

AccurMAX

AccurMAX Fitter

ULTRA

E2000/E3000



**TRUE TO
SHAPE**



The AccurMax includes fully-electric AC servo drives on all axes with the advantages of energy savings, high speeds, high torque and virtually zero maintenance.

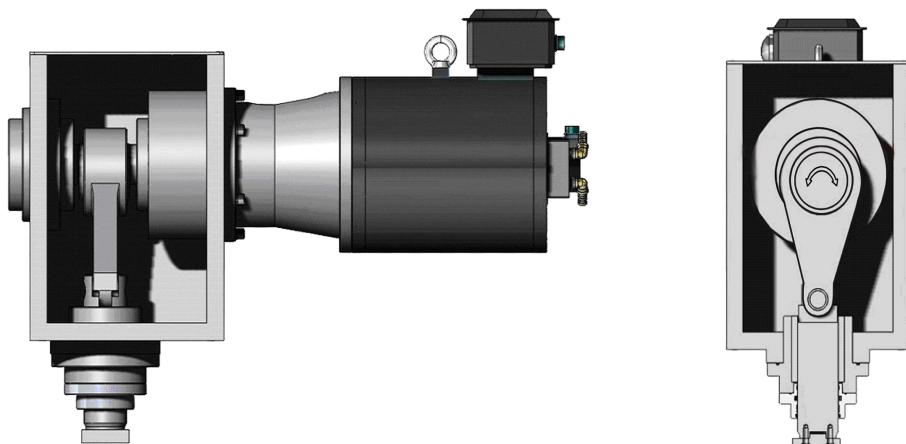
The AccurMax fully satisfies the market requirements for more variable and accurate punching by its optimal design concepts including heavy-duty O-frame, thick turret with hardened replaceable sleeves, flexible auto-indexing functionality, ability to incorporate multi tools, rapid turret indexing and generous travels.



1500mm×5000mm / 2000mm×5000mm Processing Scope

Ram Technology

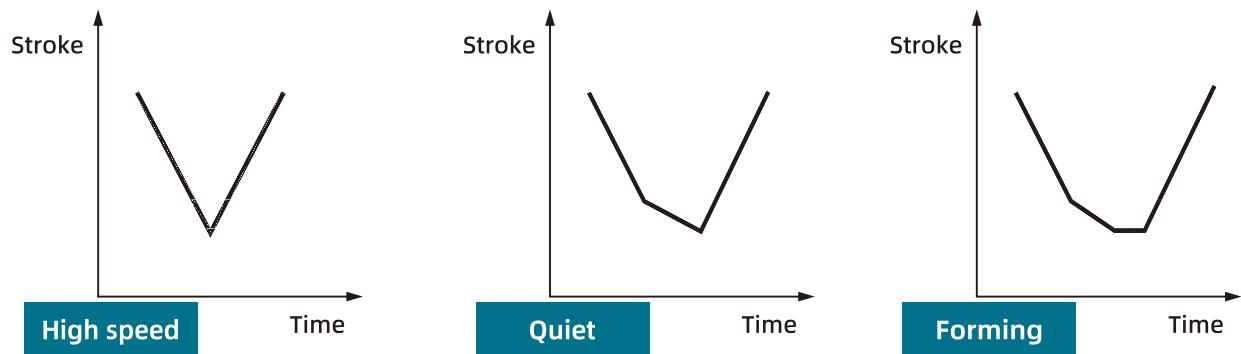
Servo Motor + Mechanism = Fast, Powerful, Economical & Reliable



↑ Drive the slider to move up and down
↓ by swinging left and right through
the connecting rod

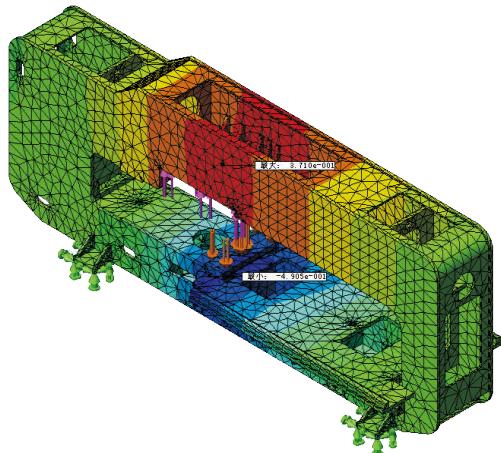
The eccentric shaft swings
left and right at the bottom
dead center position

The main AC servo motor powers the ram directly by means of a mechanical crank. The up and down motion of the ram is controlled by the rotation of the motor clockwise and counterclockwise. The torque creates the 20- or 30- tonne force to meet the requirements of the punching up to 6 mm mild steel. The ram stroke and speed can be adjusted easily to accommodate the various modes including high speed hitting, quiet punching, forming, marking, wheel cutting, wheel forming, etc.



