MW-46 / Engine Dynamometer

 MW-46 Eddy Current Dynamometer

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>10 hp (7 kW)</td>
</tr>
<tr>
<td>Max Torque at Base Speed</td>
<td>17.5 lb-ft (23.7 Nm)</td>
</tr>
<tr>
<td>Base Speed</td>
<td>3,000 rpm</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>7,000 rpm</td>
</tr>
<tr>
<td>Construction Type</td>
<td>Dry Gap</td>
</tr>
<tr>
<td>Rotor Inertia</td>
<td>0.14 lb-ft² (0.006 kg-m²)</td>
</tr>
<tr>
<td>Coolant Required at Max. Power</td>
<td>1 gpm (3.8 lpm)</td>
</tr>
<tr>
<td>Coolant Inlet (Min-Max)</td>
<td>55-100 psi (378-689 kPa)</td>
</tr>
<tr>
<td>Coolant Inlet Temperature Max.</td>
<td>90°F (32.2°C)</td>
</tr>
<tr>
<td>Shipping Weight (estimate)</td>
<td>400 lb (181 kg)</td>
</tr>
<tr>
<td>Companion Flange / Hub Pattern</td>
<td>1310 - US Customary</td>
</tr>
<tr>
<td>Coil Voltage / Hot Amperage</td>
<td>90V / 1.78 amps</td>
</tr>
<tr>
<td>Rotation</td>
<td>bi-directional</td>
</tr>
</tbody>
</table>

Recommended Accessories

- Driveshaft - 1310
- Torsional Coupling - 1310
- Flywheel Adapter Plate Kit
- Driveshaft Guard
- Sub-Base Kit
- Air or Electric Starter
- Water Recirculating System
- T-slot Table
- Calibration Weights

For overhung loads, such as a belt or gear drive, please contact Dyne Systems to ensure that the system will meet the required performance needs.

Everything you need to succeed
Optional Accessories

Optional Manual Shaft Lock

Optional Automatic Day Tank

Optional Calibration Weights

Optional Driveshaft Guard

Optional T-Slot Table

Various Facility Support Systems and Services Available

Bulk Fuel Storage and Distribution
Coolant Storage and Distribution
Water Recirculation
Design, Project & Construction Management Services
Commissioning, Start-up & Training

(414) 755-0040 www.dynesystems.com
Standard Included Components

Load Cell and Linkage
Cooling Safety Package
Calibration Arm
Calibration Weight Hanger
Companion Flange / Hub Pattern 1310 - US Customary
Shaft End Guard
Magnetic Pickup and 60-tooth Gear

As a safety precaution, Dyne Systems recommends a torsional analysis to uncover any potential torsional problems that exist for each application. This analysis will identify any torsional issues (frequencies) that should be fixed prior to operation. Excessive linear vibration may also create problems that must be mitigated for continued operation. It is the customer's responsibility to ensure that these vibration issues are addressed upon application of the dynamometer. Equipment failures attributed to linear or torsional vibration are not warrantable.