DM-8082 / Engine Dynamometer

DM-8082 Eddy Current Dynamometer

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>275 hp (205 kW)</td>
</tr>
<tr>
<td>Max Torque at Base Speed</td>
<td>380 lb-ft (515 Nm)</td>
</tr>
<tr>
<td>Base Speed</td>
<td>3,800 rpm</td>
</tr>
<tr>
<td>Max Speed</td>
<td>8,000 rpm</td>
</tr>
<tr>
<td>Construction Type</td>
<td>Wet Gap</td>
</tr>
<tr>
<td>Rotor Inertia</td>
<td>5.2 lb-ft² (0.22 kg-m²)</td>
</tr>
<tr>
<td>Coolant Required at Max. Power</td>
<td>27.5 gpm (104 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>1,500 lb (680 kg)</td>
</tr>
<tr>
<td>Companion Flange / Hub Pattern</td>
<td>1410 - US Customary</td>
</tr>
<tr>
<td>Coil Voltage / Hot Amperage</td>
<td>90V / 5.15 amps</td>
</tr>
<tr>
<td>Rotation</td>
<td>bi-directional</td>
</tr>
</tbody>
</table>

Recommended Accessories

- Driveshaft - 1410
- Torsional Coupling - 1410
- Flywheel Adapter Plate Kit
- Driveshaft Guard
- Sub-Base Kit
- Engine Cart
- Air or Electric Starter
- 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
Standard Included Components

Load Cell and Linkage  
Cooling Safety Package  
Calibration Arm  
Calibration Weight Hanger  
Companion Flange / Hub Pattern 1410 - 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.

Note: Shown without companion flange

(All dimensions are for new OEM supplied units)