



# NILOS

## 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

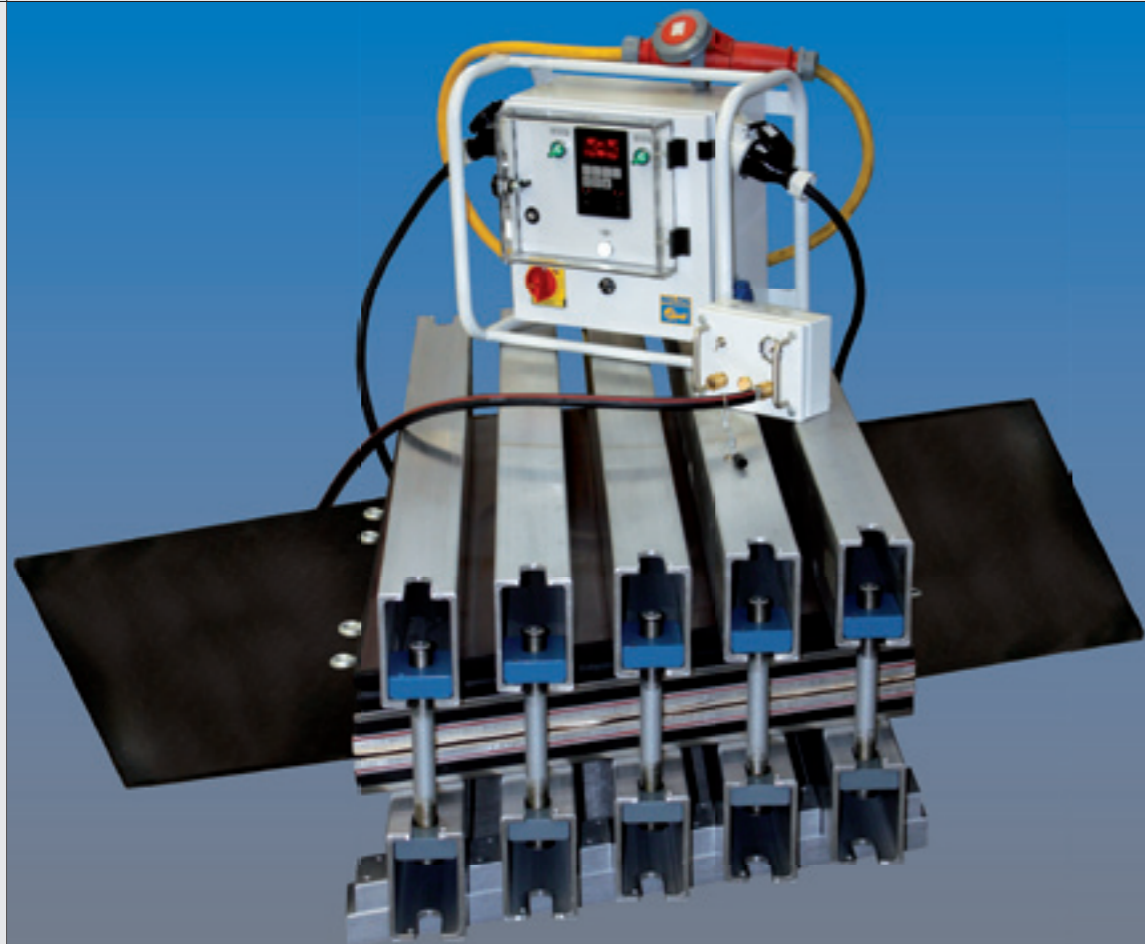
#### Electronic Control Box with Electronic Temperature Control System

- 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

- 1 Distribution cover plate
- 2 Pressure bag
- 3 Heating plate No. 1
- 4 Conveyor belt
- 5 Heating plate No. 2
- 6 Cooling profile
- 7 Heating plate Nos. 1 + 2: flexible heating plates of sandwich construction consisting of cooling profile, silicone heating element and insulation plate
- 8 Silicone heating element
- 9 Insulation plate

Types Available		
Type	Input	Output
double control box	400 V, 32A	16 A
fourfold control box	400 V, 63 A	16 A
double control box	400 V, 63 A	32 A
Other voltages on request		

On request, all vulcanizing presses are designed to customers' requirements for all belt widths, splice lengths, combinations, voltages, configurations etc.



Vulcanizing Press  
with Pressure Bag,  
Type EMU



NILOS GmbH & Co. KG  
Reisholzstraße 15  
D-40721 Hilden  
Phone: +49-2103-951-0  
Fax: +49-2103-951-219  
E-Mail: sales@nilos.com  
Web: www.nilos.com

## Vulcanizing Press with Pressure Bag, Type EMU

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

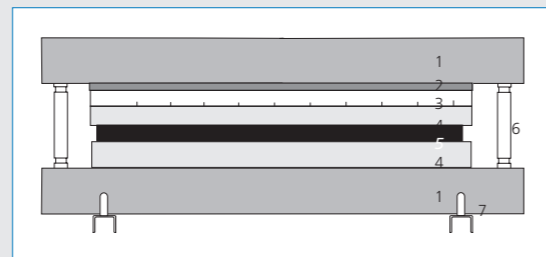
- with connecting cables (number and type depend on number and sizes of heating plates)
- digital temperature display
- electronic temperature control

#### 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

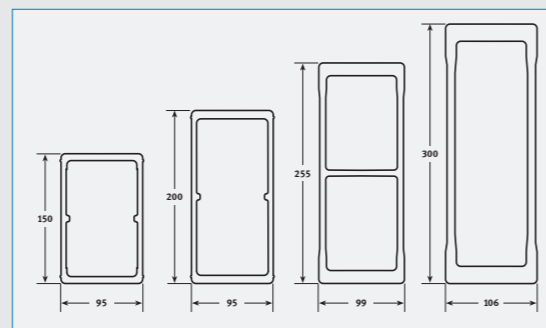
#### Features of the EMU Type Pressure Bag

- 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



- |   |   |
|---|---|
| 1 Cross beam  | 5 Conveyor belt                                   |
| 2 Wooden cover plate  | 6 Tension belt with safety pin                    |
| 3 Pressure bag  | 7 Wooden spacing rails (optionally made of metal) |
| 4 Flexible heating plates of sandwich construction consisting of cooling profile, silicone heating element and insulation plate |   |

#### Available Sizes of Profiles for EMU Cross Beams [mm]



## Vulcanizing Press with Pressure Bag, Type EMU

### Components

#### 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/cm<sup>2</sup> (100 psi)
- when using water/glycol mixture [2] surface pressure up to max. 140 N/cm<sup>2</sup> (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/cm<sup>2</sup> (100 psi)
- with safety valve and pressure gauge

#### Motor Pumps

- pressure medium: water/glycol mixture
- pressure range: 70–140 N/cm<sup>2</sup> (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]

