

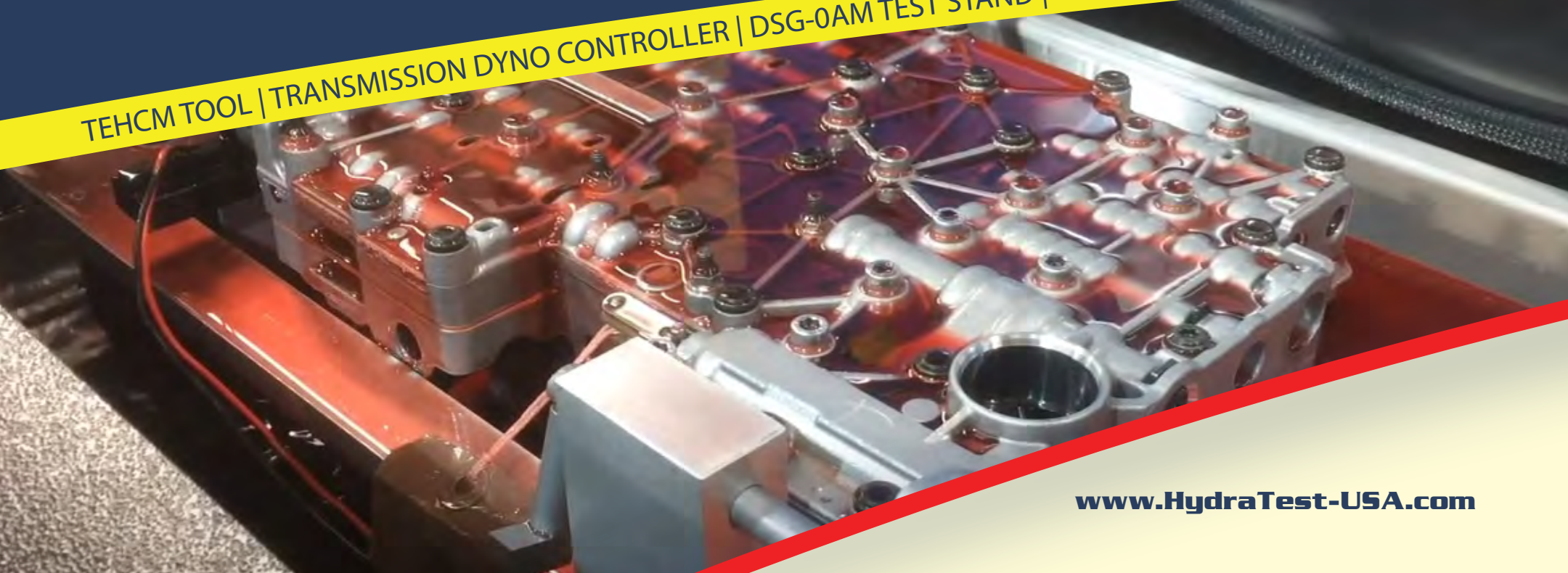
Hydra-Test

the ultimate in transmission testing equipment

2022
USA
PRODUCT
CATALOGUE

- VALVE BODY TESTER
- SOLENOID TESTER
- DSG-OAM TEST STAND
- TRANSMISSION DYNO CONTROLLER
- TEHCM TOOL
- TRANSMISSION LEAK TEST UNIT

TEHCM TOOL | TRANSMISSION DYNO CONTROLLER | DSG-OAM TEST STAND | SOLENOID TESTER | VALVE BODY



www.HydraTest-USA.com

OUR HISTORY

The **Hydra-Test** line of valve body & solenoid test equipment originated in the UK in the early 1990s. As the company grew the Hydra-Test brand quickly became recognized in Europe for its quality, reliability, and its wide range of applications.

In the 2000s, the Hydra-Test brand of products began to sell into North America and slowly became known for both their superiority and dependability. Fostered by this growth, the product line was further developed to support North American applications and requirements.

In 2020 a dedicated support and distribution office was established in the USA to better serve customers in North America for sales, technical support, and equipment delivery.

With increased market demand for both technical applications and equipment development, a North American manufacturing facility was established in Milwaukee, WI in 2022. This facility is supported by a dedicated team of individuals overseeing manufacturing, technical support, and business logistics.

The production facility in the USA is completing the development of a complete line of transmission dynamometers for 2022. For 2023, a complete line of torque converter remanufacturing equipment will be developed that will further expand Hydra-Test's offerings for the automatic transmission industry.

