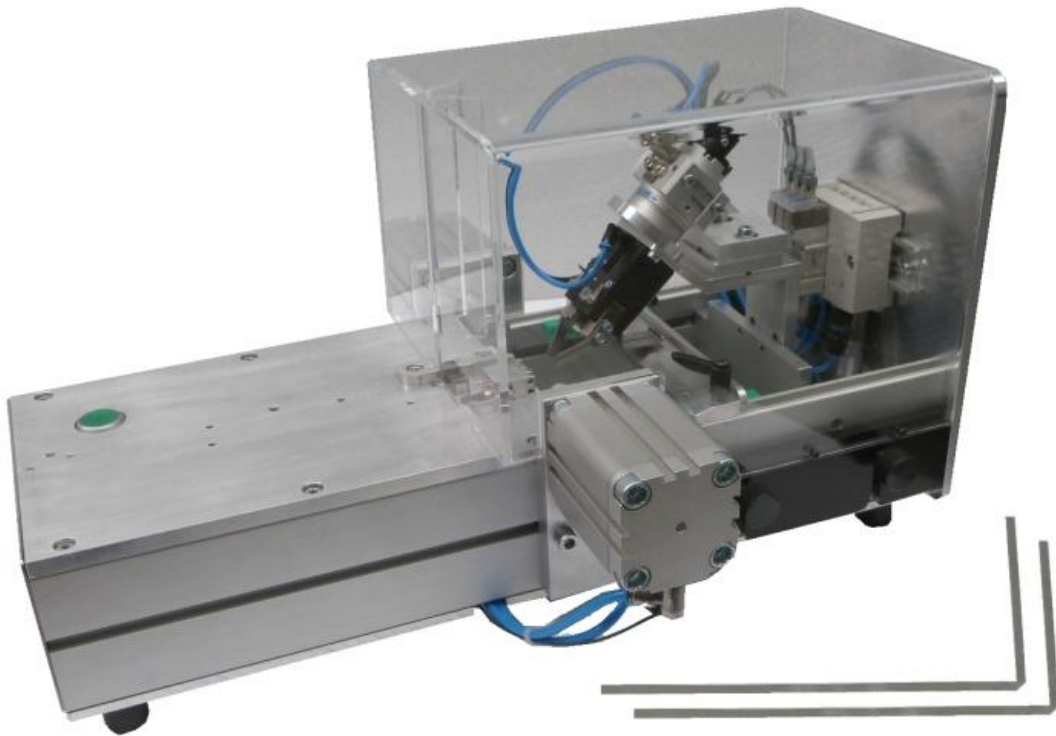


## *Automated bending of cross-connectors (PV ribbons)*



- *easy handling*
- *precise 90° angle*
- *flat beading*
- *high efficiency*

## System Description

### Operation

The operator inserts the cross-connector exactly positioned (guided by leading edge length and position) and activates the foot switch. The connector is clamped and gripped at the free end with the bending gripper. The bending gripper, oriented at a 45° angle, turns 180° and so creates the 90° bend. Then the two press cylinders flatten the beading. The clamp is opened again and the finished cross connector can be removed.

For other ribbon dimensions only a length stop has to be adjusted.

### Economy

For contacting the junction box, the cross-connectors are generally bent into an L-shape. There are two alternatives to create the L-ribbons:

- Manual bending
- buy pre-formed connectors

When purchasing, the material supplier cuts and bends the cross connector on a fully automatic machine, so he is able to achieve good quality. However, a disadvantage is the higher cost, and more importantly, the higher cost of logistics: this is reflected in longer delivery times, higher costs for packaging, shipping and storage, and losses due to bending of the already pre-formed bulky L-connector.

Manual bending usually fails due to lack of reproducibility and lower quality, not to mention the required effort.

Due to easy handling and low invest for the bending device it is economical to use even for samples and small series. Even with only a few hours of operation per month the unit will already pay for itself, because you will save many hours of work required for manual bending, and obtain a reproducible quality.

### Technical Data

Dimensions	570 x 370 x 290 mm
Weight	16 kg
Power supply	230 V
Air supply	5-6 bar (500-600 kPa)
Control	mini-PLC

Repressing force	1 kN
Dimensions o. ribbons	3,0 x 0,1 mm to 7,0 x 0,5 mm
Length of bent legs	20 mm up to 100 mm*

\* other sizes available on request