Water cooler for the main AC servo motor and AC unit for the cabinet are standard equipment.

Frame



- The rigid welded structure;
- Full Thermal Annealing;
- All surfaces blasted prior to paint;
- Entire frame machined in a single set-up;
- Design cycle concluded with FEA to guarantee high durability and rigidity;
- Heavy-duty closed frame is best to resist the deflection;
- Wider structure can reach more horizontal rigidity and stability.



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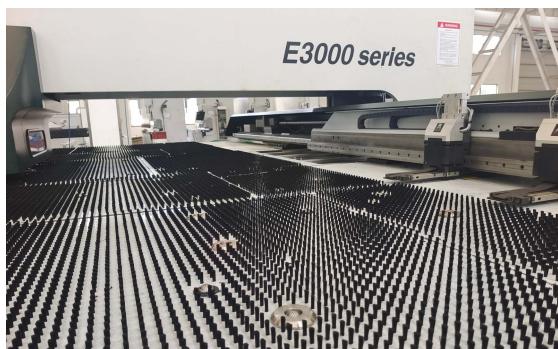


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Working Table



The design of our wing-style working table is not only good looking, it also opens up the space under the table. The sound-dampened table is composed of main table and outboard tables. The moving portions of the table run on massive linear guides resulting in extremely low noise and optimal support for large sheets.



Great density brush tabletop



High strength pneumatic floating clamps



Manual clamps



THK oversize linear guides



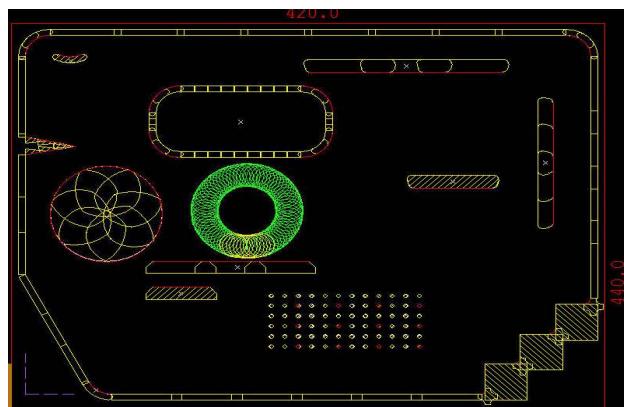
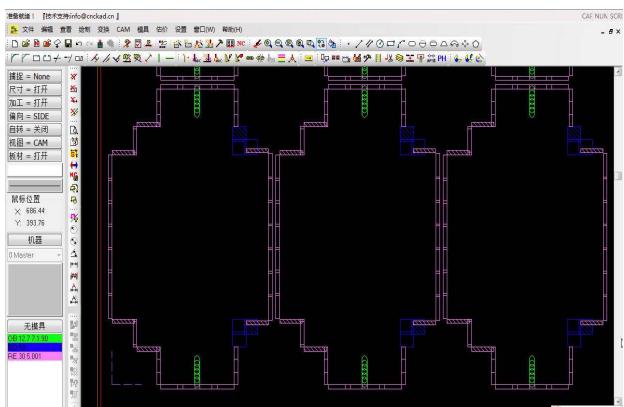
THK oversize ball screw and linear ways

- AccurMax is standard equipped with a high-density ball/brush table which minimizes potential surface damage caused by the rapid movements of the sheet. The brush/ball table runs with low noise levels. Ball-only or brush-only tables are optional.
- AccurMax uses THK ball screws and linear guides for axes, all driven by FANUC large-torque servo motors. The X-Axis includes a specially-designed floating support for the ball screw to minimize rotational forces and thereby permit much higher feed rates. All these features combine to guarantee high performance, speed and accuracy.
- AccurMax has developed its own system of three pneumatic floating clamps which are made of high alloy steel, permitting higher clamping forces as well as excellent durability and wear characteristics. Auto-Clamp repositioning is available as an option.
- AccurMax features an automatic lubrication system which is able to deliver the grease to the lubrication points on a schedule controlled by CNC. Any time the system is short of oil the CNC will send an alarm to remind the operator to fill the pump with the grease.

