



# Continental/Midland, LLC

FASTENERS FOR INDUSTRY



# CONTINENTAL / MIDLAND

## Fasteners for Every Manufacturing Application

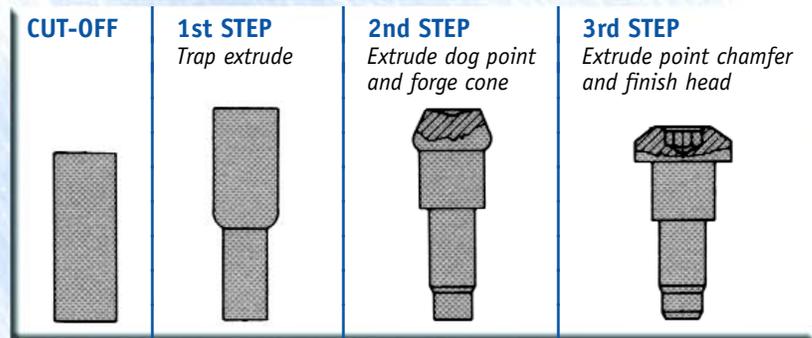
- Automotive
- Commercial Metal Builders
- Electric Motors
- Electronic and Computer
- Gasoline Engines
- Household Appliances
- Hydraulic Pumps
- Lawn and Garden
- Outboard Marine Engines
- Power Tools
- Pumps
- Refrigeration Compressors
- Specialty Truck Body Builders
- Telecommunications
- Truck and Truck Trailers

## State-of-the-Art Process

### Co-Form® 3-Die Progressive Precision Extrusions

The Co-Form 3-Die Process provides, an efficient, cost-effective method of manufacturing a wide variety of threaded and non-threaded parts allowing significant savings on high-volume production.

Work hardened parts with unbroken grain flow are stronger than screw machined parts, powder metal or die-cast parts.



3-Die, Multi-Station Cold-Forming

### Patented Trilobular Design...The Superior Shape in Thread Form

All proprietary thread-forming fasteners manufactured by Continental/Midland incorporate a three-lobed thread form. In addition to reducing chips, burrs and eliminating tapping costs, this unique trilobular thread-rolling configuration has outstanding performance characteristics.

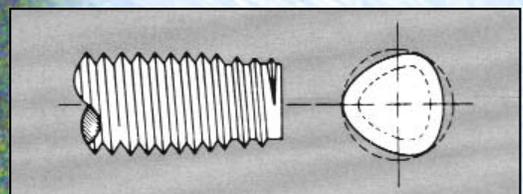
The trilobular thread-rolling screws and bolts for ductile metals and castings roll-form high integrity mating threads, producing a far more precise fit than is possible with conventional machine screws.

In both metal and plastic applications, nut material fills in behind the lobes (cold flow) assuring exceptional holding power and easy working drive-to-strip ratio.

In contrast to round bodied screws, trilobular radial relief reduces drive torque and makes deeper thread engagements practical, further increasing holding strength.

Continental/Midland's screws for plastics combine basic trilobular thread design with variations in thread spacing and thread profile to enhance holding power and reduce boss-bursting tendencies through the entire range of thermo-plastics, engineering grades and in some thermosets.

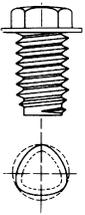
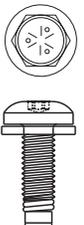
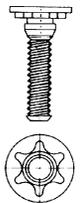
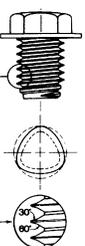
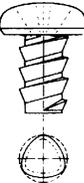
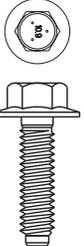
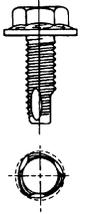
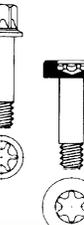
The Trilobular thread design is also incorporated in the Pushtite II® "press in" type thread forming fasteners. All Continental/Midland screws are made to recognized standards, including SAE, IFI, automotive, and customer specifications.



