



MFS-03 Abrasive wear erosion-corrosion test machine specification

One.Product Description

MFS abrasive wear erosion corrosion testing machine, its main purpose is used to measure metal or non-metal in acid solution, alkaline solution, mortar and other environment resistance to high-speed erosion and corrosion resistance. It is a necessary simulation evaluation testing machine for exploration, drilling materials, pipeline transportation, valve manufacturing and other material supply industries. This machine is a new product jointly developed by our company and universities and applied to scientific research laboratories. Its uniqueness and advancement are in a leading position in China.

At a certain speed, the machine has four scouring angles of 0, 30, 45, 90, and the medium solution can be no more than 20% mud or mortar, and the pH value of the solution can be between 3 and 12. It can be used to evaluate the erosion resistance of metals, plastics, coatings, rubber, ceramics and other materials in the environment of acid and alkali solution under extremely low or high speed conditions. The MFS abrasive wear erosion-corrosion testing machine has a broad application prospect in various professional technical fields of tribology, petrochemical industry, machinery, energy sources, metallurgy, aerospace, colleges and universities, research institutes and other departments.



Reference picture of product appearance



Two、 Specification Data and Configurations

Specification Data

1. Sample form: sheet sample 20 * 30mm
2. Spindle rotation direction: clockwise
3. Spindle maximum speed: 2000 rpm (\pm 2rpm)
4. The maximum line speed: 30 m / s
5. Data reproducibility: dispersion \leq 5%
6. Control mode: industrial computer, industrial touch screen control, according to the need to set operating parameters (linear speed, revolutions, time, etc.)
7. Flushing time control: 10-120 hours
8. Temperature measurement function: K-type sensor measurement upper limit 1200C
9. Scour Angle: 0° ,30° , 45° ,90 °
10. Erosion environment: sea water erosion (sediment or slurry concentration 20%)
11. Medium: oil, water, sediment, etc.
12. Power: 5KW
13. Host power supply: AC 380 V 10KV/A
14. Size (L×W×H): 750×400×1600 (mm)

Three. Working conditions of testing machine

First, space requirements: ordinary solid flat experimental table, the whole set of land < 1 m²;

Second, environmental requirements: room temperature 10°C-35°C, relative humidity of not more than 80%, no vibration around, no corrosive medium and no strong magnetic field interference environment;

Third, power requirements: 380V, 16A, the voltage fluctuation range should not exceed 10% of the frontal and fixed voltage, the frequency fluctuation range should not exceed 2% of the rated frequency.



Four.The interface of the control system is as follows.



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