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# HRT-A02C High frequency reciprocating abrasion testing machine specification

## One.Product Description

Hengxu testing machine is a professional R & D, production and sales of high-tech enterprises, The company took the lead through the "ISO9001 quality management system certification" and access to "national authority testing standard products" and "national quality service AAA level enterprise" title, the company has independent property rights software HTMS control system, a number of national patent products. The company gathered the top mechanics of materials testing machine, professional tribology testing technical program, distinguished engineers and laboratory testing equipment analysts to provide lasting power for the company.

HRT-A02C high frequency reciprocating abrasion testing machine is a kind of high frequency reciprocating abrasion testing machine according to SH / T0765-2005 "Diesel lubricity evaluation method (high frequency reciprocating testing machine method)," ISO12156-1: 1997, MOD standard method, and can meet the test requirements for evaluating diesel lubricity. The friction pair adopts standard ball friction form, and the equipment has the advantages of stable and reliable reciprocating stroke adjustment, wide adjustment range, high friction measurement accuracy, and various test forms. This machine testing machine adopts computer detection and control, and the special friction and abrasion testing machine measurement and control software developed by Heng Xu based on high-speed industrial control can draw the parameter curve in real time. The point acquisition frequency can be as high as 100KHZ, so as to effectively realize the dynamic and effective detection of the process, and improve the measurement accuracy of the friction force, test force and other parameters. The software is provided with shutdown or alarm protection when the parameters exceed preset. Instrument design is exquisite, easy to install and debug, software interface clear humanized, easy to operate.



Reference picture of product appearance

## Two、 Specification Data and Configurations

Specification Data	Configurations
<p>1.Reciprocating frequency: 100Hz</p> <p>2.Reciprocating stroke: 1 μ m-2.5mm electromagnetic, precision 0.001 mm</p> <p>3.Maximum load: 50 N</p> <p>4.Relative error of experimental force: ±0.5%</p> <p>5.Voltage power measurement: ≤500 N</p> <p>8.Temperature measurement: 200℃, accuracy ± 2℃</p> <p>9.Mold mark observation: high-definition electronic observation system shows the morphology of the wear mark, size, resolution 0.001 mm</p> <p>10. Data processing: standard computer processing system</p>	<p>1. Testing machine host: 1 set;</p> <p>2. Reciprocating module: 1 set;</p> <p>3. Force sensor: 1 set;</p> <p>4. Friction fixture: 1 set;</p> <p>5. Mold spot measurement system: 1 set;</p> <p>6. Constant temperature and humidity chamber: 1 set;</p> <p>7.Special control system: 1 set; (Including high-end Advantech industrial control computer, acquisition board module and software)</p> <p>8.Special tools: 1 set; (Including calibration weights and assistive devices)</p>



<p>11. The use of atmosphere:          ambient temperature: 5 ~ 35°C,          ambient humidity: 20% -80%</p> <p>Note: The above parameters are for reference only because of the special use of friction and wear equipment.</p>	
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**Three. Working conditions of testing machine:**

Parameter	value
Oil sample volume/ml	2.0±0.2
Stroke/mm	1.0±0.02
Frequency/Hz	50±1
Temperature and humidity of test environment	standard
Liquid temperature /°C	60±2
Applied load/g	200±1
Test time/min	75±0.1
Surface area of oil tank/mm <sup>2</sup>	600±100

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