

IDC Application Tooling and Equipment for the Automotive Industry



tyco

Electronics

GATD Global Application Tooling Division



Tyco Electronics is the worldwide leader in the field of interconnection devices utilizing Insulation Displacement technique (IDC). A comprehensive range of application equipment is available, from hand tooling up to fully automatic equipment. High precision and performance at optimal costs speak for themselves. Our specialists would like to advise you regarding the available Tyco Electronics application equipment best suited to your specific requirements.

In what way can Tyco Electronics products be offered ?

Purchase / Rental / Lease

- All equipment can be purchased outright
- Rental / lease terms and other payment options are available on request
Hand tools are excluded from these special conditions

Installation, training and service

- Available at competitive rates through our extensive and experienced field service organisation

Product overview

Tandem Spring

Pistol Grip Hand Tool Case
Termination Tool, pneumatically
Repair Hand Tool
Harness Board Tool
MT-Bench Machines
MT-E2 Machines
Hybrid Harness Maker
IDC Module

Micro Quadlok

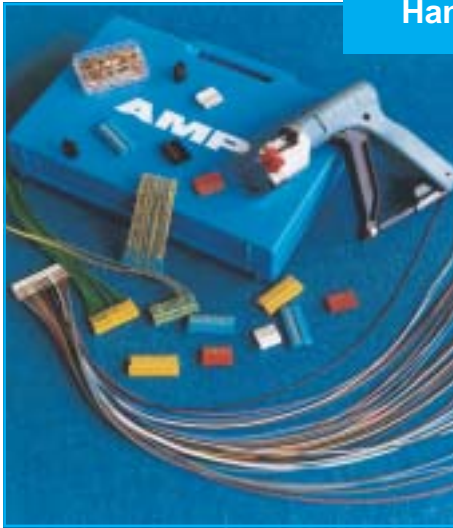
Pistol Grip Hand Tools
Repair Hand Tool
IDC Workstation
IDC Harness Maker

CAN Bus

Manual Lever Press
Harness Board Tool
Semi Automatic Machine

Hand Tool Case

Tandem Spring-IDC



Pistol Grip Hand tool for Tandem Spring male and female connectors

- Robust case
- Suitable for small batches and repairs
- Wide range of accessories
- Ergonomic design
- Integrated connector feed
- Precise insertion length due to wire cut

Termination Tool

Tandem Spring-IDC

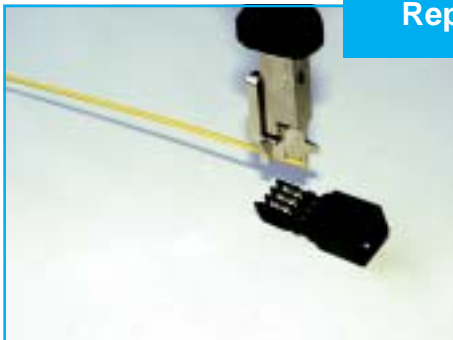


Pneumatically operated termination tool for Tandem Spring male and female connectors

- Suitable for small batches
- Interchangeable tool heads
- Automatic connector feed
- Precise insertion length due to wire cut
- Foot switch

Repair Hand Tool

Tandem Spring-IDC

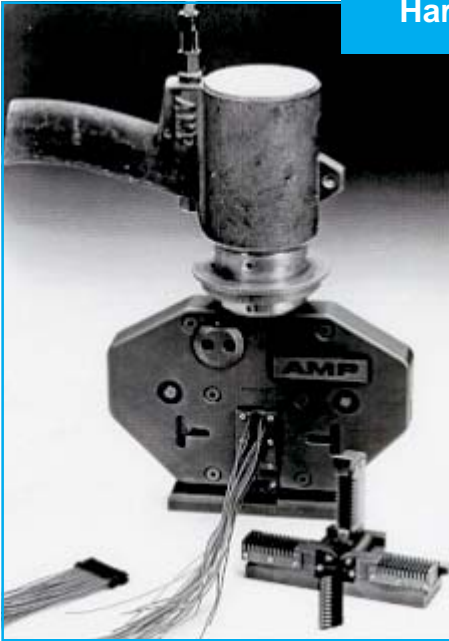


Hand tool to rework faulty IDC terminations which do not conform to the relevant application specification

