**MW-2025A / Engine Dynamometer**

MW-2025A Eddy Current Dynamometer

**Specifications**
- Power: 700 hp (522 kW)
- Max Torque at Base Speed: 3,676 lb-ft (4,985 Nm)
- Base Speed: 1,000 rpm
- Max. Speed: 3,600 rpm
- Construction Type: Dry Gap
- Rotor Inertia: 677 lb-ft² (28.53 kg-m²)
- Coolant Required at Max. Power: 70 gpm (265 lpm)
- Coolant Inlet (Min-Max): 55-100 psi (378-689 kPa)
- Coolant Inlet Temperature Max: 90°F (32.2°C)
- Shipping Weight (estimate): 6,000 lb (2,722 kg)
- Companion Flange / Hub Pattern: 1810 - US Customary
- Coil Voltage / Hot Amperage: 90V / 19.51 amps
- Rotation: bi-directional

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.

**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
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
MW-2025A (US Customary)

Torque (lb-ft) vs. Speed (rpm)

MW-2025A (S.I.)

Torque (NM) vs. Speed (rpm)
**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.

<table>
<thead>
<tr>
<th>Units</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Customary</td>
<td>58.5</td>
<td>29.25</td>
<td>24.25</td>
<td>48.5</td>
<td>27</td>
<td>33</td>
<td>61.5</td>
<td>21</td>
<td>25.75</td>
</tr>
<tr>
<td>S.I.</td>
<td>1,486</td>
<td>743</td>
<td>616</td>
<td>1,232</td>
<td>686</td>
<td>838</td>
<td>1,562</td>
<td>533</td>
<td>654</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Units</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Customary</td>
<td>39.5</td>
<td>42</td>
<td>27.5</td>
<td>11</td>
<td>12</td>
<td>6</td>
<td>15.5</td>
<td>1.13</td>
</tr>
<tr>
<td>S.I.</td>
<td>1,003</td>
<td>1,067</td>
<td>699</td>
<td>279</td>
<td>305</td>
<td>152</td>
<td>394</td>
<td>29</td>
</tr>
</tbody>
</table>

(All dimensions are for new OEM supplied units)