TE APPLICATION TOOLING PRODUCT LINE CARD
A COMPLETE LINE OF QUALITY TOOLING SOLUTIONS
### MANUAL HAND TOOLS

<table>
<thead>
<tr>
<th>Premium</th>
<th>Commercial</th>
<th>Contractor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Premium Tools" /></td>
<td><img src="image2" alt="Commercial Tools" /></td>
<td><img src="image3" alt="Contractor Tools" /></td>
</tr>
</tbody>
</table>
| • Designed to exacting specifications  
• Requires minimum skill  
• Meets military, UL and CSA requirements as applicable | • Flexible standard die envelope design  
• Adjustable ratchet control system  
• Ergonomic design | • Wire & cable cutters and strippers  
• Ergonomic designs  
• Lightweight |

### POWERED ASSIST HAND TOOLS

<table>
<thead>
<tr>
<th>Battery</th>
<th>626 Pneumatic</th>
<th>Hydraulic</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Battery Tools" /></td>
<td><img src="image5" alt="626 Pneumatic Tools" /></td>
<td><img src="image6" alt="Hydraulic Tools" /></td>
</tr>
</tbody>
</table>
| • Lithium-Ion  
• Ergonomic design  
• Short charge times  
• Completely portable  
• 3,400 - 24,000 lb crimp force capability  
• Large range of die options | • Lightweight designs  
• Hand or foot operated  
• Ratcheted control  
• Rotating heads  
• Accepts SDE die sets | • 8,200 & 10,000 psi  
• Shank & U-dies  
• Heads, pumps & hoses  
• Among industry leaders in reliability |

### KITS & DIE SETS

<table>
<thead>
<tr>
<th>Insertion &amp; Extraction</th>
<th>Hand Tools</th>
<th>Standard Die Envelope</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Insertion &amp; Extraction" /></td>
<td><img src="image8" alt="Hand Tools" /></td>
<td><img src="image9" alt="Standard Die Envelope" /></td>
</tr>
</tbody>
</table>
| • Compatible with most manufacturers’ wiring harnesses  
• Tool kits & individual tools available | • Customizable kits  
• Includes sample terminals  
• Cost effective  
• Portable | • Over 100 interchangeable die sets  
• Portable from manual to battery to pneumatic tools |

### BENCH EQUIPMENT

<table>
<thead>
<tr>
<th>SDE Electric</th>
<th>AT-SC MK II Pneumatic</th>
<th>AT-66 Hydraulic</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image10" alt="SDE Electric" /></td>
<td><img src="image11" alt="AT-SC MK II Pneumatic" /></td>
<td><img src="image12" alt="AT-66 Hydraulic" /></td>
</tr>
</tbody>
</table>
| • Compatible with over 100 SDE die sets  
• Small footprint  
• Foot actuated | • Straight action machine  
• Pneumatic crimping  
• Safe, ergonomic design | • Programmable  
• Adaptive crimp force  
• Fast changeover times  
• Compact design |

### APPLICATORS

<table>
<thead>
<tr>
<th>OCEAN</th>
<th>SPARE TOOLING</th>
<th>QUALITY TOOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image13" alt="OCEAN" /></td>
<td><img src="image14" alt="Replacement Tooling" /></td>
<td><img src="image15" alt="CQM II" /></td>
</tr>
</tbody>
</table>
| • Mechanical, pneumatic and servo feed  
• One applicator platform - modular family design  
• Fine adjustment control | • Precision ground, chrome plated  
• Engineered for compliance to meet OEM specifications  
• UL Listed  
• CSA certified | • Real time crimp height measurement  
• Multiple analysis techniques for improved defect detection  
• Touch screen with intuitive interface  
• Networking capability |

### TERMINATORS

<table>
<thead>
<tr>
<th>3K and 5K</th>
<th>G II</th>
<th>Eye Check Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image16" alt="3K and 5K" /></td>
<td><img src="image17" alt="G II" /></td>
<td><img src="image18" alt="Eye Check Camera" /></td>
</tr>
</tbody>
</table>
| • Small footprint  
• Open architecture for design flexibility  
• Fast, quiet design  
• Optional stripping module available | • Improved lighting and safety features  
• Open architecture for design flexibility  
• Fast, quiet design  
• Optional stripping module available | • PC or CQM II compatible  
• Device to aid applicator feed setup and terminal alignment |
### WIRE PREP