- Simple operation

Harness Board Tool

Tandem Spring-IDC



Harness Board Tool for termination of Tandem Spring male and female connectors

- Manual insertion of IDC-connectors
- Applies double row Tandem Spring connectors
- Use with balancer possible

MT-Bench Machine

Tandem Spring-IDC



Semi automatic bench machine for termination of Tandem Spring male and female connectors

- Customer specific version
- 44 machine versions available
- Version for stackable and non-stackable Insulation Displacement Connectors
- Termination of single row and double row connectors available

MT-E2 Machine

Tandem Spring-IDC



Semi automatic bench machine, standard version for termination of Tandem Spring male and female connectors

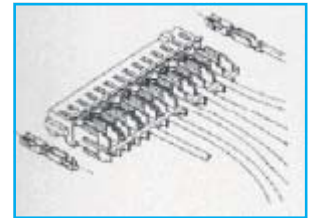
- Customer specific version
- 67 machine versions available
- Optional bar code reader
- Optional memory extension for up to 65 termination programmes
- Processing of single row and double row IDC-connectors possible

MT-E2 Harness Board Version Tandem Spring-IDC



Semi automatic bench machine for termination of Tandem Spring male and female connectors

- Harness board version
- 67 versions available
- Optional bar code reader
- Optional memory extension for up to 65 termination programmes
- Freely programmable
- Customer specific language modules are available for Czech and Turkish
- Processing of single row and double row connectors possible



MT-E2 Family Seal Version Tandem Spring-IDC



Semi automatic bench machine for termination Tandem Spring connectors with family seal - standard version

- Product specific version with manual piercing unit
- 67 versions available
- Optional bar code reader
- Optional memory extension for up to 65 termination programmes
- Recognition of connector colour (optional)
- Recognition of size of the connector (optional)
- Recognition of the connector termination position (optional)
- Recognition of family seal (optional)
- Freely programmable
- Customer specific language modules are available for Czech and Turkish
- Processing of double row connectors possible



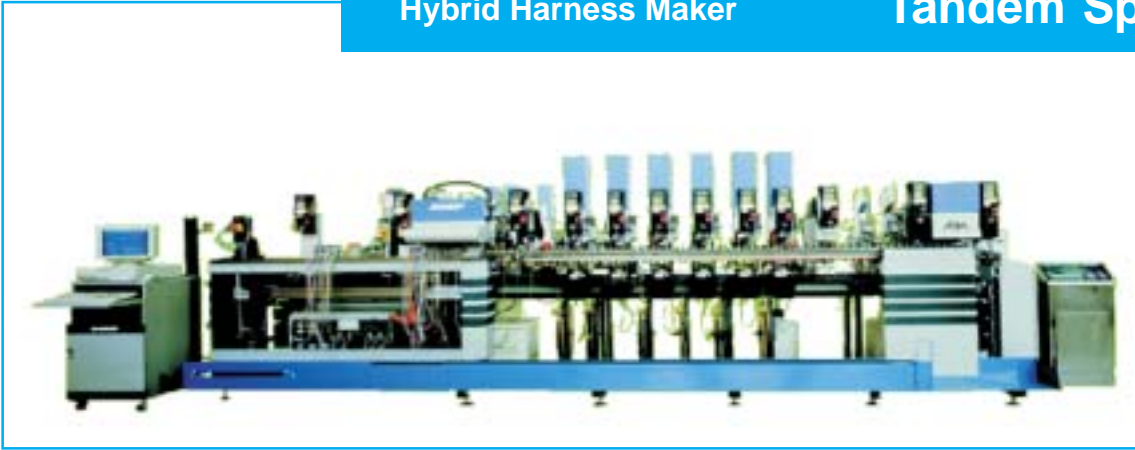
Semi automatic bench machine for termination Tandem Spring connectors with family seal - high end version

- Product specific version
- Automatic piercing unit
- Optional bar code reader
- Network compatible
- Acoustic error message (optional)
- Able to store up to 2000 termination programmes
- A small keyboard for faster selection of termination programmes (optional)
- Recognition of connector size
- Recognition of connector termination position
- Recognition of family seal
- Display of wire colour via PC (optional)
- Freely programmable (selective termination)
- Customer specific language modules are available for Czech and Turkish
- Processing of double row connectors possible



Hybrid Harness Maker

Tandem Spring-IDC



Fully automatic machine for processing of harnesses with IDC-connectors on one side of cable and crimp connectors opposite

