

# ETP Servo Series

Servo Drive CNC Turret Punch Press



# ETP-S

## Servo Drive CNC Turret Punch Press

ERMAKSAN is a leading brand within the punching market place due to its experience and quality standards. ETP CNC Turret Punch Press quality crowned with hydraulic-free servo drive construction combines the world's best brands in hydraulic, electronic and mechanical compounds in one machine.



### Control Panel

Renowned quality and technology with user friendly GE Fanuc controller.

Specifically designed to meet customer requirements; its rigid steel structure + mono block frame allows you to punch up to 6 mm thick sheets.

### Foot Pedal

During the installation of sheet metal provides convenience to the operator.

# Faster, more precise, more environment friendly...



**Rigid and Strong Body**  
Strong body precisely machined, dynamically and statically rigid

**Brush and/or Ball Bearing Type Table**  
Processing table, brush and/or ball bearing type for easy sheet feeding



- Specifically designed for turret punch machine
- Built-in punch program, perfectly compatible with Fanuc & Siemens control units

### Servo Drive Features

- More than 3 times overload
- Current & acceleration feed forward control
- High response, 1.6kHz frequency response
- Suppression of low frequency structural vibrations
- Automatic gain setting, online load inertia monitoring, sample parameter setting
- Motor parameter automatic recognition, online update, motor overheat protection
- CANopen, MODBUS, PROFIBUS, EtherCAT, POWERLINK

### Servo Motor Features



- Low speed & high torque, more than 3 times overload
- IP65
- Water cooling
- Rated speed: 500 rpm
- Highest Speed: 600~650 rpm
- Resolver, high endurance
- Built-in thermo protection



# Technical Features

		ETP 1500x2500	ETP 1500x3000	ETP 1250x2000	ETP 1250x2500
MAXIMUM TONNAGE	Ton	30	30	20	20
MAXIMUM CAPACITY (Thickness X,Y)	mm	2500x1500	3000x1500	2000x1250	2500x1250
SHEET CLAMPING (AUTOMATIC LOCATION CHANGEABLE)	Pieces	3	4	3	3
STATION NUMBER OF THE TURRET	Pieces	33	33	27	27
MAX. PUNCH DIAMETER (Sheet is 1mm thickness) (single tool)	mm	Ø88,9	Ø88,9	Ø88,9	Ø88,9
X AXIS TRAVEL	mm	2500 + R	3000 + R	2000 + R	2500 + R
X AXIS VELOCITY	m/min	80	80	100	100
Y AXIS TRAVEL	mm	1500	1500	1250	1250
Y AXIS VELOCITY	m/min	80	80	100	100
X + Y DEPENDENT VELOCITY	m/min	114	114	141	141
TURRET ROTATION VELOCITY	Rpm	20	20	27	27
AUTO INDEX ROTATION VELOCITY	Rpm	65	65	65	65
MAXIMUM PUNCH STROKE For Marking 1 mm Stroke	Stroke/min	2000	2000	1500	1500
MAXIMUM PUNCH STROKE For * 1mm step X and Y axes movement	Stroke/min	900	900	900	900
MAXIMUM PUNCH STROKE For * 25 mm step X and Y axes movement	Stroke/min	600	600	350	350
MAX. CUTTING THICKNESS WITH FIX STATION	Mild steel	6,35 mm	6,35 mm	6,35 mm	6,35 mm
	Stainless steel	4 mm	4 mm	4 mm	4 mm
MAX. CUTTING THICKNESS WITH AUTO INDEX STATION	Mild steel	4 mm	4 mm	4 mm	4 mm
	Stainless steel	2,5 mm	2,5 mm	2,5 mm	2,5 mm
REPETITION ACCURACY	mm	± 0.05	± 0.05	± 0.05	± 0.05
POSITIONING ACCURACY	mm	± 0,1	± 0,1	± 0,1	± 0,1
INDEX POSITIONING ACCURACY	°	0.01°	0.01°	0.01°	0.01°
MULTI TOOL CHANGE TIME	sec.	3	3	3	3
MAXIMUM SHEET WEIGHT	Kg	200	200	125	125
CLAMP AND JUMPING SENSORS		Available	Available	Available	Available
AUTO AIR BLOW		Available	Available	Available	Available
AIR PRESSURE	Bar	6 - 7	6 - 7	6 - 7	6 - 7
MAXIMUM STROKE	mm	32	32	32	32
SHEET CLAMPING FORCE	kg	1200	1200	1200	1200
POWER SUPPLY	kVA	25	25	25	25
AIR SUPPLY	Liters/min	2,5	2,5	2,5	2,5
CONTROLLER (ERMAKSAN HMI SOFTWARE)		GE Fanuc 31i-Pb			
POSITION CONTROL		Ermaksan Servo	Ermaksan Servo	Ermaksan Servo	Ermaksan Servo
SERVO AXES	X,Y	All axes absolute Ballscrew with Fanuc servo motor	Y1+Y2 axes Ballscrew Fanuc servo motor X Axes Rack Pinion Fanuc servo motor	All axes absolute Ballscrew with Fanuc servo motor	All axes absolute Ballscrew with Fanuc servo motor
INDEX AXES		Absolute Fanuc servo motor + Harmonic drive gearbox	Absolute Fanuc servo motor + Harmonic drive gearbox	Absolute Fanuc servo motor + Harmonic drive gearbox	Absolute Fanuc servo motor + Harmonic drive gearbox
WORKING HEIGHT	mm	950	950	950	950
TABLE TYPE		Brushed	Brushed	Brushed	Brushed
		Ball	Ball	Ball	Ball
		Brushed+Ball	Brushed+Ball	Brushed+Ball	Brushed+Ball
MACHINE LENGTH	mm	5520	5520	5140	5140
MACHINE WIDTH	mm	5000	6660	4290	5000
MACHINE HEIGHT	mm	2220	2220	2220	2220
WEIGHT	Kg	18500	20000	14000	15000
CAD/CAM Software		Metalix - Lantek	Metalix - Lantek	Metalix - Lantek	Metalix - Lantek
Standard Manual Nesting (1 pieces soft, 1 pieces dongle)	Licence	One license, Postprocessor	One license, Postprocessor	One license, Postprocessor	One license, Postprocessor

<b>TURRET (33 STATIONS)</b>	15 pcs. A stations 1/2" fixed 1,6-12,7 mm round	<b>TURRET (27 STATIONS)</b>	11 pcs. A station 1/2" fixed 1,6-12,7 mm round
	12 pcs. B stations 1-1/4" fixed 12,8-31,7 mm round		10 pcs. B station 1-1/4" fixed 12,8-31,7 mm round
	2 pcs. C stations 2" fixed 31,8-50,8 mm round		1 pc. C station 2" fixed 31,8-50,8 mm round
	1 pc. D stations 3-1/2" fixed 50,9-88,9 mm round		2 pcs. D station 3-1/2" fixed 50,9-88,9 mm round
	3 pcs. D stations 3-1/2" index 50,9-88,9 mm round		2 pcs. B station 1-1/4" index 12,8-31,7 mm round
			1 pc. C station 2" index 31,8-50,8 mm round