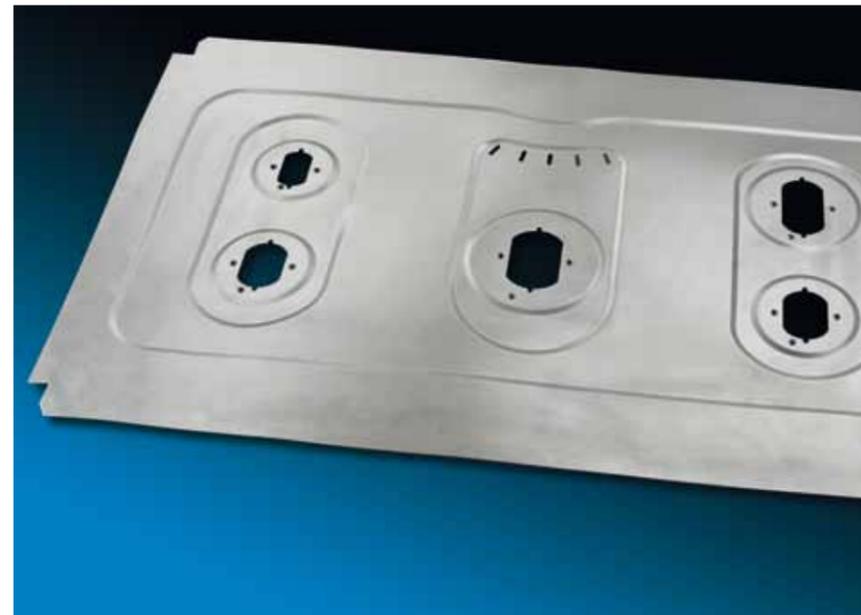
Innovative Autoindex system

The unique **direct drive** tool rotation in the Euromac autoIndex stations reduces mechanical components and adds strength, resulting in increased reliability and reduced maintenance. This improves productivity while reducing cost (patented).

Multiindex: Index stations are capable of index (i.e. rotate) with both single tools or our **XMTE 4, XMTE 6 and XMTE 10 Multitools**.

