

## Transmission End of Line Test LAB Test Bench (Endurance / Functionality)



## Short introduction

H-Reilhofer, headquartered in Shanghai China, was founded in 2014 as a joint venture between Reilhofer and W-lbeda to build economical and high quality end of line - and laboratory benches for E-DRIVE and transmission applications. Despite its recent existence, through the consistent integration of European branded products and their own high quality requirements H-RHF has succeeded in establishing itself successfully and with a very good reputation at national and international customers on the Chinese market. So, now the time has come to open up further markets.

In order to facilitate European customers' access to products with local project planning and service, we have decided that for H-RHF product applications in Europe Reilhofer KG is the local branch and main contractor. That means that Reilhofer KG takes over the full responsibility for payment, warranties as well as project planning and after sales service.

This gives us the opportunity to offer our customers internationally proofed high-quality but cost efficient products including the well-known, uncomplicated and fast service of Reilhofer KG.



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### Advantages:

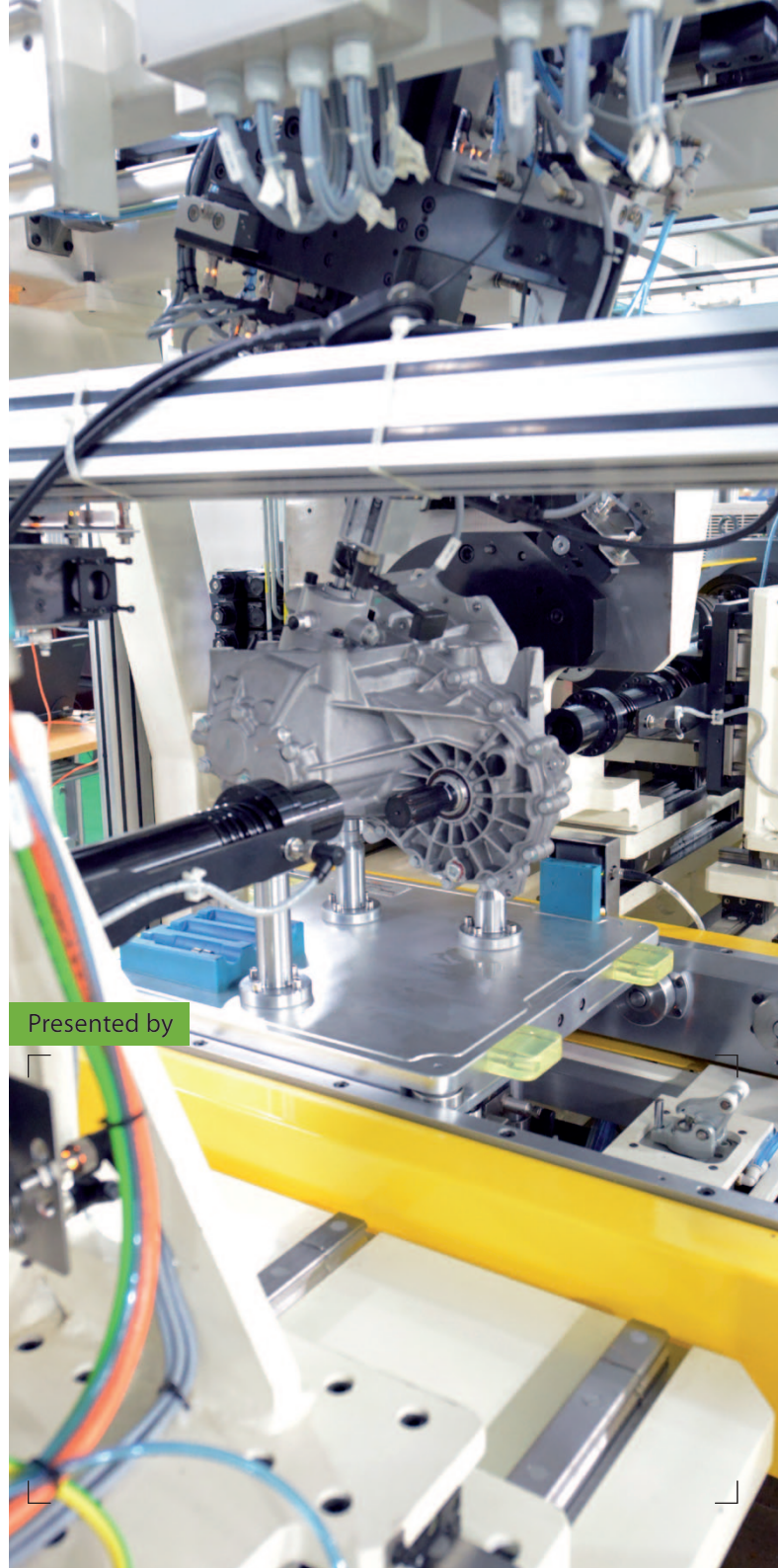
- Economical
- Service directly from Germany
- Award winning NVH system
- Rate brand quality from single source end of line and audit test benches
- Faulty component detection

