

CUSTOM ENGINEERED SOLUTIONS

In addition to Power Test's wide variety of standard equipment, many non-standard powertrain test requirements demand sophisticated engineered solutions.

This is why Power Test formed its Custom Engineered Solutions division. This team utilizes Power Test's industry-leading engineering expertise to create a solution to fit any unique application. The Engineered Solutions team studies all aspects of the test requirement to determine the optimized test solution. The concept is taken by the team of mechanical and electrical engineers to create a new machine design. CAD designers develop solid models of the new test stand for customer review and approval prior to release to our manufacturing operations group, where the testing solution is custom-built.

Our Experience

- Research & development testing
- Durability & non-destructive testing
- Production & audit testing

Drivetrain & Powertrain Applications

- Gearboxes
- Transmissions
- Driveshaft or couplings
- Compressors
- Unique multi-axle vehicles
- Electric motors
- Hydraulic pumps & motors

Solutions

- Regenerative AC dynamometers
- Hybrid tandem dynamometers
- Cold (no-load) spin test stands
- Hydraulic test stands
- Custom chassis dynamometers

Our Process

Assessment of customer needs

- Test specimen review & test methods
- Data required from test stand
- Constraints, limitations & budgeting

Project kick-off

Conceptual design & design reviews

Engineering design & solid model design reviews

Machine fabrication

Factory acceptance testing

On-Site installation support

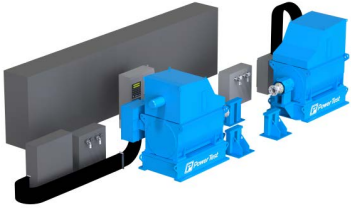
Commissioning, training, & signoff

Ongoing product support

No matter the application, we can create a custom solution.

We measure our success by yours, one test cell at a time.

Recent Project Examples



TD-5000

5000HP Regenerative
Transmission Test Stand



HTS-100x2

Dual 100HP, Regenerative Hydraulic
Pump/Motor Test Stand



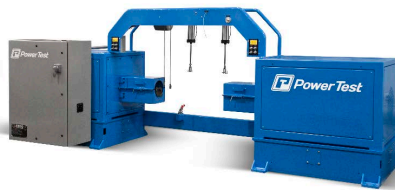
TD-2000

2000HP Regenerative Torque
Converter Test Stand



AC-670

500kW Line-Regenerative
Engine Dynamometer



PPTS-M

Military PowerPack Test Stand
for Armored Personnel Carriers



HTS-200

200HP Hydraulic Pump/Motor
Production Test Stand



SS-CD

Automated End-of-Line Production
Skid Steer Chassis Dyno



CTS-60

Single Stage Screw Compressor
Production Test Stand



AC-300HS

High Speed Double Ended
AC Regenerative Dyno



AC-200LT

200HP Regenerative Engine
Dyno on Lift Table

Challenge Us!