Air-cooled compact press for conveyor belts

LPBE-600ACI

Working width 600 mm

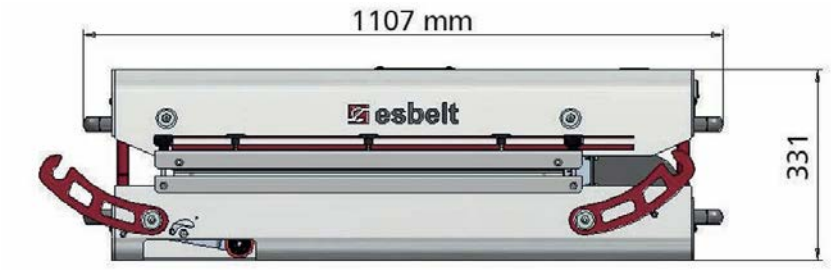
Control panel, compressor and cooling system are integrated into the machine chassis.

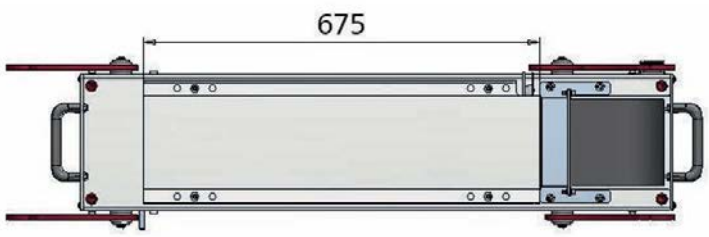
All-in-one to carry out on-site splices.

Includes holding base with 2 stratified fiber glass sheet.

SPECIFICATIONS:

Effective splice dimensions	Net Weight	Max. operating pressure	Max. Temperature	Total Power	Voltage
600 x 160 mm	46 kg	2,5 bar	220 °C	3 Kw (1,5 Kw for each plate)	240 v single phase





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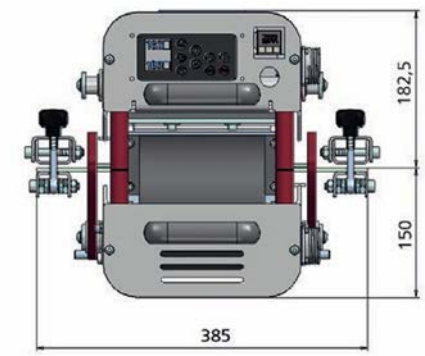
FEATURES:	BENEFITS:
Extruded aluminum profile structure. Chassis height: 331mm.	Lightweight compared to steel chassis. Compact structure, easy to manage.
Control panel integrated into the top chassis and air cooled. Separate temperature control for each plate. Temperature change monitor.	Ideal for on-site joints. Avoids transporting electric control box and water pump. Easy to operate. Possibility to observe anomalies if heating or cooling process is not normal.
Vulcanizing time can be set. Automatic cooling process through integrated air turbines. Cooling temperature is pre-set at 60ºC.	Minimal operating vigilance required. Liberates the operators to do other tasks while belt vulcanizing is in process.
Heating plates fitted with flexible heat resistors. Compressor integrated into the top chassis to inflate the pressure cushion (max. 2.5bar).	Heat resistors adapt to shape of the air cushion according to the working pressure of the press.
Nominal distance between heating plates 20 mm. 	Allow for both thin and thick belts to be vulcanized. Also good for belts with top cover patterns to be vulcanized with a silicon mould where additional plate opening is needed to accommodate the thickness of the belt, mould, fiber glass sheets, film etc.
Holding base, with 2 stratified fiberglass sheet. • Excellent temperature resistance. • Absorbs less heat than traditional metal plates. 2 wheels at one end of the press. UNFOLDED WHEELS FOLDED WHEELS	Ensures correct positioning of belt and prevent unwanted movement. More even distribution of heat compared to steel plates, reducing color tone variation between splice area and rest of the belt. Does not deform with temperature change like the steel plates. Easy to move the press around.

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ADVANTAGES:

Vulcanizing press that produces high quality belt joints based on 3 principles, that the quality of a joint is:

1. directly proportional to how slow the press temperature rises.

2. inversely proportional to the temperature at which the press is opened after vulcanizing.

3. Points 1 & 2 become more critical as the belt thickness increases.

Our press temperature is designed to rise gradually and not ultra-rapidly. In this way, the thermoplastic fusion is achieved uniformly along the belt width and in all the layers (belt covers as well as internal plies). There are presses that offer quick temperature rise but this is not advisable for joining thick belts as the internal plies may be left ˝uncooked˝ due to the shorter time.

Being a compact press with all its elements integrated into its chassis, it allows for various joints to be carried out continuously without having to vary the initial parameters and without affecting the quality of the joints. It is a very safe press whereby the operator can carry out joints on the same type of belts without having to worry about varying the parameters.

When the fusion time is over, Esbelt recommends that the press be opened only when the alarm goes off, i.e. when the temperature falls to 60ºC and below.

Esbelt vulcanizing press is ideal for obtaining high breaking load at the joint areas, for both thin and thick belts, without compromising the features of the cover material.

In short, by using Esbelt vulcanizing press and the appropriate joint parameters, we can avoid weak joints caused by the lack of fusion in the internal layers or the deterioration of the external covers if excessive temperature is applied to the joint area.

A badly executed joint not only reduces a belt´s working life, it has a lower breaking load and may result in a belt breaking at its weakest point and causing the production or process line to halt.

Accesories for LPBE 1100A press - optional *(not included in the purchase of the press)*

ELEMENT & FEATURES:	BENEFITS:
LPBE600ACI-BOX - Laminated wooden box with aluminium reinforcement and cushioned internal fittings. Installed with wheels with brakes. 	Robust and light structure to facilitate transportation and the storing of the press, preventing knocks, scratches and other accidents. The wheels facilitate its manipulation.

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