XRF Sample Preparation Pellet Press

Optimal pXRF samples at a lower cost

REFLEX PRESS

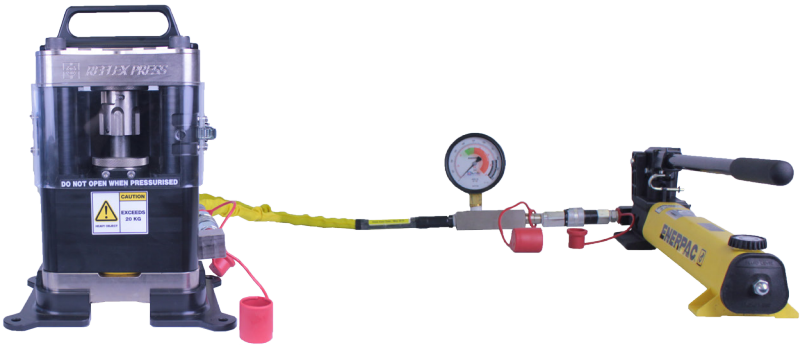
Better data, lower cost, increased productivity

Optimal pXRF sample analysis relies on a homogenous, densely packed and uncontaminated sample puck. The risks inherent in decisions made on unreliable sample data, are significant and may include the misrepresentation of traces of ore either present or missing.

There are a wide variety of techniques for sample preparation for XRF analysis and the use of XRF cups is common. However, these tend to be expensive, fiddly and time consuming, and very hard to control the sample quality (poor packing, uncompacted).

REFLEX has addressed these risks in the REFLEX PRESS. The innovative sample press is a high-pressure hydraulic press designed to produce a densely-packed, homogenous, sample puck that can be measured by the pXRF (and a range of non-destructive sensors) without the signal attenuation resulting from the use of a film coating and/or poor packing.

The REFLEX PRESS is safe and reliable, engineered and constructed using only high quality, fit for purpose, products. It is also rugged and portable, ideal for use in field camps and onsite laboratories.



Decreased cost of consumables

The REFLEX PRESS uses high pressure to convert powders to a coherent pressed puck without the need to use binders or costly containers. Removing the need to use sample cups equates to savings of up to $150 per day.

Increased Productivity

The custom designed die set and press provide a simplified process with fewer steps, allowing productivity to be increased, with consistency across all samples.

Accurate data

The denser, flatter and more uniform puck provides a more reliable surface from which to gain a quality analysis. With no film required between the pXRF analyser and sample, the risk of a weaker or poor signal is eliminated. The same puck can also be used with other non-destructive testing techniques such as spectral analysis and LIBS.

REFLEX PRESS

Improved Analytics

The REFLEX PRESS comes with a custom designed funnel and sample die to ensure the highest quality, consistent and repeatable, sample puck ensuring data confidence and improved analysis, especially for light elements.

Using the pressed puck and the REFLEX XRF, light elements such as Al have a consistently higher response (8-15%). This will flow through to descreased detection limits and better precision for light elements. The consistent workflow of the REFLEX PRESS will also reduce inter-sample variation resulting from poor packing of material and other inconsistencies, making data analysis more reliable.

Transportable

The REFLEX PRESS is light in weight compared to other commercial sample presses, being under 30kg. It can be safely transported in a robust and easy to pack, protective case.

In-field Geoanalysis

The REFLEX PRESS together with the REFLEX XRF Solution (which includes REFLEX XRF, REFLEXHUB-IQ and REFLEX ioGAS) provides the first on-site geoanalysis solution available in the market. This enables decisions to be made on-site, saving both time and money.

Standard or Premium Puck

The REFLEX PRESS is provided with two separate dies for the making the puck. The STANDARD puck is produced without a protective sleeve and is most useful for minimising costs when the sample will be discarded after analysis, or analysis is performed immediately after pressing. The PREMIUM puck is produced within a custom plastic sleeve that makes the sample very robust for longer term storage, potential re-assaying or archive, and reduces cleaning time after each sample. The plastic sleeves are sold in boxes of 500 and can be easily labelled for reference.

TECHNICAL SPECIFICATIONS

Weight	
Press	25Kg
Press with case	28.5Kg
Hydraulic Kit (including case)	19.8Kg
Maximum system pressure	5200 psi (35.8MPa)
Puck size	15mm high x 25mm diameter

Further information

For more information please go to our website www.reflexnow.com or contact your nearest REFLEX office.

www.reflexnow.com

REFLEX®
intelligence on demand

AUSTRALIA
Perth - Head Office
+61 8 9445 4020
Brisbane
+61 7 3723 3633

EUROPE
United Kingdom
+44 1273 405 975

AFRICA & MIDDLE EAST
United Arab Emirates
+971 4 449 6800
South Africa
+27 11 908 5595
Ghana
+233 544 305 033

NORTH AMERICA
Timmins, Canada
+1 705 235 2169
Vancouver, Canada
+1 604 681 6765
Mexico
+52 662 215 4317

SOUTH AMERICA
Brazil
+55 31 3317 1398
Chile
+56 2 2589 9300
Peru
+51 1 713 4525