



APPLICATION TOOLING PRODUCT LINE CARD

A Complete Line of Quality Tooling Solutions

PORTABLE WIRE PROCESSING

Standard Die Envelope (SDE)

We've combined all the features pioneered in our original PRO-CRIMPER hand tools with the versatility of an even more robust design to create the revolutionary SDE Crimp commercial tool system. SDE Crimp minimizes the need for multiple types of hand tools thanks to its Standard Die Envelope (SDE) die sets, which are easily interchangeable from manual to power-assisted tools depending on your needs. An enhanced tool frame also delivers greater operator comfort, efficiency, and crimping quality. Available as a fully assembled tool, or with the frame (PN 2362810-1) and die set sold separately, SDE Crimp brings a new level of flexibility and performance to your crimping.

32 - 10 AWG (.03 mm² - 5 mm²)



CERTI-CRIMP

The CERTI-CRIMP family consists of reliable, repeatable and certified crimp tooling to handle a variety of industry-mandated specifications. CERTI-CRIMP tools are available in both manual and battery-powered formats.

32 - 10 AWG (.03 mm² - 5 mm²)



Hydraulic Crimp

Our line of quality hydraulic tooling includes industry-standard HYP8 & HYP10 tool systems. The basic hydraulic tool system requires a pump, hose (multiple lengths are available with all configurations), crimp head, and shank or U-dies.

8 AWG - 1000 MCM (8 mm - 506 mm²)



Manual Power

- Adjustable ratchet control system
- Ergonomic designs
- Certified and non-certified options available
- Recommended for less than 60 crimps/hour



Pneumatic Power

- Lightweight design
- Hand or foot operated
- Rotating heads
- Recommended for less than 90 crimps/hour



Battery Power

- Short charge times
- 3,400 - 24,000 lbs of crimp force
- Recommended for less than 90 crimps/hour



Hydraulic Power

- Shank and U-dies
- 8,200 (HYP8) and 10,000 (HYP10) lbs of crimp force
- Requires a pump, hose and foot or hand control to operate



Insulation Displacement

- Interchangeable heads
- One-at-a-time and mass termination options available
- Available in manual and benchtop configurations



Specialized Tooling

- Customizable kits
- Terminal strip cutter
- 4-way indent tools

APPLICATORS AND SPARE TOOLING



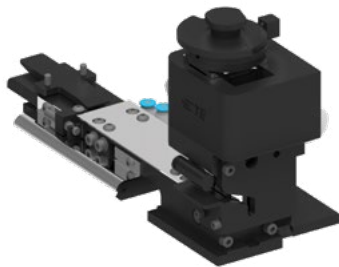
OCEAN 2.0

- Mechanical and pneumatic feed
- 26 - 7 AWG (.13 - 10 mm²)
- Atlantic and Pacific style ram configurations
- Excellent repeatability
- 30 and 40 mm stroke



Spare Tooling

- Precision ground, chrome plated
- Engineered for compliance to meet OEM specifications
- UL listed
- CSA certified



Splice

- 20 - 3 AWG (.5 - 25 mm²)
- 40 mm stroke
- Shut height: 135.78
- Fine adjustment
- For both pig-tail and thru-splice applications



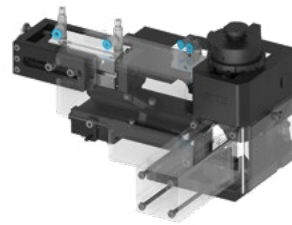
Mini Loose Piece

- 26 - 7 AWG (.14 - 10 mm²)
- 40 mm stroke
- Shut height: 135.78 mm
- Fine adjustment
- Ready for ferrule crimps for data connectivity



