XRD SoftPress

VP Technologies

HIGH-QUALITY XRD DATA

VP Technologies' XRD SoftPress offers quick and consistent XRD sample preparation. Our automated process drastically improves the accuracy of quantitative phase analysis, with unprecedented specimen preparation reproducibility.

A repeatable process

The XRD SoftPress accurately controls and standardises variables caused by human error, including sample packing reproducibility, tamping force, and dwell time. In doing so, it addresses various challenges common to manual XRD sample prep:

- We know specimen displacement is a common cause for errors in XRD patterns. It affects peak positions, making the identification of crystalline phases of unknown specimens difficult or impossible.
- Powder samples for XRD also require a soft and well-controlled packing force (unlike the high force needed for XRF).

The press is particularly suitable for corundum and iron ore samples, as research has confirmed that there is no observable difference in preferred orientation compared to traditional methods.

Ideal for busy labs

The XRD SoftPress is the result of collaboration with scientists at Curtin University, Western Australia. With a packing time of less than five seconds per sample, the press is significantly faster than the manual method.

The XRD SoftPress is a technological development improving the speed and quality of XRD sample prep – giving peace of mind to high-throughput laboratories.

Spring-loaded sample holder base

HIGH PERFORMANCE

- Very repeatable
- Back loading process, zero contamination
- Optimised tamping force and dwell time
- Very fast (typ. <5s per sample)
- Safe operation

EASY TO USE

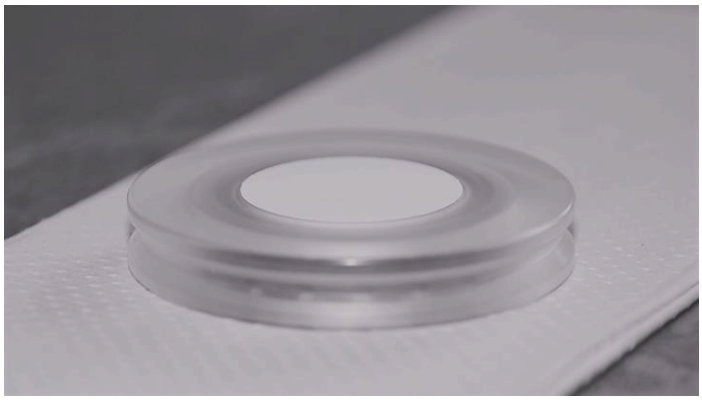
- Touch screen
- Parameters saving function
- Base compatible with all sample holder types

XRD SoftPress

VP Technologies

TECHNICAL SPECIFICATIONS

- 110 – 240VAC electrical supply
- 500kPa (5 bar) air supply min.
- Tamping force scale from 50 to 250N
- Dwell time range up to 30s
- 340 * 320 * 400 mm^3
- Estimated instrument weight <20kg



FIND OUT MORE

Contact us to discuss your requirements.

vp.technologies@outlook.com

+61 (0) 422 354 540

Vincent Pottier