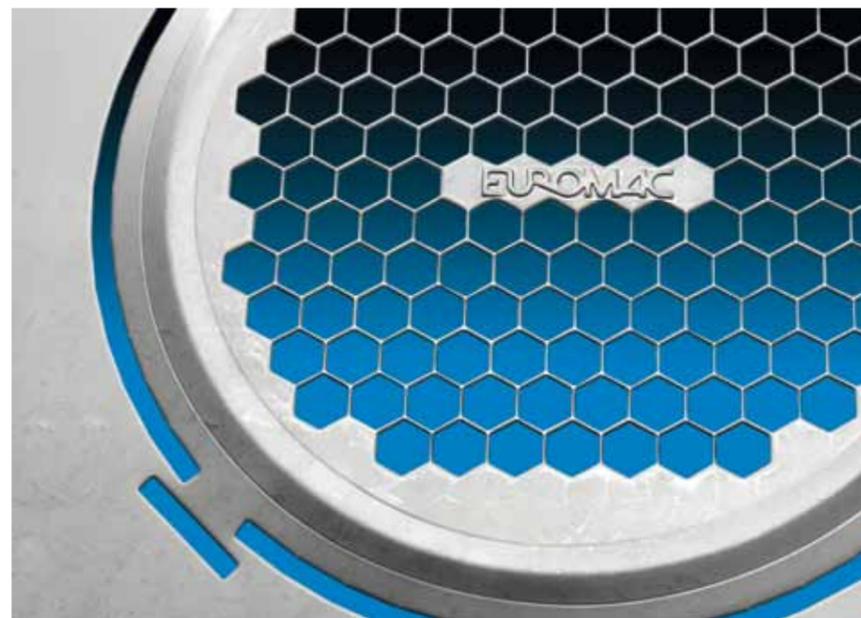


mtx
FLEX 6
hybrid



Side Chute Door

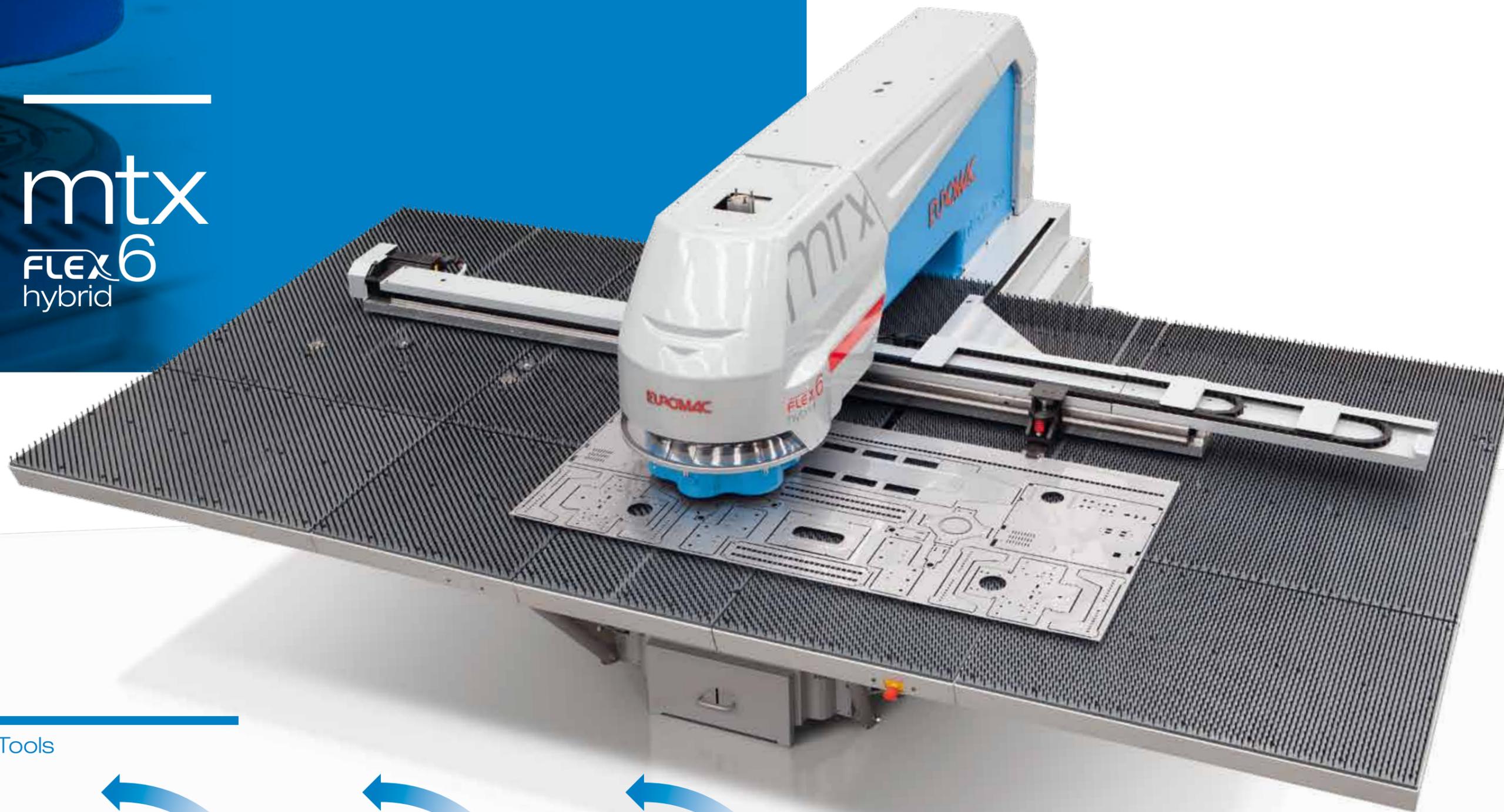
Automatic chute door to unload finished parts up to 1200 (Y) x 900 (X) mm.
Optional on all MTX FLEX 6, 12 models with 1250 Y axis.



mtx

FLEX 6

hybrid



Tools



15 Tools
12 Indexed tools
 3 Fixed tools



23 Tools
20 Indexed tools
 3 Fixed tools



27 Tools
24 Indexed tools
 3 Fixed tools

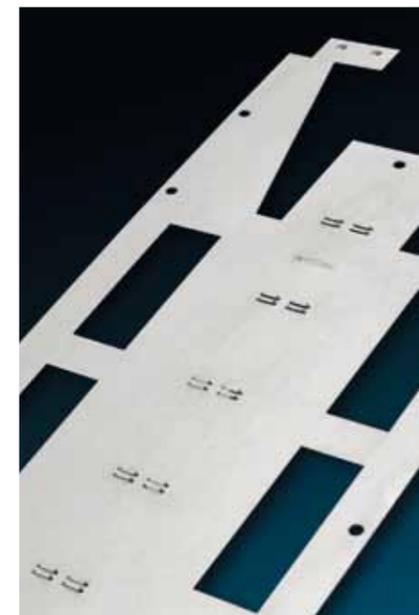
strong
 affordable
 easy
 fast
 flexible

The MTX FLEX 6 meets all needs for a high performance production machine while reducing your cost of ownership. Let's look at the performances: capable of employing up to **60 tools**, of which up to **30** can be **rotated 360°**, in one single setup, the 6 full sized D stations provide far more than most jobs need. Combined with the **automatic positioning clamps** (patented and standard on ZX, MBX, MTX 6 and 12 models) its making job changeover easier. Set up for multiple jobs or have additional multitools already configured sitting on the sideline for the

next job while the machine is working. The flexibility of the unique MTX Turret System allows you to choose the right setup for any task, simply and quickly. This increases productivity and, in combination with the low cost of ownership, maximizes your profit. The MTX FLEX 6, is the right machine for you if you want to increase part output but still need full flexibility for smaller runs without spending more hours on the job. Combine it with our automatic loading and unloading system and get unattended productivity on top of everything else.

