Modular EOL test concepts for the very latest e-drives

teamtechnik supplies fully automated EOL test benches for e-drives, with adaptable test software, developed in-house. It provides full test functionality, from electrical testing to dynamic NVH testing.

What makes teamtechnik’s test benches special:
- High drive system dynamics
- Excellent control quality for maximum reproducibility of measurement results
- Reliable energy management in the test bench
- Control of high currents and voltages
- Electrical tests and calibration
- Function and noise level testing
- Communication with control units
- Traceability (Industry 4.0)
- Testing with or without an inverter installed
- Adaptable test software with drag & drop functionality
- Tried and trusted human and machine safety concept
Intelligent production technology with teamtechnik software systems

Optimally matched to our production systems, our teamsoft.MES production control software and teamsoft.TEST test software offer total flexibility for the test process modules. For e-drive test benches, teamsoft.TEST is the ideal, innovative, web-based test software for displaying test cycles graphically.  

### Technical Data/Performance Data*

<table>
<thead>
<tr>
<th>Description</th>
<th>Rated torque Nm</th>
<th>Speed rpm</th>
<th>Rated output kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output unit performance data (water-cooled)</td>
<td>3500</td>
<td>2600</td>
<td>220</td>
</tr>
<tr>
<td>E-drive types</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise level [dB]</td>
<td></td>
<td>&lt; 70</td>
<td></td>
</tr>
<tr>
<td>Machine size</td>
<td></td>
<td>6500 x 1500</td>
<td></td>
</tr>
<tr>
<td>Weight (basic model)</td>
<td></td>
<td>12 tonnes</td>
<td></td>
</tr>
<tr>
<td>Electrical connection power</td>
<td></td>
<td>280 kVA/400 V</td>
<td></td>
</tr>
<tr>
<td>Test object power supply (DC source)</td>
<td></td>
<td>Flexible, ranging from 48 V DC to 900V DC</td>
<td></td>
</tr>
<tr>
<td>Inverter</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Contacting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test oil supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling water supply</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operator interface (HMI)</td>
<td></td>
<td>22&quot;</td>
<td></td>
</tr>
<tr>
<td>Test software</td>
<td></td>
<td></td>
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<tr>
<td>Automation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional test bench concepts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Data for a standard machine

### EOL test bench

#### Product-specific adaptation
- clamping and adapting
- HV/LV contacting
- media contacting (oil, cooling water, air)

#### Modular testing technology
- measurement technology
- drive control
- communication interfaces
- power supply
- flexible test software
- and much more

#### Demand-driven automation
- manual loading
- semi-automated loading
- conveyor system
- robotics
- loading via DCS
- driverless conveyor system
- and much more

Test bench architecture

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