

MARIWARD GOVERNOR TEST STAND



**HMM50-AB
STANDARD**



**HMM50-A
ECONOMIC**



UG-8D GOVERNOR



UG-10L GOVERNOR



UG-40 GOVERNOR



3161 GOVERNOR



广州市海旭调速器有限公司

Mariward (Guangzhou) Governor Co., Ltd.

地址: 广州经济技术开发区东区宏远路

Add: Add: Hongyuan Road, Guangzhou Economic & Technological development District, China

手机(Mob): 1380 8898 997

电话(Tel): 020-8226 0998

E-mail: sales@mariward.com

Https://www.mariward.com

About us

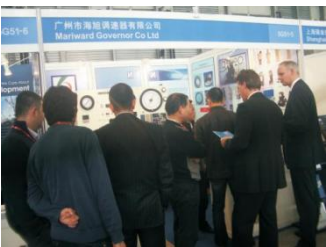
MARIWARD(Guangzhou) Governor Co.,Ltd. was established in 2005, is specialized in the R&D and manufacturing Governor Test Stands and related accessories.

The MARIWARD governor test bench is developed by our company's engineering team with over a decade of governor maintenance experience. Its excellent performance, compact structure and competitive price make it one of your ideal platforms for governor inspection, testing and adjustment.

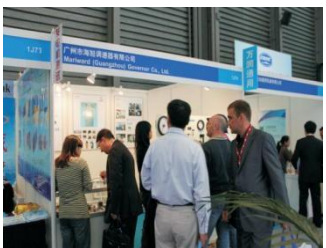
MARIWARD test stand HMM50 has been rigorously tested and endorsed by multiple governor repair facilities and technical experts. Its structural design, functionality, and performance metrics meet the advanced standards of comparable international products, while offering superior price competitiveness. Utilizing this product enables significant cost savings for domestic and international users, backed by our robust technical support.