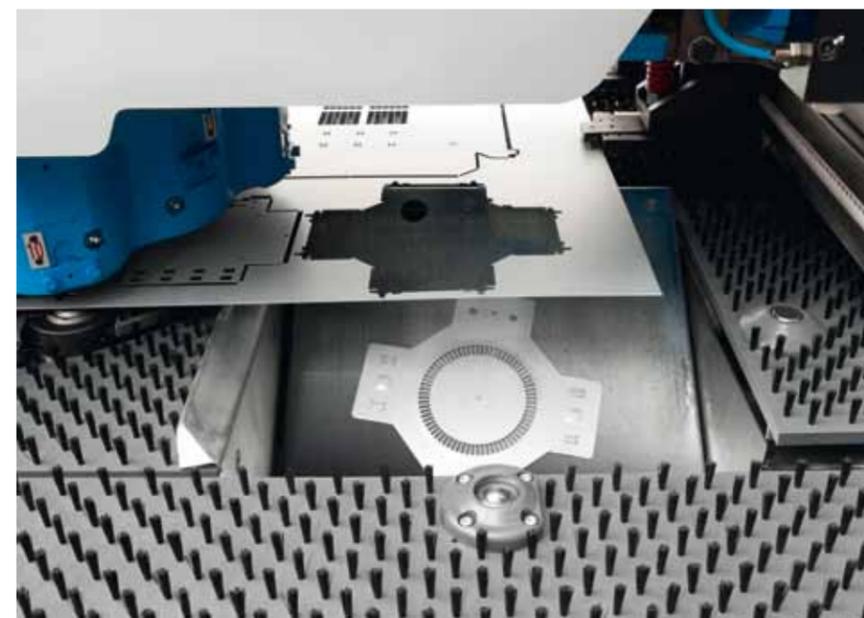
mtx
FLEX 12
hybrid

FLEX 12
hybrid



Chute door

Unload finished parts from 80x80 mm to 350x350 mm with standard part through detection sensor. Available on MTX Flex 6, 12 and ZX FLEX models.



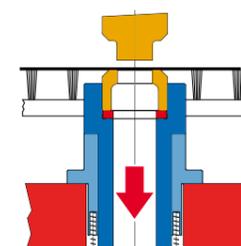
Upforming System

The 6 B stations of the MTX FLEX 12 turret feature **retractable dies** for more forming flexibility. Standard thick turret-tooling forming tools usually have an "active" die. These dies protrude a few millimeters over the normal height of a standard

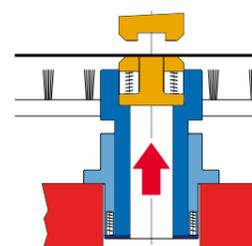
punch die, requiring special attention to setup and programming. All additional 6 B-Stations of the MTX FLEX 12 can be raised up to 6 mm only when the tool is actually employed and lowered when it is passive eliminating any restriction.



