



PNEUMATIC PRESS

DIFFRAC-PRESS

BRAND: SAX INSTRUMENTS
MODEL: DIFFRAC-PRESS



● **DIFFRAC-PRESS** is a pressure-controlled pneumatic press designed to assist in the preparation of polycrystalline samples for XRD and NIR analysis. This press ensures greater sample preparation standardization, providing constant material compaction and controlled surface roughness (to minimize the preferential orientation of crystals during measurement). These attributes ensure greater repeatability and reproducibility of the measurement process, resulting in accurate and consistent results.

DIFFRAC-PRESS not only optimizes sample preparation but is also an easy and safe solution for use by any operator (with basic training and the corresponding safety measures).

Main features:

- **Controlled pressure** for sample preparation with high repeatability and reproducibility.
- Generates a **textured sample surface** to control the effects of preferential orientation.
- **Easy to use**; with just three steps and minimal training.
- **Safe and reliable**; risk-free operation compliant with European safety standards.

APPLICATIONS:



FOOD



PHARMACY



MINING



CEMENT



PETROLEUM



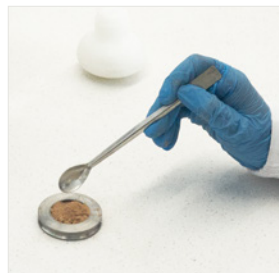
POLYMERS



R&D



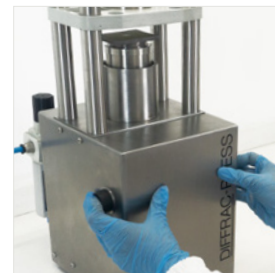
ENVIRONMENT

Operation in only three steps:
**1**

Place the capsule in the sample holder and pour the material.

**2**

Position the sample and the roughened plate in the press.

**3**

Operate the press by pressing with both hands.

Safe to use with two-hand control:

The equipment operation can only be performed by using both hands throughout the process to prevent the risk of crushing or snagging.

In addition, **DIFFRAC-PRESS**, complies with European ISO safety standards: *EN ISO 12100:2012*, *EN ISO 13849-1:2015*, *EN ISO 13849-2:2012*, *EN ISO 13851:2020*, *EN ISO 13854:2017*, *EN ISO 14120:2016*.


TECHNICAL SPECIFICATIONS:

Dimensions:	300 x 250 x 450 mm (Length x Width x Height)
Weight:	8 Kg
Force:	1000 - 3800 N (Equivalent to 100 - 300 Kg)
Compressed air supply:	50 l/min (5 Bar)
Electrical supply:	N/A
Construction materials:	Stainless steel and aluminum
Safety system:	Two-hand control
Temperature range:	5 - 50 °C
Humidity range:	30 - 90 %
Reusable steel ring:	∅ext = 51 mm / ∅int = 30 mm
Disposable aluminum capsule:	∅ext = 30 mm

