DM-8162 / Engine Dynamometer

DM-8162 Eddy Current Dynamometer

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1,250 hp (932 kW)</td>
</tr>
<tr>
<td>Max Torque at Base Speed</td>
<td>3,751 lb-ft (5,086 Nm)</td>
</tr>
<tr>
<td>Base Speed</td>
<td>1,750 rpm</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>4,000 rpm</td>
</tr>
<tr>
<td>Construction Type</td>
<td>Wet Gap</td>
</tr>
<tr>
<td>Rotor Inertia</td>
<td>183 lb-ft² (7.71 kg-m²)</td>
</tr>
<tr>
<td>Coolant Required at Max. Power</td>
<td>125 gpm (473.2 lpm)</td>
</tr>
<tr>
<td>Coolant Inlet (Min-Max)</td>
<td>55-100 psi (379-689 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>7,000 lb (3,175 kg)</td>
</tr>
<tr>
<td>Companion Flange / Hub Pattern</td>
<td>1810 - US Customary</td>
</tr>
<tr>
<td>Coil Voltage / Hot Amperage</td>
<td>90V / 11.81 amps</td>
</tr>
<tr>
<td>Rotation</td>
<td>bi-directional</td>
</tr>
</tbody>
</table>

Recommended Accessories

- Driveshaft - 1810
- Torsional Coupling - 1810
- Flywheel Adapter Plate Kit
- Driveshaft Guard
- Sub-Base Kit
- Engine Cart
- Air or Electric Starter
- Engine Cooling Column
- Charge Air Cooler
- Water Recirculating System

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.
Optional Accessories

Optional Manual Shaft Lock
Optional Closed Loop Cooling Center
Optional Charge Air Cooler

Optional Driveshaft Guard
Optional Engine Cart

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
DM-8162 (US Customary)

DM-8162 (S.I.)
Standard Included Components

- Load Cell and Linkage
- Cooling Safety Package
- Calibration Arm
- Calibration Weight Hanger
- Companion Flange / Hub Pattern 1810 - 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.