

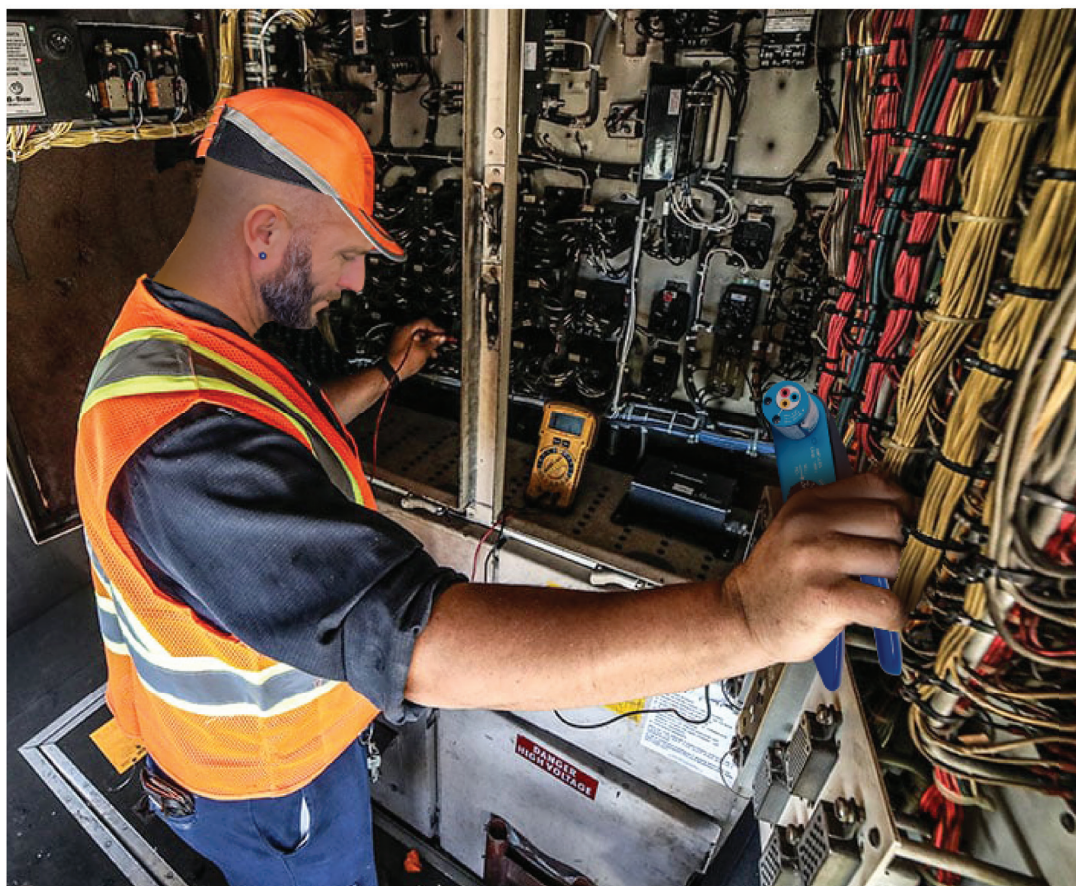


TRUSTED TOOLS FOR  
**RAIL**

# TOOLING FOR RAIL

Daniels Manufacturing Corporation® (DMC®) delivers cutting-edge tooling technology to meet the rigorous demands of mission-critical electrical systems. Since 1949, we have equipped the rail industry with a comprehensive range of tools designed for stripping, crimping, banding, connector assembly, and cable management.

DMC is backed by certifications and approvals from major industry organizations and is an AS9100D and ISO9001:2015 registered company. Our tools produce results that withstand the harshest environmental conditions to ensure continuous and reliable rail operations.



## COMMON APPLICATIONS

DMC has the tools you need for power distribution, signaling, and sensors in rail environments.



**Signaling and  
Control Systems**



**Locomotive**



**Rail Cars**



**Electric/High-Speed Rail**

# INDENT CRIMP TOOLS

DMC’s indent crimp tools are ideal for crimping miniature and subminiature pin and socket contacts. These tools are available in manual and pneumatic options. The high versatility and range of these tools facilitate the crimping process for harness shop teams and design engineers.

|                 | AF8® / AF8-ERGO™         | MH860® / MH860-ERGO     | AFM8® / AFM8-ERGO       |
|-----------------|--------------------------|-------------------------|-------------------------|
| AWG             | 26 - 12                  | 32-16                   | 32 - 20                 |
| MILITARY P/N    | M22520/1-01              | M22520/7-01             | M22520/2-01             |
| POSITIONER TYPE | TH or TP                 | 86                      | K                       |
| DIMENSIONS      | 9.8" L x 2.5" W x 1.1" H | 7.5" L x 2.4" W x .8" H | 7.5" L x 2.4" W x .8" H |
| PNEU. EQUIV.    | WA27F<br>M22520/29-01    | WA22P<br>M22520/49-01   | WA22<br>M22520/28-01    |

|                  | FT8                      | M309                   |
|------------------|--------------------------|------------------------|
| AWG              | 26-12                    | 18-8                   |
| MILITARY P/N     | N/A                      | N/A                    |
| POSITIONER TYPE  | TH or TP                 | TH or TP               |
| DIMENSIONS       | 9.8" L x 2.5" W x 1.1" H | 9.8" L x 2.6" W x 1" H |
| PNEUMATIC EQUIV. | WA27E                    | WA27-309               |



