



IHM MARK III FULLY AUTOMATIC IDC MASS TERMINATION MACHINE

FEATURES

- Modular processing equipment with interchangeable IDC stations
- Possibility to process 2.5 mm and 5.0 mm pitch in the same harness
- Extremely high output for processing up to 21 parallel wires in mass termination
- Very low set up times thanks to the fully modular design of the machine
- Fully integrated quality control system for insertion length and electrical continuity (high voltage test optional)
- Special gripper unit to produce selective loaded connectors—Gripper unit to produce spreading wires connections
- High production reliability is assured via diverse testing procedures
- Each connector processing module is fully independent and contains all the process features necessary for the particular product (i.e. polarization/cover closing etc.)
- Easy maintenance
- Production assistance and troubleshooting via modem
- Simple and ergonomic operator interface with touch screen control

The IHM Mark III is a fully-automatic high performance IDC mass termination machine designed for high volume harness manufacturing.

The IHM Mark III is designed for high volume jumper (parallel wiring) production. Its connector-specific and interchangeable IDC workstations are equipped with all necessary functions for spec-compliant processing of parallel harnesses with TE RAST connectors on both sides.

Different interchangeable IDC workstations enable our customers to apply a wide range of TE RAST 2.5 and RAST 5 connectors. Interchangeable IDC workstations are available for AMP DUOPLUG 2.5, AMP DUOPLUG 2.5 Mark II and AMP DUOPLUG Power in the RAST2.5 as well as for AMP MONO-SHAPE and AMP multifitting Mark II in the RAST5 standard.

The IHM base machine controls the entire machine system and provides the fully automatic wire feeding, cutting, transfer as well as the insertion into the IDC workstations. The different interchangeable IHM workstations include all the necessary processing operations for the particular connector such as separating, latch cutting, coding-ribs cutting and cover closing. Various testing procedures are available on both the basic machine and the IHM workstations to ensure high production reliability.

The ability to run single side loose end preproduction for complex harness designs is enabled (this required offline crimping or further IDC processing).

Due to the continuous improvement of the IHM the Mark III is a highly efficient and reliable machine, ideal for high volume production of RAST jumper. With its high productivity the IHM mark III belongs to the most efficient IDC terminations machine for RAST in the entire market.

Appliances

IHM Mark III Fully Automatic IDC Mass Termination Machine

TECHNICAL DATA

- Electrical supply
 - 400 V AC, 50-60 Hz
- Pneumatic supply
 - 600 kPa
- Air consumption
 - Approx. 200 NL/min
- Dimensions DxWxH [mm]
 - 12000 x 2000 x 4900 (including 21 wire feed system)
- Wire length
 - min. 145 mm, max. 2800 mm
- Wire cross section
 - 0.22 mm² - 1.5 mm², stranded
- Cycle Time
 - 4.5 s for 21 wire harness 1 m long

BASIC CONFIGURATION

- Multiple wire feeding (up to 21 different wires)
- Connector loading
- Mass termination of the wires
- Connector polarization and key cutting
- Quality control
- Cover closing

AVAILABLE OPTIONS

(Depending on type of IDC workstation)

- Wire insertion length check
- Coding ribs check
- Electrical continuity test
- High voltage test
- Color marking
- Cover checking

AVAILABLE IDC WORKSTATION

- AMP DUOPLUG 2.5
- AMP DUOPLUG 2.5 Mark II and AMP DUOPLUG Power
- AMP MONO-SHAPE
- AMP multifitting Mark II

APPLICABLE TE CONNECTORS

- AMP DUOPLUG 2.5
Application Specification:
 - 114-18049-1
- AMP DUOPLUG 2.5 Mark II
Application Specification:
 - 114-18467-1
- AMP DUOPLUG Power
Application Specification:
 - Standard version (2-10) 114-18458-1
 - PCB Locking (2-9) 114-18996
- AMP MONO-SHAPE
Application Specification:
 - Single way tab 114-20016
 - PCB (2-12) 114-20018
 - LIF TAB (2-10) 114-20016
- AMP multifitting Mark II
Application Specification:
 - Tab Exterior locking (1-9) 114-18289-1
 - Tab Interior locking (1-7) 114-18382-1
 - Tab Exterior locking (2-4) 114-18289-1
 - Tab Interior locking (2-3) 114-18382-1
 - Tab Exterior locking silver (1-4) 114-18289-1
 - PCB (2-8) 114-18289-1

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