

# Go Power DT2000

## Portable Diesel Engine Dynamometer



### For High Torque Applications

The DT2000 dynamometer is designed for endurance and/or power testing of medium to heavy duty industrial 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.



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## Main Specs

- For Medium to Heavy Duty Diesel Engines
- MAX POWER: 800 Bhp / 600 kW
- MAX TORQUE: 2,000 lb ft / 2,700 Nm
- MAX SPEED: 5,000 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 EDP2000 Essential Dynamometer System Package:

- DT2000 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 ADP2000 Advanced Dynamometer System Package:

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

### The RDP2000 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

# DT2000 Diesel Engine Dynamometer

### Specifications

- Type of absorption: water brake
- Lubrication: 90w gear oil (crankcase), greased hub
- Operating range: up to 5,000 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: 25 in (64 cm)
- Height: 22 in (56 cm)
- Depth: 17 in (43 cm)
- Weight: 290 lbs (132 kg)

### Water Requirements

- Inlet: 1.25 in (32 mm) diameter; 75 US gpm (284 lpm) flow @ 800 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: 45 PSI (3.00 bar)

### Dynamometer includes:

- Strain gauge load cell, speed sensor, inlet, discharge and vent hoses 15 ft (4.5 m) and mechanical seal feed line assembly
- Splined interface stub shaft
- 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:

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*We keep you testing.*



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

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# GO POWER SYSTEMS

DT-2000

Torque  
(lbf-ft) (Nm)

Power  
(kW) (Bhp)