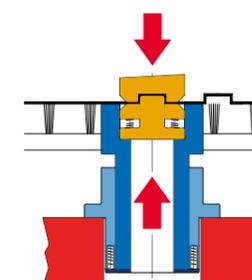
PUNCHING



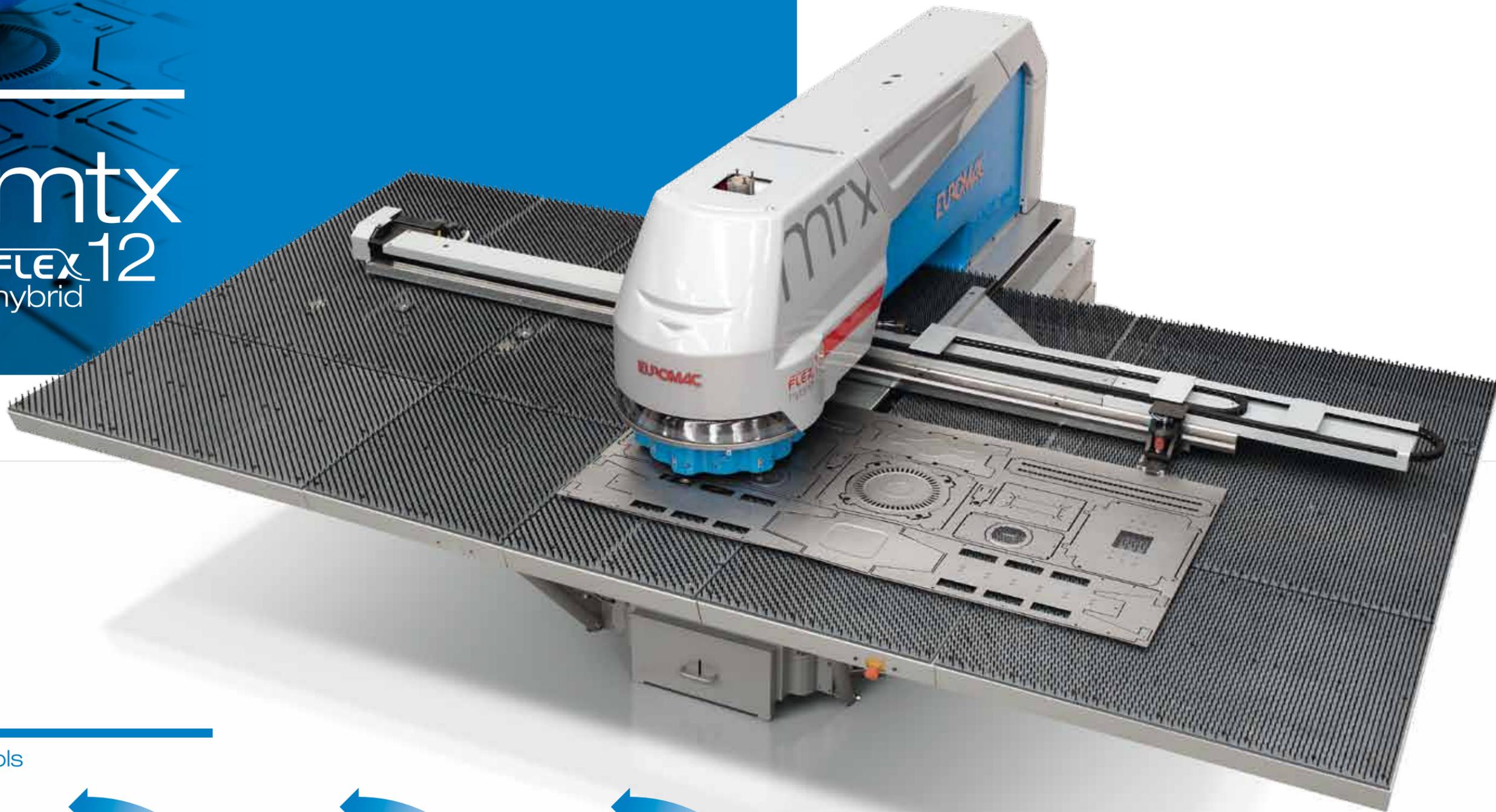
FORMING TOOLS



FORMING



mtx FLEX 12 hybrid



Tools



21 Tools
12 Indexed tools
9 Fixed tools



29 Tools
15 Indexed tools
14 Fixed tools



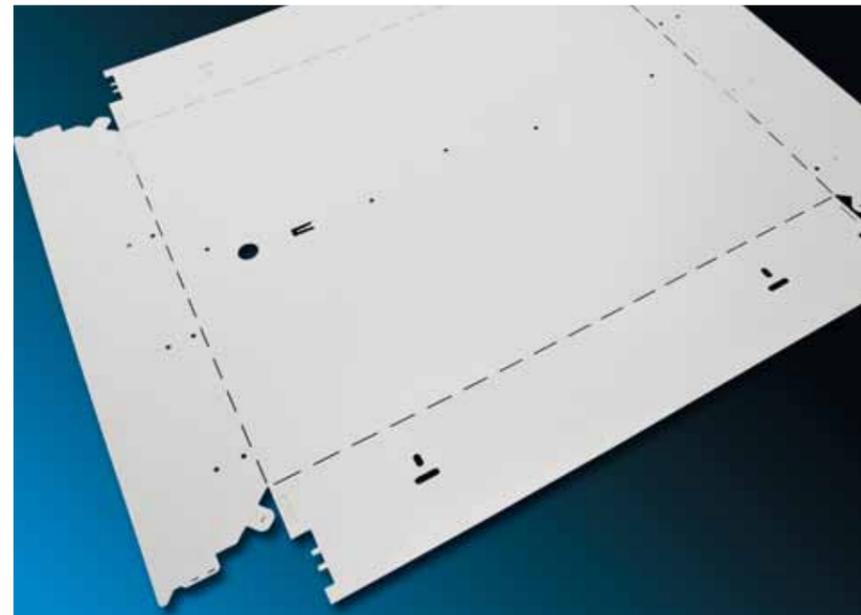
43 Tools
20 Indexed tools
23 Fixed tools

strong
affordable
easy
fast
flexible
beyond...

If the MTX Flex 6 delivers outstanding performances the **MTX Flex 12 goes beyond**. The MTX Flex 12 has all the flexibilities and options of the MTX FLEX 6 models: the automatic positioning clamps (patented and standard on ZX, MBX, MTX 6 and 12 models), the easy sheet load balls, a flexible turret system quick and easy to setup and able to adapt to any job and of course the unique FLEX Hybrid technology. The MTX FLEX 12 goes beyond and meets the most demanding tasks of modern punching becoming a real **forming specialist**. In addition to the 6 D type (up to Ø 88.9 mm) of the MTX Flex 6 turret, the MTX

