MW-1014W / Engine Dynamometer

MW-1014W Eddy Current Dynamometer

Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>250 hp (186 kW)</td>
</tr>
<tr>
<td>Max Torque at Base Speed</td>
<td>525 lb-ft (712 Nm)</td>
</tr>
<tr>
<td>Base Speed</td>
<td>2,500 rpm</td>
</tr>
<tr>
<td>Max. Speed</td>
<td>6,000 rpm</td>
</tr>
<tr>
<td>Construction Type</td>
<td>Wet Gap</td>
</tr>
<tr>
<td>Rotor Inertia</td>
<td>15.7 lb-ft² (0.66 kg-m²)</td>
</tr>
<tr>
<td>Coolant Required at Max. Power</td>
<td>25 gpm (94.6 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>2,600 lb (1,179 kg)</td>
</tr>
<tr>
<td>Companion Flange / Hub Pattern</td>
<td>1550 - US Customary</td>
</tr>
<tr>
<td>Coil Voltage / Hot Amperage</td>
<td>90V / 11.28 amps</td>
</tr>
<tr>
<td>Rotation</td>
<td>bi-directional</td>
</tr>
</tbody>
</table>

Recommended Accessories

- Driveshaft - 1550
- Torsional Coupling - 1550
- 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 Automatic Day Tank
- 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 1550 - 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.

Units | A  | B  | C  | D  | E  | F  | G  | H  | I  |
---    |----|----|----|----|----|----|----|----|----|
US Customary | 39.38 | 19.69 | 17 | 34 | 22 | 28 | 42 | 15.75 | 19.88 |
S.I. | 1,000 | 500 | 432 | 864 | 559 | 711 | 1,067 | 400 | 505 |

Units | J  | K  | L  | M  | N  | O  | P  | Y  |
---    |----|----|----|----|----|----|----|----|
US Customary | 33.5 | 24  | 30.6 | 12 | 6  | 3  | 3.5 | 1.13 |
S.I. | 851 | 610 | 777 | 305 | 152 | 76 | 89 | 29 |

(All dimensions are for new OEM supplied units)