**Cosmic 32M & 927R**
- Compact, lightweight, bench-top
- For most wire types
- Can be selected to twist clockwise/counterclockwise or non-twist
- Digital display for wire diameter

**Cosmic 48R & RX**
- Lightweight and portable
- Triple stepping motor motion system to process cable up to nine stages
- Versatile with all-around high precision

**Kappa 310 & 320**
- Compact, high-speed machine
- Can handle wire sizes from 0.02mm² to 6mm²
- Intuitive, flexible, and simple touch-screen operation

**Kappa 331**
- Built for processing round conductors
- Ability to process cables with a cross section of up to 35mm²
- Ideal for coaxial wire

### MAGNET WIRE

**APT 5A**
- Fast, efficient system, with no need to strip magnet wire insulation
- CQM II controlled
- CE approved
- Connects up to three wires in one splice

### WIRE MARKING

**Ink Jet & Hot Stamping**
- Easy operation with TopWin / TopNet
- Direct inline interface with most Komax machines

### INSULATION DISPLACEMENT

**SIM 25 & 50**
- Compact semi-automatic machine for small to medium volumes
- Applies TE RAST 2.5 and RAST 5 connectors used in the household appliance and automotive industries

**P50 & P100**
- Discrete pin insertion into PCB-board applications
- Manual and semi-automatic designs
- Simple operator interface
- Multiple quality tools available

### PIN INSERTION

**P300 & P350**
- Fully automatic design can process reeled press-fit and thru-hole components
- Ability to process boards up to 400 x 600 mm (15.5 x 23.5")
- Inline capability

### CONNECTOR PRESS FIT

**CBP 5T**
- Processes most compliant pin connector applications
- Press force capacity of 5 tons
- Small footprint for low to medium volume
- Ability to monitor and control force, distance and speed for every press cycle

**CSP 3T**
- Automatic shuttle system for fast, simple product presentation
- Full control and monitoring of force, distance and speed
- Improved process control due to fixturing of PCB connector

### FLAT FLEXIBLE CABLE

**FFC**
- Electrically driven semi-automatic assembly machine
- Provides quick change, interchangeable applicator design for different products
- Touch screen interface

**Belt Heaters**
- Closed-loop temperature and belt speed control
- Suitable for continuous running with minimum maintenance and downtime

### HEAT SHRINK

**RBK III**
- Semi-automatic unit
- Long life heating elements
- Compliant with latest CE and RoHs requirements

**Tunnel Ovens**
- Reliable, versatile design can handle a wide variety of heat-shrinkable products
- Can handle unlimited tubing lengths and large substrate diameters if run parallel to belt travel

### LEAD MAKERS

**UNIQA-PRO**
- Single ended wire processor
- 20% smaller footprint than traditional lead makers
- 4x faster throughput than standard wire prep and benchtop units

**Gamma**
- Equipped with up to three processing stations, enabling the crimping of both ends of the wire, double-crimp connections with three different contacts, single-ended seal applications, tinning, or ink-jet marking

**Alpha**
- Handles double-crimp connections involving varying lengths
- Dual channel cuthead allows for a large range of wire sizes without blade changes
Let's Connect
To learn more about our comprehensive line of tooling solutions, please visit us at www.tooling.te.com.

TE Technical Support Center
USA: 1.800.522.6752  UK: +44.0800.267666
Canada: 1.800.522.6752  France: +33.1.34.20.8686
Mexico: +52.55.11.06.0800  Netherlands: +31.73.624.6999
Latin/S. America +54.11.4733.2200  China: +86.400.820.6015
Germany: +49.6151.607.1999

Waste Not. Want Not.
Whether it’s time or scrap, in manufacturing everyone knows that waste costs money. With our on-site certification and consultation services, we can help you:
• Reduce downtime
• Reduce scrap
• Maintain crimp quality
• Improve manufacturing efficiency
Connect with us today to learn more.
• E-mail: fieldservicesnorthamerica@te.com
• Phone: 800-722-1111 or 717-986-3434
• For additional information download catalog #1-1307619-0 from www.tooling.te.com.

Time is Money.
In manufacturing downtime can be expensive. That’s why TE is constantly working to improve product availability and delivery rates. With a strong global footprint, short lead times and a strong distribution channel, TE has the equipment and the accessories to keep production online.

To check distributor stock and availability for your tooling needs go to: http://www.te.com/commerce/sck/cdi.do

In the interest of continuous improvement, TE reserves the right to modify, discontinue or replace any products.