



UNIQUE PRODUCTS FROM ONE SOURCE

**SAMPLE PREPARATION BY
PELLETIZING**

HYDRAULIC PRESSES

MANUAL HYDRAULIC PRESSES

A manually operated hand press designed for preparing powder samples for IR and X-Ray Fluorescence Analysis. It features an accurate pressure gauge, tough housing with polycarbonate safety door.

The xrPress MT25 pump also provides an improved hand pump system for an efficient and easy hand pumping.

Key Features

- Compact bench top design
- Polycarbonate safety guards
- Adjustable upper bolster
- Vacuum Ports
- Pressure release valve
- Secure fixation with rubber suction feet
- Optional digital pressure display for precise pressure applications (0.01 Ton increments)



Technical specifications	Manual xrPress
Maximum Load	25 Tons
MT25: Load Range (0.5 Ton increments)	2 – 25 Ton
MT25D: Load Range (0.01 Ton increments)	2 – 25 Ton
Upper Pressing Area (Top Screw Diameter)	45mm
Top Lead Screw Vertical travel	112mm
Lower Pressing area (Piston Diameter)	105mm
Piston Stroke	25mm
Max/Min Dist. between Pressing Faces	185mm – 73mm
Dimensions (WxPxH min./max.)	370x300x497/609mm
Weight	49kg

Ordering information

- **xrPRESS MT25**
Manual Hydraulic Press – 25 Ton
- **xrPRESS MT25D**
Manual Hydraulic Press with digital display – 25 Ton

Shipping dimensions

- **Dimensions:** 800mm(L) x 600mm(W) x 670mm(H)
- **Weight:** 85kg

HYDRAULIC PRESSES

MOTORIZED HYDRAULIC PRESS ET25

The xrPress ET25, is a power assisted hydraulic press operating to 25 Tons. The press has been designed to handle a wide variety of pressing applications, including XRF and IR sample preparation.

The pressure can be directly set at the manometer. A safety switch prevents pressing with an open door. An illuminated emergency pushdown button is also mounted at the front plate.

Pushing the green button starts the pressing process and it stops with reaching the predefined pressure. The blue button releases the pressure gently until the position is back in his normal position.

The xrPress ET25 is durable, easy to use and ideal for repetitive pressing operations at higher loads when used in conjunction with Lightweight Dies for x-ray fluorescence sample preparation.

Key Features

- Compact bench top design
- Polycarbonate safety guards
- Safety rated lid switch
- Adjustable upper bolster
- Large working distance between pressing surfaces
- Vacuum Ports
- Pressure release valve
- Secure fixation with rubber suction feet
- Low noise operation < 70 dBA



Technical specifications

Technical specifications	Manual xrPress
Maximum Load	25 Tons
Load Range (1.0 Ton increments)	2 – 25 Ton
Upper Pressing Area (Top Screw Diameter)	45mm
Top Lead Screw Vertical travel	112mm
Lower Pressing area (Piston Diameter)	105mm
Piston Stroke	25mm
Max/Min Dist. between Pressing Faces	185mm – 73mm
Dimensions (WxPxH min./max.)	370x300x497/609mm
Weight	63kg



Ordering information

- **xrPRESS ET25**
Motorized Hydraulic Press 25 Tons (230v, 50Hz)

Shipping dimensions

- **Dimensions:** 800mm(L) x 600mm(W) x 670mm(H)
- **Weight:** 85kg

PRESSING ACCESSORIES & ADDITIVES

EVACUABLE PELLET

Hardened stainless steel Evacuable Pellet Dies, used for compacting powdered samples into disks or briquettes. Simplified handling for the 13 ... 50mm: only the sliding part has to be removed. All of the dies are equipped with nitrile O-ring seals and an evacuation port to allow for the removal of moisture, if desired, during the pressing process.

Key Features

- Hardened Stainless Steel
- Highly polished pellets
- Unique simplified handling

Evacuable Pellet Die complete

Code Number	Dimensions (mm)
MA-E03-H	3mm evacuable pellet die; Max load 1.5 Tons
MA-E05-H	5mm evacuable pellet die; Max load 4.0 Tons
MA-E08-H	8mm evacuable pellet die; Max load 6.0 Tons
MA-E10	10mm evacuable pellet die complete; Stainless Steel, Max load 7.0 Tons
MA-E13	13mm evacuable pellet die complete; Stainless Steel, Max load 10.0 Tons
MA-E20	20mm evacuable pellet die complete; Stainless Steel, Max load 20.0 Tons
MA-E25	25mm evacuable pellet die complete; Stainless Steel, Max load 30.0 Tons
MA-E32	32mm evacuable pellet die (2.9kg); Max load 40.0 Tons – Lightweight dies
MA-E40	40mm evacuable pellet die (2.9kg); Max load 40.0 Tons – Lightweight dies
MA-E50	50mm evacuable pellet die; Max load 40.0 Tons

Evacuable Pellet Die XRF series

Code Number	Dimensions (mm)
MA-XRF40/32	Evacuable Pellet Die XRF Series for 40/32mm steel rings, Steel Rings 40x32x14mm
MA-XRF40/35	Evacuable Pellet Die XRF Series for 40/35mm steel rings, Steel Rings 40x35x14mm
MA-XRF51.5/35	Evacuable Pellet Die XRF Series for 51.5/35mm steel rings, Steel Rings 51.5x35x8.5mm



Unique simplified handling

Fill the Die Set, put the plunger on top and start pressing with your lab press. At the end of the pressing, instead of taking out and dismounting the Die Set, just simply pull out the bottom slider and with some smooth pressure, the pellet will be released.