CNC / Programming



- The world-class FANUC 0i-PF CNC features are inclusive of 10.4" color TFT display, English MMC functionality, diagnostics and alarm function, G-Code programming, offline programming by desktop software, punching data base, RS232 interface, etc.
- CNCKAD supports full progress CNC operations, such as 3D input, CAD drawing, manual or auto plus tools, NG codes creation, running simulations, NG codes uploads and downloads, automatically generated working reports. Additionally, the multi-language and user-friendly interface is easy for the operator to learn and use.



The entire FANUC package, including controller, servo motors, drivers and amplifier boards provides the best matching performance and stability.

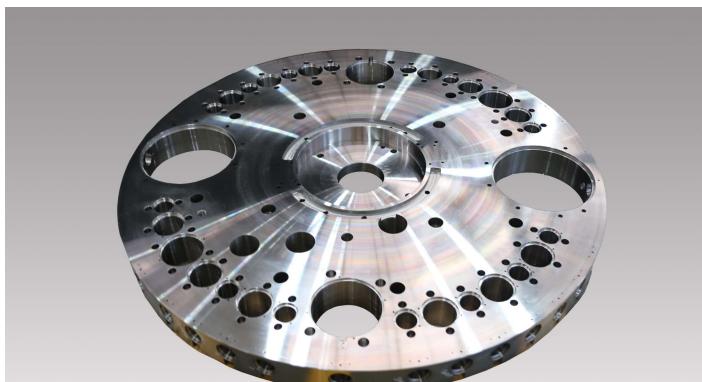
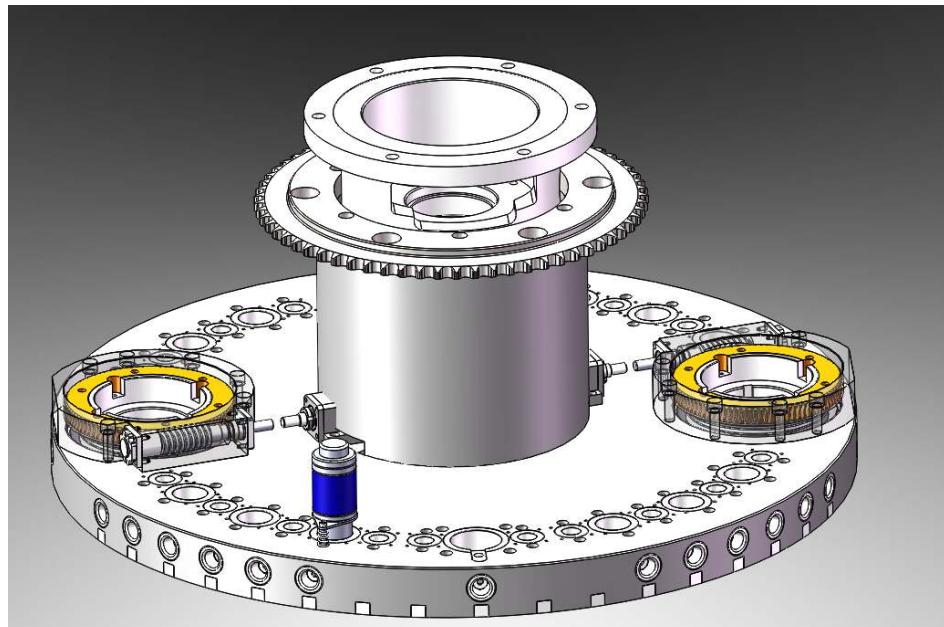


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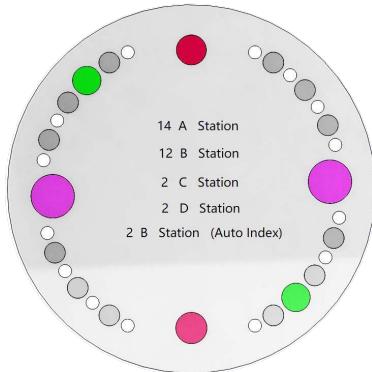


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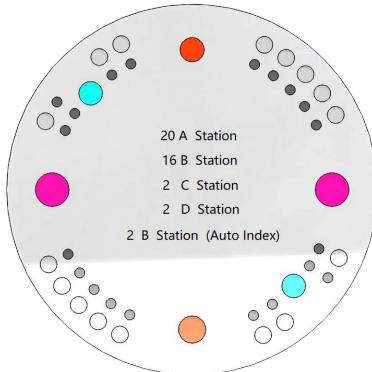
Turret



