ETP Servo Series
CNC Servo 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

Servo Motor Features
- Low speed & high torque, more than 3 times overload
- IP65
- Water cooling
- Rated speed: 500 rpm
- Highest Speed: 600–850 rpm
- Resolver, high endurance
- Built-in thermo protection

Servo Drive Features
- Specifically designed for turret punch machine
- Built-in punch program, perfectly compatible with Fanuc & Siemens control unite
- 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
# Technical Features

<table>
<thead>
<tr>
<th></th>
<th>ETP 1500x2500</th>
<th>ETP 1500x3000</th>
<th>ETP 1250x2000</th>
<th>ETP 1250x2500</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAXIMUM TONNAGE</strong></td>
<td>30</td>
<td>30</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>MAXIMUM CAPACITY (Thickness X,Y)</strong></td>
<td>2500x1500</td>
<td>3000x1500</td>
<td>2000x1250</td>
<td>2500x1250</td>
</tr>
<tr>
<td><strong>SHEET CLAMPING (AUTOMATIC LOCATION CHANGEABLE)</strong></td>
<td>Pieces</td>
<td>3</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>STATION NUMBER OF THE TURRET</strong></td>
<td>33</td>
<td>33</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td><strong>MAX. PUNCH DIAMETER (Sheet is 1mm thickness) (single tool)</strong></td>
<td>Ø88.9</td>
<td>Ø88.9</td>
<td>Ø88.9</td>
<td>Ø88.9</td>
</tr>
<tr>
<td><strong>X AXIS TRAVEL</strong></td>
<td>mm 2500 + R</td>
<td>3000 + R</td>
<td>2000 + R</td>
<td>2500 + R</td>
</tr>
<tr>
<td><strong>X AXIS VELOCITY</strong></td>
<td>m/min 80</td>
<td>80</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td><strong>Y AXIS TRAVEL</strong></td>
<td>m/min 1500</td>
<td>1500</td>
<td>1250</td>
<td>1250</td>
</tr>
<tr>
<td><strong>Y AXIS VELOCITY</strong></td>
<td>m/min 80</td>
<td>80</td>
<td>100</td>
<td>100</td>
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<tr>
<td><strong>X + Y DEPENDENT VELOCITY</strong></td>
<td>m/min</td>
<td>114</td>
<td>114</td>
<td>141</td>
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<tr>
<td><strong>TURRET ROTATION VELOCITY</strong></td>
<td>Rpm</td>
<td>20</td>
<td>20</td>
<td>27</td>
</tr>
<tr>
<td><strong>AUTO INDEX ROTATION VELOCITY</strong></td>
<td>Rpm</td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td><strong>MAXIMUM PUNCH STROKE FOR Marking 1 mm Stroke</strong></td>
<td>Stroke/min</td>
<td>2000</td>
<td>2000</td>
<td>1500</td>
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<tr>
<td><strong>MAXIMUM PUNCH STROKE FOR 1 mm step X and Y axes movement</strong></td>
<td>Stroke/min</td>
<td>900</td>
<td>900</td>
<td>900</td>
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<tr>
<td><strong>MAX. CUTTING THICKNESS WITH FIX STATION</strong></td>
<td>Mild steel</td>
<td>6.35 mm</td>
<td>6.35 mm</td>
<td>6.35 mm</td>
</tr>
<tr>
<td><strong>MAX. CUTTING THICKNESS WITH AUTO INDEX STATION</strong></td>
<td>Stainless steel</td>
<td>2.5 mm</td>
<td>2.5 mm</td>
<td>2.5 mm</td>
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<tr>
<td><strong>REPETITION ACCURACY</strong></td>
<td>±0.05</td>
<td>±0.05</td>
<td>±0.05</td>
<td>±0.05</td>
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<tr>
<td><strong>POSITIONING ACCURACY</strong></td>
<td>±0.1</td>
<td>±0.1</td>
<td>±0.1</td>
<td>±0.1</td>
</tr>
<tr>
<td><strong>INDEX POSITIONING ACCURACY</strong></td>
<td>°</td>
<td>0.01°</td>
<td>0.01°</td>
<td>0.01°</td>
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<tr>
<td><strong>MULTI TOOL CHANGE TIME</strong></td>
<td>sec</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>MAXIMUM SHEET WEIGHT</strong></td>
<td>Kg 200</td>
<td>200</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td><strong>CLAMP AND JUMPING SENSORS</strong></td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
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<tr>
<td><strong>AUTO AIR BLOW</strong></td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td><strong>AIR PRESSURE</strong></td>
<td>Bar 6 - 7</td>
<td>6 - 7</td>
<td>6 - 7</td>
<td>6 - 7</td>
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<tr>
<td><strong>MAXIMUM STROKE</strong></td>
<td>mm 32</td>
<td>32</td>
<td>32</td>
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</tr>
<tr>
<td><strong>SHEET CLAMPING FORCE</strong></td>
<td>Kg 1200</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
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<tr>
<td><strong>POWER SUPPLY</strong></td>
<td>kVA 25</td>
<td>25</td>
<td>25</td>
<td>25</td>
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<tr>
<td><strong>AIR SUPPLY</strong></td>
<td>Liters/min 7.5</td>
<td>7.5</td>
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</tbody>
</table>

