MW-66-1HS / Engine Dynamometer

MW-66-1HS Eddy Current Dynamometer

Specifications

- Power: 30 hp (22 kW)
- Max Torque at Base Speed: 52.5 lb-ft (71.2 Nm)
- Base Speed: 3,000 rpm
- Max. Speed: 11,000 rpm
- Construction Type: Dry Gap
- Rotor Inertia: 0.75 lb-ft² (0.032 kg-m²)
- Coolant Required at Max. Power: 3 gpm (11.4 lpm)
- Coolant Inlet (Min-Max): 55-100 psi (378-689 kPa)
- Coolant Inlet Temperature Max: 90°F (32.2°C)
- Shipping Weight (estimate): 400 lb (181 kg)
- Companion Flange / Hub Pattern: 1310 - US Customary
- Coil Voltage / Hot Amperage: 90V / 1.07 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 - 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
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
MW-66-1HS (US Customary)

MW-66-1HS (S.I.)
**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.

<table>
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<th>A</th>
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(All dimensions are for new OEM supplied units)