HT-VBT DELUXE

Valve Body Test System



We are proud to say that Hydra-Test has become associated around the world as the brand that means the most advanced transmission test equipment. When you need high quality valve body testing equipment, you need Hydra-Test. Our quality equipment has been used worldwide for over 20 years.

Constant support

- On-site commissioning & training, virtual training, or in-house training options available
- Online support and connection to your machine - for advice and service
- Pre-written test scripts and complementary development master data for all adapter plates

Most effective data processing and operation

- Top precision with the Industry's cutting edge HTC-S™ Controller
- Ease of use with HTC-S™ Data Acquisition and Analysis software
- Ability to capture data from the complete Valve Body or particular components
- Simple management of master and test data files

Advanced components

- "Hot Tray" system for accurate VB heating with dual temperature monitoring
- High pressure pump capable for CVT testing
- Electronic proportional system pressure valve
- Electronic gate valve for repeatable oil volume supply

Convenient handling

- Quick fit adapter plate hose connection
- Valve Body ATF saving drain cabinet and bolt-on shelves
- Industrial touch screen monitor

The VBT System can also test Solenoids with an adapter plate and test blocks

Our HT-SOL machine is a tool used for checking the electrical and hydraulic condition of solenoids. We design and manufacture a growing list of test blocks for solenoids making it possible to test the most popular makes on the present-day market.

HT-SOL 25

Solenoid Test System

Constant support

- On-site commissioning & training, virtual training, or in-house training options available
- Online support with connection to your machine - for advice & service
- Pre-written test scripts and complementary development master data for all test blocks

Most effective data processing and operation

- Top precision with a LOW COST version of our HTC-S™ Controller
- Ease of use with HTC-S™ Data Acquisition and Analysis software

Advanced level of testing solenoids

- Fast high temperature testing of individual solenoids
- Pre-programmed Laptop available to complete a "plug n' play" package