**CONTROLLER** (ERMASKAN HMI SOFTWARE) - Ermaksan Servo  
Ermaksan Servo (Al axes absolute Ballscrew with Fanuc servo motor)  
Ermaksan Servo (M + / Y axes absolute Ballscrew with Fanuc servo motor)  
Ermaksan Servo (M + / Z axes absolute Ballscrew with Fanuc servo motor)  
Ermaksan Servo (M + / X axes absolute Ballscrew with Fanuc servo motor)

**POSITION CONTROL** - X, Y

<table>
<thead>
<tr>
<th>INDEXES</th>
<th>WORKING HEIGHT</th>
<th>mm 950</th>
<th>Brushed</th>
<th>Brushed</th>
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<tbody>
<tr>
<td>TABLE TYPE</td>
<td>Brushed-Ball</td>
<td>Brushed-Ball</td>
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<tr>
<td>MACHINE LENGTH</td>
<td>mm 5520</td>
<td>5520</td>
<td></td>
<td></td>
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<tr>
<td>MACHINE WIDTH</td>
<td>mm 6600</td>
<td>6600</td>
<td></td>
<td></td>
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<tr>
<td>MACHINE HEIGHT</td>
<td>mm 2220</td>
<td>2220</td>
<td></td>
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</tr>
<tr>
<td>WEIGHT</td>
<td>Kg 18500</td>
<td>20000</td>
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</table>

**CAD/CAM Software** - License  
Metalix - Lantek, Metalix - Lantek, Metalix - Lantek, Metalix - Lantek

<table>
<thead>
<tr>
<th>TURRET (33 STATIONS)</th>
<th>15 pcs. A stations 1/2&quot; fixed, 1.6-12.7 mm round</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 pcs. B stations 1-1/4&quot; fixed, 12.8-31.7 mm round</td>
<td></td>
</tr>
<tr>
<td>2 pcs. C stations 2&quot; fixed, 31.8-50.8 mm round</td>
<td></td>
</tr>
<tr>
<td>1 pc. D stations 3-1/2&quot; fixed, 50.9-88.9 mm round</td>
<td></td>
</tr>
<tr>
<td>3 pcs. D stations 3-1/2&quot; index, 50.9-88.9 mm round</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TURRET (27 STATIONS)</th>
<th>11 pcs. A station 1/2&quot; fixed, 1.6-12.7 mm round</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 pcs. B station 1-1/4&quot; fixed, 12.8-31.7 mm round</td>
<td></td>
</tr>
<tr>
<td>1 pc. C station 2&quot; fixed, 31.8-50.8 mm round</td>
<td></td>
</tr>
<tr>
<td>2 pcs. D station 3-1/2&quot; fixed, 50.9-88.9 mm round</td>
<td></td>
</tr>
<tr>
<td>2 pcs. B station 1-1/4&quot; index, 12.8-31.7 mm round</td>
<td></td>
</tr>
<tr>
<td>1 pc. C station 2&quot; index, 31.8-50.8 mm round</td>
<td></td>
</tr>
</tbody>
</table>

Organize Sanayi Bölgesi Lackvert Caddesi, No 144-148  
Bursa / TURKEY  
Tel: +90 224 294 75 00 (Fax)  
Fax: +90 224 294 75 44  
www.ermaksan.com.tr  
sales@ermaksan.com.tr