

# Go Power D357

## Gasoline Engine Dynamometer



### The Go Power D57 Series

The D357 dynamometer is designed for power and/or endurance testing of gasoline engines at speeds up to 7,500 rpm continuous and 10,000 rpm intermittent. The D357 is quickly and easily fitted to an engine mounted on a fixed base or mobile engine stand.

The ease of use, when combined with a Go Power Systems instrumentation package, allows the user to achieve precise testing and results with minimum set-up time.

There are a wide variety of adapters and engine carts available for attachment to standard engine types. We can design adapters for virtually any application.

Go Power Systems offers cooling columns, engine carts, engine adapters and many other accessories necessary to outfit test cells from the entry level to the most sophisticated automated data acquisition & control systems.



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## Main Specs

- For endurance and/ or power testing of gasoline engines
- MAX POWER: 600 Bhp / 450 kW
- MAX TORQUE: 500 lb ft / 680 Nm
- MAX SPEED with grease lubrication:  
Continuous: 7,500 RPM / Intermittent: 10,000 RPM

## D Series Features

- Portable, Quick Set Up, Low Maintenance
- Configurable - Close-Coupled or Engine Input Shaft Adapter Connection
- Durable Bronze Absorption Module Construction
- Refurbishments, Spare Parts Available

## Test Packages Available

### The EDP357 Essential Dynamometer System Package:

D357 Dynamometer  
Torque calibration arm assembly, weights not included  
(Note: dyno should be calibrated every 6 months)  
Manual load control valve set  
DC200 digital display console (displays RPM, Torque, HP)  
Interface harness kit

### The ADP357 Advanced Dynamometer System Package:

All of the above, substituting a GPS6000 Data Acquisition system in place of the DC200 display console

### The RDP357 Remote Dynamometer System Package:

All of the components in the ADP package, substituting a Servo Load Control Valve in place of the Manual Load Control Valve

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### Specifications

- Type of absorption: water brake
- Control: load varied at inlet (outlet fitting(s) contain restrictor orifice)
- Configurable for close-coupled or driveshaft engine connection
- Operating range: 7,500 rpm continuous, 10,000 rpm intermittent
- Single axial vane rotor for bi-directional testing
- Torque sensor: electronic strain gauge
- Speed sensor: 60 tooth gear with inductive pulse pickup
- Mainshaft: hardened stainless steel

### Dimensions/Shipping Info

- Width: 15 in (38 cm)
- Height: 16.5 in (42 cm)
- Depth: 23 in (58 cm)
- Weight: 75 lbs (34 kg)

### Water Requirements

- Inlet: 1.0 in (26 mm), 55 gpm (208 lpm) (@447 kW)
- Outlet: 1.0 in (25 mm) gravity drain to atmosphere; rec water temp: continuous 140°F (60°C); intermittent 140° - 160°F (60° - 71°C)
- Dynamic pressure: 60 PSI (4.10 bar)

### Engine Adaptation

- Mounting: bellhousing adapter plate (fits most standard patterns, can be drilled to match others)
- Flywheel interface: splined input shaft adapter engages clutch assembly and pilots into crankshaft.
- We also design custom adapters for many custom applications. Torsional dampening is required. Call for details.

### Dynamometer Includes

- Strain gauge load cell & speed sensor
- Barbed hose couplings, Inlet/discharge hoses, 15 ft (4.5m)

Froude maintains a policy of continuous research and development and specifications are subject to alteration without notice.

### Further Information:

Froude, Inc.  
41123 Jo Drive, Novi MI 48375  
+1 248.579.4295  
sales@froudedyno.com  
gopowersystems.com

### Manufacturing and Support:

Froude, Ltd.  
Blackpole Road  
Worcester WR3 8YB UK

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