- High productivity with small batches
- Maximal flexibility due to short set up times
- Fully automatic programmable machine for the highest output

IDC Module

Tandem Spring-IDC



IDC Module for termination of Tandem Spring male and female connectors

- Discrete wire seals at the free wire ends
- Double crimp connections and daisy chains possible at the free wire ends
- Good-bad/separation
- Wire selector for up to 36 wires
- Bundling of the free wire ends
- Printing and application of labels
- Ink-jet printer for wire marking
- Version of double row IDC-connectors

Pistol Grip Hand Tool

Micro Quadlok-IDC



Hand tool for processing of Micro Quadlok IDC-connectors

- Manual loading of discrete wires
- Clamps the wire, cuts and inserts into the IDC slot within the same cycle
- Automatic connector feed
- Ratchet device ensures completion of termination stroke
- Precise insertion length due to wire cut
- Corrects the termination position of the connector by means of release pin
- Each connector type requires the appropriate hand tool

Types of connectors:

- 9 position with 2,54 mm pitch
- 9 position with 3,5 mm pitch
- 6 position with 3,5 mm pitch

Pistol Grip Hand Tool Combi

Micro Quadlok-IDC



Multi functional hand tool for 9 position Micro Quadlok IDC-connectors with 2,54 mm pitch, 9 position connectors with 3,5 mm pitch and 6 position connectors with 3,5 mm pitch

- Manual loading of discrete wires
- Manual initiation of the termination cycle
- Manual feed of the connector
- Ratchet device ensures completion of termination stroke
- Precise insertion length due to wire cut
- Simple and fast set up due to interchangeable tooling kits

Pistol Grip Hand Tool

Micro Quadlok-IDC



Pistol grip hand tools for cutting polarizing keys on connector housings

- Simple operation
- Manual feed of the connector
- Different pitches of 2,54 mm and of 3,5 mm require the appropriate hand tool

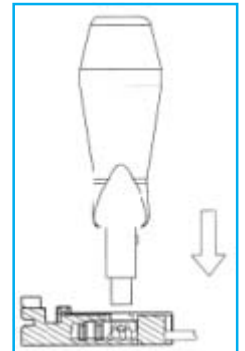
Repair Hand Tool

Micro Quadlok-IDC



Hand tool to rework faulty IDC terminations which do not conform to the relevant application specification

- Simple operation



IDC Workstation

Micro Quadlok-IDC



Semi automatic processing of IDC-connectors with 2,54 mm pitch and with 3,5 mm pitch

- Display of wire colour via PC
- Automatic termination of wire and contact
- Automatic cutting of polarization keys
- Electrical continuity testing
- Marking of successfully tested connectors
- Version for single row IDC-connectors

IDC Harness Maker

Micro Quadlok-IDC



Fully automatic processing of IDC-connectors with 2,54 mm pitch and 3,5 mm pitch

- Automatic cutting of polarizing keys
- Electrical continuity testing
- Marking of tested product - good/bad separation after test
- Automatic insertion of completed harness assemblies into packaging tubes
- Crimp contact on one wire end possible
- Version for single row IDC-connectors

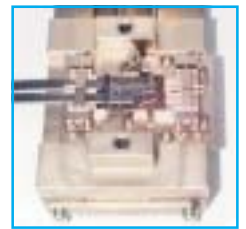
Manual Lever Press

CAN Bus-IDC



Manual termination of flat cables and CAN-Bus connectors

- Manual lid closure
- Suitable for low volume production and repairs of 2 position as well as 3 position IDC-connectors



Harness Board Tool

CAN Bus-IDC



Tool for termination of 2- or 3-position CAN Bus IDC-connectors to flat cable

- Manual insertion of connectors, lids and flat cables
- Termination by hand trigger
- Process verification by means of vision control system
- Applies 2 or 3 position IDC-connectors
- Hanging balance for harness board application

Semi Automatic Machine

CAN Bus-IDC



Semi automatic machine for termination of 3-position CAN Bus IDC-connectors

- Manual insertion of connectors, lids and flat cables
- Harness board integrated into the machine
- Automatic termination of harnesses with up to 10 IDC-connectors
- Application of 3 position IDC-connectors
- Memory of harness assembly information in database with data port
- Optional bar code reader
- Process verification by means of vision control system
- Destruction of rejects can be activated

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