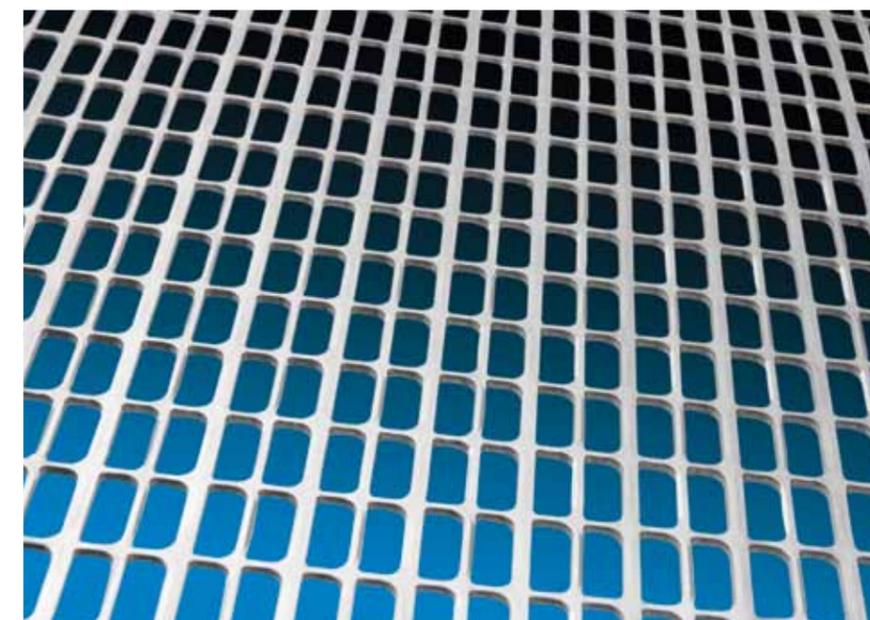
Flex 12 has 6 B type (up to Ø 31.7 mm) with active die capacity. All completely combined in a compact turret (less than Ø 600 mm) with 27 mm turret gap, hence allowing full forming versatility. The 6 B-sized stations increase capacity but more importantly they feature retractable dies which allow even more forming capabilities. See the up-forming description on the side page. Thanks to the extra reach of the B stations, the MTX FLEX 12 becomes the perfect companion for the trap door option, giving you the maximum versatility in off-loading your finished parts.

