

## RDTBT Series Transformer Test Bench

The RDTBT series transformer comprehensive test bench is mainly used to test power and distribution transformers' no-load and load characteristics. It can also conduct frequency-doubling induction and



power frequency withstand voltage and frequency-doubling tests on the tested transformers. The measurement part of the device is composed of High-end single-chip microcomputer control, digital display, no-load, short-circuit, and other test data that are synchronously sampled by the single-chip microcomputer, avoiding errors caused by separate readings of voltage, ammeter, and power meter and manual calculation in traditional test methods.



### Product Features

1. The instrument adopts a large-screen backlit LCD with clear and intuitive operation and display classification, making it easy to operate.
2. This test bench can be used to complete the DC resistance test, transformation ratio group test, no-load loss test, load loss test, AC withstand voltage test of power transformers with voltage levels of 10kV, 35kV, 110kV, and 220kV, and capacity of 10kVA10000kVA, induction withstand voltage test, and other tests.
3. Direct reading of voltage and current digital display or pointer meter, printout of loss, transformation ratio, and direct resistance test results
4. The slow rise and drop function facilitates accurate pressure rise and fall.
5. It can sound a light alarm to remind the tester.
6. Convenient operation process instructions and operation control buttons.
7. Adopt display and operation classification design with a good viewing angle.
8. The gear position of the low-voltage transformer can be flexibly switched on the platform body.

9. Each test loop can be flexibly switched on the platform.
10. To ensure the safe operation of the equipment, the test system is equipped with six types of protection: input protection, output protection, measurement protection, test product protection, voltage regulator zero protection, and interlock protection.



### **Available Test items**

1. Transformer no-load current percentage test
2. Transformer no-load loss test
3. Transformer impedance voltage percentage test
4. Transformer load loss test
5. Transformer power frequency withstand voltage test
6. Transformer induction withstand voltage test
7. Transformer DC resistance test
8. Transformer turn ratio and group test



### **Product specifications and technical parameters**

1. Voltage:  
Measuring range 1V ~ 500V, Accuracy: 0.1
2. Current:  
Measuring range 100mA ~ 5A, Accuracy: 0.1
3. Power:  $U \cdot I$ , Accuracy: 0.2
4. Working frequency: 50Hz
5. Power factor: 0.050 ~ 0.999, Accuracy: 0.2
6. Frequency: 45 ~ 65Hz, Accuracy 0.1
7. Test voltage:  $U_{ab}$ ,  $U_{bc}$ ,  $U_{ac}$
8. Test current:  $I_a$ ,  $I_b$ ,  $I_c$
9. No-load current  $I_o\%$
10. No-load loss  $P_o$ , load loss  $P_k$
11. Impedance voltage  $U_K$ , power factor PF
12. Three-phase voltage average  $U$ , three-phase current average  $I$



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## Rui Du Mechanical and Electrical (Shanghai) Co., Ltd



**TEL:** +86-021-68769756

**Contact:** Nico Zhou

**Position:** Sales Manager

**Email:** [sales@hvtesters.com](mailto:sales@hvtesters.com)

**Website:** [www.hvtesters.com](http://www.hvtesters.com)

**Mob/ WhatsApp:**

+86-136 6190 8522