



# FHM IDC - Flexible Harness Maker

## Features

- Modular designed fully-automatic machine for wire harnesses production with RAST 2.5 and/or RAST 5 connectors especially used with household appliances
- Ultimate flexibility for chaotic wire harnesses with crossovers, bridges and double wire terminations
- Minimal set-up and changeover times
- Best overall cost-performance ratio
- Designed for small quantity batch sizes with high product mix
- Interchangeable product specific workstations
- High production reliability assured via diverse testing procedures
- Easy operating interface for intuitive controlling via touch screen
- Fully-automatic adjustment of all wire feeding parameters
- The PC control allows for harness programming, configuration, and machine optimisation

## Technical Data

- Electric power supply: 3x400 V AC, 20 A
- Compressed air supply: 600 kPa
- Cycle time for jumper: 1.6 s per wire up to 1000 mm length depending on harness configurations (with 2 IDC Workstations)
- Cycle time for loops: 2.5 s per wire (with 1 IDC Workstation)
- Weight base machine: Approx. 500 kg
- Weight IDC Workstation: Approx. 250 kg each
- Noise pressure level: < 80 dB(A)
- Dimensions approx. [mm]  
W x H x D = 2700 x 1950 x 2900 with 2 Workstations; without cable storage
- Required space: Min. 7.0 m<sup>2</sup> without barrels
- Wire length: 150 mm to 3000 mm (60 mm with only one wire end terminated)
- Wire size range: 0.22 - 1.5 mm

## The FHM IDC consists of

- FHM IDC base machine with operating interface via touch screen
- Universal wire selector up to 12 positions, prepared for 6 wires
- Servo controlled transport gripper system
- Possibility to run with one or two SIM Modular IDC Workstations

### Compatible Tyco Electronics Connectors

- AMP DUOPLUG 2.5
- AMP DUOPLUG 2.5 Mark II
- AMP DUOPLUG Power
- AMP DUOPLUG 2.5 Power 10A
- AMP MONO-SHAPE
- AMP MONO-SHAPE Mark II
- AMP multifitting Mark II

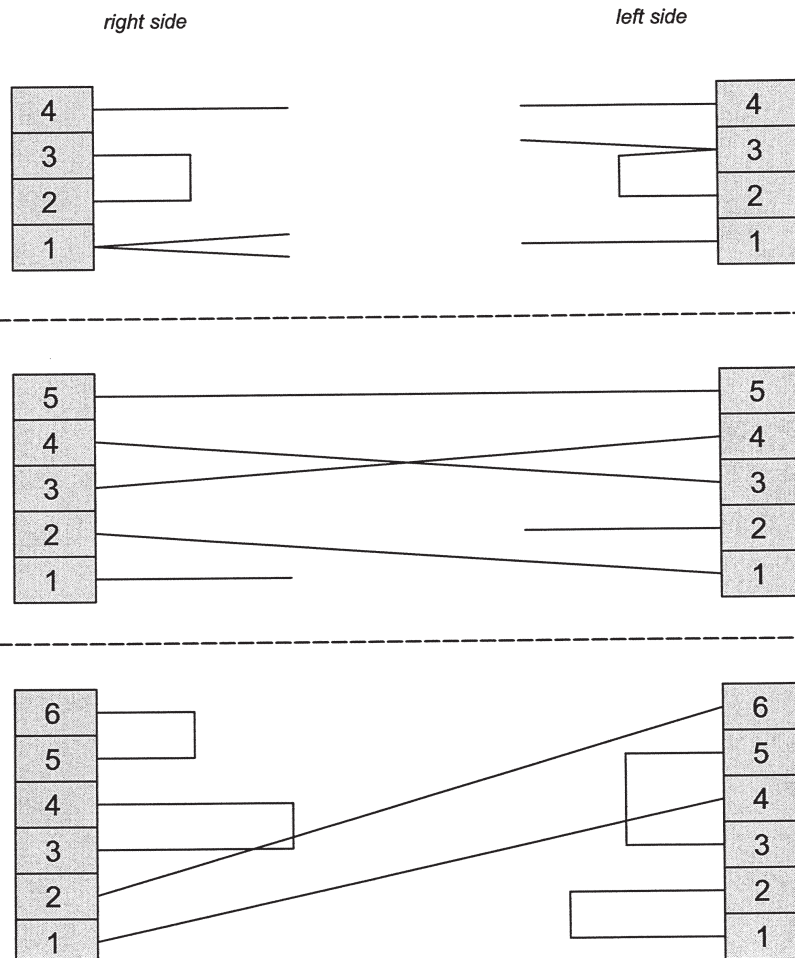
### Applicable Modular IDC Workstations

- SIM 25 E or for AMP DUOPLUG 2.5 Mark II and DUOPLUG Power
- SIM 26 F for AMP DUOPLUG 2.5
- SIM 27 E or F for AMP DUOPLUG 2.5 Power 10A
- SIM 50 E or F for AMP multifitting Mark II
- SIM 51 E or F for AMP MONO-SHAPE Mark II
- SIM 52 E or F for AMP MONO-SHAPE

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

- Key-cutting and checking
- Wire insertion length check
- Electrical continuity test
- Wire bending
- Connector marking
- good/bad sorting

### Wire Harness Configuration Examples



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