



MLT GROUP

Conveyor Solutions Expert

VULCANIZING WATER-BAG PRESS



Conveyor belt splices / Heavy Duty



VULCANIZING WATER-BAG PRESS

Modular presses manufactured for your use



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**.

The two unit sizes of 350 mm (13 25/32 inch) and 525 mm (20 43/64 inch) allow for **multiple combinations (depending on the splice length)**, giving you a completely customized solution. **The MLT water-bag vulcanizing presses are fully 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).

VULCANIZING WATER-BAG PRESS

Vulcanizing and repair for heavy duty belts

THE ADVANTAGES

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



Application fields



Heavy industries



Mines



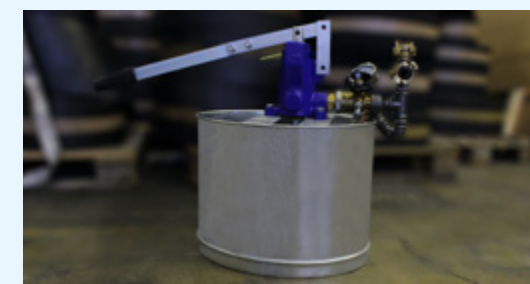
Cement plants



Quarries and surface mines



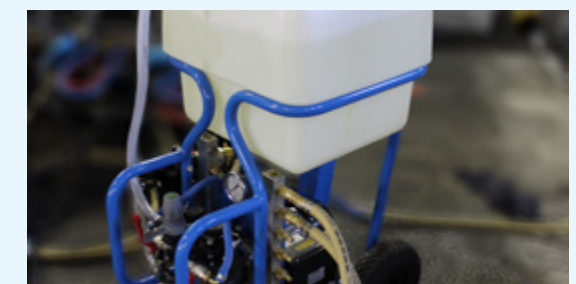
Hydraulic pump :



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 very quickly
 - Cooling the vulcanizing press.
- Motor : 230 V mono-phase 0.88KW
Control by manometer.



The components of our vulcanizing water-bag press

Two types of plates are proposed

Straight or rectangular heating plates with integrated cooling system

- Temperature uniformity
- Low weight due to its thin 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



Rhomboid heating plate (R) with integrated cooling system.

Table of electric consumption and electrical power per plate :

	Heating plate lenght		Module width*		Power in kW	KVA per plate	Amperage 400V / phase
	mm	inch	mm	inch			
	400	15 ^{3/4}	x350 (D)	13 ^{25/32} (D)	1,39	1,74	2,0
			x525 (D)	20 ^{43/64} (D)	2,08	2,61	3,0
	600	25 ^{5/8}	x350 (D)	13 ^{25/32} (D)	2,08	2,61	3,0
			x525 (D)	20 ^{43/64} (D)	3,10	3,88	4,5
	900	35 ^{7/16}	x350 (D)	13 ^{25/32} (D)	3,25	4,07	4,7
			x525 (D)	20 ^{43/64} (D)	4,83	6,04	7,0
			x350 (R)	13 ^{25/32} (R)	3,48	4,36	5,0
			x525 (R)	20 ^{43/64} (R)	5,48	6,86	7,9
	1100	43 ^{5/16}	x350 (D)	13 ^{25/32} (D)	4,00	5,01	5,8
			x525 (D)	20 ^{43/64} (D)	6,00	7,50	8,7
			x350 (R)	13 ^{25/32} (R)	4,20	5,26	6,1
			x525 (R)	20 ^{43/64} (R)	6,39	7,99	9,2
	1300	51 ^{3/16}	x350 (D)	13 ^{25/32} (D)	4,78	5,98	6,9
			x525 (D)	20 ^{43/64} (D)	7,17	8,96	10,3
			x350 (R)	13 ^{25/32} (R)	4,92	6,16	7,1
			x525 (R)	20 ^{43/64} (R)	8,04	10,06	11,6
	1400	55 ^{1/8}	x350 (D)	13 ^{25/32} (D)	5,17	6,47	7,5
			x525 (D)	20 ^{43/64} (D)	7,72	9,66	11,2
	1500	59 ^{1/16}	x350 (D)	13 ^{25/32} (D)	5,56	6,96	8,0
			x525 (D)	20 ^{43/64} (D)	8,26	10,33	11,9
			x350 (R)	13 ^{25/32} (R)	5,64	7,06	8,2
			x525 (R)	20 ^{43/64} (R)	8,76	10,96	12,7
	1700	66 ^{59/64}	x350 (D)	13 ^{25/32} (D)	6,31	7,89	9,1
			x525 (D)	20 ^{43/64} (D)	9,46	11,83	13,7
			x350 (R)	13 ^{25/32} (R)	6,36	7,96	9,2
			x525 (R)	20 ^{43/64} (R)	9,86	12,33	14,2
	1900	74 ^{51/64}	x350 (D)	13 ^{25/32} (D)	7,05	8,82	10,2
			x525 (D)	20 ^{43/64} (D)	10,65	13,32	15,4
			x350 (R)	13 ^{25/32} (R)	7,08	8,86	10,2
			x525 (R)	20 ^{43/64} (R)	10,95	13,70	15,8
	2000	78 ^{47/64}	x350 (D)	13 ^{25/32} (D)	7,43	9,29	10,7
	2200	86 ^{39/64}	x350 (D)	13 ^{25/32} (D)	8,11	10,15	11,7
			x350 (R)	13 ^{25/32} (R)	8,16	10,21	11,8
			x350 (D)	13 ^{25/32} (D)	8,83	11,05	12,8
	2400	94 ^{31/64}	x350 (R)	13 ^{25/32} (D)	8,88	11,11	12,8

*D= Straight / R = Rhombic

Insulation plates

Insulation plates allow reduced heat loss and avoid transmission to water-bag and press.

