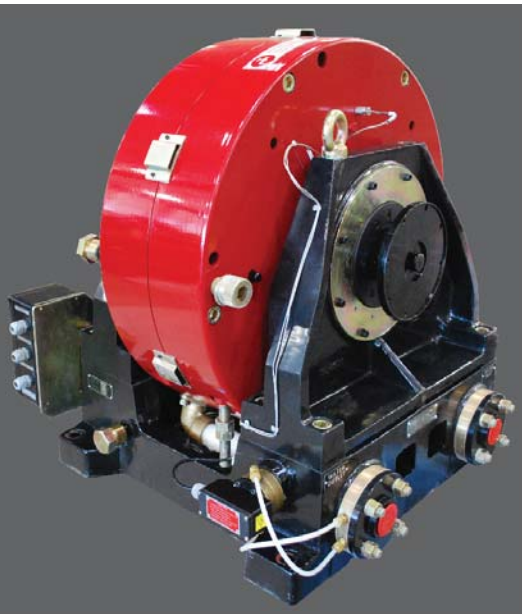
DE Series Engine Dynamometers

Engine Dynamometer



Durability

Taylor Dynamometer's water-cooled eddy current style engine dynamometers are known for their longevity. Every one of our products is designed with heavy-duty components and supported with legendary service. The end result is a track record of proven durability and satisfied customers.

Taylor Dynamometer has been manufacturing dynamometers since the 1920's. Commonly referred to as electromagenetic brakes, eddy current dynamometers are well suited for steady state, step, sweep and moderate transient testing requirements. These water-cooled eddy current style engine dynamometers have a slightly higher acquisition cost than waterbrake dynamometers, are easier to control, have low inertia, require limited maintenance and provide excellent durability.

Performance

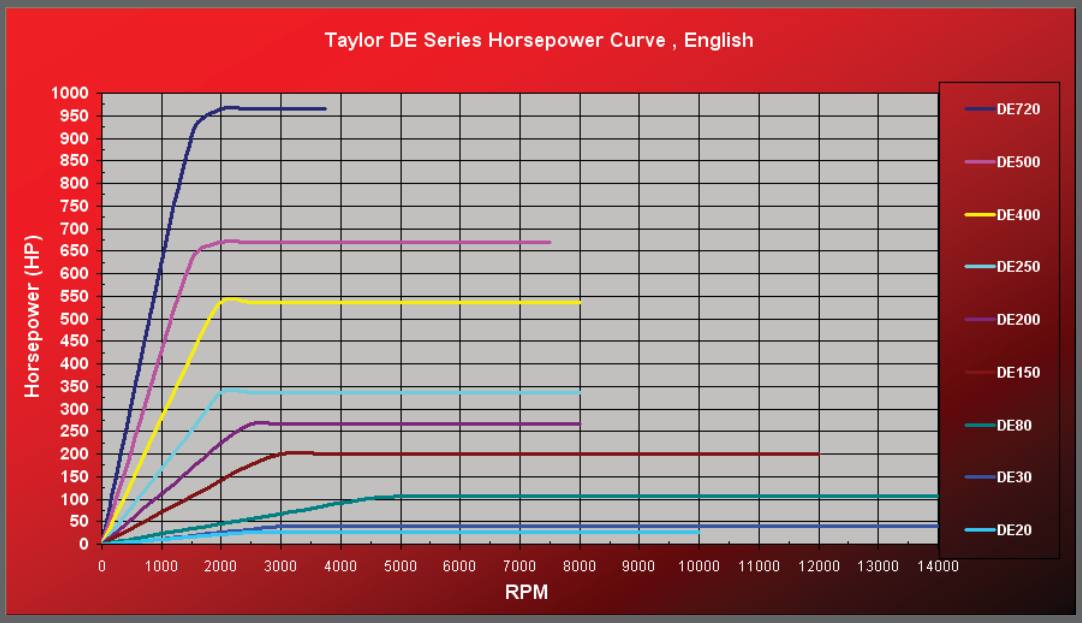
The rotating torque from the prime mover is absorbed by the electromagnetic braking within the dynamometer. This braking action or load is developed by a rotor that is being acted upon by the electromagnetic force from the coils in the stators. The electromagnetic force between the coils in the stators and the rotor oppose the rotating motion of the rotor. The greater the current through the coils in the dynamometer the greater the braking action or load on the prime mover.