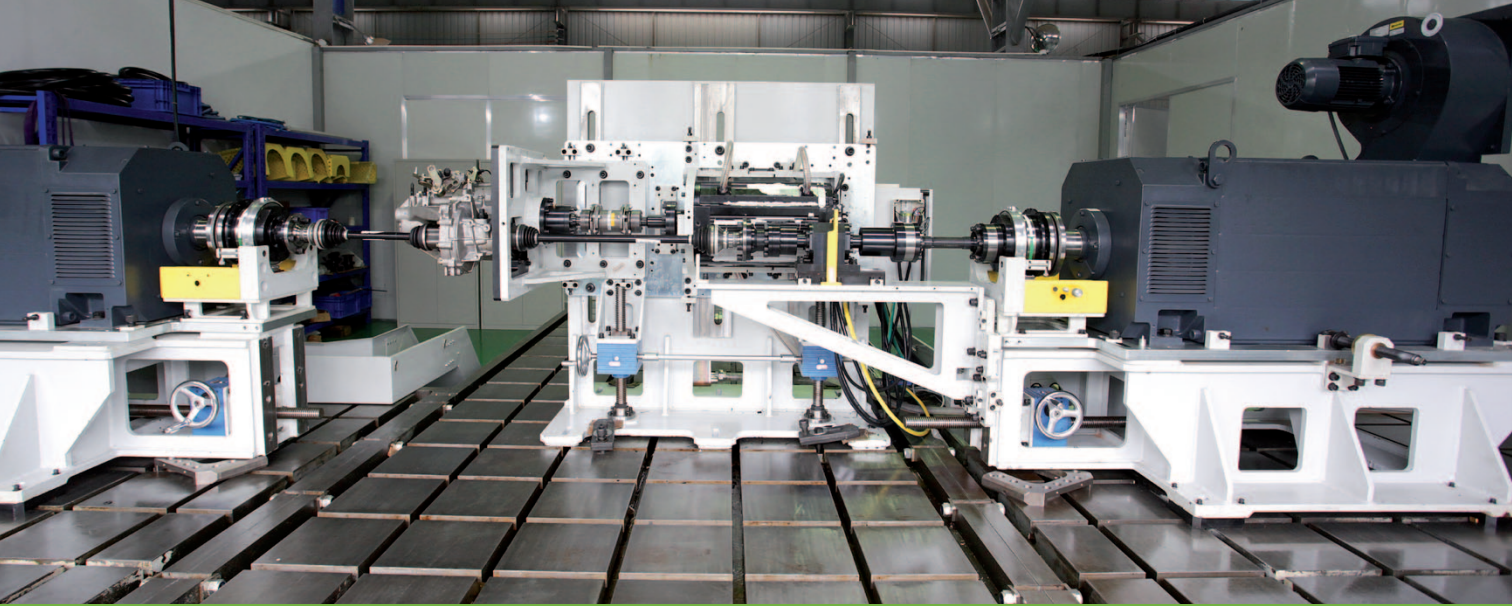
### End of Line Test Bench:

- Manual Transmission MT
- Automatic Transmission AT
- Double Clutch Transmission DCT
- Continuous Variable Transmission CVT
- Powertrain for Hybrid Electric Vehicle HEV
- Powertrain for Electric Vehicle EV

### Lab Test Bench:

- Function test bench
- Durability test bench
- Audit test bench





## Lab Test Bench Transmission

The lab test benches are applicable to different models of transmissions including MT, AT, CVT, DCT, HEV with performance calibration, endurance and problem identification of the repaired transmissions. Under the trend of the high flexibility development, our LAB test stands can achieve the target of integration of different transmission models and their various applications. With adjustable center distance (by automatic servo or operator) and modular-design butt -cover plate is the mechanical structure flexible.

### Lab Test Items

1. Gear shift test
2. Transmission electrical interface test
3. Transmission performance test
4. Transmission endurance test





## End of Line Test Bench

### MT Test Items

- Shift test
- Differential test
- Vibration noise evaluation for acceleration and deceleration (Optional NVH device)
- Electrical signal test (Reversing light, Toss and etc)

### AT Test Items

- Electrical signals test (CAN, TISS, TOSS and etc.)
- Shift handle test
- Leaking test
- Clutch function test
- Stall test
- Pump function test
- Vibration noise evaluation for acceleration and deceleration ( Optional NVH device)
- Parking test
- Gear ratio test

### DCT Test Items

- CAN Communication Test
- Shift handle test
- Control solenoid valve test
- Clutch pressure test
- Shift fork position learning
- Clutch combination test
- Transmission electrical signals test (speed sensors)
- Vibration noise evaluation for acceleration and deceleration (Optional NVH device)
- Differential test
- Parking test
- Drag-and-drop test
- Gear engagement test

### CVT Test Items

- Electrical signals test (CAN, TISS, TOSS and etc.)
- Shift handle test
- Leaking test
- Hydraulic torque converter check
- Stall test
- Pump function test
- Vibration noise evaluation for acceleration and deceleration (Optional NVH device)
- Parking test
- Gear ratio test

### H(EV) Test Items

- CAN Communication Test
- Electrical signals test
- Motor function test( temperature increase test, rotating efficiency test, reverse rotating test ,high-speed rotation test and etc).
- Vibration noise evaluation for motor and its responding decelerator mechanism (Optional NVH device)
- Parking test for decelerator



# 霍塔浩福自动化测试技术

H-REILHOFER AUTOMATION TEST TECHNOLOGY

# Hrhf

## References (extract)







## EOL Test Bench (AT/MT/DCT/CVT/HEV)

H-RHF transmission test bench is compatible with various assembly lines to enable fully automatic production.



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