

Flexible Harness Maker

Features

- Modular designed fully automatic machine for production of harnesses for household appliances
- Processing of IDC-Harnesses with cross-overs, bridges and double wire terminations
- Processing of IDC-Harnesses combined with up to 2 (4) different crimp terminals; Double wire terminations, side-by-side or stacked, are also possible
- Tyco Electronics crimp terminals and IDC-connectors with Rast interconnection technology are applied.



- Interchangeable, product specific IDC-Workstations
- High production reliability is assured via diverse testing procedures
- The PC control allows for harness programming, configuration, and machine optimization

Compatible Tyco Electronics Connectors

- AMP DUOPLUG 2.5 Mark I
- AMP DUOPLUG 2.5 MarkII
- AMP DUOPLUG Power
- AMP MONO-SHAPE Mark I
- AMP MONO-SHAPE Mark II
- AMP multifitting Mark II

Technical Data

Electrical supply
3 x 400 V AC, 32 A

Compressed air supply
600 kPa

Dimensions
approx. 4.6 m x 5.6 m with one workstation

Weight FHM base machine
approx. 2430 kg

Weight IDC Workstation
approx. 250 kg each

Noise pressure level
< 80 dB (A)

Wire length
240 mm to 3000 mm

Wire size range
0.22 - 1.5 mm²

Cycle time
≥ 1.6 s per wire up to 1000 mm length depending on harness configuration

Cycle time
2.8 s per bridge

FHM Mark II Harness Maker consists of

- FHM base machine
- 36-position, universal wire selector prepared for 6 wires
- Two programmable crimp stations
- Double crimp module
- Double crimp module side-by-side or stacked
- Digital crimp height measurement device

Accessories

- Crimpstation
- PID POD Inserter for FASTON plastic sleeves
- 6-position wire storage rack
- Guide tubes and clamping elements for additional 6 wires
- Interface for ink jet printer
- Ink jet printer 201 AE for wire marking

Applicable IDC-Workstations

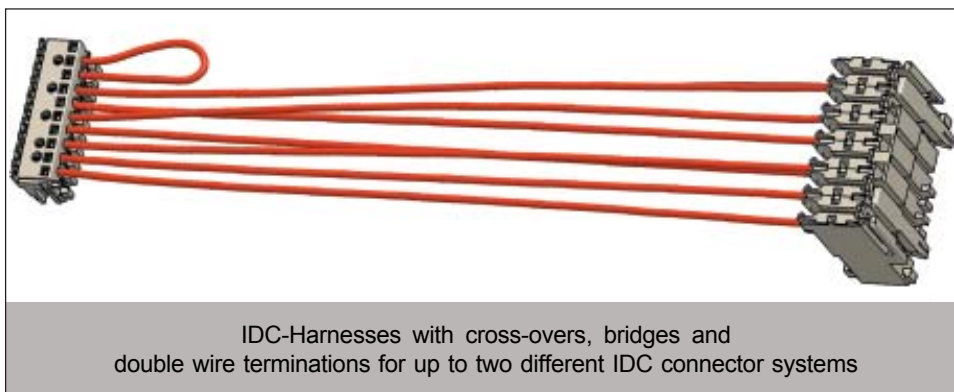
- SIM 26 F right/left for AMP DUOPLUG 2.5 Mark I
- SIM 25 F right/left for AMP DUOPLUG 2.5 Mark II AMP DUOPLUG Power
- SIM 52 F for AMP MONO-SHAPE Mark I
- SIM 51 F for AMP MONO-SHAPE Mark II
- SIM 50 F for AMP multifitting Mark II

These IDC-Workstations include all necessary functions required for the application of a particular IDC connector system, including

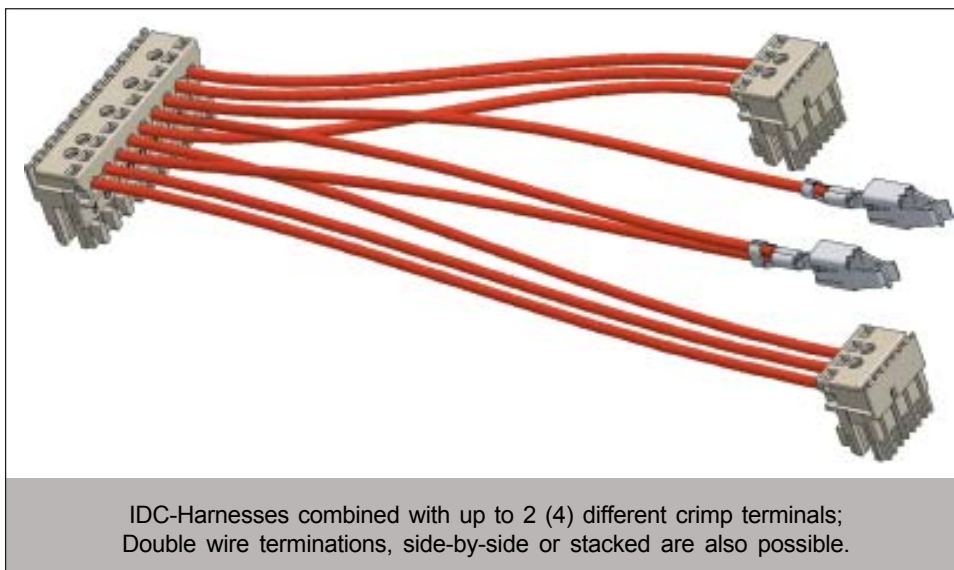
- key-cutting,
- wire insertion length check
- electrical continuity test

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Possible Wire Harness Configurations



IDC-Harnesses with cross-overs, bridges and double wire terminations for up to two different IDC connector systems



IDC-Harnesses combined with up to 2 (4) different crimp terminals; Double wire terminations, side-by-side or stacked are also possible.

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