Marintec China 2007



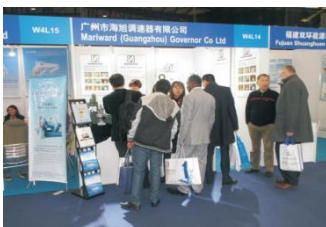
Marintec China 2009



Marintec China 2011



Marintec China 2013



Marintec China 2015



Marintec China 2017



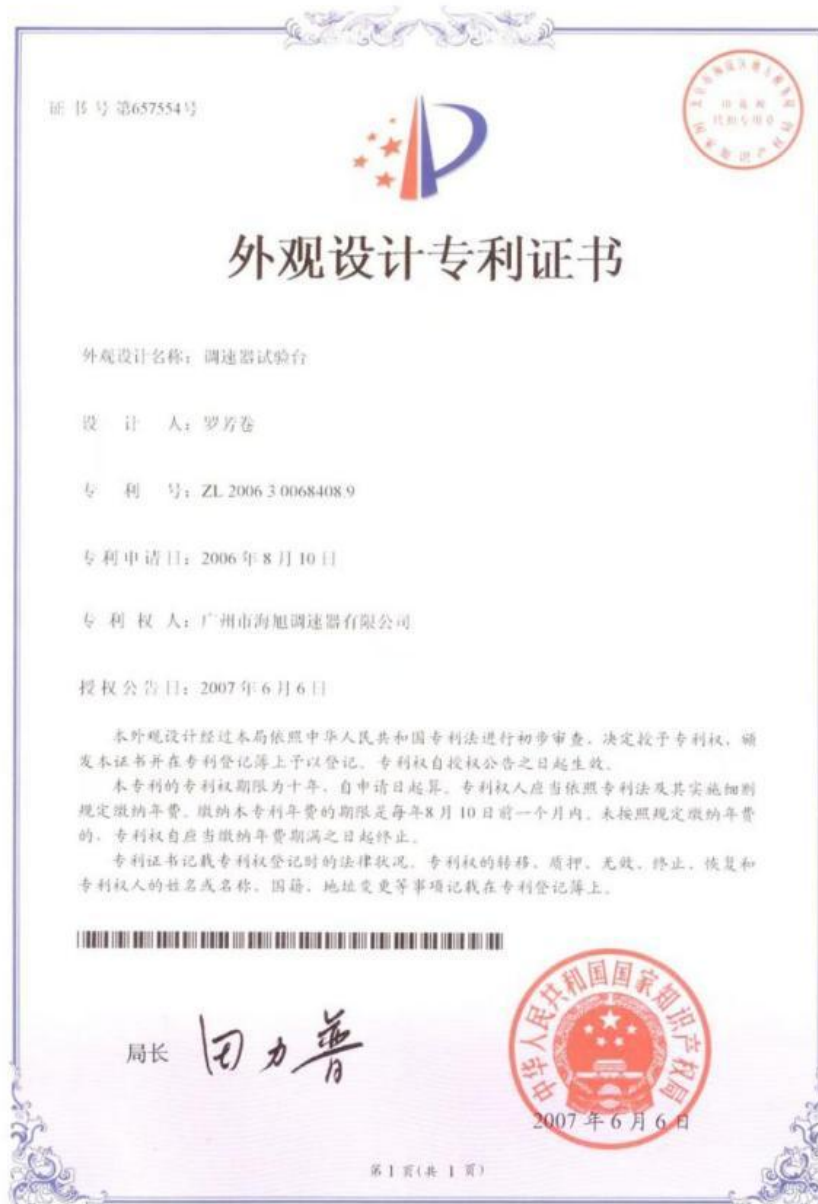
Marintec China 2019



Marintec China 2023

Introduce of MARIWARD Test stand HMM50 series

The MARIWARD Governor Test stand HMM50 finds extensive application and has become the preferred commissioning and testing equipment for shipyards, diesel engine manufacturers, governor OEMs, specialized repair centers, and petrochemical enterprises.



Patent No.: CN3654338

The MARIWARD Governor Test stand is a governor testing device designed for convenient performance evaluation and precise parameter calibration of governors, independent of their prime movers (e.g., engines or turbines).

Models HMM50-AB & HMM50-A enable the testing and adjustment of various international hydraulic governors, including:

WOODWARD: SG, PSG, UG8D, UG8L, UG10D, UG10L, UG15, UG40, PGA12, PGA58, PGA70, PGA200-500, PGG 200-500, PGD12-29, PG-LTG10-17;

ZEXEL: RHD6-MC, RHD6-PC, RHD10-MC, RHD10-PC, RHD35;

REGULATEURS EUROPA: 1100, 1500, 2100;

YANMAR: NZ61, etc.

Expanded Capabilities with UEG Tester:



Building upon the HMM50-AB/HMM50-A base unit, the addition of the UEG Tester allows for the adjustment of actuators, such as:

WOODWARD: EG3, PEG6, PEG10, PUG-ACTUATOR, UG40-ACTUATOR, PG-EG, PGA-EG, PGG-EG, EGB-P;

REGULATEURS EUROPA: 2221, 2231, 2800, etc.

MARIWARD GOVERNOR TEST STAND: HMM50-AB (STANDARD) & HMM50-A (ECONOMIC)

Distinctive Feature

 <p>HMM50-AB standard</p>	 <p>HMM50-A economic</p>
<p>This standard model features predominantly imported components for enhanced performance and reliability. Key specifications include:</p> <p>Pressure Gauges: Two imported US-manufactured pressure</p>	<p>Economy Version: Utilizes domestic parts exclusively.</p> <p>Pressure Gauges: Equipped with two domestic precision pressure gauges (ø150mm dial diameter).</p>

gauges (ø272mm dial diameter).

Oil Pressure Gauges: Two imported oil pressure gauges.

Pressure Regulating Valves: Three pressure regulating valves.

Manifold Valve: One 5-port selector valve.

Control System: Siemens Imported controller.

Drive Motor: Imported motor (Note: Specify lifespan/low maintenance features if key).

Key Features & Component Highlights:

Premium Build: Designed for aesthetics, durability, and minimal maintenance requirements.

Control System: Features Siemens controllers (Germany).

Drive Motor: Engineered for extended lifespan and minimal maintenance.

Pneumatic Valves: Equipped with FAIRCHILD (USA) pressure regulating valves.

Pressure Instrumentation: Utilizes high-precision HEISE and ASHCROFT (USA) gauges for both air and oil systems.

Superior Accuracy:

High-precision air pressure gauges feature a resolution of **0.1 PSI** and a reading accuracy of **±0.1%**.

Large ø272mm dial with a 720-degree needle sweep for exceptional readability.

Fine-scale range **0-100 PSI (7 kg/cm²)**.

Performance: This instrumentation meets the stringent accuracy demands for calibrating governors like the PGA series and UG8L series.

Note: The incorporation of two large-format ø272mm precision gauges contributes significantly to the unit's overall price point.

The MARIWARD governor test bench utilizes variable frequency drive (VFD) technology and digital-analog control technology. It can simulate the operating conditions of a diesel engine, providing a test environment for governors that closely approximates actual engine operating conditions.

This test bench model is designed with two power drive options: **3HP** and **5HP**.

The **3HP** test bench is suitable for testing the following governor models:

WOODWARD: SG, PSG, UG8, UG40, 3161, PGA, PG-PL

ZEXEL: RHD6, RHD10, RHD35

REGULATEURS EUROPA: 1100, 1500, 1800

Domestic Models: YT111, YT55, etc.

