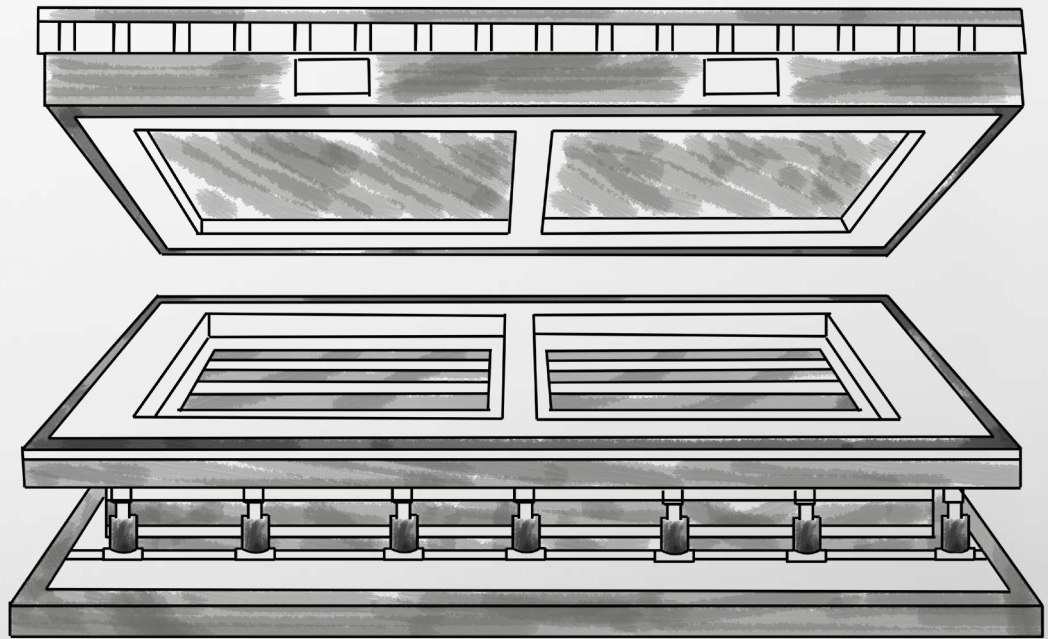




Hydraulic **Beyond Limits**



**CYLINDERS AND HYDRAULIC SOLUTIONS
FOR THE TILES INDUSTRY**

Ceramica Ties V.13

These hydraulic cylinders are compact and capable of operating at pressures of up to 250 bar / 3626 psi. They can be integrated into the lower base of the mould. They generally have strokes ranging from 10 mm to 130 mm.



TU - Plunger-type hydraulic cylinders for tile moulds lower matrix movement

These single-acting plunger-type hydraulic cylinders are used in pressing moulds in the tiles industry. We currently use two models: the first has a bore of 50 mm and a rod length of 36 mm, and the second has a bore of 70 mm and a rod length of 45 mm, both with strokes of up to 130 mm. They are made from high-strength steel and can be integrated into the machine body. They can operate at pressures of up to 80 bar / 1160 psi and are generally used in tile moulds to move the lower die.



TURM - Plunger-type hydraulic cylinders for tile moulds lower matrix movement with spring return

Spring-return hydraulic cylinders are used in tile moulds to move the lower die. Available in two models with bore sizes of 50 and 70 mm and strokes ranging from 65 to 240 mm, they can operate at pressures of up to 100 bar / 1450 psi and can be integrated directly into the machine structure. Compact and operating at up to 100 bar / 1450 psi, they can be integrated directly into the machine structure. They are essential in confined spaces.



TUSERM - Hydraulic cylinders for tile moulds with spring-return ejector or buffer movement



These double-acting hydraulic cylinders are used to eject the upper block in the moulds of press machines in the tiles industry; they are manufactured with diameters ranging from 45 mm to 80 mm and strokes from 13 mm to 60 mm. They are made from high-strength steel and are fitted into the mould

TU-SE - Telescopic hydraulic cylinders for tile moulds ejector pin or lower half-mould movement



These double-acting hydraulic cylinders are used to eject the upper block in the moulds of press machines in the tiles industry; they are manufactured with diameters ranging from 45 mm to 80 mm and strokes from 13 mm to 60 mm. They are made from high-strength steel and are fitted into the mould.

