## **CNC PUNCH MACHINE MODEL ETP**

Your partner for presentation of the needs

شرکت ماشین ابزار شوکا ارائه دهنده سرویسهای فنی -بازرگانی ماشین ابزار

Innovative Technologies | www.ermaksan.com.tr | Punch Press Series







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### innovative technologies.

www.ermaksan.com.tr

#### Ermaksan, after half a century, is moving confidently into the future

Ermaksan is proudly leaving 48 years of bright history behind and becoming, with its R & D and technological investments, one of the World leaders in its field with an innovative perspective for the 21st Century.

Ermaksan is a pioneer in the industry with strong R & D, an 80,000m<sup>2</sup> modern production facility, a highly qualified team of 700 staff, manufacturing high quality, high-tech machinery for the sheet metal processing sector.

Our factory is equipped with the latest technology and precision CNC machines, under the supervision of expert engineers, it is able to manufacture 3,000 units of sheet metal processing machines annually. Emaksan are one of the Worlds' leading companies in the industry and Emaksan machines are represented by exclusive dealers with strong technical support in 70 countries.

Emaksan manufactures and designs high technology, value added, environmentally friendly and energy efficient machines by continually following new trends and customer expectations, using resources efficiently and effectively moving forward confidently towards sustainable growth.



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# **TURRET HEAD**

Hardened steel coated tool adaptor system

#### 33 STATION TURRET TOOLING PERMUTATION

- = 15 x A station 1/2" fixed 1.6-12.7 mm round
- = 12 x B station 1-1/4" fixed 12,8-31,7 mm round
- = 2 x C station 2" fixed 31,8-50,8 mm round = 1 x D station 3-1/2" fixed 50,9-88.9 mm round
- = 3 x D station 3-1/2" index 50,9-88,9 mm round

#### 27 STATION TURRET TOOLING PERMUTATION

- = 11 x A station 1/2" fixed 1,6-12,7 mm round = 10 x B station 1-1/4" fixed 12.8-31.7 mm round
- = 1 x C station 2" fixed 31,8-50,8 mm round
- = 2 x D station 3-1/2" fixed 50,9-88,9 mm round
- 2 x B station 1-1/4" index 12.8-31.7 mm round
- = 1 x C station 2" index 31,8-50,8 mm round



### Automatic Index Stations

Different contours at required angles Maximum punch stroke for 1 mm step Provides automatic tool lubrication and can be punched with 3 automatic index movements on X and Y axes processing extends tool life. Avoids pick up of scrap stations. These stations may include 1 mm thick mild steel is 1100 per minute and heating up of tools during working. 8A or 3B or 1C station tools upon and marking speed is 2000 stroke/ customers request and so a wide range min. X + Y dependent velocity 120 m/ of tooling combinations are possible. min. Positioning accuracy is ± 0,01 mm. Repetition accuracy is ± 0,05 mm.



Speed and Accuracy

## Airblow

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## **CNC PUNCH MACHINE MODEL ETP**

Companies looking to increase profits, should pay special attention to time saving, low cost and just-in-time delivery. ETP CNC Turret Punch will help you to achieve these goals by effective and efficient production.

# Low price and maintenance cost, High efficiency and profitability...

## Brush and/or Ball Bearing Type Table

- axles, dynamic servo motors and intelligent drivers are used on X and Y axes. The dynamic buffer designed with this equipment

The area of sheet in the clamp zone during punching cannot be punched, the control Parts that are notched or punched automatically repositions this area to be punched at the end of the process. Three clamps operating with pneumatic pressure and clamping the sheet without causing scrap box by the part removal system, any deformation thanks to spherical shaped holders. Clamp salety check system prevents collisions between clamps and tools by comparing the clamp positions with and this therefore avoids damage to the part programme.

### Sheet Clamping System

Work Chute (Optional)

from the main sheet are collected in a so scrap will not be on the main sheet desired parts.