Water-bag

Our water-bags are manufactured in our factory in France. Their design allows a uniform pressure to be applied to the entire surface to be vulcanized. The supply hose may be disconnected for faster and safer connection.

Straight water-bag or Rhomboid water consumption :

Water-bag		Table of water consumption (L) with 14 bars	
		350 mm (1325/32 inch)	525 mm (2043/64 inch)
mm	inch		
400	15 ^{3/4}	2,5	3,75
600	25 ^{5/8}	3	4,5
900	35 ^{7/16}	3,5	5,25
1100	43 ^{5/16}	4	6
1300	51 ^{3/16}	4,5	6,5
1400	55 ^{1/8}	4,5	7
1500	59 ^{1/16}	5	7,5
1700	66 ^{59/64}	5,5	8
1900	74 ^{51/64}	6	8,75
2000	78 ^{47/64}	6,25	9,25
2200	86 ^{39/64}	7	10
2400	94 ^{31/64}	7,5	10,5

Electrical control box

Our electrical control box is manufactured in our factory and meets the standards NF EN 60439-4 for worksite. Equipped 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).



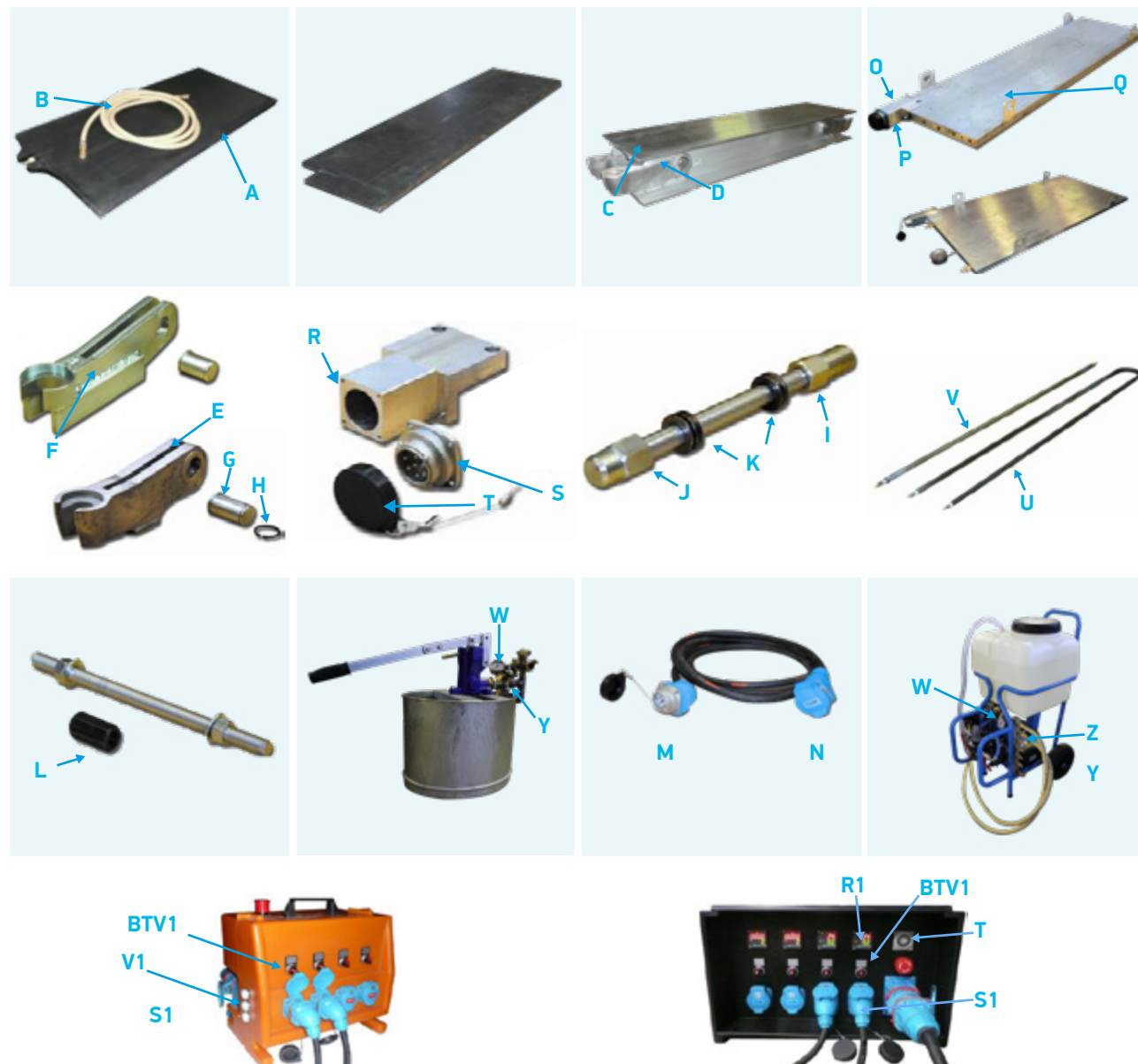
Regulated control box (automatic operation):

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 (automatic operation):

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).



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 Sheilding resistor
- V.** Straight Sheilding 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



THE VULCANISER'S TOOLKIT

all the tools to make your hot splice successful



VULCANIZING WATER-BAG press

MLT Minet Lacing Technology
More than 70 years of innovation
at your service



Distributor logo



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