

XRF **PELLET PRESS**

The Vector XRF Pellet Press is a fully automatic hydraulic press engineered to produce high-quality pellet samples for XRF, IR, and other analytical techniques. With options for 8, 15, 25, and 40 T maximum load, this press offers flexibility for various applications, ensuring precision and reliability in every press cycle.



VTR-1027



Vector XRF Pellet Press

Accurate, Optimal and Fast Sample Preparation

Overview

Equipped with an intuitive touchscreen display, the Vector XRF Pellet Press simplifies operation and enhances the user experience. The high-contrast display makes viewing and editing program steps straightforward, allowing operators to easily adjust pressing parameters. With programmable load cycles, users can store up to 6 custom programs, each with up to 10 steps, controlling ramp rates, dwell time, and release rates for consistent and repeatable results.

The Vector XRF Pellet Press features a maintain load function, which continually tops up the load to keep it at the setpoint as the sample settles. This load can be maintained for a specific duration, ranging from 0.1 minutes to infinity, providing ultimate flexibility during the sample preparation process. The press is compatible with Specac pellet dies, heated platens, and a wide range of pressing tools, including pellet dies and film makers, making it an ideal solution for precise, repeatable compaction of powders and other materials.

With a maximum pressure of up to 400 kN, the press supports fast, medium, and slow load release rates, and the load can be held for pre-set durations or held indefinitely until commanded to halt. The machine's fully programmable system stores and replicates successful pressing conditions, streamlining the pelletizing process for high-volume laboratories.

The hardened steel components, manufactured from the highest-quality stainless steel, ensure durability and longevity in demanding laboratory environments. Pressing dies and hydraulic press die sets are available in diameters ranging from 5 mm to 40 mm, offering versatility for FTIR and XRF applications, such as KBr for FTIR and pellets for XRF analysis.



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Key Features

- **Customizable Load Cycles:** Store up to 6 programs, each with up to 10 steps to control pressing parameters.
- **Precision Pressure Control:** Adjustable pressure up to 400 kN with real-time adjustments on the touchscreen for superior control over sample preparation.
- **Maintain Load Function:** Continuously top up load as the sample settles, ensuring consistency in results for extended durations
- **Versatile Applications:** Compatible with pellet dies, heated platens, and other tools, making it suitable for a range of analytical techniques, including FTIR and XRF.
- **Durability:** Built from hardened stainless steel, with mirror-polished pressing surfaces for the highest quality pressed samples.
- **Versatile Pressing Die Sizes:** Available in diameters from 5 mm to 40 mm, covering a wide range of analytical needs.

Conclusion

The Vector XRF Pellet Press stands out as a high-quality, versatile, and user-friendly solution for laboratories requiring precise and efficient sample preparation. With customizable programs, advanced load control, and compatibility with a wide range of pressing tools, this press is ideal for laboratories focusing on XRF, IR, and other analytical techniques. Its durable construction, combined with advanced programmable features, ensures long-lasting, repeatable performance, making it an essential tool for professionals seeking precision and reliability.

TECHNICAL SPECIFICATION

Specification	Details
Max Pressure Options	8, 15, 25, 40 T (Tonnes)
Load Display	Tonnes, US (Short) Tons, Long Tons, kgF, kN
Load Maintenance	Maintain load function with a duration from 0.1 min to infinity
Programmable Load Cycles	Store up to 10 programs, with 10 steps per program
Pressure Range	Up to 400 kN
Pressing Cycle	Less than 2 minutes
Touchscreen Display	LED, high contrast, intuitive operation
Safety Features	Safety lock, automatic pump shut-off valve
Operating Voltage	220 V, 50 Hz
Material Compatibility	Compatible with pressing tools, pellet dies, heated platens
Pressing Die Diameters	5 mm to 40 mm, suitable for FTIR and XRF applications
Pressing Surface	Mirror-polished surfaces for high-quality pressed samples
Component Material	Hardened stainless steel for enhanced durability and precision
Size	770 x 550 x 1300 mm
Weight	300 kg