Convenient handling

- Quick fit adapter plate hose connection
- Used as a bench top machine

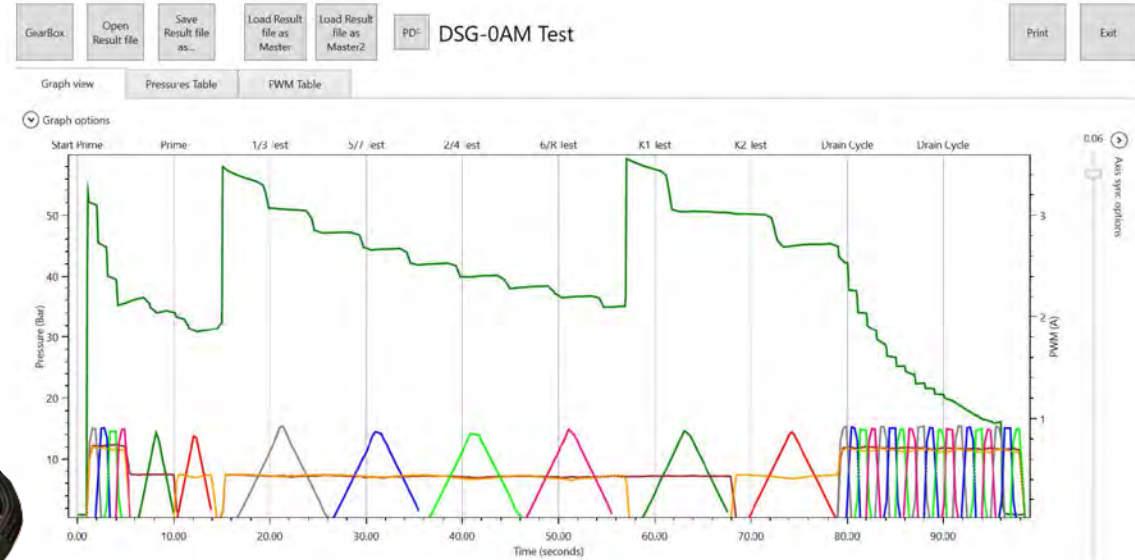
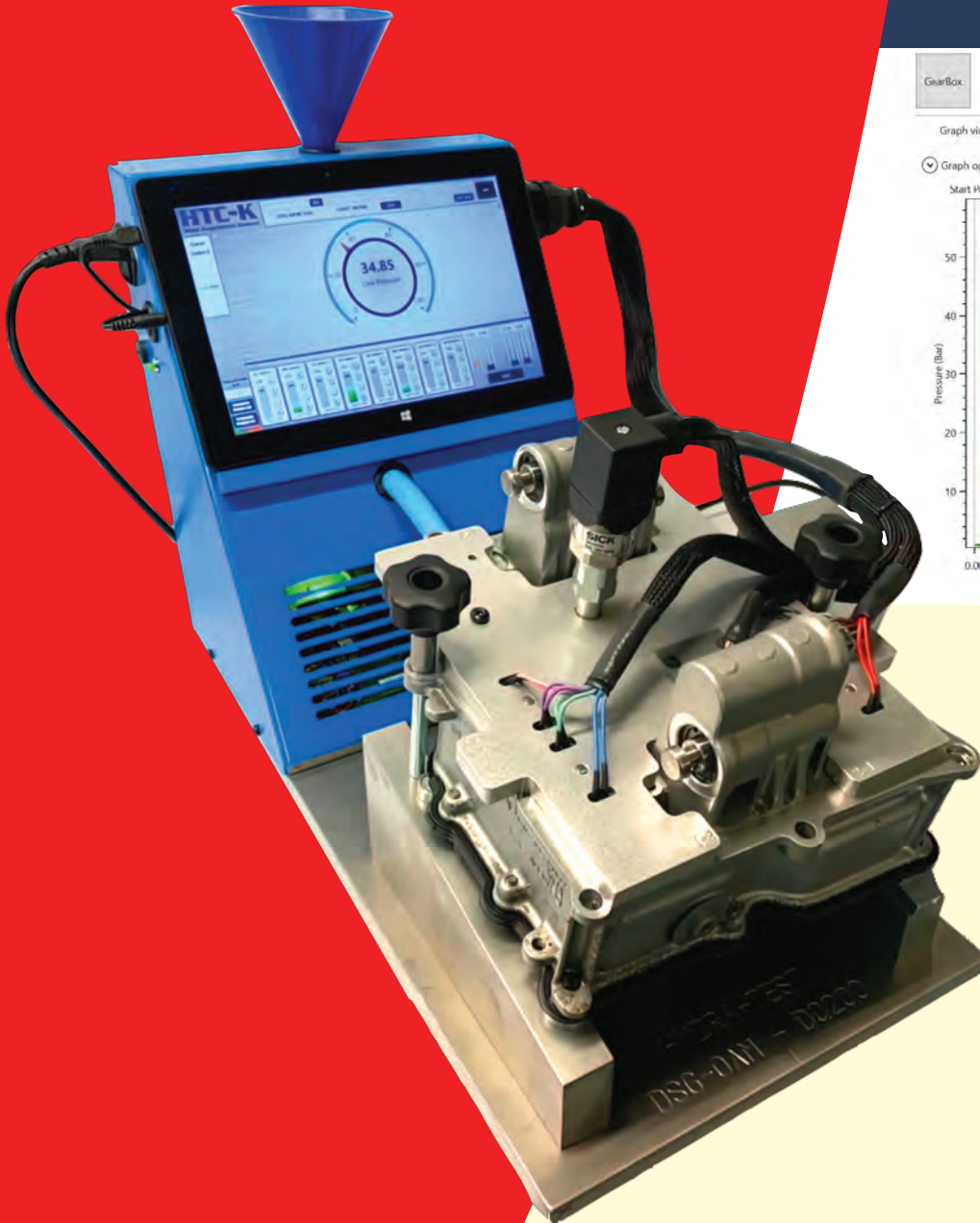
Solenoids test blocks can be fitted in the HT-VBT unit through the inexpensive Adapter plate to test individual Solenoids with a single tool



DSG-0AM (DQ200)

Complete 'Plug n Play' Test System

- **HTC Controller built-in**
- **Windows 10 Tablet**
- **Pre-written test scripts included**



True & comprehensive check for the following faults:

- Poor Pump performance
- Pump Motor degradation
- Pressure loss due to cracked housing
- Solenoid Ampere check and more commonly, critical mechanical performance issues
- External leaks from K1 & K2 actuator seals
- Internal leaks from Clutch fork actuators seals
- The HTC allows graphical viewing comparisons to data captured from a new unit

The Hydra-Test Dyno Control Console is fast becoming the standard control console for transmission dynamometers. Replace the existing outdated controls on your Axi-line or Mustang dyno with our all-in-one cart.