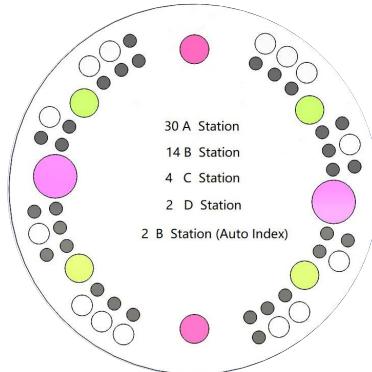
- The design of thick turret improves the guiding accuracy of the tooling as well as the life of the tools.
- The turret is made of high-carbon steel to make it strong and highly wear resistant.
- The turret is machined in-house on our 6-axis CNC boring/turning/milling machine in a single setup for exceptional accuracy.
- The turret incorporates replaceable hardened sleeves that ensure that tools retain concentricity, resulting in extended tooling and turret life.



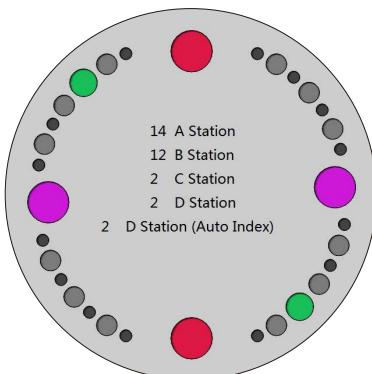
32 stations standard layout



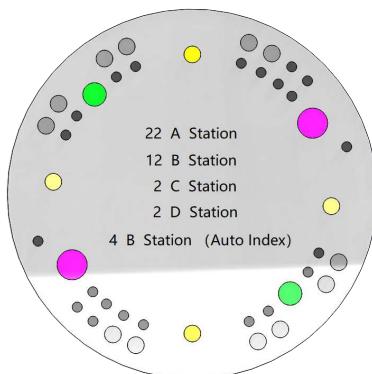
42 stations standard layout



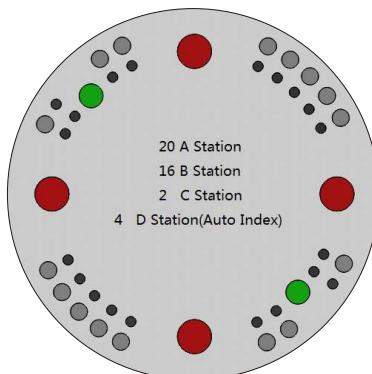
52 stations standard layout



32 stations layout
(2D-AI option)



42 stations layout
(4B-AI option)



42 stations layout
(4D-AI option)

Station	Standard	Option
32 Stations	A14/B12/C2/D2/2B-AI	A14/B12/C2/D2/2D-AI
42 Stations	A20/B16/C2/D2/2B-AI	A22/B12/C2/D2/4B-AI
		A20/B16/C2/D2/2D-AI
		A20/B16/C2/4D-AI
52 Stations	A30/B14/C4/D2/2B-AI	A30/B14/C4/D2/2D-AI



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Auto Index Station



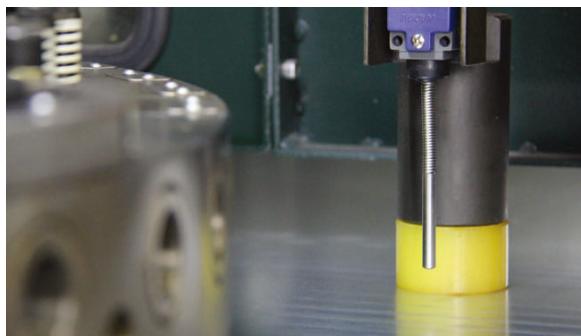
B-AI Station



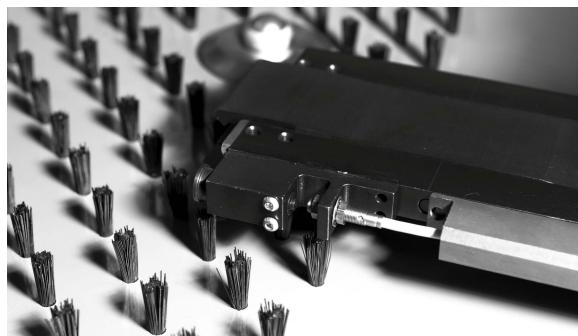
D-AI Station (Option)

- AC Servos drive the zero-backlash auto-index station ensuring extremely tight tolerances.
- Our Auto-index incorporate a worm-gear structure and offer maximum punching diameters up to $\phi 88.9\text{mm}$.
- Two Auto-index stations B (31.75mm) are standard. Multi-tools can be purchased from Accupress and are also available after-market. Turrets configured with additional A/I stations are optional.