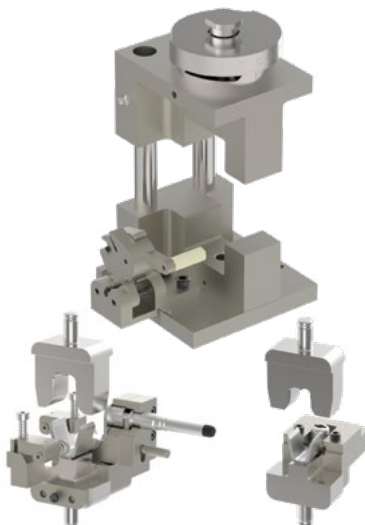
Mid Size Wire

- 7 - 3 AWG (10 - 25 mm²)
- 40 mm stroke
- Shut height: 135.78 mm
- Fine adjustment
- Fits on presses that accept traditional applicators
- Strip and loose piece terminal loading



Large Wire

- 3 - 0 AWG (25 - 50 mm²)
- Fine adjustment
- 40 mm stroke
- Shut height: 154.78 mm
- Strip and loose piece terminal loading



High Voltage

- Highly configurable design allows for left, front and side feed operation
- 5 - 4Ø AWG (16 - 120 mm²)
- Fine adjustment
- Multiple platforms available to accommodate TE and non-TE presses
- Excellent repeatability

Insertion/Extraction Tools



- Making terminal extractions as easy as 1, 2, 3.



SEMI-AUTOMATED WIRE PROCESSING



HV-CP

- Multi-step stripping of multi-layered conductors in as fast as 30 seconds
- Self calibrating
- Processes 10 - 120 mm² cable
- Stores up to 1,500 unique profiles
- CE approved
- Version II will be launched in **Summer 2024**



3K/5K

- Capable of 3,000 or 5,000 lbs of crimp force
- Priced competitively
- 30 and 40 mm stroke
- Available with and without crimp quality monitor (CQM II)
- Defective crimp cut and stripping module versions available
- CE approved on select models



HV-20V Vision

- New Die Vision System analyzes die set, terminal, and cable conditions before the footswitch is pressed
- With a low risk of scrapping parts comes a lower cost risk
- CE approved



HF-20T

- Capable of 40,000 lbs of crimp force
- Capable of processing wires up to 120 mm²
- CE approved



HV-20T

- Capable of 40,000 lbs of crimp force
- 44 mm stroke only
- Includes CQM II
- Capable of processing wires up to 120 mm²
- CE approved



GII

- Capable of 5,000 lbs of crimp force
- Improved interior lighting compared to 3K/5K platform
- 40 mm stroke only
- Available with and without CQM II
- Quieter than 3K/5K models
- Recommended for customers who have tape-fed applications
- Split cycle is standard
- Defective crimp cut and stripping module versions available
- CE approved



Inverted Splice

- Capable of crimping two or more stranded or magnet wires with a combined CMA of 400 - 13,000
- Designed to handle pig-tail and splice terminals
- Available with and without CQM II
- CE approved



SRC-M OCTACRIMP (Machine)

- Capable of 1350 kN / 135 t crimp force
- Provides segmented radial crimp (SRC) technology for large wire crimping needs
- CE approved

HEAT SHRINK MACHINES



RBK-X1

- Tubing diameter up to 19 mm
- Tubing length up to 70 mm long
- Stores hundreds of unique profiles
- Compatible with upstream ultrasonic welder
- CE approved on select models



RBK-X1C

- 60 mm long x 19 mmØ
- In-line products
- Steady product during process
- Compatible with ultrasonic welder communication
- 2376800-1, Standard
- 1-2376800-4, Air-cooled, CE



XS-D1

- Lightweight, portable hot air tool
- 240 mm long x 70 mmØ
- Two working positions
- CE approved



Model 105

- Tubing diameter up to 76.2 mm
- Tubing length unlimited
- Stores hundreds of unique profiles
- Compatible with upstream ultrasonic welder
- CE approved on select models



XB 17

- Fast determination of sealing integrity
- Multiple test fixtures
- 100 mm long x 19 mmØ
- Centering module available
- CE approved on select models