ZX
FLEX
hybrid

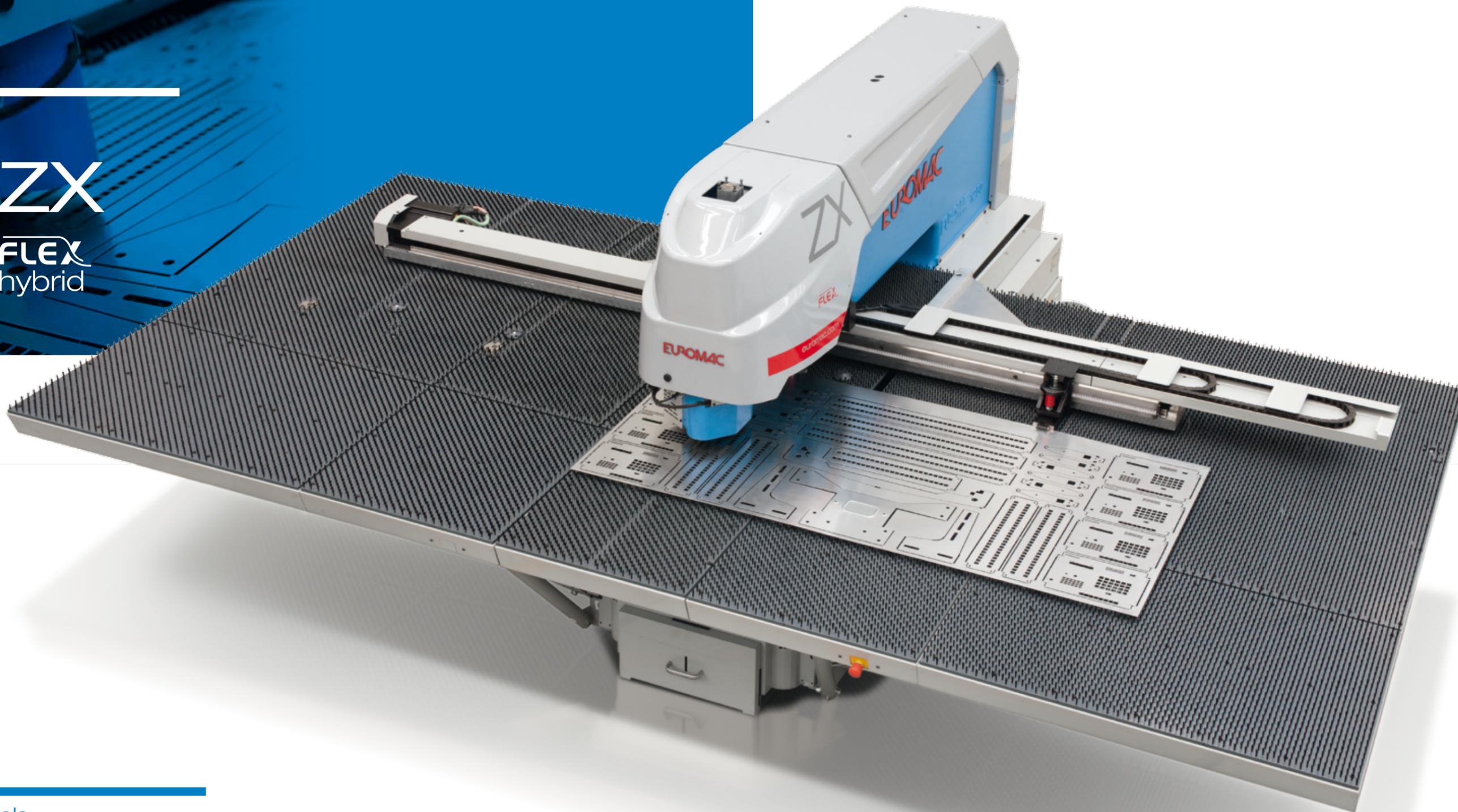


Not Just a Single Station, call it a Miniturret

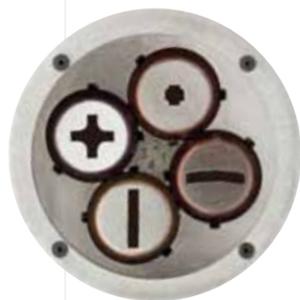
With the 360° bidirectional rotation of either standard single thick turret tools (from A to D size – max Ø 88.9 mm) or any multitool (XMTE 4, XMTE 6, XMTE 10) and of any tool within the multitools. Up to 10 indexable tools in one setup and if the job requires more, a **tool change needs only 45 sec.** of the operator's time.



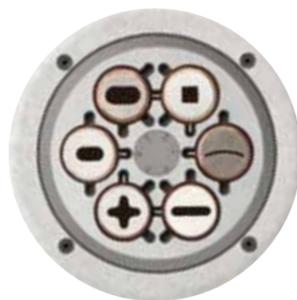
ZX
FLEX
hybrid



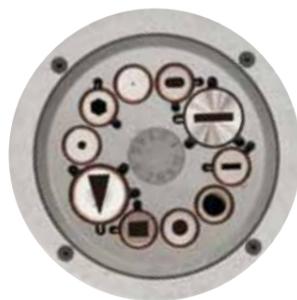
Tools



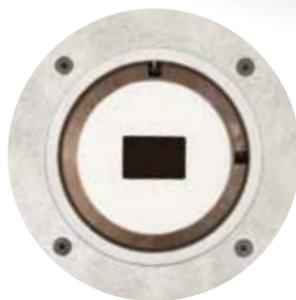
XMTE 4
4 - Ø 31.7 mm



XMTE 6
6 - Ø 24 mm



XMTE 10
2 - Ø 24 mm /
8 - Ø 12.7 mm



Single Thick
Turret Tool
up to Ø 88.9 mm

strong
affordable
easy
fast

Do you really need a large turret system to be productive? Buying the "right" machine to perform a task is critical for success.

Would you buy a tank if you need to deliver flowers? Do you need 40 tools to produce cabinets? We believe that with up to 10 indexable tools in one set up your creativity can be unleashed.

With its outstanding performances of **1000 Hits/min** (1 mm step), the ZX offers full production capacity as well as full flexibility thanks to the **Flex Hybrid System** (described in page 5).

Punching machines product range

All Euromac machines comply with the most recent CE regulations.



Automatic loading/unloading system

Patent pending

Flexibility and productivity merge in "one"
Featuring a Unique, Compact and Robust design the Euromac Automatic Load/Unload System fits on all Euromac machines and it can be shipped fully assembled so that the installation at the customer site is made fast and easy.

Material Handling

As for all Euromac products, Flexibility is the keyword, one machine can handle a variety of formats. From minimum to maximum, all in-between sizes can be accommodated.

Max. dimensions (mm)	3000 x 1500
Min. dimensions (mm)	500 x 200
Thickness (mm)	0.5-6
Sheet Weight (kg)	up to 200

Avoidance of double sheet loading

Magnetic blocks	YES
Shaker system	YES
Air blow	YES
Automatic measurement of sheet thickness	YES
Separation brushes for non-magnetic materials	YES

Productivity is not only rated with the throughput of the machine, but other variables also come into play: operation and programming can sometimes be critical. Not with Euromac, thanks to the common console for programming, the MTX FLEX and the Euromac automatic loading and unloading system, operation is made fast and simple.

Low Space Requirements

MTX FLEX 1250/30-2500
+ load/unload system is only
L 6270 mm x W 5030 mm

Pallet station

Easy loading and unloading of material and produced parts combines with a great capacity to boost up your productivity.



Loading

max. load (kg)	3000
max. height (mm)	300
adjustable suction cup pattern	YES

Unloading

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

Loading of raw sheets on the upper table - unloading of the processed sheets on the lower table.

