Vulcanizing water-bag press
Modular presses manufactured for your use
SOLUTIONS FOR HEAVY AND LIGHT-DUTY BELTS, MANUFACTURER OF TECHNICAL BELTS, TOOLS, VULCANIZING PRESSES
Advantages:

- Light alloy in high quality shielding aluminium
- Totaly modular
- Fast vulcanizing and cooling
- Shielded heating resistors embedded in the core of the heating plates allowing a fast and homogeneous rise in temperature, and reliable heating data.
- Temperature up to 150°C (302°F) reached in 20 min
- Composed of units with sizes 350 or 525 mm (13\(\frac{25}{32}\) inch) or 20\(\frac{43}{64}\) inch) in aluminium, allowing a lower weight
- Pressure perfectly homogeneous until 14 bars (199 PSI), thanks our water-bags specially developed and manufactured in our factory in France

Application fields:

- Mines
- Cement
- Quarries
- Heavy industry
- And more...

One modular solution of vulcanizing!

MLT is a press manufactured since 1986 and followed the technological evolutions of all these decades to propose, today, a solution adapted to your professional requirements. Conscious about your needs, MLT teams offer the conception of your modular vulcanizing presses.

Your problem

- Vulcanizing and cooling too slow
- Material too heavy
- Non-homogeneous pressure

Our solution

2 sizes of modules of 350 mm (13\(\frac{25}{32}\) inch) and 525 mm (20\(\frac{43}{64}\) inch) allow to make multiple combinations, giving you one solution adapted to your need. Vulcanizing presses manufactured by MLT are totally modular.

We give great importance to quality of every element, made in France, in order to optimize the sustainability of your investment. We reinforce this by providing an after-sales service that meets your expectations, all components of the press is available in detached pieces, allowing replacement to one isolated element without changing other sections of the press.

Our vulcanizing water-bag presses are constructed with heating plates made of light, high quality alloys. Shielding heating resistors are reachable and located in the heating plate, allowing the following:

- Resistance to higher temperatures, fast and standardized
- Viability of heating data.

Preset thermostat allows the auto-regulation to 150°C (302°F) but is manually adjustable by instrument panel on the electrical control box (with the equipped PT100 probe for optional electrical regulation).
1 - Two types of plates are proposed

• **Straight heating plates with integrated cooling system**
  - Temperature uniformity
  - Low weight because of decreased thickness (only 30 mm)
  - Proven reliability and easy maintenance
  The cooling water circulates through a coil and removes the heat 3 times faster than air cooling allowing for reduced vulcanizing time.

• **Rhomboid heating plate with integrated cooling system**
  - The shape is 18.5° or 1/3 of the belt in bias
  - Cooling water system
  - Same weight and size as standard plate
### Table of electric consumption and electrical power per plate:

<table>
<thead>
<tr>
<th>Heating plate length</th>
<th>Module width*</th>
<th>Power in kW</th>
<th>KVA per plate</th>
<th>Amperage</th>
<th>400V / phase</th>
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</thead>
<tbody>
<tr>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
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<td></td>
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<tr>
<td>400</td>
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</tbody>
</table>

*D= Straight / R = Rhombic
2 - Insulation plates
Insulation plates allow reduced heat loss and avoid transmission to water-bag and press.

3 - Water-bag
Our water-bags are manufactured in our factory in France. The technological conception allows us to have uniform pressure on the surface for vulcanizing. The supply hose may be disconnected for faster connection and disconnection.

Straight water-bag or Rhomboid water consumption:

<table>
<thead>
<tr>
<th>Water-bag mm</th>
<th>350 mm (13³⁵/₆₄ inch)</th>
<th>525 mm (20³⁵/₆₄ inch)</th>
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<tbody>
<tr>
<td>400</td>
<td>2,5</td>
<td>3,75</td>
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<td>600</td>
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<td>2200</td>
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<td>10</td>
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<tr>
<td>2400</td>
<td>7,5</td>
<td>10,5</td>
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</table>
4 - Electrical control box
Our electrical control box is manufactured in our factory and meets the standards NF EN 60439-4 for worksite. Equiped with an emergency stop button, breaker, a differential switch and indicator 3 phases at 380V.
We propose 3 types of electrical control boxes reinforced PE :

**Standard thermostat control box :**
This control box allows one to control automatically the vulcanizing temperature thanks to the thermostats placed in the plates. You can control manually as well. (requires a thermostat built into the plate).

380V tri connection by plug with built-in power rating PI54 (protection indice).

**Regulated control box :**
This control box version can regulate temperature and the vulcanizing time, it can show the temperature on digital screens (require PT100 probe built into the plate).

**Process control box :**
This premium control box can record and control all parameters of vulcanization. Data is collected on a USB stick and then converted via computer graphically in PDF format.

This box record parameter of vulcanization:
Temperature settings, retention, cycle time, pressure, cooling, date and time of completion are rigorously recorded. (require PT100 probe built into every plate).
Hydraulic pump:

Hand pump:

Each hydraulic pump has 3 outputs for connecting water-bag and a pressure gauge. The pump has 2 pistons.
- Fuel tank capacity: 30L
- Pumping capacity of the pre filling piston (l) : 79ml
- Pumping capacity of the fishing piston (l) : 8ml

Pressure limited to 14 bars by the calibration of the safety valve.

Electric pump:

Electric pump has a rating of 20L/min. Up to 6 water-bag connections can be made. The tank offers a capacity of 50L. The adjustable pressure is limited to 14 bars (199 PSI) by a safety valve.

The electric pump allows:
- The water-bag to be under pressure.
- Cooling the vulcanizing press.

Motor: 230 V mono-phase 0.88KW
Control by manometer.
Terminology:

Legend:

A. Water-bag.
B. Supply hose with valve and fluted coupling
C. Sections
D. Clamping strap
E. Aluminium strap for 180 beam
F. Feel strap for 320 beam
G. pivot rod diam.40
H. snap rings
I. Top nut
J. Bottom nut
K. Ball and socket washer
L. Tie-roda dia. 16mm
M. Male plug 6 + E 20
N. Female plug 6 + E 20 A
O. Socket mount
P. Male plug + E, 20 A
Q. Platen guiding lugs (version straight plate)
R. Socket mount long type.
S. Male plug 6 + E,20 A
T. Rubber cap
U. hairpin Shelding resistor
V. Straight Shelding resistor
W. Manometer
X. 3 water-bag coupling
Y. Safety valve
Z. 6 water-bag coupling

Electrical control box

400V – 2,4 or 6 outputs

V1. Indicator light 380V
BTV1. Switch on-off heating plats ( auto, O, manual)
S1. Female plug 6 + E, plat 1
R1. Regulation S1 T. Delay
BRI was created to address the existing theoretical or practical needs of conveyor belt training, especially rubber belts. BRI was founded to offer an unique solution and a domain of expertise that would exceed the users expectations.

Our institute offers a complete range of training:
- conveyor belt training
- on-site expertise
- audit
- an independent testing laboratory

We study your needs and put together a customized offer. Please do not hesitate to contact us.

Contact us:
BRI services are available worldwide through MLT and if you are located in France, through Provulco. Do not hesitate to get in touch with your MLT contact.

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MLT – it’s also metallic fasteners, flexible splices, tools, endless and spliceless technical belts

Innovative products, easy to install!
Innovation for 70 years.

MLT, it’s solutions for heavy and light duty belts, tools, technical belts, etc.