



Mustang's MAE-AC/HYD-125 test stand

## From a Leader in Testing Solutions

Mustang Advanced Engineering's two hydraulic test stands for heavy duty transmission are MAE-AC/HYD-125 and MAE-AC/HYD-200.

MAE-AC/HYD-125 hydraulic test stand, with its robust design is perfect for testing heavy-duty off-highway hydraulic components. Featuring some of the most advanced technology on the market today, the MAE-AC/HYD-125 is equipped with a 93kW main motor and is designed for complete pump, motor, and cylinders testing. The MAE-AC/HYD-125 test stand is a highly versatile model for testing hydrostatic transmission and hydraulic components, with fully automated processes and state of the art display panels.

MAE-AC/HYD-200 is an Energy Regeneration Hydraulic Equipment Test Stand that adopts an inverter-controlled motor and energy regeneration circuit, and with our patented technology, it has achieved energy savings of more than 50% compared to conventional models in pump and motor tests. Automatic operation and automatic measurement are available as options. The main unit is operated using a touch panel, and measured values are displayed on the panel. This is a hydraulic equipment test stand that can test pump motors of 400 horsepower or more with a 200 horsepower electric motor.



Mustang's MAE-AC/HYD-200 test stand

## Available Options

- Automatic data processing and test drive system
- Torque meter, max. 3,000Nm
- High Capacity Flow Meter, 600 liter/min (38MPa)
- Case drain pressure port, 0~0.35 MPa
- High Capacity Motor Testing Booster kit

### Power up kit

The power-up kit is an option that increases the test capacity of the MAE-AC/HYD-125 hydraulic equipment test stand, and by installing it, the test output can be approximately doubled.

For pump tests, the rotational speed when high torque is generated is approximately doubled. For motor testing, the hydraulic discharge amount from the testing machine at high pressure can be approximately doubled. By installing the power-up kit, the 125 horsepower MAE-AC/HYD-125 can be turned into a hydraulic equipment test stand equivalent to 250 horsepower.

HST Charge Out Port: Max. 3.5MPa, 50liter/min

Neutral Test Port: Max. 14MPa, 100liter/min x2

### HST test block

This option allows you to test HST pumps without having to replace the hydraulic hoses. In conventional machines, it was necessary to change the hoses for the discharge port and suction port to the test machine's load port and supply port, but by installing the HST option device, the circuit is automatically switched between the discharge side and the supply side, so the hose There is no need to replace the parts, reducing work time.

Loading Capacity: Max. loading torque 2,200Nm  
(at 1,800RPM and 38MPa)

Max. Delivery Flow: 400liter/min

# Hydraulic Test Stands for Heavy Duty Transmissions



**TESTCell™**  
AUTOMATION & DATA ACQUISITION SYSTEM

MAE's new TESTCell™  
automation and data acquisition software is  
used in the operation of the dynamometer

## MAE-AC/HYD Series

Pump Test Capacity:	Double Pump Up to 190cc/rev+190cc/rev (at 1,800RPM and 38MPa)
HST Pump Test Capacity:	Optional: Up to 250cc/rev single pump (at 1,800RPM and 38MPa)
Motor Test Capacity:	Optional: Up to 220cc/rev motor (at 1,800RPM and 38MPa)
High Capacity Pump Test:	Optional: Up to 280cc/rev single pump
Drive Method:	Direct coupling with main electric drive motor
Max. Output:	336W (theoretical value with energy circulation)
Max. Pressure:	38MPa
Drive Control:	AC inverter control, variable speed (max. 3,000RPM)
Rotary Direction:	Clockwise/Counterclockwise
Main Drive Motor:	160 kW, 4P, AC 380V with inverter control
Pilot Pump:	5.5 kW, 4P, AC 380V
Lubrication Pump:	11 kW, 4P, AC 380V
Return and Cleaning Pump:	0.75 kW, 4P, AC 380V
Loading Port:	Max. 38 MPa, 600 liter/min x2 lines
Charge flow IN Port:	Max. 25 MPa, 400 liter/min x1 line
Suction Port:	5 inch; 3 inch x2
Return Port:	Max. 500 liter/min x1 line
Control Pressure:	Max. 20 MPa, 10 liter/min x1 line
Delivery Port:	Max. 4.9 MPa x2 (Total flow 20 liter/min)
Oil Tank Capacity:	1,450 liter, pressurized to 0~0.1MPa
Cooler:	Water cooler, 70kW x2 units
Filter:	Primary 10μ, Secondary 6μ



**MAE™**  
**MUSTANG**  
ADVANCED ENGINEERING  
*Fearless Innovation™*

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## About MAE

Mustang Advanced Engineering is a leading supplier of advanced, custom engineered testing and measurement systems. Located in Twinsburg, Ohio since 1986, MAE delivers world-class testing solutions, custom design support, technical assistance, backed by a dedicated factory service team, making them a trusted source of expertise for the global industrial market. Visit MustangAE.com for more information. Follow them on Facebook, Twitter, LinkedIn, and Instagram

