

- ✓ **SUPERIOR DESIGN**
- ✓ **FASTEST, SAFEST  
INSTALLATION METHOD**

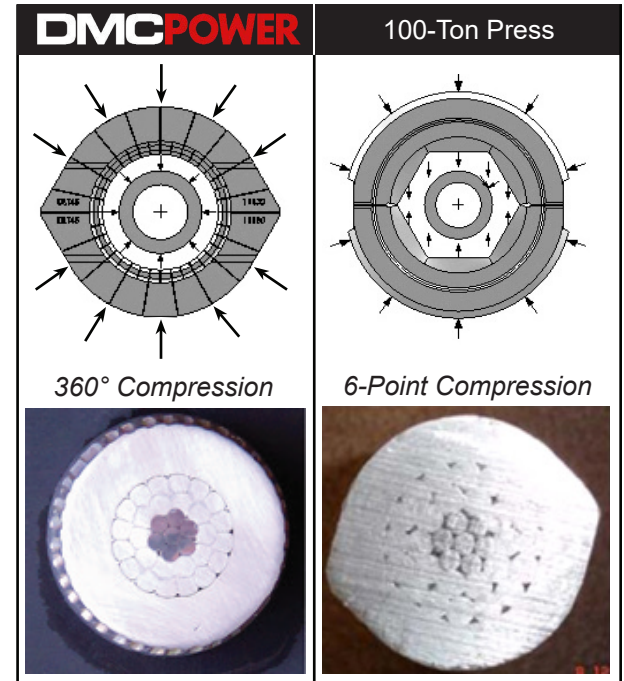
- ✓ **TOP QUALITY MATERIALS**
- ✓ **TESTED AND CERTIFIED**

## Superior Design

Matching the proven CTC Global Housing & Collet System for mechanical holding strength and the DMC Power Swage System for Electrical Performance provides the Most Technologically Advanced Connector System for ACCC®.

DMC Power's Swage System offers more than twice the compression ratio than traditional 100-Ton presses! This is a result of our unique 360° Flex Die Technology which distributes forces evenly around the entire diameter of the Connector barrel.

**GREATER COMPRESSION =**  
**MORE ELECTRICAL CONTACT SPOTS**  
**LOWER RESISTANCE**  
**LOWER TEMPERATURES**



## Top Quality Materials

Unlike other global suppliers that use 6000 series alloy for ACCC® fittings, DMC Power has chosen the purest aluminum alloy available in a compressible form 1100-H12.

### DMCPower COMPETITOR

Aluminum Alloy	1100 Series	6000 Series
Conductivity (IACS%)	57%	40%
Manufacturing Process	CNC Machine Drilled	Extruded

**CTC GLOBAL  
ACCC® CONDUCTOR**



## Fastest, Safest Installation Method

The DMC Power 360° Swage System applies force to the entire circumference of the Connector barrel, eliminating the need for a 100-Ton press head! The DMC Power Connectors used for the ACCC® size Grosbeak and below can be installed with our 45-Ton Swage Tool. ACCC® sizes greater than Grosbeak are installed with our larger diameter and easily maneuverable 58-Ton Swage Tool.

Shown below in operation, the DLT45 is lightweight, safe, easy to use, and similar to its DLT58 counterpart, requiring only one die. Together, they cover the complete line of ACCC® Conductor sizes.

### DMCPower COMPETITOR

Grosbeak & Below	DLT45 45 Ton (27 lbs / 12 kg)	100 Ton (100 lbs / 45 kg)
Grosbeak & Above	DLT58 58 Ton (38 lbs / 18 kg)	



## Tested and Certified

### Runs Cooler, Longer

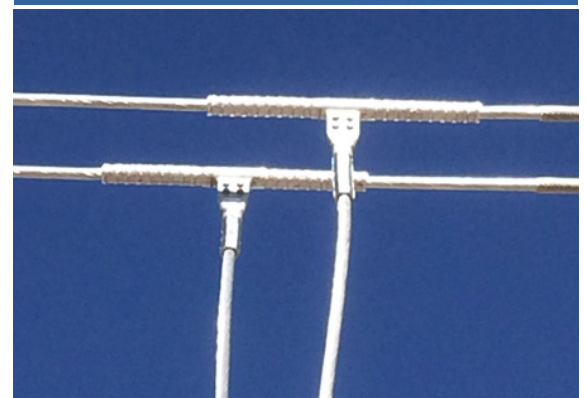
DMC Power barrel diameters, 2.00" with Grosbeak and 2.50" with Lapwing, were tested to IEC 61284 and met the acceptance criterion for both mechanical and current cycle test.

During ANSI C119.4 type testing, DMC Power's line of ACCC® & ACSS Deadends and Splices showed superior resistance stability on all samples through 500 thermal cycles at 250°C - 285°C above room temperature. Additional extreme temperature cycling to 325°C was performed for 280 more cycles with all samples averaging 50% cooler than the control and the post-aging tensile load yielding 104% RBS.

### Thermal Mechanical Testing

The DMC Power line of High Temperature ACCC® & ACSS Deadends and Splices have been independently tested to the rigorous international standards of CIGRE TB426. Test samples were subjected to 500 current cycles at 250°C with 25% RBS constant tension including five separate sustained holds at 70% RBS for 24 hours. All DMC Power Connectors passed easily with the post-aging tensioned conductor breaking at a remarkable 103% RBS.

Based on the results of these tests, CTC Global has qualified DMC Power as a Supplier of Partial Tension fittings for Substation applications where ACCC® is fast becoming the Conductor of choice for High Operating Temperature Strain Bus applications. DMC Power exceeds all test types necessary to meet CTC Global's qualification for Full Tension Transmission applications and positioned to supply products for all upcoming projects.



Transelec Enquantro Substation, Maria Elena Chile



## DMC Power offers an optimized design for *Distribution DeadEnd Applications*

As with all Distribution components, economies of scale are realized early, given the total volume of components in 33kV circuits. To achieve these efficiencies, we specifically designed the Connector barrel material to match individual ACCC® Conductor strength and ampacity while assuring each design exceeds the stringent requirements of IEC 61284, both mechanically and electrically.

Utilizing an optimized CTC Global Collet & Housing Design and our proven 360° DMC Power Swage System, the highest quality Connection is assured. In addition, it takes seconds to install each Connector, which translates into significant time savings. Finally, all ACCC® Distribution Conductor sizes are installed with DMC Power's lightweight DLT45 Swage Tool. Ergonomically designed and only 27lbs/12kg, it is ideal for a single operator, especially while climbing. When compared to legacy 60-Ton presses, which require two operators, the cost of installation can be cut in half!

### DMCPower

Aluminum Alloy	6000 Series
Conductivity (IACS%)	56%
Manufacturing Process	Extruded

### CTC GLOBAL ACCC® CONDUCTOR



### DMCPower COMPETITOR

Grosbeak & Below	DLT45 45 Ton (27 lbs / 12 kg)	60 Ton (64 lbs / 29 kg)
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**SAFETY+RELIABILITY+TIME/LABOR SAVINGS =  
LOWER OVERALL OWNERSHIP COSTS!**

Legacy  
MIG Weld



DMC Power  
TIG Weld

### 6 SWAGES VS 14 HEX DIE COMPRESSIONS



Hex Die  
(10% Compression)



DMC Power  
Swage Die  
(20% Compression)

**DMC Power's 360° Swage System requires fewer compression cycles with no need to rotate the Tool for Fast Installations that never bow the fittings.**