



## FHC-03 High speed current carrying friction and abrasion testing machine specification

### One.Product Description

The high speed current carrying friction and abrasion testing machine is mainly used to study the friction and abrasion performance of the current carrying device of locomotives or similar devices in the high speed movement.



Reference picture of product appearance

### Two、 Specification Data and Configurations

Specification Data
1. Constant load max: 300 N
2. Test force loading accuracy : $\pm 1\%$ FS
3. Dynamic alternating loading: sine wave, triangle wave, gradient wave
4. Dynamic load maximum frequency: 30Hz



5. Spindle speed :200-12000 rpm stepless speed regulation
6. Measure the maximum value of frictional torque: 30N.m
7. Pin specimen diameter: customized according to the specimen
8. Disc specimen maximum diameter: 200 mm
9. Contact Form: Pin-Disc
10. Wear measurement range: 0 to 10 mm
11. Wear measurement accuracy:  $\pm 1\%$
12. Current-carrying range: 0 ~ 400 or 800A (reserved Current-carrying interface)
13. Loading mode: Separated constant load and dynamic loading device (multiple waveform loading modes are set according to scientific research evaluation requirements)
14. Control mode :Computer real-time data control
15. Host power: 15KW

### **Three. Functions and features:**

The machine is a precision electromechanical integration instrument, mainly through the high-speed motor to provide power source, through the bearing and variable speed system to achieve ultra-high speed, while in order to improve equipment accuracy, prolong equipment life, the use of dynamic circulation lubrication heat dissipation device. The loading part of the testing machine has two kinds of mechanisms designed mainly to achieve different load forms, which can carry out constant load loading tests or work under alternating load conditions, and the dynamic alternating frequency is adjustable. The contact form is pin type; It can display and record the test data of loading force, friction force, friction coefficient, speed and time in real time. The equipment has high precision and long life.

### **Four. After-sales quality service.**

After the formal acceptance of the equipment, the equipment shall be regarded as a formal delivery. The warranty of the equipment is eighteen months from the date of formal delivery. During the warranty, the supplier timely and free repair service for all kinds of malfunctions of the



equipment, and timely and free replacement of all kinds of parts caused by non-human. If the equipment exceeds the warranty period, it will fail during the operation. The supplier will serve the ordering party in time, and assist the ordering party to complete the maintenance task.

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