The DE Series of Dynamometers

Our DE series includes 9 different models all sharing a similar design and construction.

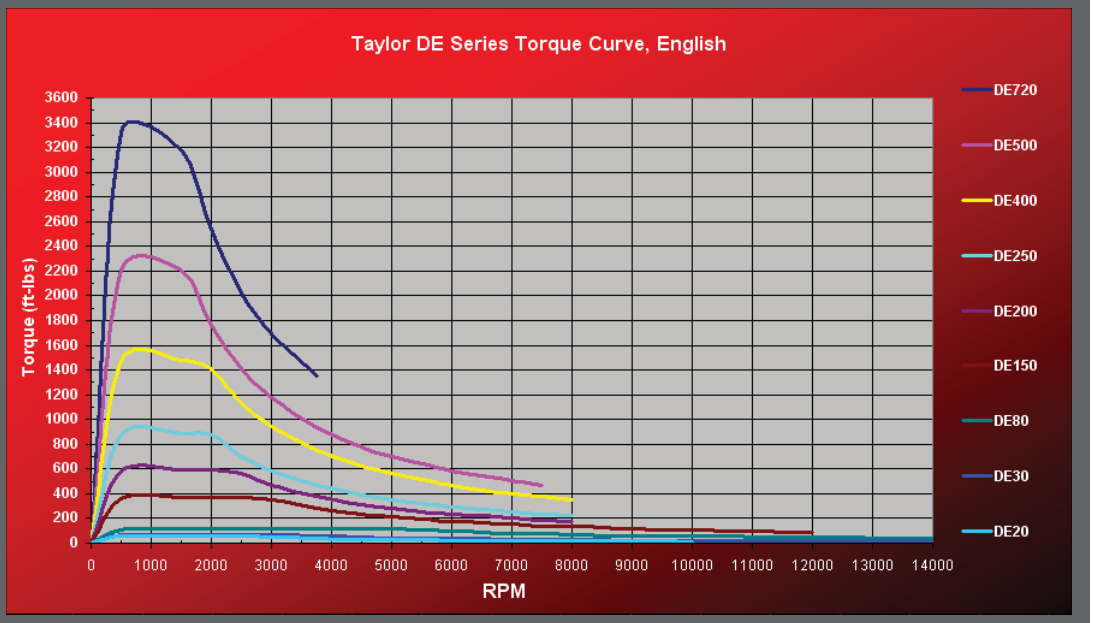
The DE series of dynamometers can be operated in both directions of rotation.

Model	Max Speed	Max Power
DE20	10,000	27hp (20kw)
DE30	14,000	40hp (30kw)
DE80	14,000	107hp (80kw)
DE150	12,000	201hp (150kw)
DE200	8,000	268hp (200kw)
DE250	8,000	335hp (250kw)
DE400	8,000	536hp (400kw)
DE500	7,500	670hp (500kw)
DE720	3,750	966hp (720kw)



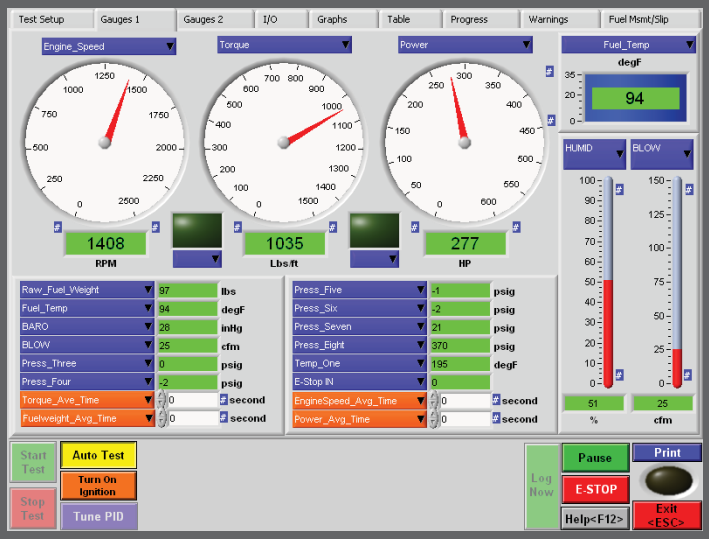
The DE series accommodates power ranges from as little as 3hp to 966hp (2kW to 720kW) and can operate at up to 14,000 rpm.

With peak torque of up to 3,314 ft-lbs (4,493 Nm) @ 500 rpm.