Safety Devices



Sensors to sense sheet coming out of the clamps

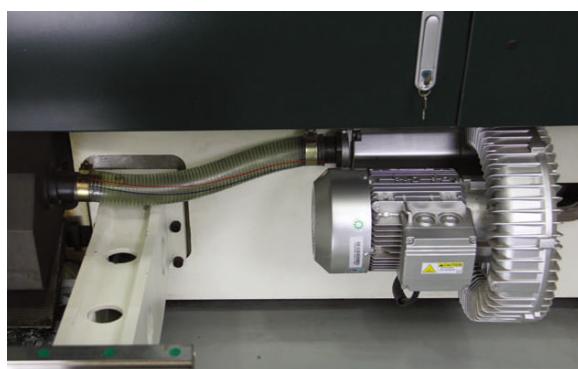


Sensor bar to prevent floating sheets from crashing the turret

Option Safety Devices



Workchute and belt conveyor

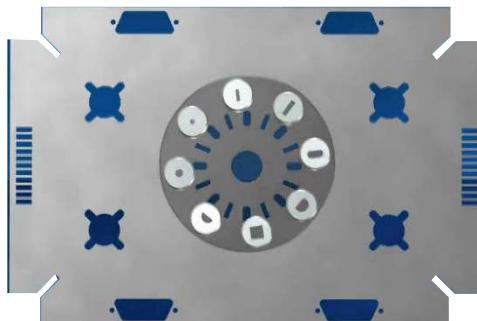
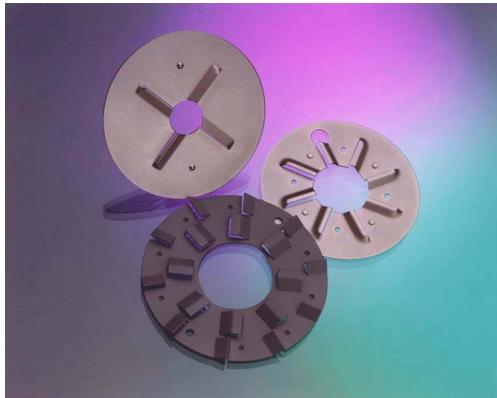


Vacuum scraps extraction

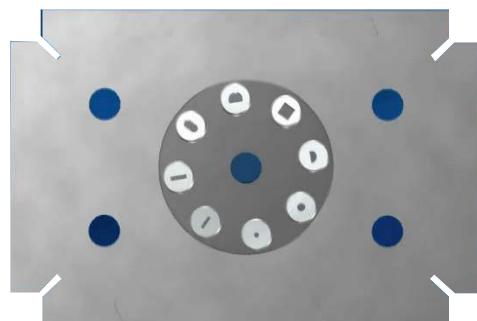
Processing Solution

Multi-tool and multi-tool indexing (option)

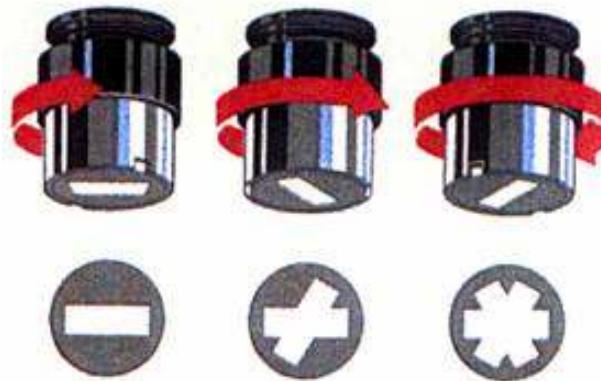
A/I D stations can be put into multi-tool assembly of two types, one option is three-station multi-tool (three B stations), the other is an eight- station multi-tool (eight A stations). Multi-tool is very powerful to the punching of many small holes. The indexing function of the multi-tool stations is not only to increase the total number of possible A/I stations, in many cases it lowers indexing times as it often eliminates the need for the main drum to rotate.



