



## Colosseo®30 ton Automated Laboratory Press – Technical Description

**Power:** Automated, Pneumatic Motor Powered by Compressed Air 7 Bar

**Max Load On Ram:** 30 Ton

**Bleed Off Time:** Controlled by settable pressure bleed off valve

**Top Bolster Diameter:** 40 mm

**Top Lead Screw  
Vertical Travel:** 125 mm

**Daylight Opening:** 125 mm

**Distance Between  
Columns:** 127 mm

**Platen\* Diameter:** 110 mm

**Ram Stroke:** 50 mm

**Min/Max Distance Between  
Pressing Faces:** 0/125 mm

**Max Pressure On The Sample  
With a 32 mm Die Set:** 3735 Kg/cm<sup>2</sup>

**Safety Shield:** Front and Back

**Die Set:** 32 or 35 or 40mm

**Die Centering Discs:** 54,6 or 72,3 or 92,7mm  
(other diameters on request)

**Noise (Pellettizing):** <80 dB

**Foot Print  
At The Base:** 500 mm x 400 mm

**Weight:** 60 kg





## **Colosseon®30 ton automated Laboratory Press for XRF-Pellets preparation**

The **Colosseon®30 ton press** produced in Italy by XRF SERVICE is driven by compressed air which is available in most laboratories or which can be provided by an inexpensive air compressor.

It has a small floor cabinet of 400 mm x 500 mm with a high of 900 mm (15,8" x 19,8"x 35") which contains and protects the pneumatic motor, the hydraulic pump, the valve to set the pressure and the related tubes.

**No physical effort is required.** The operator put the die set with the sample on the press plate.

The press jacks up to 30 ton, or to the set pressure, in few seconds by simply depressing a start foot pedal. As soon as the operator releases the start foot pedal the force applied to the die set is maintained until the operator depresses the release foot lever.

The installation is simple by a quick connection of 8 mm compressed air tube on the back .

**Colosseon®30 ton lab press** is very robust and can be installed in production laboratory control as for example slag analysis in the steel industry or other heavy applications.

The **Colosseon®30 ton lab press** is ideal for the engineering companies because it is very reliable and do not require an electric supply. Furthermore all the spare parts of the pneumatic motor and hydraulic pump are available worldwide.

The press has a built in hydraulic pressure valve so that the user can set the maximum pressure on the sample. If for example it is necessary to apply 35 ton to the sample the valve can be adjusted so that depressing the foot lever the pressure will be limited to 35 ton without the need to look at the manometer.

Furthermore it is built in a metering valve to increase the depression time. This means that the time to pass from the maximum pressure applied to the sample to 0 can be adjusted by the operator. Once adjusted he does not need to set it again.