HT-DCC Deluxe

Transmission Dyno Controller

Complete Dyno & Transmission control all in one package

- Full manual and automatic dyno controls for manual or automated testing
- Full solenoid control to support all late model units
- Hardware compatible with our TEHCM controller

Latest processor and solenoid drive technology

- Designed to be compatible with future firmware updates so your system stays up to date
- Continuous software development based on customer needs and feedback
- Utilizes our HTC-S controller which is standard across our product offerings

Designed with Dyno compatibility in mind

- Configurable inputs and outputs to connect to any Axi-line or Mustang transmission dyno
- Available adapters for Axi-line or Zoom test cables
- On site installation, training, and commissioning

Easy to Navigate Software Platform

- Prewritten scripts for many common transmissions to get you started testing
- Full script editing capability for custom tests



HT-TEHCM

Transmission TEHCM Interface



A TEHCM controller that interfaces with TEHCM transmissions just like an OEM tool so you can properly test and control these units through the internal TEHCM.

Based on OEM communication and test modes

- Operates the transmission as if it were in the vehicle
- Read and display internal sensors
- Read and display relevant error codes

Multiple operation modes

- Operate as a stand alone device with the convenient touch screen interface
- Connect to your existing controls with a single analog output connection
- Interface with our HT-DCC Deluxe for fully automated testing

Multiple Test Capabilities

- Perform dyno testing on complete units
- Test and check valve bodies
- Ability to erase TEHCM of any existing calibration

Multiple Applications Available

- GM 6L Family
- GM 6T Family (Q4 2022)
- Chrysler 8HP (Q1 2023)

The HT-2000 is an essential tool for proper pressure testing of automatic transmissions during a rebuild.

By hydraulically pressurizing with oil, we catch the leaks that an air test misses and prevent a costly comeback.

HT-2000

Automatic Transmission Leak Test Unit

Test by applying pressurized oil

- Identify bad o-rings, cut lip seals, or other leaking internal components
- Equipped with a flowmeter to measure leakage on pistons or servo seals

The HT-2000's portability allows you to use it anywhere

- Bench test transmissions during a rebuild
- Pressure test a unit in the vehicle prior to removal
- Pressure test a malfunctioning unit on the dyno

Hydra-Test offers the largest assortment of leak test plates

- Ford, GM, Chrysler
- Aisin, Toyota, Nissan, Jatco, Mazda
- Mercedes, ZF, VW
- Mitsubishi, Hyundai, Kia, Subaru
- Renault, Peugeot, Citroen



HTC-S™

Data acquisition
controller & software

The Hydra-Test Controller functions as the "brain" of the entire system. Its accuracy and stability now make our system a complete and reliable package HTC-S™ Controller and software provides precise and easy to analyze graphics.



**16 Channel Input - 16 Channel Output
designed for VBT & Dyno testing**

HTC-S Controller newest features
introduced with the Daq system



Improved test
accuracy

500 Hz
Data sampling

Full and individual Solenoid frequency (Hz) control

Our very own designed "Easy Limits" data analysis calculator feature included:

- "Live View" feature for all Gauges and Solenoid functions to enable fine adjustments
- A genuinely easy file management and storage feature built in
- Additional Master Data view feature added to help analyze individual circuit performance