# LARGE GAUGE CRIMP TOOLS

## 23 SERIES

The 23 series tools are designed to produce an indent crimp on large gauge machined contacts and uninsulated terminals/lugs. These tools accept interchangeable AS22520/23 dies and locaters to accommodate heavy duty and high voltage cables from 8-4/0 AWG.

|              | HDE23C                   | WA23B®                 | HD23                  |
|--------------|--------------------------|------------------------|-----------------------|
| MILITARY P/N | N/A                      | M22520/23-01           | M22520/48-01          |
| POWER TYPE   | Battery                  | Pneumatic              | Manual Hydraulic      |
| DIMENSIONS   | 17.9" L x 4" W x 13.3" H | 17" L x 3.7" W x 10" H | 23" L x 4" W x 5.8" H |
| WEIGHT       | 13.3 lbs.                | 16.3 lbs.              | 13.8 lbs.             |



## 136 SERIES

The 136 series tools are dieless crimp tools that are suitable for crimping large gauge terminals and splices from 8 AWG to 750 MCM.

|            | HCE136C                  | XHC136                    | HC136                   |
|------------|--------------------------|---------------------------|-------------------------|
| POWER TYPE | Battery                  | Remote Hydraulic          | Manual Hydraulic        |
| DIMENSIONS | 15.5" L x 3" W x 13.5" H | 13.3" L x 2.5" W x 5.4" H | 21" L x 2.3" W x 5.4" H |
| WEIGHT     | 11.6 lbs.                | 8.5 lbs.                  | 13 lbs.                 |



# FORM CRIMP TOOLS

These form crimp tools utilize interchangeable dies to produce hexagonal, circular, square, nest and indent, b crimp, and captive crimps on stamped and formed contacts, insulated/uninsulated terminals, shield crimps, and splices.

## SMALL FRAME



26 to 10 AWG

|              | HX4®                  | HXE4C                     | EMC3300                  |
|--------------|-----------------------|---------------------------|--------------------------|
| MILITARY P/N | M22520/5-01           | N/A                       | N/A                      |
| POWER TYPE   | Manual                | Battery                   | Electromechanical        |
| DIE TYPE     | Y Dies                | Y Dies                    | EMC Dies                 |
| DIMENSIONS   | 11" L x 2" W x 0.9" H | 4.5" L x 2.9" W x 15.7" H | 9.9" L x 2.5" W x 3.6" H |



## 36 SERIES



8 to 0 AWG

|            | HDE36C                   | HD36                   |
|------------|--------------------------|------------------------|
| POWER TYPE | Battery                  | Manual Hydraulic       |
| DIE TYPE   | HD36 Dies                | HD36 Dies              |
| DIMENSIONS | 14.4" L x 4.4" W x 2.9"H | 8.5" L x 2.3" W x 7" H |



## 51 SERIES



8 to 2/0 AWG

|              | HDE51C                                    | XHD51                                     | HD51                                      |
|--------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| MILITARY P/N | M5259/8-01                                | M5259/4-01                                | M5259/5-01                                |
| POWER TYPE   | Battery                                   | Remote Hydraulic                          | Manual Hydraulic                          |
| DIE TYPE     | HD51 Dies<br><i>Qualified to AS5259/7</i> | HD51 Dies<br><i>Qualified to AS5259/7</i> | HD51 Dies<br><i>Qualified to AS5259/7</i> |
| DIMENSIONS   | 15.4" L x 2.9" W x 4.6" H                 | 9" L x 2" W x 2.8" H                      | 14" L x 2" W x 5" H                       |



# TWIST-STRIP®

## TWIST-STRIP®

Twist-Strip® outer jacket wire stripper is meticulously engineered to simplify the challenges posed by traditional methods of stripping twisted shielded cables. This innovative tool features a low-friction ball bearing and articulating arms, specifically designed to handle the unique characteristics of twisted cables with 1-4 conductors.



|                            | TSK8000         | TSK8500         |
|----------------------------|-----------------|-----------------|
| CABLE OUTER DIAMETER RANGE | 0.081" - 0.180" | 0.180" - 0.310" |
| MILITARY P/N               | M32610/01-01    | -               |
| DIMENSIONS                 | 1.6" W x 8.8" H | 1.7" W x 9.4" H |



**ACCESS THE TWIST-STRIP BROCHURE**  
Scan for more information

# LACELOK®

## LACELOK®

LaceLok® cable lacing fasteners were designed to replace cable ties and hand-tied lacing tape for secondary support of wire harnesses. The LaceLok system provides an ergonomic and consistent solution with unrivaled strength and superior performance.



| STARTER KIT      | DMC2300-10NA1 |
|------------------|---------------|
| APPLICATION TOOL | DLT-1100      |
| LACELOK*         | LF2-10NA1     |

