



MW-3HS / Engine Dynamometer



Example Model Shown
(Image may not depict all standard included components)

MW-3HS Eddy Current Dynamometer

Specifications

| | |
|---------------------------------|---|
| Power: | 5 hp (4 kW) |
| Max Torque at Base Speed: | 7.3 lb-ft (9.9 Nm) |
| Base Speed: | 3,600 rpm |
| Max. Speed: | 19,000 rpm |
| Construction Type: | Dry Gap |
| Rotor Inertia: | 0.044 lb-ft ² (0.002 kg-m ²) |
| Coolant Required at Max. Power: | 0.5 gpm (1.9 lpm) |
| Coolant Inlet (Min-Max): | 55-100 psi (378-689 kPa) |
| Coolant Inlet Temperature Max: | 90°F (32.2°C) |
| Shipping Weight (estimate): | 180 lb (82 kg) |
| Companion Flange / Hub: | Spider Coupling |
| Coil Voltage / Hot Amperage: | 90V / 1.13 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

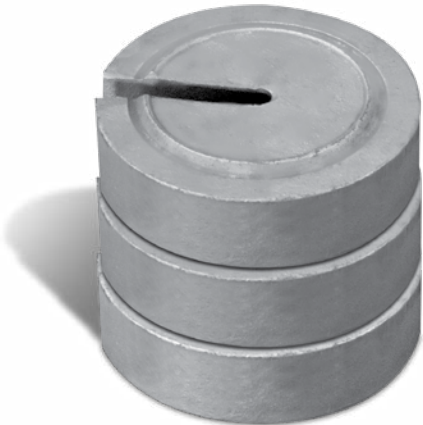
- Spider Coupling
- Sub-Base Kit
- Water Recirculating System
- T-Slot Table
- Calibration Weights

