

# 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