Processing with normal multi-tool



Processing with A/I multi-tool



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Rolling and forming (optional)

Rolling and forming molds are non-standard molds that need to be customized according to user process requirements



Wheel Offset



Wheel Rib



Square Emboss



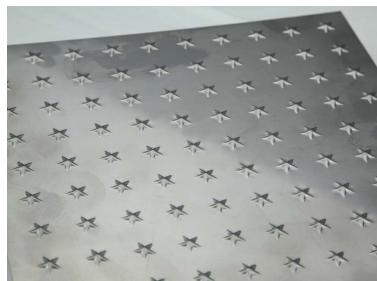
Double Bridge



Press Brake



Open Louver



Star Emboss



Bridge



Figure Emboss



Emboss & Extrusion



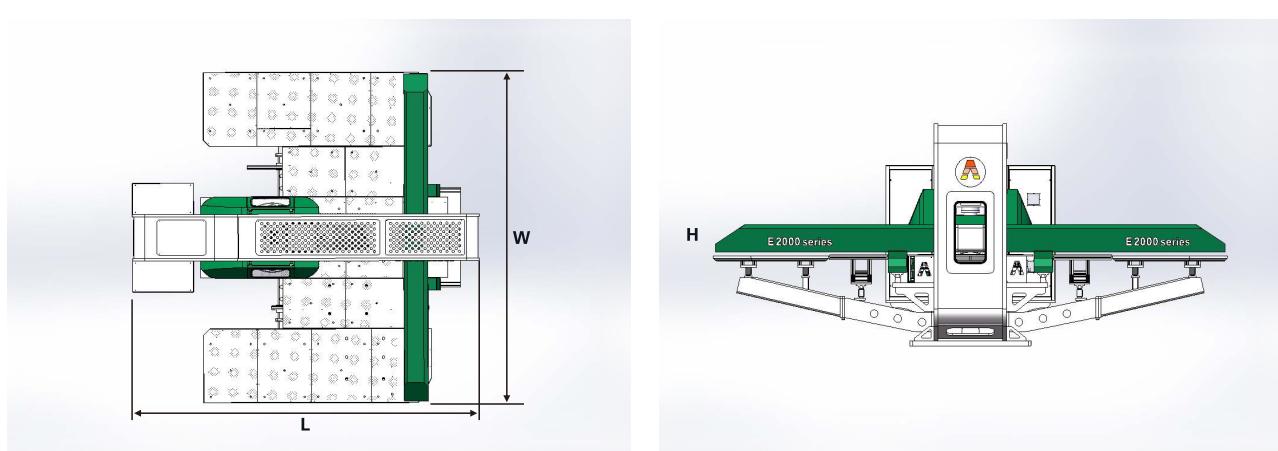
Close Louver



Thread Loop

Force	20/30 Tons		
Max. sheet size	1500mm×5000mm (re-positioning) E2000/3000 1500		
	2000mm×5000mm (re-positioning) E2000/3000 1500		
Max. sheet thickness	3.0mm (brush table) 6.0mm (ball table)		
Max. sheet weight	180Kg		
Ram stroke	32mm		
Marking frequency	1600 hits/min		
Ram speed	730 hits/min (T=1mm、step=1mm、stroke=4mm)		
Max. diameter by one punching	Φ88.9mm		
Turret stations layout	32/42/52		
CNC controller	FANUC 0i-PF		
Punching accuracy	±0.1mm		
Max. speed X axis	100 m/min		
Max. speed Y axis	60 m/min		
Axes controlled by CNC	X/Y axes linked A/T/C axes		
Air requirement	0.5~0.6 Mpa		
Power consumption average	20/30 KW		
Dimension L×W×H)	5650mm×2350mm×5310mm	E2000/3000	1500
	6850mm×2350mm×5310mm	E2000/3000	2000
Gross weight	19 tonnes	E2000/3000	1500
	22 tonnes	E2000/3000	2000

Note: AccurMax Ultra model was developed basic on the standard AccurMax machine. The dual-servo drive for Y-axis and Rack and pinion for X-axis increase the feed rate and acceleration to a new level. The ram speed reach 960 hits/min and the marking frequency reach 2400 hits/min. And the Max. speed Y axis reach 80m/min.



