E-SERIES ELECTRIC DYNAMOMETERS

I-300E  I-600E  I-900E  I-1200E

I-1200E FIXED MOUNT ON HYDRAULIC LIFT TABLE

I-1200E MOBILE MOUNT
E-SERIES ELECTRIC DYNAMOMETERS

REPUTATION

AW has long been known for its dependability and longevity. Since 1957, AW has sold over 14,000 units worldwide. We are committed to manufacturing a heavy duty, high quality, highly accurate product and then backing it up with the best support and service to provide our customers with complete satisfaction.

HIGH TORQUE LOADS. LOW RPM.

AW E-Series Dynamometers excel at providing high torque loads at low RPM ranges, making this series of dynamometers an excellent choice for testing DC/AC, traction, and gear reduction motors as well as other applications. The E-Series load unit consists of a heavy duty hydraulically activated prony brake which has the unique feature of providing maximum torque load at zero RPM. This unique feature allows for lock-rotor testing. The design of this load unit also provides for a stable torque load and RPM set point with moderate ramp rates.
E-SERIES ELECTRIC DYNAMOMETERS

MODELS

AW E-Series Dynamometers come in four different models all using the same basic design. The models increase proportionally in horsepower and torque with the addition of power load units. Tank size and other components increase proportionally as well. The I-300E is a single power load unit with a max torque of 1,200 Ft. Lbs., the I-600E is a double power load unit with max torque of 2,400 Ft. Lbs., the I-900E is a triple power load unit with max torque of 3,600 Ft. Lbs., and the I-1200E is a quad power load unit with max torque of 4,800 Ft. Lbs. All E-Series units have an RPM range of 0-3600.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TORQUE</th>
<th>SPEED</th>
<th>@1,000 RPM</th>
<th>@1,800 RPM</th>
<th>@3,600 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-300E</td>
<td>1,200 FT. LBS.</td>
<td>0-3,600 RPM</td>
<td>200 HP (150 KW)</td>
<td>250 HP (186 KW)</td>
<td>300 HP (225 KW)</td>
</tr>
<tr>
<td>I-600E</td>
<td>2,400 FT. LBS.</td>
<td>0-3,600 RPM</td>
<td>400 HP (300 KW)</td>
<td>500 HP (373 KW)</td>
<td>600 HP (450 KW)</td>
</tr>
<tr>
<td>I-900E</td>
<td>3,600 FT. LBS.</td>
<td>0-3,600 RPM</td>
<td>600 HP (450 KW)</td>
<td>750 HP (560 KW)</td>
<td>900 HP (675 KW)</td>
</tr>
<tr>
<td>I-1200E</td>
<td>4,800 FT. LBS.</td>
<td>0-3,600 RPM</td>
<td>800 HP (600 KW)</td>
<td>1,000 HP (750 KW)</td>
<td>1,200 HP (900 KW)</td>
</tr>
</tbody>
</table>
E-SERIES ELECTRIC DYNAMOMETERS

E-SERIES

The E-Series Dynamometers come in two designs. One is fixed mounted and the other is wheel mounted for shop mobility. The unit is water cooled and requires a minimal amount of water flow of 8 GPM per 100 horsepower @ 70°F inlet temperature. The unit has a heavy duty bottom water tank which provides for additional cooling capacity as well as ballast for high torque loads.

STANDARD FEATURES INCLUDE:

- AW2100SXT DAQ computer with digital display of horsepower, torque, and RPM, real time dedicated processor, load control button, E stop
- MTSXT software integrated load control
- Electronic load control system
- Electronic thermocouple protection
- Electronic water flow switch protection
- Shear pin flange torque overload protection
- Bi directional valve allows (CW) (CCW) operation
- High speed/high torque overload protection
- 5,000 LB. Load Cell
- RPM magnetic pickup w/60 tooth sprocket
- Heavy duty hydraulic activated load unit
- Fatigue proof steel shafts
- Heavy duty top and bottom tanks

OPERATING REQUIREMENTS

WATER COOLED

- Continuous testing - 8GPM @ 70F per 100 HP
- Tests under 30 min - reservoir ballast tanks plus 8 GPM sufficient

ELECTRICAL REQUIREMENTS

- 110V for AW2100SXT DAQ Computer

MINIMUM POWER RATINGS

<table>
<thead>
<tr>
<th>Model</th>
<th>1800 RPM</th>
<th>3600 RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-300E</td>
<td>25HP</td>
<td>75HP</td>
</tr>
<tr>
<td>I-600E</td>
<td>50HP</td>
<td>150HP</td>
</tr>
<tr>
<td>I-900E</td>
<td>100HP</td>
<td>300HP</td>
</tr>
<tr>
<td>I-1200E</td>
<td>150HP</td>
<td>600HP</td>
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