# Fasteners For Every Application

## TRILOBULAR FASTENERS METALS AND PLASTICS

## SPECIALTY AND STANDARDS

Fastener	Size Range	Application	Fastener	Size Range	Application	Fastener	Size Range	Application
<b>Taptite® 2000™</b> 	<b>Diameters:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4" to 4-3/4"	All ductile metals, die castings and punch extruded metals, with Radius Profile™ thread design.	<b>Plastite®</b> 	<b>Diameters:</b> #8-16 through 5/16-9 (M4-M8)  <b>Lengths:</b> 1/4" to 4-3/4"	Most thermoplastics including the engineering grades and structural foams.	<b>MAThreads®</b> 	<b>Screw Sizes:</b> #8-32 through 9/16-18 (M4-M16)  <b>Lengths:</b> 1/4" to 7-1/2"	Anti cross-threading feature designed to eliminate cross-threading during assembly.
<b>Taptite® II</b> 	<b>Diameters:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4"-4-3/4"	All ductile metals, die castings and punch extruded metals.	<b>Plastite® 48-2</b> 	<b>Diameters:</b> #8-16 through 5/16-9 (M4-M8)  <b>Lengths:</b> 1/4" to 4-3/4"	Resilient thermoplastics, including styrenics and fluoropolymers, many engineering grades and structural foams. For use when the higher torque values are preferred.	<b>Strux® Clinch Studs</b> 	<b>Screw Sizes:</b> #10-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4" to 3"	Positive rotation-resistant staking in many types of metal assemblies.
<b>Duo-Taptite®</b> 	<b>Diameters:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4" to 4-3/4"	All ductile metals, die castings and punch extruded metals.	<b>Plastite® 45</b> 	<b>Diameters:</b> #8-11 through 3/8-7 (M4-M8)  <b>Lengths:</b> 1/4" to 4-3/4"	Less compressible plastics such as cellulosic thermoplastics, engineering resins and certain thermosets. In cases where length of engagement is one diameter or more.	<b>Sems</b> 	<b>Screw Sizes:</b> #8-32 through 9/16-18 (M4-M16)  <b>Lengths:</b> 1/4" to 6"	For use with all standard screw styles. As external or internal tooth, or comb. ext./int. teeth, flat washers, Belleville conical, domed, helical spring or countersunk. Certain washers are available in stainless steel or in plastic or Neoprene.
<b>Powerlok®</b> 	<b>Diameters:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4" to 4-3/4"	All pre-tapped metal nuts, die castings and punch extruded assemblies where reliable, self-locking fasteners are required under conditions of severe vibration or high clamp load.	<b>Pushtite II®</b> 	<b>Diameters:</b> #8-14 through 1/4-9  <b>Lengths:</b> 1/4" to 4-3/4"	The resilient thermoplastics and several engineering grades. Component and boss design should allow for the stroke force.	<b>Standards</b> 	<b>Screw Sizes:</b> #8-32 through 9/16-18 (M4-M16)  <b>Lengths:</b> 1/4" to 7-3/4"	Machine screws, tapping screws, hex heads and flange bolts.
<b>Kleertite™</b> 	<b>Diameters:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 3/8" to 2"	For untapped holes. Thread clearing and forming. Thread locking trilobular fasteners clear holes contaminated with weld splatter, paint or other foreign matter.	<b>Step Taper® CA Point</b> 	<b>Screw Sizes:</b> #8-32 through 7/16-20 (M4-M12)  <b>Lengths:</b> 1/4" to 4"	For extremely rapid hole finding: for applications with floating nut members; where clearance and pilot holes are initially out of line; or where a sheet of material (gasket, carpet) must be pierced.	<b>TorxPlus® &amp; Torx® Autosert™ Drive Systems</b> 		Structural fastening sites required recessed or confined or confined drivers.

# A TRADITION OF WORLD CLASS PERFORMANCE



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Certified to  
QS 9000 and ISO 14001.

# OVER 175 YEARS of Fastener Experience

• Co-Form®, Powerlok®, Taptite® 2000™, Taptite® II, Plastite®, Plastite® 48-2, Plastite® 45, Plastite® 60-1, Duo-Taptite®, Pushrite II® and Kleertite™ are registered trademarks of Research Engineering & Manufacturing Inc.  
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