DETE - Double-acting hydraulic cylinders for tile moulds block ejector



These double-acting hydraulic cylinders are used in pressing moulds in the tiles industry to move the lower die via external rigid pipe connections.
Working pressure: 110 bar / 1595 psi
Bore: 50 mm
Stroke: 75 mm

DERM - Double-acting hydraulic cylinders for tile moulds with a moving lower die

These double-acting hydraulic cylinders are used in press moulds in the tiles industry to move the lower half of the mould.
Working pressure: 120 bar / 1740 psi.



TU-DE - Hydraulic cylinders for tile moulds double-action lower die movement

These double-acting hydraulic cylinders are used in pressing moulds in the tiles industry to move large-format moulds.
Working pressure: 120 bar / 1740 psi.



TU-DE - Hydraulic cylinders for tile moulds dual-action system for handling large-format swabs

These double-acting hydraulic cylinders are used in pressing moulds in the tiles industry to move the lower die via an internal hydraulic connection at the base of the mould.
Working pressure: 110 bar / 1591 psi
Bore: 50 mm
Strokes up to 65 mm



DERMAS - Double-acting hydraulic cylinders for tile moulds with a moving lower die



The automatic stability control system monitors the hydraulic pressure within the isostatic pads of the moulds. It restores the pressure to the set values should any minor leaks make this necessary. The system connects to the hydraulic connectors on the moulds, automatically checking maximum and minimum pressures. The system is equipped with visual and audible alarms; furthermore, an optional connection can interface it with the press, stopping its operation in the event of pressure anomalies.

Automatic Stability – automatic electro-hydraulic control system internal pressure within the isostatic presses placed the moulds



The manual pressure control system monitors the hydraulic pressure within the isostatic pads of the moulds. With operator intervention, it restores the set pressure values should any minor leaks make this necessary. The system connects to the hydraulic connectors on the moulds, checking the maximum and minimum pressures. The system is equipped with visual and audible alarms; furthermore, an optional connection can interface it with the press, stopping its operation in the event of incorrect pressures. There are two configurations with controls on the right or left, depending on the positioning of the press control panel.

Manual stability control – electro-hydraulic control system internal pressure within the plugs in the moulds



Guide bushings fitted in the upper block of the moulds. These thermally compensated bushings enable the movement of the upper block to be guided even in the event of expansion caused by rising temperatures.

Guide Bushings thermal compensation

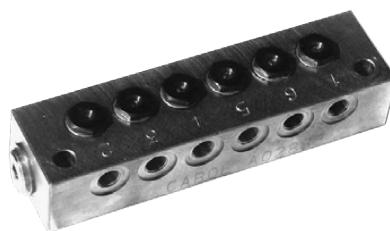
Adjustable rigid manifold for connecting all the isostatic pads in the mould, making installation easier than with flexible hoses. It ensures fewer points of micro-oil leaks and improves the response to hydraulic pressure.



Adjustable manifold

multi-output

Hydraulic manifold suitable for connecting various fittings for multiple applications.



Manifold

hydraulic

Manifolds for controlling the upper and lower dies in presses not fitted with this feature.



Moulds control manifold

mould control



Extractor has been designed to assist the operator during the removal of lower cores and mould halves, as well as the lifting of the lower mould half. Any type of power supply is available on request.

The return to position is controlled by the hydraulic power unit via a push-button panel or manual valve.

EXTRACTOR

Removal of the lower core/mould and lifting of the lower half of the moulds



The COK hydraulic power unit is designed with an energy-saving system for the testing of all moulds, including SMU moulds.

COK - Mould testing unit
for the testing of standard and SMU moulds



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