Everything you need to succeed

Optional Accessories



Optional Automatic Day Tank



Optional Calibration Weights



Optional T-Slot Table

Various Facility Support Systems and Services Available



Bulk Fuel Storage and Distribution



Coolant Storage and Distribution



Water Recirculation

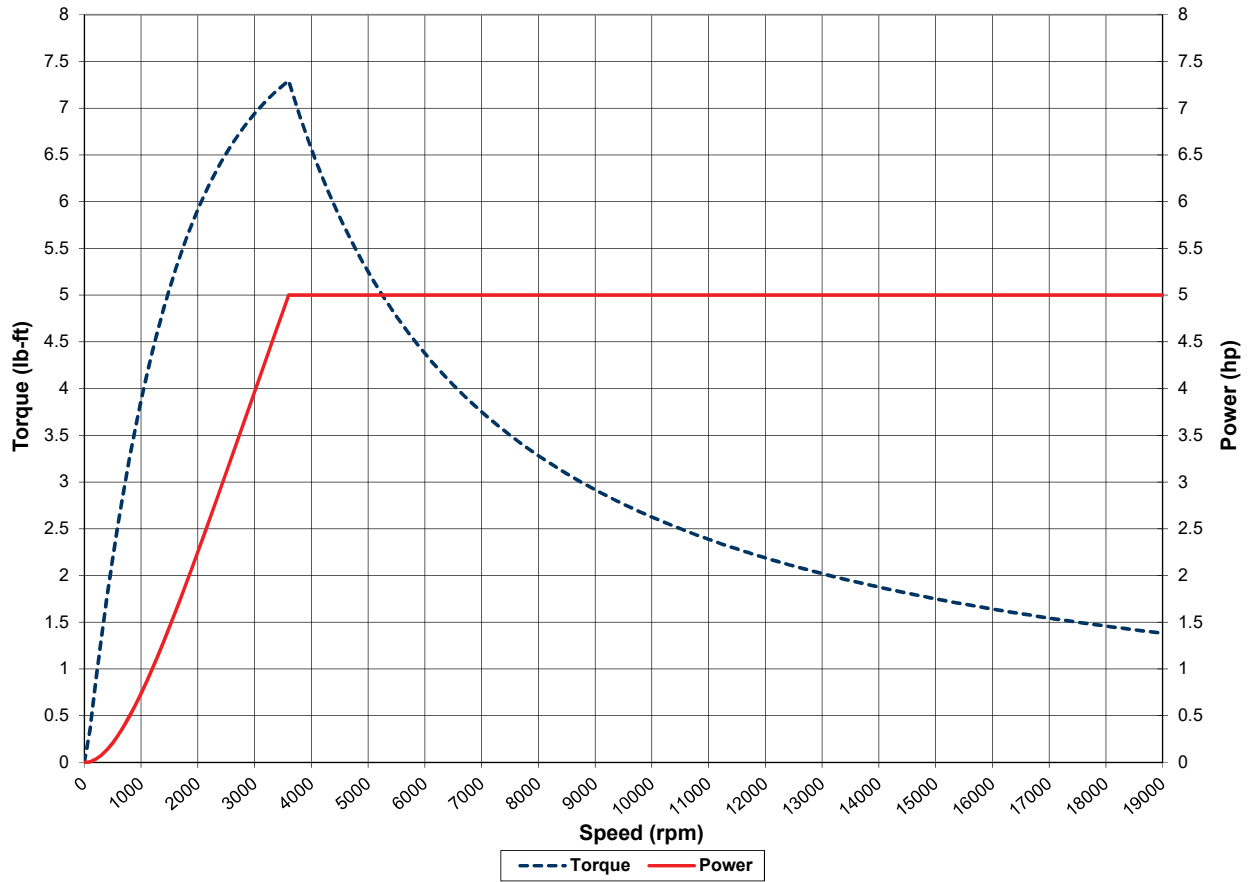


Design, Project & Construction Management Services

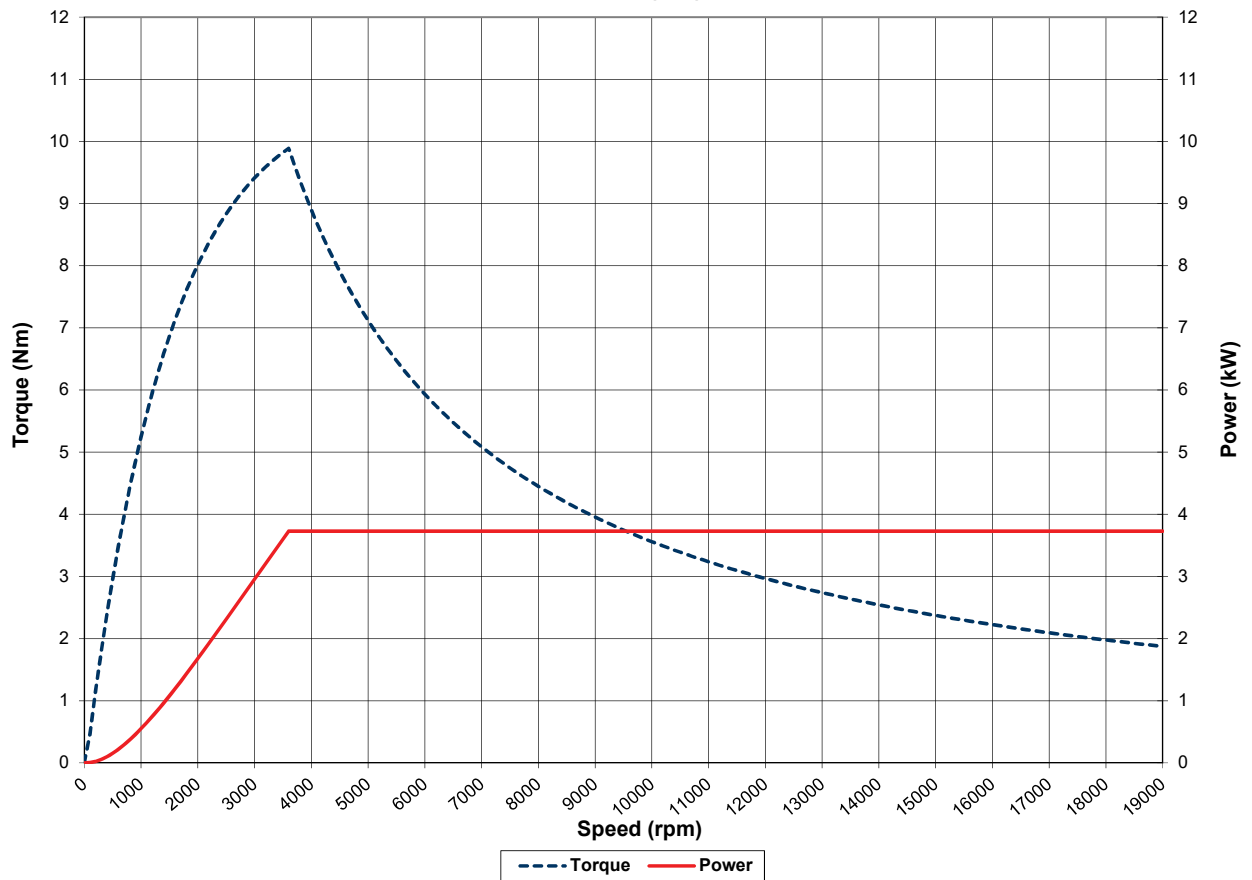


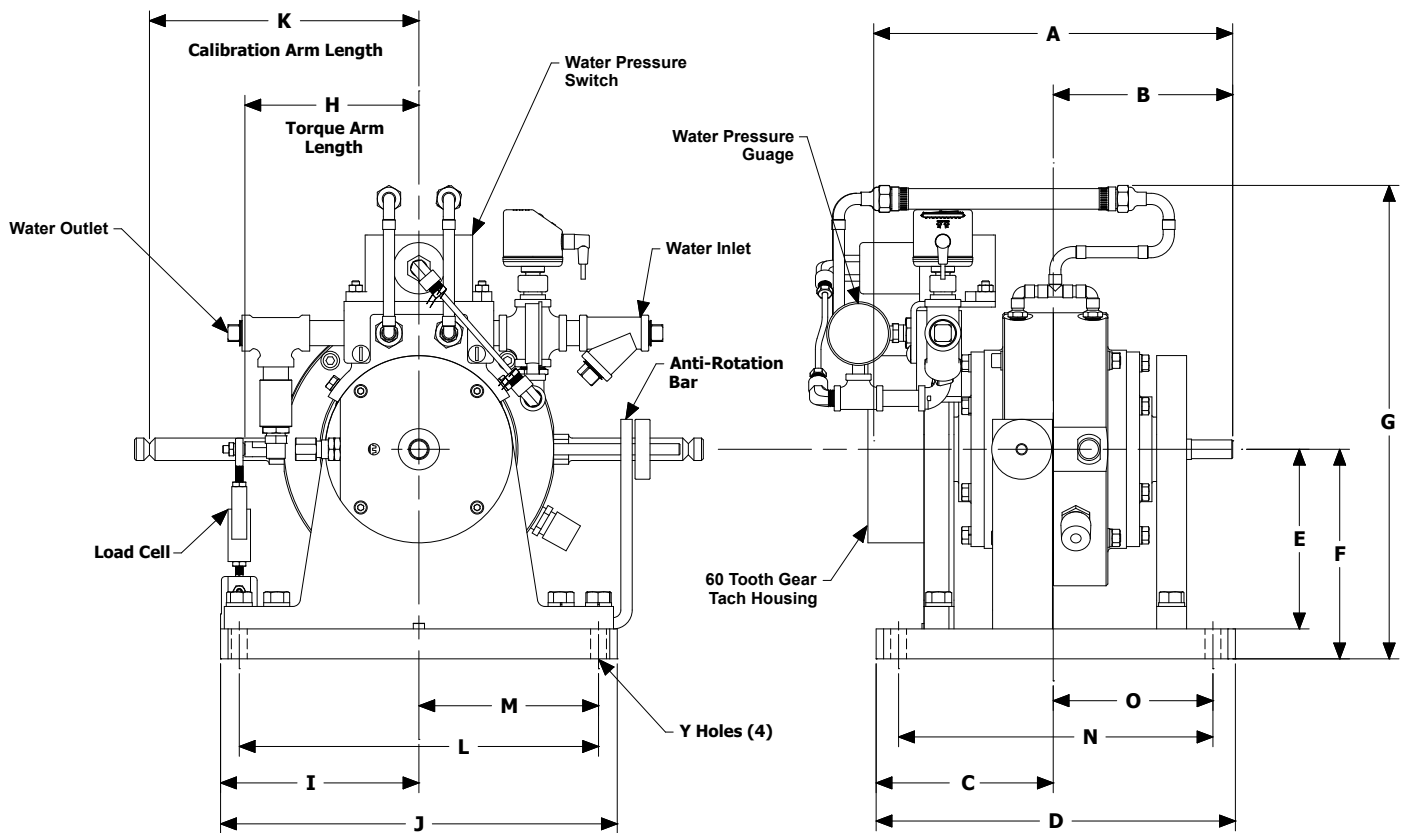
Commissioning, Start-up & Training

MW-3HS (US Customary)



MW-3HS (S.I.)





Note: Shown without companion flange

| Units | A | B | C | D | E | F | G | H |
|--------------|-----|-----|-----|-----|-----|-----|------|-----|
| US Customary | 12 | 6 | 6 | 12 | 6 | 7 | 15.8 | 5.8 |
| S.I. | 305 | 152 | 152 | 305 | 152 | 178 | 401 | 147 |

| Units | I | J | K | L | M | N | O | Y |
|--------------|------|-------|-----|-----|-----|------|------|-----|
| US Customary | 6.63 | 13.25 | 9 | 12 | 6 | 10.5 | 5.25 | .53 |
| S.I. | 168 | 337 | 229 | 305 | 152 | 267 | 133 | 13 |

(All dimensions are for new OEM supplied units)

Standard Included Components

- Load Cell and Linkage
- Cooling Safety Package
- Calibration Arm
- Calibration Weight Hanger
- Companion Flange / Hub - Spider Coupling
- Magnetic Pickup and 60-tooth Gear
- Greased Rotor Bearings

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.

Everything you need to succeed



Dyne Systems is a division of Taylor Dynamometer
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DS2300v002