Hardened stainless steel Evacuable Pellet Dies for pressing into steel rings for compacting powdered samples into press tablets. Used as backup tool for the automated system combining pulverizing mill and pellet press. Fitted to accept standard dimensions of steel rings.

PRESSING ACCESSORIES & ADDITIVES

ALUMINUM CUPS



SO-S40P Back side painted



SO-T40H

Code Number	Pellet	Description	Package
SO-T32	32mm	Tapered Aluminum cups 31.8x9mm	1000 pcs/box
SO-T40	40mm	Tapered Aluminum cups 39.5x9.5mm	500 pcs/box
SO-T40H	40mm	Tapered Aluminum cups 39.8x9.5mm New !	500 pcs/box
SO-S32	32mm	Straight Wall Aluminum painted cups 30x8mm	1000 pcs/box
SO-S40P	40mm	Straight Wall Aluminum painted cups 38.5x9.5mm	600 pcs/box
SO-S40HP	40mm	Straight Wall Aluminum painted cups 39.8x7.5mm	600 pcs/box
SO-S40H	40mm	Straight Wall Aluminum cups 39.8x7.5mm New !	500 pcs/box

STEEL RINGS

Code Number	Description
SO-STR-40/35	Steel Rings OD: 40mm, ID: 35mm, H: 14mm
SO-STR-40/32	Steel Rings OD: 40mm, ID: 32mm, H: 14mm
SO-STR-51.5/35	Steel Rings OD: 51.5mm, ID: 35mm, H: 8.7mm



FILLING TOOL

Press Pellet Filling Tool/Preparing Firm Backing with Boric acid or MIX55 for small quantity of sample.

Code Number	Description
SO-FL032	32mm filling tool
SO-FL040	40mm filling tool



PRESSING ACCESSORIES & ADDITIVES

BINDING & GRINDING ADDITIVES

Grinding & binding additives can be blended with sample at 5 – 25% by weight to improve binding properties and for some additives also an adequate grinding abrasiveness during grinding cycle.

- **xr-Tab** Mix55 tablets **New!**
- **xr-Tab** C20 tablets
- Licowax micropowder
- FreeBore powder

The **xr-Tab MIX55** made up of a mix cellulose/wax with excellent self-binding properties with adequate grinding abrasiveness. Recommended for the cement industry.



POWDER MIXER – VORTEX

This Powder Mix accessory is designed to mix and homogenize a powder sample with a binding additive prior to compression into pellets for XRF analysis.

Homogenizing, milling and mixing with aid of balls.

Code Number	Description
SO-PM01KIT	Powder Mixer – Vortex (35 W, 230V, 50HZ) Complete XRF Kit, incl. 100 Vials and Mixing Balls



MIXING VIALS & BALLS

The polystyrene vials are suitable to mix and homogenize a powder sample with a binding additive prior to compression into pellets for XRF analysis. Homogenizing, milling and mixing with aid of balls.

Code Number	Description
SO-PM03	Mixing vials (with snap caps) – 100 vials
SO-PM07	Mixing vials (with screw caps) – 100 vials
SO-PM06	Methyl methacrylate ball – 9mm; 100/bag



PRECUT PELLET FILM

Protective Die Pellet Film: Perfect method to protect surface of die pellets and to avoid cross contamination.

Code Number	Description
SO-PF32	Precut pellet film – 32mm; 500pcs/box
SO-PF40	Precut pellet film – 40mm; 500pcs/box



UNIQUE PRODUCTS FROM ONE SOURCE

ONGOING SUPPORT

The purchase of an XRF Scientific press is the beginning of a relationship where we provide access to a range of support and technical services to meet your sample preparation and analysis needs.

Whether you are new or an experienced user we have a range of services to increase the productivity and throughput of your application.

- Technical advice on difficult sample preparation and analysis issues
- On-site support and preventative maintenance programs
- Advice on appropriate selection of flux and standards
- Organization of platinum remake processes

Please see our website for details of our representatives in your area: www.xrfscientific.com

THE COMPLETE SOLUTION



Flux

We are the world's pre-eminent manufacturer of flux. We can provide standard borate fluxes or custom solutions to meet your specific needs.



Labware

We manufacture labware for all our fusion instruments in house. We can also provide a remake service for the transfer from other labware designs.



Fusion machines

We manufacture fully automated electric or gas operated fusion machines. Safe, easy and reliable to operate and suitable for various numbers of samples handled per day.

We reserve the right to change the design or specification of our products without notice. Some of the information contained in this brochure is general in nature and customers should check that it is applicable to their individual circumstances.



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