



TRUSTED TOOLS FOR
**ADVANCED
AIR MOBILITY**

POWERING THE FUTURE

Daniels Manufacturing Corporation® has expertly designed qualified tooling for aerospace platforms for over 75 years. Our deep understanding of the aerospace industry enables us to address the evolving needs of AAM aircraft innovators. We supply reliable tooling that is designed for manufacturers seeking precision, innovation, and the ability to bring bold concepts to life.

DMC tools are backed by certifications and approvals from major aerospace organizations such as SAE International, the International Organization for Standardization, and the Department of Defense. DMC is proud to be a QPL authorized supplier that is registered with AS9100D and ISO9001:2015.

AAM Platforms Serviceable by DMC Tooling

Technicians can service the electrical power systems of multiple AAM platform types using DMC tooling. These platforms include:

- eVTOL
- hVTOL
- eSTOL
- Additional UAV platforms



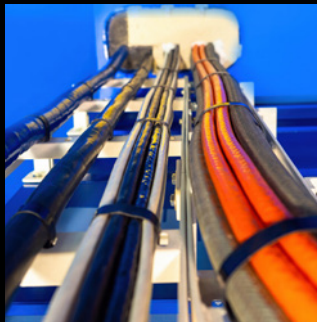
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COMMON APPLICATIONS

DMC tools can be used in various phases of production including prototyping and electrical systems testing. Below is a small sample of common AAM applications in which DMC tooling can offer increased efficiency and reliability.



Avionics



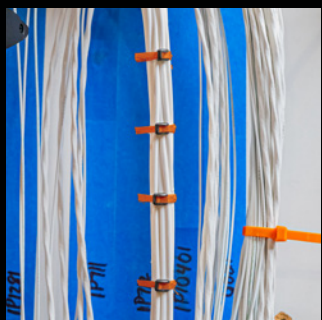
Power Distribution



Sensors



Actuators



Cable Management



**Connector and Wire
Harness Assembly**

INDENT CRIMP TOOLS

DMC indent crimp tools crimp machined contacts with unparalleled precision compared to other alternatives. The following tools are compatible with contacts commonly found in avionics, sensors, and infotainment systems. The high versatility and range of these tools streamlines the crimping process for harness manufacturers and design engineers.

AF8[®]

Upper Range 8-Indent Crimp Tool

AWG	26 - 12
MILITARY P/N	M22520/1-01
POSITIONER TYPE	TH or TP
DIMENSIONS	9.8" x 2.5" x 1.1"
PNEUMATIC EQUIV.	WA27F



MH860[®]

Middle Range 8-Indent Crimp Tool

AWG	28 - 16
MILITARY P/N	M22520/7-01
POSITIONER TYPE	86-Type
DIMENSIONS	7.5" x 2.4" x .8"
PNEUMATIC EQUIV.	WA22P



MH992

8-Indent Micro-Crimp Tool for Coax Inner Contacts

AWG	32 - 20
MILITARY P/N	-
POSITIONER TYPE	92-Type
DIMENSIONS	7.5" x 2" x .8"
PNEUMATIC EQUIV.	WA22AE



LARGE GAUGE CRIMP TOOLS

23 SERIES CRIMP TOOLS

The 23 Series tooling is designed to produce a 8-indent crimp on large gauge machined contacts and uninsulated terminals/lugs commonly seen in high-voltage applications. These tools cover a wire range of 8 to 4/0 AWG and are available in pneumatic, manual hydraulic, or battery power types.

NEW



WA23B

MILITARY P/N	Pending
POWER TYPE	Pneumatic
DIMENSIONS	15.2" x 7.3" x 9.8"
WEIGHT	16.3 lbs



WA23®

MILITARY P/N	M22520/23-01
POWER TYPE	Pneumatic
DIMENSIONS	17" x 7.3" x 10"
WEIGHT	20.1 lbs



HD23

MILITARY P/N	M22520/48-01
POWER TYPE	Manual Hydraulic
DIMENSIONS	23" x 4" x 5.8"
WEIGHT	13.8 lbs



HDE23C

MILITARY P/N	-
POWER TYPE	Battery Hydraulic
DIMENSIONS	17.9" x 4" x 13.3"
WEIGHT	13.3 lbs

FORM CRIMP TOOLS

DMC form crimp tools can be paired with hundreds of interchangeable die sets that can crimp outer RF contact ferrules, ferrules, coax connectors, stamped and formed contacts, and terminals. These tools have the ability to terminate AS81824 splices commonly used in AAM applications. Each crimp tool provides a high-quality crimp that maintains the electrical integrity of your platform's power distribution and control systems. Powered equivalents streamline the crimping process by providing a mechanical advantage and accommodate interchangeable Y dies compatible with the HX4 series tools.