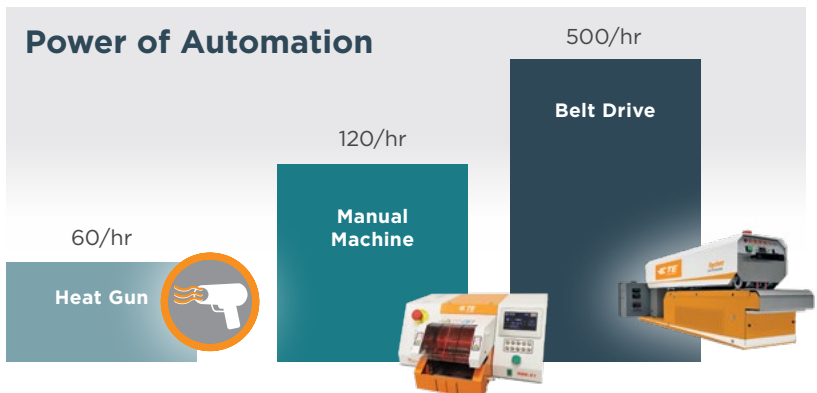
XB 19

- 100 mm long x 25 mmØ
- 160 mm long x 25 mmØ
- Centering module available
- Centering module available
- CE approved



AD-3050

- Fast determination of sealing integrity
- Multiple test fixtures
- CE approved on select models



HEAT SHRINK HAND TOOLS



Raychem IR-550/ED-7

- Kit is used to install SolderSleeve and MiniSeal devices, SolderTacts contacts, and TE heat-shrinkable products
- IR-550/ED-7-KIT: 220 V, 50 Hz, 7.3 A
- ED-7-001-550 Controller: 220 V, 50 Hz, 2.8 A
- CE approved



Raychem Mini-Ray MK5

- Tool is designed for installing SolderSleeve termination products up to 9 mm
- The hand tool is fan cooled and has low heat emission, as the lamp is only energized on demand
- CE approved



Raychem IR-550

- The Raychem IR-550 heating tool from TE is a portable electric infrared heating tool
- Input Power 120 V, 50-60 Hz, 4.5 A
- Models: IR-550-50 / IR-550-300
- CE approved



Raychem CV2014 Series

- CV2014 Series ThermoGun Heating Tool is used for installing TE heat-shrink tubing and SolderSleeve terminations, and for making cable repairs
- Voltage: 120 V (US models) or 230 V (UK/EU models)
- CE approved



Raychem ThermoGun Heating Tools

- CV1981 and CV1983 Series ThermoGun Heating Tools
- Ergonomic handling
- The tools use an internal thermocouple to ensure accurate output temperature
- Power consumption 1600 W
- CE approved



Raychem AA-400

- AA-400 Super Heater Compressed-Air Heating Tool is used for installing heat-shrinkable tubing and devices
- Power 120 V, 240 V
- CE approved



Raychem Heat Guns

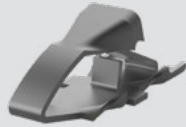
- The tools are designed for installation of TE heat-shrink products and SolderSleeve devices
- Power 120 V, 230 V
- Models: HL1920E / HL2020E
- CE approved

MAGNET WIRE EQUIPMENT

MAG-MATE



Mini MAG-MATE



SIAMESE



Leadlok



AMPLIVAR



Power Splice



Arbor Press

- Ideal for repair, service and prototype work



Inverted AMPLIVAR

- AMPLIVAR, pigtail and thru-splice termination for magnet wire and lead wire combinations



Power Splice

- Reliable pigtail splice termination of magnet wire and solid or stranded lead wires



Workstation

- Standardized and customized work stations to meet customer demands
- Designed to automatically insert terminals into cavities of coil bodies
- CE approved



MK I and II

- For MAG-MATE, SIAMESE and Leadlok terminal applications
- Single, dual, triple and quadruple insertion capabilities
- Optional insertion force monitoring
- Insertion module with or without electrical cabinet and touch panel options available
- CE approved



APT-5A and 5E

- Fast, efficient system for AMPLIVAR applications with no need to strip magnet wire insulation
- Auto crimp height adjustment and CQM models available
- Infinite splice models available
- Connects up to 3 wires in 1 splice
- CE approved



Thru-Splice

- Includes fine crimp height adjustment
- Full guarding with interlocks
- Total and batch counters
- Jog and split cycle operation
- CE approved

BOARD PROCESSING EQUIPMENT



TE Connectivity offers a wide range of discrete pin insertion and servo driven connector seating machines that mass terminate compliant pin connectors. So there's one that is perfectly suited for your product needs. And each model leverages the simple, field-proven, solder-free manufacturing offered by the entire TE product line.