Manual loading is still possible in order to quickly process small parts or lots.

bx bx

multitool autoindex



Optionals
Vacuum system.

technical data

	bx multitool 1000/30-1250 1000/30-2000	bx autoindex 1000/30-1250 1000/30-2000 1250/30-2000	bx autoindex 1000/50-2000
Max. punching force (kN)	300	300	500
Y axis with Multitool/ Monopunch (mm)			
Y = 1000	1050 / 1000	1050 / 1000	1050 / 1000
Y = 1250	-	1250 / 1300	-
Position accuracy (mm)	+/- 0.1	+/- 0.1	+/- 0.1
Opening of clamps (mm) - standard	7	7 / 11	11
Max. hit rate (1/min):			
Punching with 20 mm pitch	250	250	140
Nibbling with 1 mm pitch	550	550	250
Thickness range (mm)	0.6 - 8	0.6 - 8	0.6 - 12
Max. thickness (mm) with standard clamps	8	8	12
Max. thickness (mm) with op. clamps 13 mm (for copper / aluminium)	12.5	12.5	12.5
Max. weight at reduced axis speed (kg)	150	150	150
USB port	6	6	6
Installed power (kW)	6	7.5	8.5
Approx. weight (kg)			
X = 1250	4000	4000	6000
X = 2000	5000	5000	7000
Overall dimensions (mm)			
X = 1250	2240 x 3250	2240 x 3250	-
X = 2000	3980 x 3250	3980 x 3630	3980 x 3630

1 inch = 25.4 mm

* for sheets of over 50 kg weight combined brush and balls tables are required

ZX

FLEX
hybrid



Optionals
Third automatic clamp.
Chute door 350x350 mm on Y-1250/1500 models.
Vacuum system.

technical data

	ZX flex 1000/30-1300 1000/30-2250	ZX flex 1250/30-1300 1250/30-2250	ZX flex 1500/22-2500
Max. punching force (kN)	300	300	220
Y axis with Multitool/Monopunch (mm)	1050 / 1000	1300 / 1250	1550 / 1500
X axis (mm)	1300 / 2250	1300 / 2250	2500
Automatic repositioning in X (mm)	up to 10000	up to 10000	up to 10000
Numerically control stroke depth (mm)	from 0.1 to 31	from 0.1 to 31	from 0.1 to 31
Hydraulic servomotor controlled system	Standard	Standard	Standard
Positioning accuracy (mm)	+/- 0.05	+/- 0.05	+/- 0.05
Precision in forming repeatability (mm)	+/- 0.1	+/- 0.1	+/- 0.1
Bidirectional "D" Autoindex stations	1	1	1
Opening of clamps (mm) - standard	7	11	11
Automatic positioning clamps	2	2	2
Max. hit rate (1/min):			
Punching with 20 mm pitch	375	375	375
Nibbling with 1 mm pitch	1000	1000	1000
Marking	2000	2000	2000
Thickness range (mm)	0.6 - 8	0.6 - 8	0.6 - 5
Max. thickness (mm) with op. clamps 13 mm (for copper / aluminium)	12.5	12.5	12.5
Max. weight at reduced axis speed (kg)	150*	150*	150*
USB port	6	6	6
Installed power (kW)	8.5	8.5	8.5
Average consumption (kW/h)	4.5	4.5	4.5
Approx. weight (kg)			
X = 1300	4000	6000	-
X = 2250	5000	7000	-
X = 2500	-	-	7600
Overall dimensions (mm)			
X = 1300	2240 x 3250	2240 x 3630	-
X = 2250	3980 x 3250	3980 x 3630	-
X = 2500	-	-	4840 x 3880

* for sheets of over 50 kg weight combined brush and balls tables are required

mbx

6
autoindex



Optionals
Vacuum system.

technical data

	mbx 6 1250/30-2250	mbx 6 1000/50-2250
Max. punching force (kN)	300	500
Y axis with Multitool/Monopunch (mm)		
Y = 1000		1000 / 1050
Y = 1250	1300 / 1250	
X axis (mm)	2250	2250
Automatic repositioning in X (mm)	up to 10000	up to 10.000
Hydraulic servomotor controlled system	not available	not available
Position accuracy (mm)	+/- 0.1	+/- 0.1
Bidirectional Autoindex stations	3	3
Opening of clamps (mm)	11	11
Automatic positioning clamps	2	2
Max. hit rate (1/min - 1 mm stroke):		
Punching with 20 mm pitch	250	190
Nibbling with 1 mm pitch	600	450
Thickness range (mm)	0.6 - 6	0.6 - 10
Max. weight at reduced axis speed (kg)	150*	150*
USB port	6	6
Installed power (kW)	8.5	8.5
Average consumption (kW/h)	4.5	4.5
Approx. weight (kg)		
X = 2000		9000
X = 2250	7000	
Overall dimensions (mm)		
X = 2000		3980 x 3630
X = 2250	3980 x 3630	

* for sheets of over 50 kg weight combined brush and balls tables are required

mtx mtx

FLEX 6 hybrid FLEX 12 hybrid



Optionals
Third automatic clamp.
Chute door 350x350 mm on Y-1250/1500 models.
Chute door 1250 (Y) x 900 (X) mm available for MTX Flex with Y 1250 models.
Vacuum system.