HX4 SERIES



26 to 10 AWG



	HX3	HX4®	HXE4C	HX33	HX23
MILITARY P/N	M22520/10-01	M22520/5-01	-	-	-
POWER TYPE	Manual	Manual	Battery	Pneumatic	Pneumatic
DIE TYPE	X Dies	Y Dies	Y Dies	Y Dies	Y Dies
DIMENSIONS	9" x 1.5" x 0.8"	11" x 2" x 0.9"	4.5" x 2.9" x 15.7"	11.8" x 4.9" x 10.2"	16" x 6" x 4"
WEIGHT	11 oz	1.3 lbs	3.9 lbs	32 lbs	18.5 lbs

51 SERIES CRIMP TOOLS

The 51 series tools are form crimp tools that provide 6 tons of crimping force using HD51 dies. These tools have the ability to crimp insulated and uninsulated terminals onto copper and aluminum cables. All 51 series tools can accommodate wire ranges of 8 to 2/0 AWG and are equipped with a 340° rotating head that enhances maneuverability. Dies are sold separately.



	HD51	XHD51	HDE51C
MILITARY P/N	M5259/5-01*	M5259/4-01*	M5259/8-01*
POWER TYPE	Manual Hydraulic	Remote Hydraulic	Battery
DIMENSIONS	14" x 2" x 5"	9" x 2" x 2.8"	15.4" x 2.9" x 4.6"

*QPL Pending

GENERAL MAINTENANCE (GMT) CRIMP TOOLS

DMC's GMT tools are manufactured to OEM or connector supplier specifications and are well-suited for a variety of applications. Each GMT tool features a fixed jaw that is designed for crimping specific components such as stamped and formed contacts, insulated and uninsulated terminals, splices, end caps, and coaxial connectors. These tools are ideal for crimping environmental contacts and splices. They are also available in pneumatic and battery-powered options.



GMT232

MILITARY P/N	M22520/37-01
APPLICATION	M81824 Environmental Splices
DIMENSIONS	8.8" x 2.3" x .9"
WEIGHT	1.2 lbs

NSN: 5120-01-120-8721, 5120-01-361-9615



GMT1005

APPLICATION	Stamped / Formed Solistrand Uninsulated Terminals
DIMENSIONS	8.4" x 2.5" x .5"
WEIGHT	12.8 oz

EMC3300

DMC engineered the EMC3300 to precisely crimp stamped and formed contacts, terminals, and splices onto copper and aluminum wire. This lightweight electromechanical crimp tool offers an ergonomic advantage with its single trigger design and pre-clamp function. The EMC3300 has interchangeable die sets and accommodates some die sets supplied by connector sources.



EMC3300

POWER TYPE	Electromechanical
AWG	26 - 10
DIE TYPE	EMC Dies
DIMENSIONS	9.9" x 2.5" x 3.6"
WEIGHT	2.2 lbs

SECONDARY HARNESS SUPPORT FOR WIRE HARNESSES

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

LaceLok is made of aerospace-grade materials and features a small, rounded fastener and meta-aramid fiber lace that can come in various colors and lengths. This combination of materials provides superior resistance to fuel, chemicals, abrasion, and extreme operating temperatures. It perfectly accommodates pressure sensitive components and can create breakouts in a method similar to cable-ties or hand-tied lace. Operators can use a multi-wrap configuration around the wire harness to increase tensile strength up to 165 lbs.

IMPROVE YOUR CAPABILITIES

The DLT-1100 LaceLok installation tool applies 20 lbs (+/- 2 lbs) of tension to consistently produce reliable lace terminations. It also reduces operator fatigue and repetitive motion injuries common with other secondary support methods.



DLT-1100
LaceLok Installation Tool

The DMC2300-10NA1 is a starter kit that provides all the necessary items to properly install LaceLok. It includes an installation tool, guarded cutters, a replacement blade, and 100 pieces of LaceLok (LF2-10NA1).



DMC2300-10NA1
LaceLok Starter Kit



ACCESS THE LACELOK BROCHURE
Scan for more information

BANDING TOOLS

BANDING TOOLS

DMC banding tools streamline connector assembly procedures involving EMI/RFI bands. A secure band termination ensures the underlying harness is protected from electromagnetic interference and damage. DMC's one-step banding tools are designed with a tension-lock system that seamlessly tensions, locks, and cuts the band 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
TENSION RANGE	145 - 155 lbf	75 - 85 lbf
BAND WIDTH	0.250"	0.125"
COILED BAND P/N	DBS-128-4	DBS-128-8
FLAT BAND P/N	DBS-128-3	DBS-128-7
DIMENSIONS	6.8" x 6.7"	6.8" x 6.7"



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SAFE-T-CABLE®



Safe-T-Cable® installs 3 times faster than lockwire and produces a stronger and more reliable result. The user-friendly tool guarantees a consistent and smooth installation which greatly reduces the risk of injury. Safe-T-Cable also reduces 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

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.

SCTE323C



PNEUMATIC TOOL

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



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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 found in avionics and interconnect control systems. Our kits are available in multiple configurations including hand-carry kits, trolley cases, or roll-around cabinets. DMC offers a variety of pre-assembled kits for environmental connectors (EB) and general-purpose needs. Contact DMC for custom kits that can be tailored to the unique needs of your AAM platform.



DMC1149 SALES LITERATURE

General Purpose Maintenance Kit
Scan for Kit Contents



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