Adapter test plates & test blocks

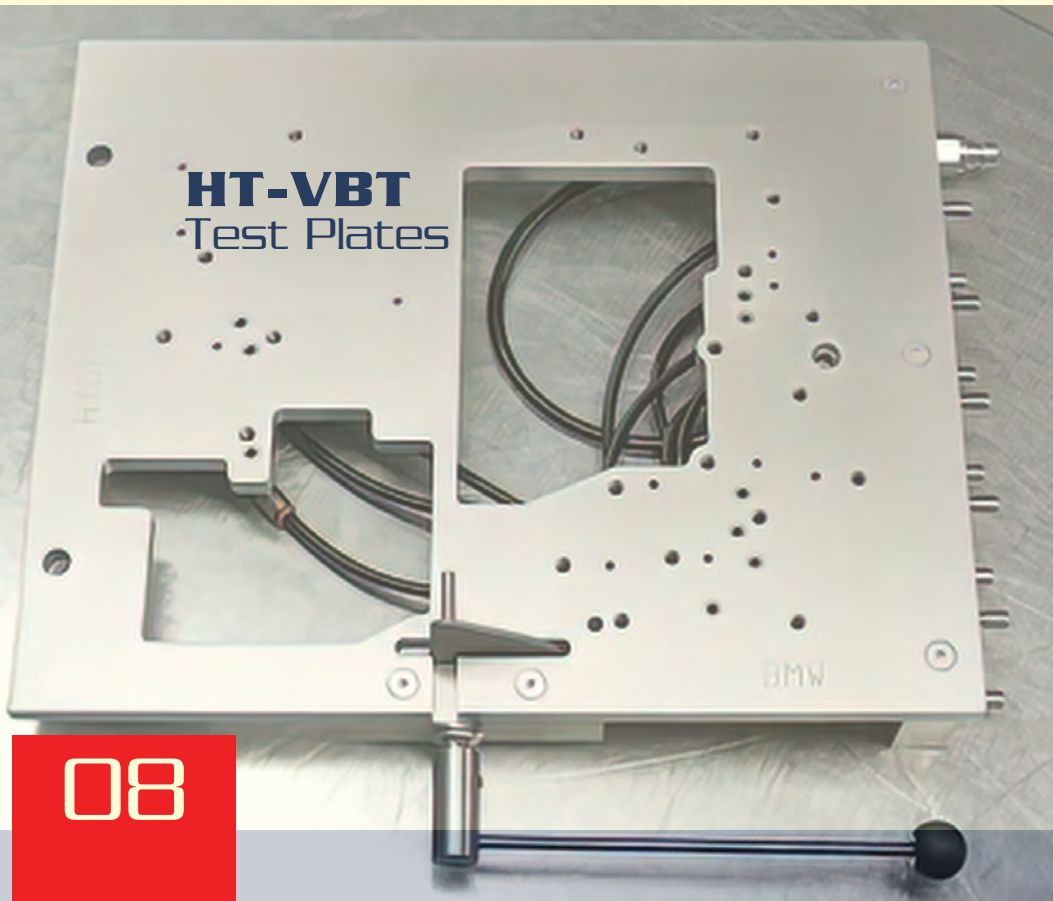
For HT-VBT, HT-SOL and HT-2000

Adapter plates improvements and features:

- "Easy fit" design for simple mounting on the machine
- Supported by comprehensive connection charts in PDF format
- Designed for high temperature testing

Solenoid test blocks features:

- Available with connection charts for reference at any time
- Universal connector kit included with the machine
- Dedicated connectors included with the test blocks when required



HT-SOL
Test Blocks



HT-2000
Leak Test Plates

NEW FOR 2023

Hydra-Test Transmission Dynamometer

The HT transmission dynamometer is based on modular & scalable architecture to meet your needs today or in the future.

Offered in a wide range of configurations

- 40 to 100 HP electric drive capability with 208/240/480 VAC options
- Variable electric brake load units available for RWD, FWD or AWD transmissions

Designed with proven controls

- Comes with an enhanced version of our HT-DCC Deluxe
- Utilizes high quality motor and load unit controls

Designed with compatibility in mind

- Direct fitment of Axi-line mechanical adapters
- Adapter cables for Axi-line and Zoom test harnesses

Torque Converter Welding Stand

The Hydra-Test Torque Converter welding stand is designed to fit all converters common to North America. Utilizing a robust design and a variety of options, this workhorse will take your torque converter remanufacturing to the next level.

- Single and dual welder options available
- Cost effective Razor Welder and industry standard Miller Welder options available
- Uses a dual self-centering chuck system for fast loading & unloading and precision results
- Heavy duty bearings and tables to support converters such as the 68RFE, 6R140, & Allison 10L1000
- Touch panel control with redundant buttons for control

Torque Converter Piston Bonder

The Hydra-Test Piston Bonder is designed with the latest style torque converters in mind. A robust frame, high clamp force, and a variable temperature controller will give you consistent results day in and day out.

- Halogen bulb heating technology allows for quick heating
- An advanced heat controller manages even and stable heating
- Adjustable clamp pressure allows you to set the correct clamp pressure with repeatable results
- Offered with a wide range of adapter plates available to fit your applications

Hydra Test USA

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ADAPTER TEST PLATES & TEST BLOCKS | DATA ACQUISITION CONTROLLER & SOFTWARE | TRANSMISSION LEAK TEST UNIT

HYDRA-TEST

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