technical data

	mtx flex 1250/30-1300 1250/30-2250 1250/30-2500	mtx flex 1500/22-2500
Max. punching force (kN)	300	220
Y axis with Multitool / Monopunch (mm)		
Y = 1250	1300 / 1250	-
Y = 1500	-	1550 / 1500
X axis (mm)	1300 / 2250 / 2500	2500
Automatic repositioning in X (mm)	up to 10000	up to 10000
Numerically control stroke depth (mm)	from 0.1 to 31	from 0.1 to 31
Hydraulic servomotor controlled system	standard	standard
Position accuracy (mm)	+/- 0.05	+/- 0.05
Precision in forming repeatability (mm)	+/- 0.1	+/- 0.1
Bidirectional Autoindex stations	3	3
Opening of clamps (mm)	11	11
Automatic positioning clamps	2	2
Max. hit rate (1/min):		
Punching with 20 mm pitch	375	375
Nibbling with 1 mm pitch	1000	1000
Marking	2000	2000
Thickness range (mm)	0.6 - 6	0.6 - 5
Max. weight at reduced axis speed (kg)	150*	150*
USB port	6	6
Installed power (kW)	8.5	8.5
Average consumption (kW/h)	4.5	4.5
Approx. weight (kg)		
X = 1300	6500	-
X = 2250	7000	-
X = 2500	7800	8800
Overall dimensions (mm)		
X = 1300	2240 x 3630	-
X = 2250	3980 x 3630	-
X = 2500	4840 x 3630	4840 x 3880

* for sheets of over 50 kg weight combined brush and balls tables are required



TopPunch® is the special Euromac designed control software that runs on the machine

Euromac has put a lot of effort in the console design to allow a simple, intuitive, yet productive programming of the machine. **TopPunch®** is the special Euromac designed control software that runs on the machine. The TopPunch® features:

- An easy to use and learn, intuitive interface allows to produce parts in seconds
- Total control on your punch list allowing you to program for each tool: stroke,

speed, acceleration and dwell time. Automatic compensation for material thickness. Programmable warnings for the operator when grinding is needed.

- Graphically manage your turret setup and automatic check for consistency between the tools in the provided program and the actual configuration.
- Multitasking: program, test, simulate the next part while the machine is running
- Customize operation according to the material; you can program specific operations to be done on specific materials: different amount of lubrication, axis acceleration, suggested die clearance
- Batch manager: it is not only possible but also easy to create a job queue to have your whole production for the day, week and beyond completely managed.

Console

The Euromac console for all machines is equipped with a UPS for electrical backup avoiding data loss in case of a power failure. TopPunch® also allows you to recover a program from any point in case of breakdown or electrical blackout. An additional installation of the control software TopPunch® can be installed on any PC or Laptop allowing you not only to program simultaneity but also to eventually backup the console and run the machine with a standard PC in case of failure. Teleservice and diagnostic: all you need to do is to connect the console to the Internet, and thanks to a customized software Euromac will safely and remotely connect to your console to update, diagnose, check or take full control. Online graphical diagnostics allows the operator to quickly check sensors, signals or machine state to quickly locate the cause of a malfunction.

Off-line programming

Customer generated DXF (or most common CAD formats) can be converted into Euromac CNC code by external CAD-CAM packages, readily available from many specialized vendors or through our dealer network.

Languages

TopPunch® is available in the following languages: Chinese, Czech, German, Greek, English, Spanish, Persian, Suomi, French, Hungarian, Italian, Korean, Lithuanian, Dutch, Polish, Romanian, Russian, Slovenian, Thai, Turkish and others.

Programming



Tooling

Definitely one of the unique features of the Euromac punch presses is the flexibility of the tool system



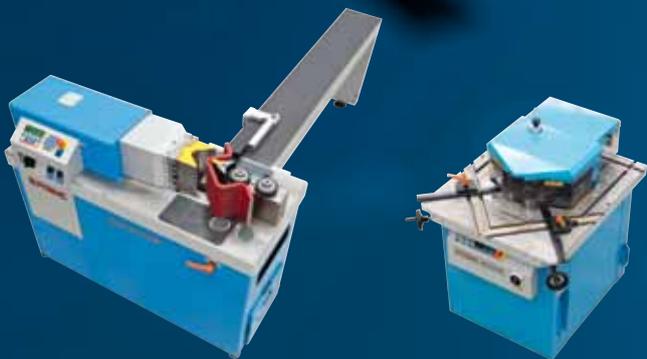
All machines accept in their D stations either a single thick turret tool (type A, B, C and D – max Ø 88.9 mm) or a Euromac Multitool **XMTE 4**, **XMTE 6** or **XMTE 10**. All Euromac Multitools can nibble or punch up to a **200 KN capacity**. Euromac multitools are unique and protected by several patents. Tool setup is fast and simple, thanks to the unique design. The punch is **fully guided** in addition, the hammer does not generate any side load. The **stripping force can be adjusted** easily by changing or removing the top springs. This allows you to punch both thick and thin materials, as well as very soft materials (patented). **Anti-marking** system (optional), to avoid marking on soft or delicate materials. All multitool tools are also available in **adjustable length** punch type which improves grinding life, up to three times (8mm grind life when using 1mm thick material), and optimizes your ram stroke by simply rotating the punch head.



Thick Turret Tools
A - B - C - D sizes and all forming tools



Maximum punching flexibility



punching/ bending/ notching/ machines

Euromac also manufactures a line of horizontal bending (Digibend) machines and notching machines.

For more information please visit www.euromac.com or contact your local Euromac representative.

Disclaimer. Actual product may differ slightly from images shown in this catalogue. All information and data on this catalogue is subject to change without notice Ver. 1

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