DM-8152 / Engine Dynamometer

DM-8152 Eddy Current Dynamometer

Specifications

Power: 800 hp (597 kW)
Max Torque at Base Speed: 2,626 lb-ft (3,560 Nm)
Base Speed: 1,600 rpm
Max. Speed: 4,000 rpm
Construction Type: Wet Gap
Rotor Inertia: 124 lb-ft² (5.23 kg-m²)
Coolant Required at Max. Power: 80 gpm (302.8 lpm)
Coolant Inlet (Min-Max): 55-100 psi (378-689 kPa)
Coolant Inlet Temperature Max: 90°F (32.2°C)
Shipping Weight (estimate): 4,600 lb (2,087 kg)
Companion Flange / Hub Pattern: 1810 - US Customary
Coil Voltage / Hot Amperage: 90V / 11.2 amps
Rotation: bi-directional

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

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 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.