*\*Visit our website for additional LaceLok colors and lengths*

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# CONNECTOR ASSEMBLY

## BANDING TOOLS

Seamlessly tension, secure, and cut stamped EMI bands with our one-step banding tools. These tools are designed with a tension-lock system that indicates when the correct amount of tension has been applied. DMC also offers two-step banding tools designed to terminated welded bands.

|                        | DBS-2100        | DBS-2200        |
|------------------------|-----------------|-----------------|
| <b>TENSION RANGE</b>   | 145 - 155 lbf   | 75 - 85 lbf     |
| <b>BAND WIDTH</b>      | 0.250"          | 0.125"          |
| <b>COILED BAND P/N</b> | DBS-128-4       | DBS-128-8       |
| <b>FLAT BAND P/N</b>   | DBS-128-7       | DBS-128-7       |
| <b>DIMENSIONS</b>      | 6.8" W x 6.7" H | 6.8" W x 6.7" H |



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## INSERTION AND REMOVAL TOOLS

DMC provides insertion and removal tools to aid in the installation and extraction of contacts. Multiple styles are available to accommodate front and rear release connectors.

**DMC1155**  
General Purpose Insertion  
and Removal Tool Kit



## ADAPTERS

Adapters maintain the integrity of connectors by securely holding connectors stationary during installation or removal.



## STRAP WRENCHES

Strap wrenches are used to tighten or torque connector components while working in assembly. Strap wrenches apply a uniform grip around connectors that protects them from high pressure damage.



## JAM NUT SOCKETS

Jam nut sockets play a fundamental role in securing jam nut receptacle connectors onto crowded cabinets, panels, or bulkheads. They typically feature a slim profile and deep well that allows them to fit snugly over jam nut connectors without interfering with surrounding components.



## TORQUE WRENCHES

DMC's torque wrenches feature a chrome-plated body, digital display, lights, and audible signal to indicate if a connector has been sufficiently torqued.



## SOFT JAW PLIERS

DMC's soft jaw pliers are ergonomic and feature a self-limiting adjustable handle that increases the grip size. They can be used as cannon plug pliers to tighten connectors together or as a holding tool.



## ASSEMBLY VISE

DMC's assembly vise firmly holds components in place for torquing and tightening connector backshells. Interchangeable jaws accommodate connectors with diameters of  $\frac{3}{8}$ " - 3".



# SAFE-T-CABLE®



Safe-T-Cable® installs 3 times faster than lockwire and produces a stronger and more reliable result. The user-friendly tooling guarantees a smooth installation which greatly reduces the risk of abrasions, repetitive motion injuries, and Foreign Object Debris (FOD).

Safe-T-Cable is available in .022", .032", .040", and .062" diameters and several lengths ranging from 9"- 24".



SCTR323

## ADJUSTABLE TENSION MANUAL TOOL SERIES

The most popular manual Safe-T-Cable tool is the adjustable tension tool (SCTR). The rotary tension mechanism on this tool can be adjusted to your precise cable tension requirements.



SCTE625C

SCTE323C

## BATTERY-POWERED TOOL

Our battery-powered Safe-T-Cable tools are adjustable tension tools that make crimping cable easier and faster. New features allow the operator to track tool performance, users, and projects. Crimp data is viewable in real-time on the LED display, or can be downloaded via Bluetooth® to an app.

## PNEUMATIC TOOL

Pneumatic Safe-T-Cable tools are ideal for high production environments and are available in adjustable tension and pre-set tension options.



SCTP327

SCTPRM403



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# TOOL KITS

DMC has built electrical wiring interconnect system (EWIS) maintenance tool kits for over 50 years. Each kit is thoroughly researched to include the necessary tools to prepare, terminate, install, and remove wires.

Our kits are available in multiple configurations including hand-carry kits, trolley cases, and roll-around cabinets. We offer a variety of pre-assembled kits for platform-specific, connector-specific, and general purpose needs, as well as custom kits tailored to your unique application. The tool kit featured below is a popular choice among rail professionals due to its broad coverage.

| CONNECTOR COVERAGE |                                 |
|--------------------|---------------------------------|
| AMP                | "NICC" ARINC600                 |
| ITT Cannon         | "BKAD/BKAE" ARINC600            |
| Radiall            | "NSX" ARINC600                  |
| Souriau            | "S600" ARINC600                 |
| SAE-AS7928         | Insulated/Uninsulated Terminals |
| SAE-AS50151        | 3450 Series                     |
| SAE-AS81824        | Environmental Splices           |
| MIL-DTL-26482      | Series 1, 2                     |
| MIL-DTL-28748      | Rack & Panel                    |
| MIL-DTL-24308      | Miniature Rack & Panel          |
| MIL-DTL-38999      | Series 1, 2, 3, 4               |
| MIL-DTL-83723      | Series 3                        |

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| 1        | Universal Turret Head           |
| 5        | Positioners                     |
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| 4        | Metal Removal Tools             |
| 44       | Plastic Insertion/Removal Tools |
| 1        | Hex Wrench                      |
| 1        | Multi-Purpose Electrical Tool   |



**DMC1149 SALES LITERATURE**  
General Purpose Maintenance Kit  
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