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**Specification**

**Program**
Microprocessor controlled, capable of holding 999 program sequences which may be run independently or in selected blocks for compound windings.

**Control**
Spindle drive - High torque brushless DC induction motor producing a max torque 78.5 Ncm.
Traverse - Constant current driven 4-phase stepper motor.

**Application**
Nozzle type wire guides feed each spindle, these are adjustable so that dual winding may be carried out successfully. Each guide is fed via a tension unit.

**Package**
Includes 2 x nozzle wire guides, 2 x tension units and cover tape attachment, with comprehensive manual.

**Wire size**
Typically 0.02 – 0.6 mm (1.0mm in single spindle mode).

**Max pitch**
10 mm

**Winding width**
110 mm (max)

**Bobbin dia**
110 mm (max)

**Max speed**
6000, 3000 (optional)

**Power**
AC 230 / 110V ± 10%, 50-60hz

**Dims**
760 x 680 x 720 mm

**Net weight**
37 kg

**CE cert. no.**
AE9955093 01
**Specification**

These mechanical tensioners provide precision control of winding tension for wires in the range from 0.02mm to 1.2 mm.

The arm position provides feedback to the system, adjusting the main friction wheel to regulate and maintain constant tension during the winding cycle.

Felt pads provide pre-tension and remove dust and other debris from the wire.

Ceramic eyelets and roller guides at each point of contact protect insulation from mechanical damage, and guide the wire.

The performance of these units is exceptional given the low cost, providing outstanding value for money.

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Min Tension (grams)</th>
<th>Max Tension (grams)</th>
<th>Min Wire Gauge (mm) *</th>
<th>Max Wire Gauge (mm) *</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC3S</td>
<td>2</td>
<td>11</td>
<td>0.02</td>
<td>0.04</td>
</tr>
<tr>
<td>TCSS-X</td>
<td>7</td>
<td>30</td>
<td>0.03</td>
<td>0.06</td>
</tr>
<tr>
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<td>50</td>
<td>0.04</td>
<td>0.08</td>
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<td>TCS-E</td>
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<tr>
<td>TCS</td>
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<tr>
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<tr>
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<td>0.60</td>
</tr>
<tr>
<td>TCLL-X</td>
<td>1000</td>
<td>5000</td>
<td>0.50</td>
<td>1.2</td>
</tr>
</tbody>
</table>

* Copper magnet wire at recommended “Standard Tension”

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Working with local partners in the following countries:
Austria, Czech Republic, Germany, Hungary, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden.