

Automatic Fusion Machine for X-Ray Fluorescence

The automatic fusion machine is designed for melting sample testing. It is suitable for use in steel, metallurgy, ceramics, and refractories industries.



Overview

High-Efficiency Automatic Fusion Machine

This automatic fusion machine is specifically engineered for X-ray fluorescence analysis, serving essential roles in industries such as metallurgy, chemical processing, cement production, and geology. It features a fully automated workflow, including robotic sample handling and simultaneous processing of four samples, ensuring high reproducibility and consistent melting effects. With an intelligent operating system and advanced dual-layer hardware/software protection, it provides a safe, reliable, and energy-efficient solution for demanding laboratory environments.

Technical Specifications

Rated Temperature	1100 °C
Average Heating Rate	30 °C/min
Temperature Accuracy (Insulation)	1 °C

Operational Metrics

Sample Fusing Capacity	4
Swing Angle	± 40° (adjustable)
Beat Frequency	1Hz (adjustable)

Electrical Requirements

Power Specifications

7.5 kW Rated Power	35 A Current Rating	220 V Rated Voltage	50 Hz Rated Frequency
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Physical Dimensions

Equipment Dimensions

Component	Dimensions (L x W x H)
Host	730mm x 600mm x 650mm
Controller	620mm x 420mm x 250mm
Total Weight	150 Kg

Key Features

Automation & Safety

- Touch-screen display control
- Robotic mechanical hand for sample handling
- Automatic casting furnace
- Intelligent operating system with one-button operation
- Hardware and software dual protection
- Over-temperature and burnout protection

Applications

Suitable Industries

Steel, Metallurgy, Chemical, Geological, Cement, Ceramics, Refractories