MOBILE FINGER PUNCHING DEVICE
FOR PLASTIC CONVEYOR BELT

MÄRTENS
Tradition and innovation since 1929

Mobile finger punching device for preparing of finger joints

Advantages

- low weight (19 kg)
- easy and quick handling
- can be used for any belt width
- shortened downtime for belt assemblies
- for straight or diagonal finger joints (depending on the punching knife)

Accessories

- Punching knife, 1,000 mm long (other lengths are possible)
- Instruction manual

Technical data

- for 60°, 75° and 90° connections

Functional description

To prepare a welded joint, the mobile finger punching device and a suitable punching knife are required. The hydraulics of the punching device generate the pressure necessary to cut the fingers, which acts on a punch. The punch then cuts the finger shape into the conveyor belt with the help of the punching knife.

The first fingers are cut at the edge of the conveyor belt. Section by section, the fingers are then cut across the entire band by moving the punching device. It is equipped with rollers so that it can be moved easily. The punching device is moved by approx. 100 mm for each section. Due to the force generation with the help of hydraulics, as well as the light and functional design of our mobile finger punching device, you are able to produce professional finger joints in conveyor belts of any width easily, safely and quickly.

P-008-F-GB-2023-02

Märtens Transportbänder GmbH, Lise-Meitner-Straße 18, D-24941 Flensburg, phone: +49 461 9047-0, fax: -150, e-mail: info@maertens.de, www.maertens.de

MOBILE FINGER PUNCHING DEVICE
INSTRUCTION MANUAL

Necessary components

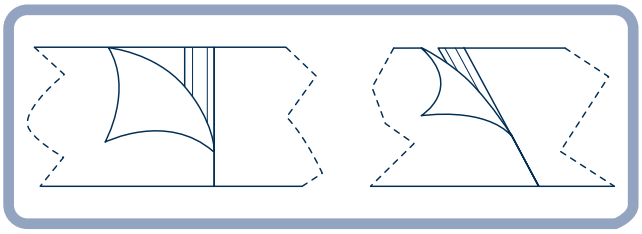
- Mobile finger punch
- Punching knife
- Compensating block

I Preparatory work of the conveyor belt ends

We generally recommend making a diagonal connection. Only in unfavourable space conditions should a right-angled connection be carried out.

Required overlap area: Belt length
+ 120 mm length allowance.

120 mm from one end of the conveyor belt, apply the marking line and apply a 20 mm wide adhesive tape on both sides across the belt width, within the marking and the end of the material.



Place the belt ends on top of each other and fix with adhesive tape.

Make sure the belt runs straight!

II Handling the finger punch

When the belt is drawn in and the punching process has to be carried out in the machine, the conveyor belt must be fixed at a sufficient distance from the working area so that the working process is not hindered. A plate must be installed under the punching area that protrudes beyond the end of the belt, especially in the initial area, so that the finger punch is adequately supported.

The punch is aligned under the joint area and lined on one side with a balancing block. From the other side, the finger punch is inserted into the band.

The 1st punching process can begin, i.e. close the rotary valve and bring the unit to pressure by operating the hydraulic pump.
Note: The unit is equipped with an overpressure lock, i.e. pressure can be applied until the material is audibly punched through.

When the punching process is finished, the rotary valve is opened and the pressure bar is raised automatically. The finger punch is pushed one section further into the belt and the punching process is repeated.

As soon as the edges of the belt touch the frame of the punch, the pre-punched fingers should be pulled apart (zip procedure) so that the punch can later be pushed further into the belt for the next punching process.
Note: During this step the cylinder of the punching device should be under pressure, so that the fingers are not pulled too far apart. This process is repeated until the other edge of the belt is reached.

Remove the punching remnants and adhesive strips. The ends of the conveyor belt are now prepared for a later finger joint.

Exclusively for you: our instruction clip.
You can find it via the QR code or the website:
www.maertens-conveyorbelts.com/media-centre/instruction-videos

For special attention:
The mobile finger punching device is used exclusively for preparing thin plastic conveyor belts and must not be used for other purposes.

Märtens Transportbänder GmbH
Lise-Meitner-Straße 18, D-24941 Flensburg, phone: +49 461 9047-0, fax: -150, e-mail: info@maertens.de, www.maertens.de

MÄRTENS
Tradition and innovation since 1929