

Go Power DT1000

Diesel Engine Dynamometer



For High Torque Applications

The DT1000 dynamometer is designed for endurance and/or power testing of light to medium duty diesel engines and other high torque applications. It is designed to be 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 to allow attachment to all 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.



MADE IN THE USA

Main Specs

- For Light to Medium Duty Diesel Engines
- MAX POWER: 500 Bhp (375 kW)
- MAX TORQUE: 1,000 lb ft (1,360 Nm)
- MAX SPEED: 4,000 rpm

DT Series Features

- Portable, Quick Set Up, Low Maintenance
- Safe, No Driveshaft Required
- Built-in Comprehensive Torsional Dampening System
- Long Service Life
- Refurbishments, Spare Parts Available

Test Packages Available

The EDP1000 Essential Dynamometer System Package:

- DT1000 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 ADP1000 Advanced Dynamometer System Package:

- All of the above, substituting a GPS6000 data acquisition system in place of the DC200 display console.

The RDP1000 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.

DT1000 Diesel Engine Dynamometer

Specifications

- Type of absorption: water brake
- Lubrication: greased bearing
- Operating range: up to 4,000 rpm
- Rotation direction: bidirectional
- Torque sensor: electronic strain gauge
- Speed sensor: 60 tooth gear with inductive pulse pickup

Engine Adaptation

- SAE flywheel housing adapter: #1/2-4 standard (0 & 00 available)
- Universal SAE flywheel adapters: Stock and custom adapters available

Dimensions/Shipping Info

- Width: 22 in (56 cm)
- Height: 19 in (48 cm)
- Depth: 16 in (41 cm)
- Weight: 99 lbs (44.9 kg)

Water Requirements

- Inlet: 1.0 in (26 mm) diameter; 50 US gpm (189 lpm) flow @ 500 hp; rec water temp 80°F (26°C)
- Outlet: 1.0 in (26 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)

Dynamometer includes:

- Strain gauge load cell, speed sensor, inlet, discharge/vent hoses 15 ft (4.5 m) and mechanical seal feed line assembly
- Splined interface stub shaft or power coupling
- Engine flywheel housing spacer with mounting hardware
- Requires flywheel adapter kit DAK-x or TDA -1000 w/ 50156-x adapter for engine interface.

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

We keep you testing.



MADE IN THE USA

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



GO POWER SYSTEMS

DT-1000

Torque
(lbf-ft) (Nm)

Power
(kW) (Bhp)

