



# DT843

## DT843 PTO Dynamometer

Designed from the ground up to test the modern tractors of today, with its exclusive features. The Dynotech DT843 is a patent pending dynamometer with the capability of testing 800 horse power @1000 rpm, with the torque capacity of 4300 lb/ft of torque.

The innovation of a large single rotor absorption unit, guarantees continuous smooth and equal loading during testing, unlike previous designs using multiple connected rotors.

This design also boasts better cooling efficiency due to its direct cooling at the point of friction, and the 275 gallon supplemental tank. The large tank also adds stability to the unit when testing high torque application.



### EXCLUSIVE FEATURES

- Single rotor absorption unit dramatically reduces the number of mechanical components which allows smooth dynamic operation.
- Improved dynamic water sealing reducing long term performance issues.
- Non-invasive service of drum, maintenance if performed externally.
- Extended maintenance intervals due to advances in brake design and lubrication technology.
- Large supplemental cooling reservoir with direct cooling at the point of friction provides maximum test sessions.
- Extended dynamometer shaft provides compensation for through wall operation, as well as additional operator safety during pto hookup.
- Ease of control and operation from the rear of the dynamometer increasing operator comfort and safety.
- Unsurpassed product warranty, provided at your request prior to purchase.
- Automatic water temperature shut down and reset.
- Onboard absorption unit diagnostics using the Power Pro 1000.

### SPECIFICATIONS

|                          |                      |                 |
|--------------------------|----------------------|-----------------|
| Horsepower Capacity      | 400hp @ 540rpm       | 800hp @ 1000rpm |
| Torque Capacity          | 4300 ft/lbs.         |                 |
| Water Reservoir Capacity | 275 gallons          |                 |
| Minimum RPM Range        | 0-1500 PTO only      |                 |
| Height                   | 5'2"                 |                 |
| Length                   | 5'                   |                 |
| Width                    | 4'                   |                 |
| Shipping Weight          | 2,870 lbs. (approx.) |                 |
| Operational Weight       | 4,800 lbs. (approx.) |                 |
| Water Drain Connection   | 1-1/2" discharge     |                 |



# DT843

## POWER PRO 1000 SYSTEM

Power Pro 1000 System is a simple, modern solution providing reliable data acquisition of a tractor power performance. Power Pro 1000 is user friendly and is supported by Windows based operating system.

The tractor power functions of PTO horsepower, PTO speed, ft/lbs of torque, plus a direct percentage in the measurement of torque rise are presented in the lower left corner of the display.

Also supported by the Power Pro 1000 display are the vitals of the dynamometers operating functions, such as, water temperature, hours of operation, internal vapor pressure, and working hydraulic pressure, which is a first with this popular design of power absorption units.



This system allows the operator to record the customer name, tractor brand, and tractor model. Once the brand and model have been selected the Power Pro 1000 will retrieve the Nebraska Tractor test specifications for engine and pto high idle rpm and rated rpm from the data file.

Included with the Power Pro 1000 software are free upgrades on Nebraska Test Data specifications as they are available.



**Dyno Tech Services LLC**  
 122 S 18th Street. Estherville, IA 51334

☎ 888-362-2944  
 ✉ sales@dynotechdyno.com  
 🌐 dynotechdynamometer.com