Pin Insertion Machines (All pin insertion machines are CE approved and have a PCB and carrier capacity of 420 x 360 mm)



P100

- Manual to fully auto designs
- PCB and connector stitching applications
- Repeatability: ± 0.02 mm
- Bi-directional mode for carrier and PCB handling
- Insertion rate: 1.5 cycles/sec at 10 mm pitch
- Capable of double insertion mode



P300

- Manual to fully auto designs
- PCB applications
- Repeatability: ± 0.02 mm
- Insertion rate: 3 cycles/sec at 10 mm pitch
- Capable of triple insertion mode



P360

- Fully auto designs
- PCB and connector stitching applications
- Repeatability: ± 0.01 mm
- Insertion rate: 5 cycles/sec at 25 mm pitch
- Capable of triple insertion mode
- Bi-directional mode for carrier and PCB handling



P550

- Fully auto design
- PCB and connector stitching applications
- Repeatability: ± 0.01 mm
- Insertion rate up to 5 cycles/sec at 25 mm pitch
- Capable of triple insertion mode
- Bi-directional mode for carrier and PCB handling



C360

- Fully automated loose piece press for forces up to 5kN
- For connectors and various other applications
- Repeatability: ± 0.01 mm
- Insertion Rate: 1 insertion/second
- Bi-directional mode for carrier and PCB handling

Connector Seating Machines



CBP-5T MK II

- Servo electric press
- PCB capacity of 460 x 610 mm
- 44 kN press force
- CE approved



CSP MK II

- Shuttle system for product location under press ram
- Housing capacity of 75 x 150 mm
- Manual and pneumatic options
- CE approved



CMP-5T MK II

- 53 kN press force
- Board capacity of 610 x 915 mm
- Wide range of insertion heads available
- CE approved



CMP-10T MK II

- 107 kN press force
- Board capacity of 610 x 915 mm
- Wide range of insertion heads available
- CE approved



AP 3T/5T

- 44 kN press force
- Camera installed in press head for recording PCB SN
- CE approved

FLEXIBLE FLAT CABLE AND RIBBON CABLE EQUIPMENT



MARK II

- 15 kN crimp force
- 40 mm [1.56 in] press stroke
- Semi-automatic entry level machine
- Single crimp but fast crimping cycle: 3 contacts/sec
- High flexibility: applicators available for all FFC contacts



MARK IV

- Semi-automatic machine
- Easy to use
- Cycles per hour: 120-140
- 25 kN crimp force
- Vision system for part detection or cable color



FLEXIBLE FLAT CABLE (FFC) & FLEXIBLE PRINTED CIRCUIT CABLE (FPC) 300 TERMINATION SEMI AUTO

- Semi-automatic machine
- Nominal crimp speed: 3 stroke/sec
- Designed in order to be in compliance with automotive quality requirement
- Single crimp but fast cycle: 3 contacts/sec
- CE approved

TE Connectivity Technical Support Center

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TE Application Tooling Field Services

Your Resource for Expert Technical Support

TE Application Tooling is supported by a responsive organization of service engineers located conveniently across the globe to provide timely response to customer needs.

In addition to installation, warranty and repair service, TE Field Engineers can help with selection of the most appropriate equipment for your requirements: training of maintenance and operation personnel, troubleshooting assistance; and spare parts. Service contracts to cover all your application equipment are also available.

Connect With Us

Learn more about our comprehensive line of tooling solutions at tooling.te.com.

te.com

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1-1773864-6 04/24

APPLICATION TOOLING PRODUCT LINE CARD

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