



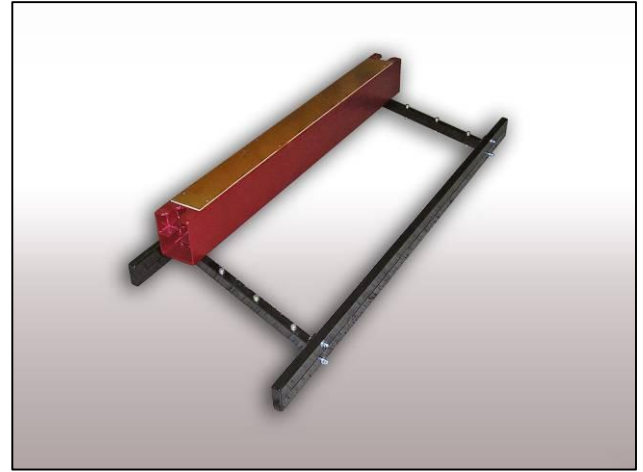
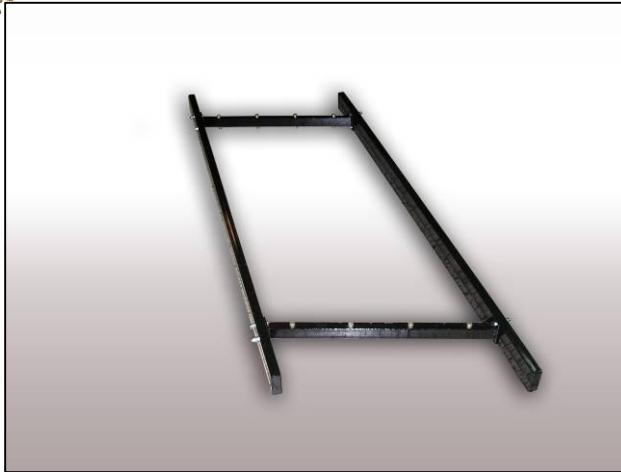
Vulcanizing devices of VKL series

FUNCTION: Jointing and repair of rubber-fabric conveyor belts width to 1400 mm using the method of hot vulcanization in stationary conditions of workshops or directly on the conveyors.



TECHNICAL CHARACTERISTICS

	VKL-800	VKL -1000	VKL -1200	VKL -1400
Width of conveyor belt, mm, not more	800	1000	1200	1400
Junction length, mm,	680	680÷1300	680÷1950	680÷2600
Heating temperature, °C	100÷200	100÷200	100÷200	100÷200
Specific pressure onto conveyor belt, MPa, not more	1,0	1,0	1,0	1,0
Voltage, B	380	380	380	380
Installed capacity, kWt	6,0	8÷16	9,4÷28,2	11÷42
Specific power, kWt/m ²	11,0	11,0	11,0	11,0
Heating time up to vulcanizing temperature, min	25	25	25	25
The largest weight of portable part, kg, not more	34	40	48	58
Defense degree	IP 44	IP 44	IP 44	IP 44
Warranty period: Heating plates , Pressing system Control unit	5 years 18 months	5 years 18 months	5 years 18 months	5 years 18 months
Junction type	Straight or skew (18 ⁰ 30')			



1. Vulcanizer's frame is designed for mounting the pressing beams and plates at given angle to conveyor drum's axis. Double-sided location of the fingers allows to perform the jointing and repairing separately from the angularity line. The low beams are mounted to the vulcanizer's frame and are fastened by frame fingers and beam's holes. The beams are supplied with the handles for carrying and with heat-isolating plate.



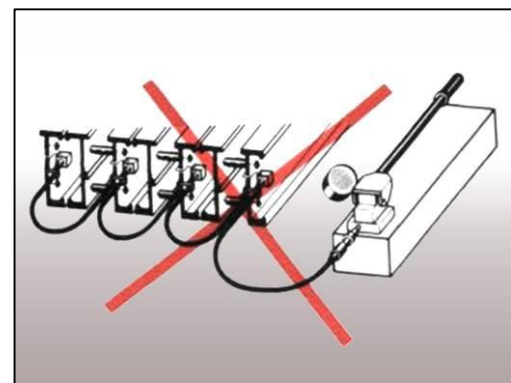
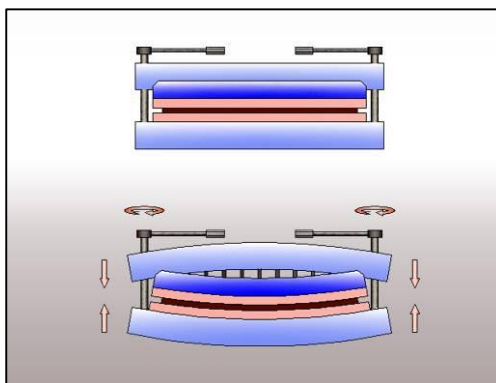
2. Heating plates are made of elastic light alloys using the patented heating elements with surface-distributed heat generation of high reliability and effectiveness. As a result the heating temperature for non-working surface does not exceed 85°C , and specific power is 11 kWt/m^2 .

Connecting the plates to electric circuit is made through thermo-resistant power sockets «PROCON» of company «Walther» (Germany). Plates construction provides application of outside thermometer and protective covers, preventing jacks from damaging and dust. Resistance of plate isolation relatively to the boggy at $t=150^{\circ}\text{C}$ and voltage 1000V is 1000 MOhm. Warranty life time of heating plates is 5 years.



3. The upper beam of vulcanizer is supplied with mechanical compensator of deflection, which in combination with elastic heating plates allow to perform the qualitative junction and repair of conveyor belts of rough thickness. The pressing system and heating plates operate reliably at sum beam deflection up to 20 mm and wear of conveyor belts 10 mm, independent from uniform tightness of retaining device. The construction of mechanical compensator differs by its simplicity and reliability and doesn't require maintenance.

The pressing system of screw type with thrust bearings is put into operation using two torque spanners with regulating torsion moment and guarantees produced pressure 1,0 MPa. On customer's request it is possible to design the pressing system with 1,4 MPa pressure.



4. Using the mechanical compensator of deflection and pressing system with torque spanners allow eliminating the expensive hydraulic systems for producing the pressure and compensators of beam's deflection.

5. Control block combines in one unit the terminal box with detachment for cables and the vulcanizer's control panel. It makes easier enough transportation, assembly and storage of control unit. Control unit provides automatic regulation and indication of heating temperature of each plate in the range 100÷200 °C, that allow performing drying and junction of conveyor belts including the thermo-resistant ones. On customer's request the unit can be set with timer, manual operational regime etc.