



komax

BT-IDC

BENCHTOP IDC MACHINE

The BT-IDC is a semi-automatic BenchTop machine equipped with all the necessary functions to process IDC connectors.

A cable clamp holds the hand-fed wires while the cutting unit precisely cuts them to length. A component feeder automatically feeds the connectors supplied on trays. A component holder positions the connectors for termination with the wires. An IDC unit simultaneously presses all wires into the slots of the connectors, establishing an insulation displacement connection between the wires and connectors. After completion, the product is transported to the take-out position.

The machine can be upgraded with optional components to improve the process and to integrate quality control into the workflow. This ensures continuous quality and the elimination of bad products from the production flow.

Options

- Several connector-specific kits
- Vision sensor for component monitoring
- Remote access
- Table

Technical Data

Wire cross section*	0.35 mm ² (AWG 22)
Zero cut	2 – 4 mm (0.08 – 0.16 in)
Wire length**	Single wire: min. 60 mm (2.36 in) Bridging: min. 100 mm (3.94 in) Twisted pairs: 75 – 100 mm (2.95 – 3.94 in)
Processable connectors	Erni MicroBridge 90° connector 4 pin Erni MicroBridge 90° connector 6 pin Erni MicroBridge 90° connector 8 pin Erni MicroBridge 90° connector 14 pin Erni MicroBridge 180° connector 6 pin
Pressing force	max. 7500 N (1686 lbf)
Electrical connection	3 x 230 / 400 V, 50 / 60 Hz
Power	2500 W
Compressed-air connection	6 Bar (87 psi)
Dimensions L x W x H***	1895 x 958 x 904 mm (74.6 x 37.7 x 35.6 in)
Weight	ca. 250 kg (ca. 551 lb)
Noise level	< 70 dB
Ambient temperature	10 – 40 °C (50 – 104 °F)
Humidity (non-condensing)	max. 90%
Installation site	Level, stable surface free of vibration Table size: min. L x W = 1240 x 820 mm (49 x 33 in) Loading capacity of the table: min. 250 kg (551 lb) (e.g. optional table)
Scrap rate	max. 2%
Cycle time****	max. 8 s
Technical availability	85% based on VDI3423
Processing outside the specifications	Processing outside the specifications upon request. In case of doubt, we will be happy to provide processing samples for your connectors and wires.

*Specified by the connector manufacturer.

**For ergonomic reasons, longer lengths are recommended.

***With the safety doors open and the tray feeder out.

**** Adding certain options will increase the cycle time of the machine.