Vulcanizing Press with Pressure Bag, Type EMU

Components

Heating Plates
- Flexible heating plates of sandwich construction consisting of cooling profile, silicone heating element and insulation plate in order to ensure uniform pressure all over the splicing surface
- Shape: rhombic 16° 42’, 22°, rectangular 90°
- Low individual weight of heating plates
- Equipped for air or water cooling
- Robust, flush fitting electrical connections with a metal plug locking device
- Quick heating time with optimum heating capacity
- Quick cooling time due to integrated cooling channels
- Optimum pressure and temperature distribution

Electronic Control Box with Electronic Temperature Control System
- The configuration of the control cabinets required depends on the number of heating plates used; one current output is required on the control box for each heating plate used
- Electrical connection as per CEE standards
- Exact temperature reading in each heating plate via thermosensor PT 100
- Electronic controller with digital display of setpoint and actual temperatures
- Quick and simple programming of the electronic temperature controller
- In case of electronic controller failure, manual operation is possible as well
- The controller tolerance is only about 1% of the value set (e.g. at 145°, tolerance approx. 1.5 °C)
- Timer
- Differential monitoring of the individual heating circuits
- Including residual current device

Types Available

<table>
<thead>
<tr>
<th>Type</th>
<th>Input</th>
<th>Output</th>
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<tbody>
<tr>
<td>double control box</td>
<td>400 V, 32A</td>
<td>16 A</td>
</tr>
<tr>
<td>fourfold control box</td>
<td>400 V, 63 A</td>
<td>16 A</td>
</tr>
<tr>
<td>double control box</td>
<td>400 V, 63 A</td>
<td>32 A</td>
</tr>
</tbody>
</table>

On request, all vulcanizing presses are designed to customers’ requirements for all belt widths, splice lengths, combinations, voltages, configurations etc.
Light construction for flexible use with short periods of heating and cooling

Components

Cross Beams
- light cross beams made of high-strength aluminium alloy

Pressure System
- surface hydraulics by the use of pressure bags. Pressure is applied evenly over the entire splice area via pressure bags.

Heating Plates Type EMU
- flexible heating plates of sandwich construction, consisting of cooling profile, silicone heating element and insulation plate

Electronic Control Box
- with connecting cables (number and type depend on number and sizes of heating plates)
- digital temperature display
- electronic temperature control

Features of the EMU Type Pressure Bag
- flexible heating plates and pressure bag system adapt to the conveyor belt’s top during splicing
- particularly easy to transport due to the low weight of the single parts and to the small dimensions
- constant distribution of pressure due to NILOS surface pressure system

Cross Beam Profiles for Surface Hydraulics
- light cross beams made of high-strength aluminium alloy
- maximum tensile and bending strength with minimum weight
- designed to be robust and to take up little space
- high safety standards due to insertion of the tensioning bolts with safety pins within the cross beam profile
- spacing rails for correct and secure assembly of the cross beams are included

Available Sizes of Profiles for EMU Cross Beams (mm)

Pressure Bags
Uneven splicing surfaces, as for example partially worn conveyor belts, are compensated so as to produce uniform pressure all over the joining surface.
- robust rubber pressure bags with kevlar reinforcement
  - shape: rhombic 16° 42°, 22°, rectangular 90°
  - uniform pressure by the use of pressure bags
  - either air pressure or a water/glycol mixture can be used as a pressure medium
  - when using air pressure [1] surface pressure up to max. 70 N/cm² (100 psi)
  - when using water/glycol mixture [2] surface pressure up to max. 140 N/cm² (200 psi)

Various systems are available for pressure build-up (compressed air or water pumps)

Air Control Box [3]
- surface pressure up to max. 70 N/cm² (100 psi)
- with safety valve and pressure gauge

Motor Pumps
- pressure medium: water/glycol mixture
- pressure range: 70–140 N/cm² (100–200 psi)
- with safety valve and pressure gauge
- also suitable for draining the pressure bags
- 400 volts, 50 Hz (other voltages on request)

Type MPT (portable) [4+5]
- capacity: 6 l/min
- weight: 25 kg
- complete with tubular frame
- additional tank (30 or 50 l) required

Type MPF (mobile) [6+7]
- capacity: 15 l/min
- weight empty: 80 kg
- tank volume: 100 l
- complete with chassis on solid tires
- add. 100 l tank available (mobile without pump) [7]