



XRF Press and Die Sets

Bench mounted electro-hydraulic press for preparing powder samples for XRF analysis



Description

Essa Australia manufacture a bench mounted, two piece, high pressure, electro-hydraulic actuated press for laboratory use in the preparation of pressed powder samples for x-ray fluorescence analysis.

It is made up as a press unit and a separate 240 volt, single phase, electro-hydraulic power pack. The press unit is designed for free standing on the customer's bench top with the separate power pack placed within a 3 metre hose length of the press unit. The most frequently used location for the power pack is the floor area beneath the press unit.

Designed with operator safety in mind

Downward movement of the hydraulic ram is initiated by two push buttons, one on each side of the base of the press unit. These have to be actuated in unison thereby requiring both hands of the operator to be occupied and out of harms way.

The unit then moves to "automatic" mode once the press has closed, allowing the unit to run unattended to complete its cycle automatically. The automatic cycle assures each sample is subjected to the same preset pressure for the same time span...giving optimum repeatability, automatically.

This adjustable 2 to 40 tonne model is also provided with a see-through polycarbonate safety door to the pressing area which is interlocked to prevent the press from operating while the door is open.

Specification Summary

- ▶ The Labtech Essa XRF-40T XRF powder press comprises a 40 tonne capacity hydraulic press powered by an electrically driven pump
- ▶ The pressure is preset to the required force by an adjustable pressure regulator and may be applied as a sustained force for a predetermined time via a dwell timer on the front panel
- ▶ High impact polycarbonate shields front and rear, protect personnel from debris released should a container fracture under pressure
- ▶ An electrical interlock on the front shield requires complete closure of the shield to enable the pump in the hydraulic power unit
- ▶ For the pump to start, the operator must simultaneously press both start buttons, located one each side of the base
- ▶ The press ram returns to its initial position when the pump stops
- ▶ The Model XRF-40T is bench mounted
- ▶ The hydraulic power pack is installed at floor level to facilitate the return of hydraulic fluid to the reservoir

Essa Australia also manufacture a range of die sets to suit most powder cups and planchettes



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