The **5HP** test bench meets the testing requirements for all the models listed above and is also suitable for testing larger governors, including:

WOODWARD: PGA-200, PGA-300, PGA-500

Other large governor models.

Key System Components:

Drive System: Utilizes an imported VFD motor as the prime mover.

Control System: Primarily consists of a PLC, VFD, digital displacement sensors, various potentiometer, and switches.

Pneumatic System: Mainly comprises two high-precision pressure gauges and precision pressure regulating valves.

Hydraulic System: Consists of an oil pump and pressure regulating valves.

Heating System: Primarily includes a heater and temperature controller.

Testing Capabilities: The test bench can be programmed to set various signals such as speed and pressure, along with configurable variable parameters required for governor testing, to fulfill specific test requirements.

MARIWARD Governor Test Stand Key Technical Specifications

- Model: HMM50-AB
- Voltage: 380V/440V, 50Hz/60Hz
- Output Power: 5 HP
- Test Speed Range: 0–2300 RPM
- Speed Accuracy: ± 1 RPM
- Gearbox Speed: 0–6000 RPM
- Air Pressure: 0–100 PSI (Accuracy: 0.1 PSI)
- Oil Pressure: 0–600 PSI (Accuracy: 1 PSI)
- Oil Temperature: 0–100°C (Accuracy: $\pm 1^\circ\text{C}$)

Key Performance and Functions of MARIWARD Governor Test Stand

The Governor test stand supports dynamic parameter configuration for speed, pressure, shutdown protection signals, and other critical governor testing requirements. It enables comprehensive testing, including:

- ✓ Run-in Test: Conducted at speeds specified in the governor's Technical Service Procedure (TSP).
- ✓ Pneumatic/AC/DC Motor Speed Setting: Calibration trials for pneumatic and motor-driven speed adjustment systems.
- ✓ Speed Range Calibration: Configures maximum and minimum speed limits tailored to specific governor models.
- ✓ Static Performance Test: Simulates diesel engine no-load conditions to measure static fluctuation rate and droop.
- ✓ Step Speed Change Test: Tests sudden speed increases/decreases, recording transient response and stabilization time.
- ✓ Load Variation Test: Simulates abrupt load application/rejection on diesel engines, evaluating speed deviation and recovery time.
- ✓ Droop Adjustment: Sets governor droop during simulated load-change scenarios.
- ✓ Oil Pressure/Temperature Monitoring: Real-time measurement and display of operating oil pressure and temperature.

Professional Governor Repair Services

Leveraging years of specialized experience in governor repair, our company offers comprehensive solutions, including:

Spare Parts Supply: Guaranteed availability of genuine components.

Long-Term Technical Support: Ongoing expert guidance for maintenance and troubleshooting.

Technical Documentation:

- ✓ Foundational governor repair theory and procedures.
- ✓ Original manufacturer manuals for various governor models.
- ✓ Sample repair reports for reference.



EGB-29P



3161



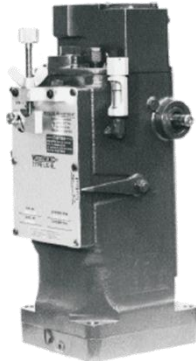
UG-ACTUATOR



UG40-ACTUATOR



UG-25+



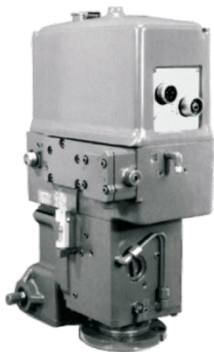
UG-10



UG-MAS



UG8



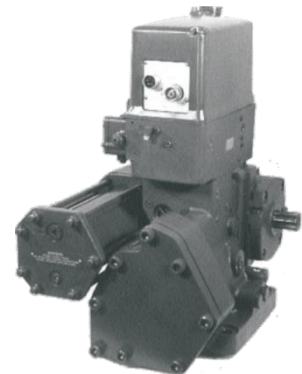
PGA



PGA



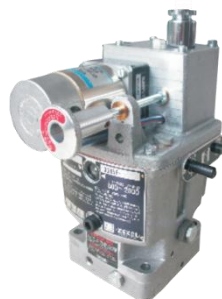
PGA200-300



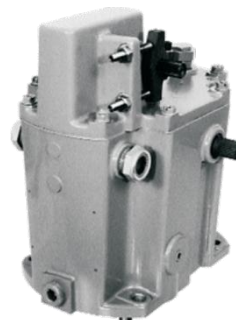
PGA-500



1102



RHD6-MC



TG



PSG



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