The ElectroPuls™ E3000 is a state-of-the-art, all-electric test instrument designed for dynamic and static testing on a wide range of materials and components. It includes Instron® advanced digital control electronics, Dynacell™ load cell, Console software, and the very latest in testing technology – hassle-free tuning based on specimen stiffness, electrically operated crosshead lifts, a T-slot table for flexible test set ups and a host of other user-orientated features. Powered from a single-phase supply it requires no additional utilities for basic machine operation (for example, pneumatic air, hydraulics, or water).

**Features**

- Oil-Free linear motor technology for clean conditions
- The actuator can be unlocked to allow free rotation on the actuator to add flexibility in the tests that require this
- Designed for both dynamic and static testing on a variety of materials and components
- High dynamic performance, capable of performing at over 100 Hz
- ±3000 N dynamic linear load capacity and ±2100 N static load capacity
- Electrically powered from single phase main supply, no need for hydraulic or pneumatic air supplies
- Temperature-controlled air-cooling system
- High-stiffness, precision-aligned twin column load frame with actuator in upper crosshead
- Versatile T-slot table for regular and irregular grips and specimens
- Compact instrument - frame requires less than 0.3 m² (3.2 ft²) of desk space

**Hidden Technology Designed to Improve Your Test**

- Patented, stiffness-based loop tuning system
- Unique actuator bearing system that maintains load string alignment when offset or lateral loads are induced by specimens or fixtures
- An optical encoder for precise digital extension control and a dedicated position channel for set up and end of test
- Digital control based on the industry’s most advanced controller
- Dynacell advanced load cell technology for faster testing and reduction of inertial errors

**A High Level of Versatility**

- Readily adjustable test space to suit a wide variety of specimens, grips, fixtures, and accessories
- 60 mm (2.36 in) stroke, for a wide range of tests, as well as ease of specimen set up
- Twin column configuration provides easy access to the test area
- Compatible with WaveMatrix™, Bluehill® Universal* and Application Specific software
- Compatible with a large range of grips, fixtures, chambers, saline baths, video extensometers, and other accessories

*Only supported in desktop mode
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamic Capacity</td>
<td>±3000 N (±675 lbf)</td>
</tr>
<tr>
<td>Static Capacity</td>
<td>±2100 N (±472 lbf)</td>
</tr>
<tr>
<td>Stroke</td>
<td>60 mm (2.36 in)</td>
</tr>
<tr>
<td>Load Weighing Accuracy</td>
<td>±0.5 % of indicated load or ±0.005 % of load cell capacity, whichever is greater</td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>861 mm (34 in) maximum with actuator at mid stroke</td>
</tr>
<tr>
<td>Configuration</td>
<td>Twin-column with actuator in upper crosshead</td>
</tr>
<tr>
<td>Mounting</td>
<td>Tabletop: Vertical</td>
</tr>
<tr>
<td>Lift and Locks</td>
<td>Electrically powered lifts with manual lever clamps</td>
</tr>
<tr>
<td>Load Cell</td>
<td>±5 kN Dynacell™</td>
</tr>
<tr>
<td>Weight</td>
<td>240 kg (529 lb) [frame] 42 kg (92.5 lb) [controller]</td>
</tr>
<tr>
<td>Electrical Supply</td>
<td>200 VAC to 240 VAC 16A single phase 50/60 Hz</td>
</tr>
<tr>
<td>Cooling</td>
<td>Temperature-controlled air cooling</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>+10 to +30°C (+50 to +86°F)</td>
</tr>
</tbody>
</table>

INTERFACES

| Actuator               | 3 × M6 on 75 mm PCD 3 × M6 on 57 mm PCD |
| T-Slot Table           | M6 × 1 Right Hand Central Thread 3 × M6 Holes on 75 mm PCD 3 × M6 Holes on 57 mm PCD 6 × M10 Holes on 100 mm PCD 3 × M10 Holes on 125 mm PCD 4 × M10 Holes on a 280 mm x 90 mm Accessory Rectangle 4 × M6 T-slots spaced 80 mm and 100 mm from Centre |

Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300-304</td>
<td>Safety Screen for E3000 Test Instrument</td>
</tr>
<tr>
<td>1300-311</td>
<td>High stiffness Table</td>
</tr>
<tr>
<td>2742-206</td>
<td>±3 kN ±25 Nm Linear-Torsion Mechanical Wedge-Action Grips</td>
</tr>
<tr>
<td>2810-500</td>
<td>3-Point Bend Fixture</td>
</tr>
<tr>
<td>2810-505</td>
<td>4-Point Bend Fixture Conversion Kit</td>
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<tr>
<td>2840-030</td>
<td>10kN Compression Platens</td>
</tr>
<tr>
<td>3117-080</td>
<td>ElectroPuls Pullrod kit</td>
</tr>
<tr>
<td>3119-605</td>
<td>Environmental Chamber</td>
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</tbody>
</table>

Notes: 1. Requires Pull-rods & Mounting Brackets