POWTEQ®

Automatic Fusion Machine
Auto-F40

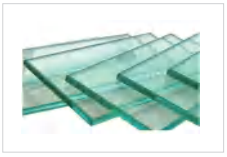
◇ Automatic Fusion Machine Auto-F40

Automatic Fusion Machine Auto-F40 adopts glass flux sheet method to prepare a fused glass sheet for samples such as cement, lime, catalyst, mining and geological materials, refractory materials, glass, dioxygen, powders of silicon, bauxite, alumina, etc. Glass sheets are mainly used for X-ray fluorescence spectroscopy (XRF) analysis.

Auto-F40

○ Application samples

Steel, cement, ceramic, glass, inspection and quarantine, scientific research, mining exploration, non-ferrous metal, refractory industries.


○ Working Principle

Up to four samples can be placed in different crucible and mounted on the bracket of electric heating chamber. When the sample is completely melted, it will be poured into a pre-heated platinum mold. The melt sample will be quickly cooled by the fan, and finally solidify into a glass sheet with uniform interior and flat surface.

○ Features and advantages

○ Touch screen display and control.
○ Temperature control accuracy: +/-1℃
○ Crucible swing angle: Max ± 40 °
○ Heating mode and speed: silicon carbide heating, 35℃/min.
○ All process including Transition→heating→pouring→cooling can be completed by one click after parameter setting.

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○ Software and Communication

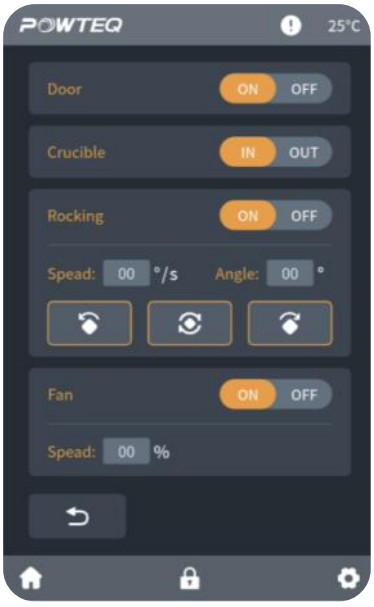
○ Data Interface: 1 USB port and 1 RJ45 port.

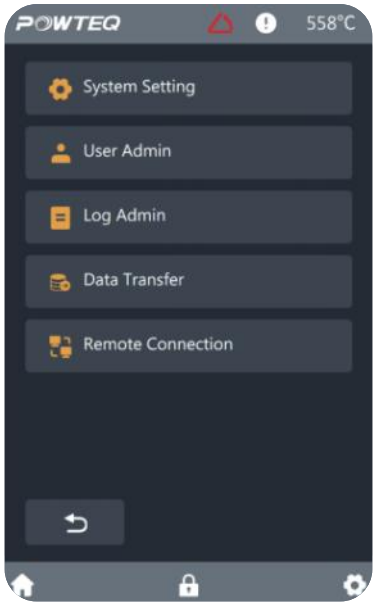
○ Operation data / fusion recipe can be downloaded and uploaded easily.

○ Running/operation/alarm logs can be recorded and exported conveniently.

○ Remote troubleshooting .

○ Data report in table and curve available.





○ Technical Parameter

Auto-F40			
Number of stations	4	Power supply	1PH, 220VAC,50/60Hz
Sample number	4	Power	8KW
Operating temperature	Room temperature -1250℃	Rated Current	35A
Temperature control accuracy	±1℃	Measurement(L*W*H)	1020 *650 *670mm
Temperature increasing rate	35℃/min	Weight	136kg