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Optional of auto loading/unloading system



AccurMax Fiber Machine



- The AccurMax Fiber has the characterized by compactness, efficiency, and wide processing range.
- The AccurMax Fiber machine adopts a AccurMax punch machine (2000mm×5000mm re-positioning) with a built-in 2Kw laser cutting head (1500mm×5000mm re-positioning), and used 3 pneumatic floating clamps to clamp the sheet for X/Y axis positioning.
- The AccurMax Fiber adopts the characteristics of punching machines and laser cutting machines: they not only have the functions of rapid punching and sheet forming, but also have the functions of irregular cutting, large contour cutting, large hole cutting, and small hole puncture. In additional, they also have the functions of forming, marking and laser marking. Therefore, they have a wide range of applications and high processing flexibility. After combining punching and cutting, the processing efficiency is greatly improved.

- The Accupress automation punching unit consists of an AccurMax turret and a set of auto-loading/unloading systems.
- The single-sided placement design can save space, and the compact structure design includes raw material table and finished product stacking table, suitable for sheet thickness ranges of 0.6mm-4mm and maximum size of 1250x2500mm/1250x3000mm, with a sheet load capacity of up to 4 tons.
- Independent loading/unloading equipment can feed raw materials to the turret through a vacuum device of two axis robotic arm, and retrieve finished products through another robotic arm with clamping mechanism. This design can improve efficiency and shorten processing cycle time.
- The auto-loading/unloading equipment adopts high-performance racks and linear guides, with high precision and good stability.
- The automation punch unit includes a dual material detection device for sheet metal and a sheet metal separator to avoid sheets adhesion.



Laser head



FANUC 31i Controller



Force	20/30 Tons
Max. sheet size	2000mm×5000mm (re-positioning) Punching
	1500mm×5000mm (re-positioning) Laser cutting
Max. sheet thickness	3.0mm (brush table) 6.0mm (ball table)
Max. sheet weight	180Kg
Marking frequency	1600 hits/min
Ram speed	730 hits/min (T=1mm, step=1mm, stroke=4mm)
Max. diameter by one punching	Φ88.9mm
Turret stations layout	32/42/52
CNC controller	FANUC 31i
Punching accuracy	±0.1mm
Max. speed X / Y axis	X axis 100 m/min Y axis 80 m/min
Maximum cutting speed	18~24 m/min(1mm Cold plate)
	30 m/min(1mm stainless steel)
Axes controlled by CNC	X/Y1/Y2 axes linked A/T/C/Z axes
Laser Generator	2Kw Fanuc / 3Kw IPG
Air requirement	0.5~0.6 Mpa
Gas consumption	Nitrogen 0.087Kg/m (2mm MS)
Power consumption average	20/30 KW E2000/E3000
Laser average power	14 KW
Dimension L×W×H)	6850mm×2350mm×5310 mm E2000/3000 2000
Gross weight	24 tonnes



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GLOBAL MARKET

Global market distribution



U.S.A., Canada, Mexico, China, India, Russia, Japan, Korea, Singapore, Malaysia, Vietnam, Australia.....

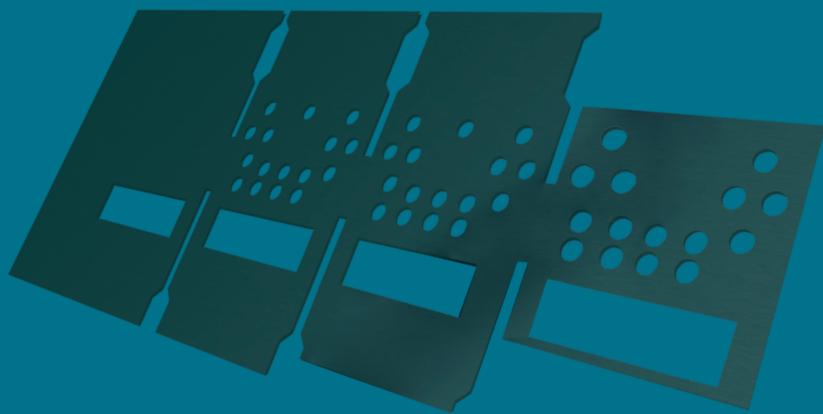
Top Machining Machines

Accurpress uses the advanced machining centers like FPT, MAZAK, DMG, DROOP&REIN to produce the parts and the frames. These high precise and high performance machines can ensure Accurpress every machine to get good accuracy and quality.



Partnership for mutual development





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