60kV Electron Beam Welder
TURBOCHARGER MODELS

**Passenger car and commercial diesel applications**

**Manual or robot loading**

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**Equipment, Features and Options**

**Standard Equipment**
- Automatic beam alignment and filament heating
- Beam deflection patterns and function generator
- Ethernet hub for remote diagnostics
- High-quality HDMI camera and vision system
- HMI for recipe storage and data logging
- Industrial PLC with PC-based
- Separately pumped gun column

**Advanced Features and Options**
- Automatic joint finding option using back scattered electrons
- Directly heated cathode with high-intensity beam for low distortion
- Light guard protection of the loading area
- MES and industry 4.0 compatibility
- Plain tooling housing for self-aligning parts and dual drive tooling housing option for centring
- Pneumatic tail-stock
- Quick change tooling

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**TW Model**

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**NG Model**

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Shaft and wheel
## Specification

<table>
<thead>
<tr>
<th></th>
<th>TW Model</th>
<th>NG Model</th>
<th>SP Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical takt time*</td>
<td>30-35s</td>
<td>20-22s</td>
<td>15-18s</td>
</tr>
<tr>
<td>Dual drive tooling housing</td>
<td>A up to 53mm</td>
<td>Up to 53mm</td>
<td>Up to 53mm</td>
</tr>
<tr>
<td>Maximum wheel size</td>
<td>B 50-82mm</td>
<td>C 80-105mm</td>
<td></td>
</tr>
<tr>
<td>Plain tooling housing</td>
<td>Up to 120mm</td>
<td>Up to 65mm</td>
<td>Up to 65mm</td>
</tr>
</tbody>
</table>

*Dependent on weld recipe, shaft diameter and joint finding option

- **PC-based HMI with data log to hard drive and remote diagnostics via ethernet hub**
- **Dual drive tooling housing, shaft adapter and wheel collet**
- **D60LN gun column with filament alignment system and turbo-molecular pump**
- **Automatic joint finder**
- **Weld cross-section**

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**USA**
Cambridge Vacuum Engineering Inc.
Unit 7 630, Silver Street
Agawam
Massachusetts 01001-0867
United States of America

+1 (413) 789 4600

E-mail: sales@camvaceng.com
Web: www.camvaceng.com

**UK Headquarters**
Cambridge Vacuum Engineering
Pembroke Avenue
Waterbeach
Cambridge
CB25 9QX
United Kingdom

+44 (0) 1223 863481

**China**
Aquasium Technology (Beijing) Co. Ltd
Suite 5, East Tower, 10th Floor
B12 Jiangoumenwai Avenue
Beijing 100022
People’s Republic of China

+86 (10) 512 25102

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