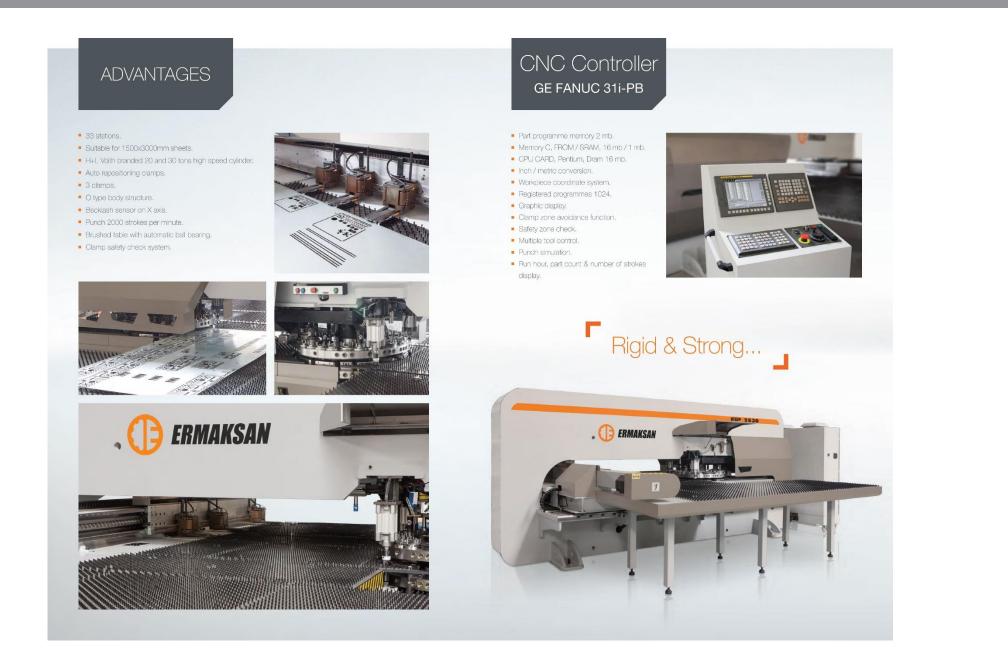
# شرکت ماشین ابزار شوکا ارائه دهنده سرویسهای فنی -بازرگانی ماشین ابزار

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## **CNC PUNCH MACHINE MODEL ETP**

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## **CNC PUNCH MACHINE MODEL ETP**



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## SOFTWARE



#### Easy to Learn

Designed to reduce learning time to a minimum. Simple, user-friendly menus guide users at all times, enabling them to produce parts from the first day.

#### Integration

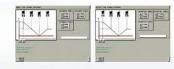
Integrates part design, nesting and manufacturing technology in just one programme. This integration reduces the time and effort required to generate numerical control programmes.

#### Benefits

Excellent integration reduces data entry significantly. Excellent insting features including best sheet selection reduces scrap. Excellent costing and time calculation including all consumable and raw material, improves efficiency and allows accurate scheduling, integration into the sheets database allows efficient tracking and control of inventory. Advanced machining options allow for very efficient machining. Fully automatic tooling saves on setup times.







				ETPP 1250x2000 20 TONS
MAXIMUM TONNAGE	Ton	30		20
MAXIMUM CAPACITY (Thickness X.Y.)	mm	2500×1500		2000×1250
MAXIMUM PUNCH DIAMETER (Sheet is 1 mm thickness) (single tool)	mm	088.9		Ø88.9
X AXIS TRAVEL	mm	2500 + R		2000 + R
X AXIS VELOCITY	m/min	80		120
Y AXIS TRAVEL	mm	1500		1250
Y AXIS VELOCITY	m/min	80		120
X + Y DEPENDENT VELOCITY	m/min	114		170
TURRET ROTATION VELOCITY	Rpm	20		27
AUTO INDEX ROTATION VELOCITY	Rpm	65		65
MAXIMUM PUNCH STROKE For Marking 1 mm Stroke	Stroke/min	2000		1500
MAXIMUM PUNCH STROKE Per minute	Stroke/min	900		900
For * 1mm step X Movement ,1 mm step Y axes Movement	Stroke/mill	900		900
MAXIMUM PUNCH STROKE Per minute	Stroke/min	350		350
For * 25 mm step X movement, 25 mm step. Y aves Movement				
MAX, CUTTING THICKNESS WITH FIX STATION	Mild steel	6 mm		6 mm
	Stainless steel	6 mm		6 mm
MAX, CUTTING THICKNESS WITH AUTO INDEX STATION	Mild steel	4 mm		4 mm
	Stainless steel	2,5 mm		2,5 mm
REPITITION ACCURACY	mm	± 0.05		± 0.05
POSITIONING ACCURACY	mm	± 0,1		± 0,1
INDEX POSITIONING ACCURACY	0	0.01 °		0.01 °
MULTI TOOL CHANGE TIME	SEC.	3		3
MAXIMUM SHEET WEIGHT	Kg	200		125
MOTOR	kŴ	15		7,5
OIL CAPACITY	lt	280		180
AIR PRESSURE	Bar	6 - 7		6 - 7
MAXIMUM STROKE	mm	40		40
SHEET CLAMPING (AUTOMATIC LOCATION CHANGEABLE)	Pieces	3		3
SHEET CLAMPING FORCE	kg	1200		1200
POWER SUPPLY	KVA	25		18
AIR SUPPLY	Liters/min	2.5		2.5
CONTROLLER (ERMAKSAN HMI SOFTWARE)		Pegistered Programmes, 1024. Run hour & Part count display. Graphic display. Graphic display. Multiple fool Control. Oamp Zone Avadance Function. Part Programme Transfer with Ethernet cable. voi or PCHCL. Simulation of Sheet Meet Cutting. Software for using wheet and torming tools. Stroke Count's Schware Reposition and Clamp Displacement Software.		InchMeric conversion. Registered Programmes, 1024. Rin hour & Part count display. Graphic display. Ottamp Zone Avoidance Function. Part Programmes Transfer with Eithernet cable, eato or POMO. Simulation of Streat Metal Outting. Software for using wheel and forming toxits. Stroke counts Schware. Reposition and Clamp Displacement Software.
POSITION CONTROL		Voith Turbo H + L H	briraulic	Voith Turbo H + L Hydraulic
		All axes absolute Ball		All axes absolute Ballscrew with
SERVO AXES	X,Y	Fanuc servo m		Fanuc servo motor
		Absolute Fanuc serv		Absolute with Fanuc servo motor+
NDEX AXES		Harmonic drive o		Harmonic drive reductor
WORKING HEIGHT	mm	950	unan neliA	950
and an and an a final set of a		Brushed		Brushed
TABLE TYPE	Ball			Ball
		Brushed+Ba	11	Brushed+Ball
MACHINE LENGTH	mm			5140
MACHINE WIDTH	mm	5000		4290
MACHINE HEIGHT	mm	2220		2220
WEIGHT	Kq	18500		14000
CAD/CAM Software		Lantek - Metalix		Lantek - Metalix
Standard Manual Nesting (1 pieces soft, 1 pieces dongle) Optional Automatic nesting	License	One license, Postpr		Che license, Postprocessor
15 pcs. A stations 1/2" fixed 1.6- 12 pcs. B stations 1-1/4" fixed 12.8 7 pcs. C stations 2" fixed 31.8 (33 \$TATION\$) 1 pc. D stations 3-1/2" fixed 50.9	TURRET	11 pcs. A station 1/2" fixed 1.6-12.7 mm round   10 pcs. B station 1-1/4" fixed 12.8-31.7 mm round   1.c. C station 2" fixed 31.8-50.8 mm round   2.pcs. D station 3-1/2" fixed 31.8-50.8 mm round   2.pcs. B station 1-1/4" index 12.8-31.7 mm round   1.pc. C station 3-1/2" fixed 31.8-50.8 mm round   1.pc. C station 2" index 13.8-30.8 mm round		

## High quality on forming.

High quality forms can be achieved by adjustable stroke option, end of the punch time delay, also short length bending can be achieved by precision adjustment.

Operator can adjust punching, forming and table speeds separately through the programme.

All special functions of notching and forming ca be easily done with wheel tools.