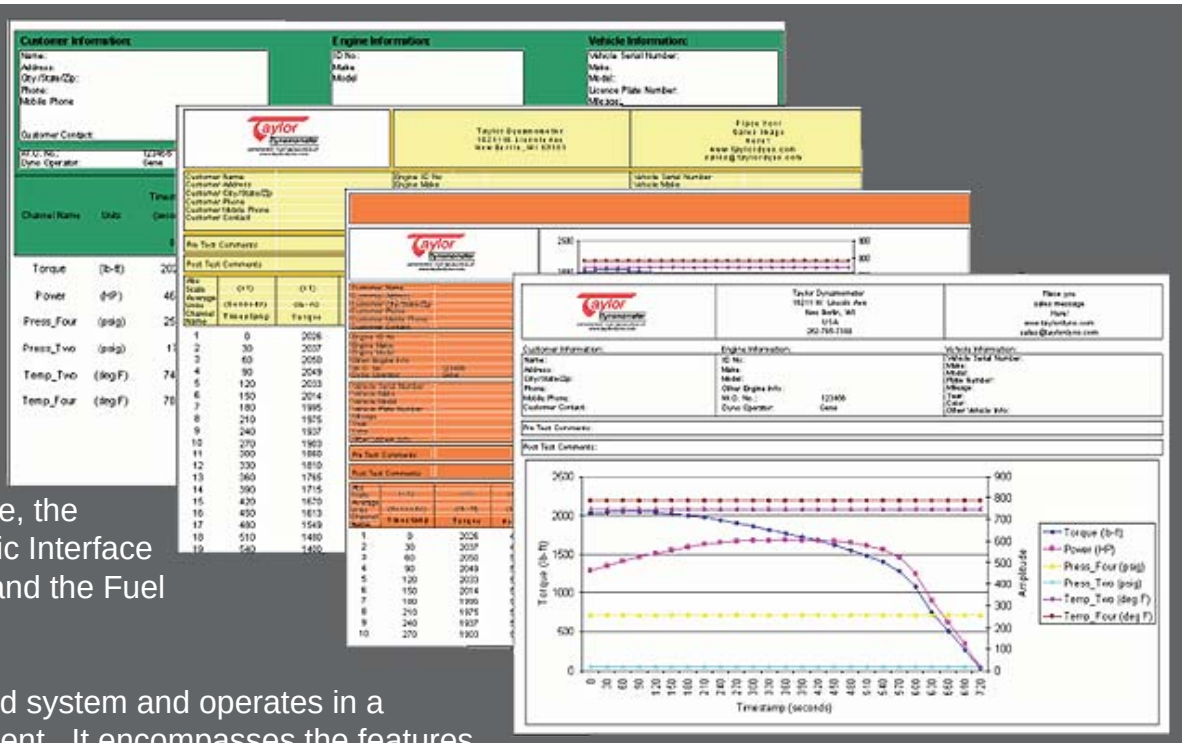
DynPro Data Acquisition & Control System

The making of a truly exceptional dynamometer system requires an exceptional dynamometer data acquisition and control system.



DynPro provides the flexibility and control required in today's challenging test environment, gives the operator complete control of the dynamometer functions and provides comprehensive data acquisition.

DynPro controls and acquires the data from the many accessories that compliment Taylor's DynPro system, including the Smoke Opacity Meter, the Emissions Gas Analyzer, the Pressure and Temperature Package, the Heavy-Duty Electronic Interface (for ECM channels) and the Fuel Measurement Unit.



DynPro is a PC based system and operates in a Windows™ environment. It encompasses the features of a lab grade control system and still delivers an operator friendly point and click interface.

Accessories

On each of our engine dynamometers, Taylor provides the option of including: driveshafts, torsional couplings, flywheel adapter plate kits, shaft guards, prefab sub-bases and more.

Taylor Dynamometer offers a full compliment of accessories to support your testing requirements.

Ask a Sales Representative for information on accessories such as:

*Driveshaft
*Exhaust System
*Cooling Column
*Hose Kit
*Charge Air Cooler
*Flywheel Adapter Kit
*Sub-base
*Guard
*Engine Cart
*Water Recirculation System
*Air Handling (HVAC) System
*Modular Sound Proof Test Cell

and more....

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3602 West Wheelhouse Road, Milwaukee Wisconsin U.S.A.
www.taylordyno.com 414-755-0040