

DM-8081 Eddy Current Dynamometer

Specifications

Power: 200 hp (149 kW) Max Torque at Base Speed: 375 lb-ft (509 Nm)

Base Speed: 2,800 rpm
Max. Speed: 8,000 rpm
Construction Type: Wet Gap

Rotor Inertia: 5.2 lb-ft² (0.22 kg-m²)
Coolant Required at Max. Power: 20 gpm (75.7 lpm)
Coolant Inlet (Min-Max): 55-100 psi (378-689 kPa)

Coolant Inlet Temperature Max: 90°F (32.2°C)
Shipping Weight (estimate): 1,500 lb (680 kg)
Companion Flange / Hub Pattern: 1410 - US Customary
Coil Voltage / Hot Amperage: 90V / 5.15 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 1410
- Torsional Coupling 1410
- Flywheel Adapter Plate Kit
- · Driveshaft Guard
- Sub-Base Kit
- Engine Cart
- · Air or Electric Starter
- · 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



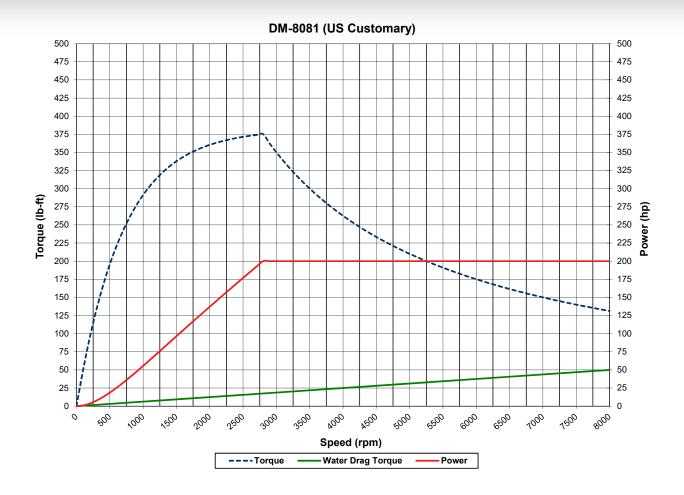
Water Recirculation

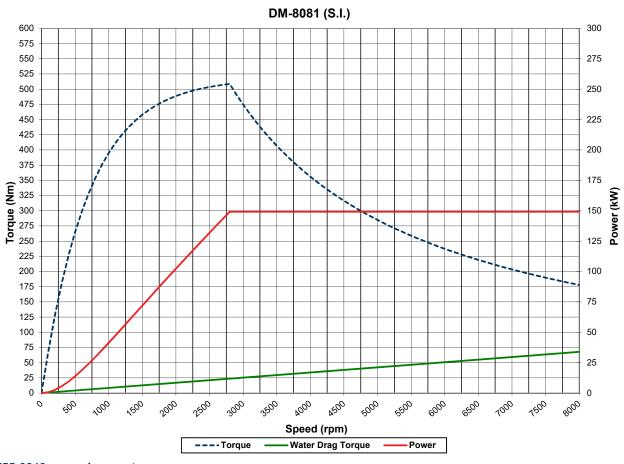


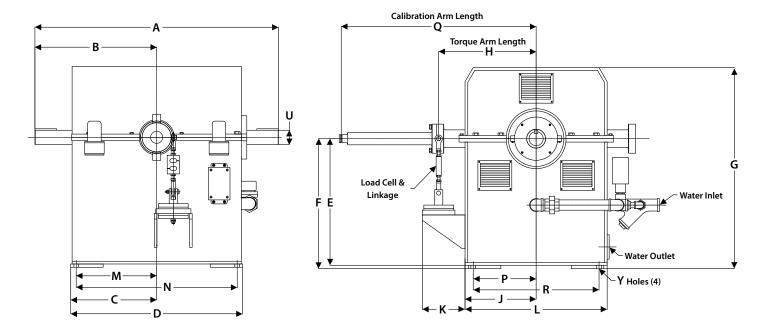
Design, Project & Construction Management Services



Commissioning, Start-up & Training







Note: Shown without companion flange

Units	Α	В	С	D	E	F	G	Н	J
US Customary	30.4	15.18	11.56	23.12	15.12	16	25.5	13.5	9.5
S.I.	772	386	294	587	384	406	648	343	241

Units	K	L	М	N	Р	Q	R	U	Υ
US Customary	5.75	19	10.62	21.24	7.5	24	15	1.63	0.56
S.I.	146	483	270	539	191	610	381	41	14

(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 Pattern 1410 - 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.

Everything you need to succeed

