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Worldwide Experience in Assembly Solutions

In our challenging global economy, effective support from suppliers is more vital than ever. Acument Global Technologies is poised to be your fully-integrated partner in every stage of the product cycle.

Global Supply

Acument Global Technologies is the global leader in providing fastening solutions to manufacturers around the world.

Broad Manufacturing Capabilities

We have a broad range of manufacturing capabilities available in the fastening industry. From threaded fasteners to cold-formed components and engineered assemblies, we are a leader in fastener manufacturing technology.

Focused on Your Needs

Acument Global Technologies works closely with major manufacturers to provide fastening and assembly solutions for new product designs. The integration of sales and application engineering meets the increasing need for specific solutions.

Engineered Solutions

Acument Global Technologies application engineers have the know-how and equipment to uncover the optimal solution for your application. Design assistance and thorough testing allow you to choose the optimal fastening technology for your unique requirements.

Engineering Services

Acument Global Technologies offers a full range of services to speed your design-to-market process without compromising quality and reliability.

- Design and applications assistance
- Metallurgical laboratory
- Product teardowns
- Product samples and prototypes
- Fastener engineering and testing laboratory
- Fastening technical education

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Capabilities

Acument™ Global Technologies offers an extensive array of cold formed, threaded fasteners to meet the needs of today’s demanding applications.

Sems Fasteners
Many fasteners are available as assemblies with captivated washers, collars, specialized stampings or other components.
• Eliminates hand assembly of washers and other components
• Increases productivity
• Assures proper washer to fastener match
• Simplifies purchasing and inventory control
• Eliminates lost, dropped or forgotten components

Engineered assemblies, which combine components into one subassembly, are also available.

Quality Cold Formed Components
Through state-of-the-art technology, unsurpassed expertise and strict attention to detail, our cold forming capabilities offer solutions that reduce costs, enhance quality and improve productivity.

Features
• Unique and diverse shapes, including parts with multiple diameters, extrusions, blind hold and through holes
• Large head-to-shank ratios possible
• Eccentric or asymmetrical bodies possible
• Parts can be formed to net or near-net shape, which requires fewer secondary operations to achieve the final shape

Benefits
• Improved strength and reliability through work hardening and an uninterrupted grain flow
• Improved surface finish over screw-machined components
• Reduced scrap rates
• High production rates
• Multi-piece components can be manufactured as a single component
• Increased strength and lowered costs over screw machined components
Available Materials
Low carbon steel: 1005, 1008, 1010, 1018, 1022
Medium carbon steel: 1030, 1035, 1038, 1040, 1045, 1050
Alloy steel: 1541, 4037, 4130, 4140, 4340, 8620, 8640, 8740
Tool steel: 52100, M2
Copper: CDA102, ETP110
Brass: CDA220, CDA230, CDA260, CDA270
Bronze: Silicon, Commercial
Aluminum: 2017, 2024, 6061, 5056
Titanium:
Other materials may be available. Please contact your Acument Global Technologies representative for details.

Available Heat Treat
Several types of heat treatment are available to meet desired hardness, strength and ductility characteristics, including:
• Through hardening
• Case hardening
• Annealing
• Selective hardening/selective induction
• Carbonnitriding

Platings
Acument Global Technologies has a wide array of platings available to meet your specific requirements for corrosion resistance, lubricity and appearance.

Size Ranges
Diameters: 1.27mm to 41mm (.020” to 1.6”)
Lengths: 355mm (14”) under head with diameters up to 22mm (.875”)

Actual sizes are dependant on the complexity and material of the component. Please contact an Acument Global Technologies applications engineer for assistance.

Secondary Operations
• roll forming
• roll threading
• grinding
• reheading
• burnishing
• drilling
• tapping
• turning/shaving
• knurling
• assembly
• milling
• broaching
• slotting
• finishing
• trimming
• flattening
• slotting/sawing
Ball Studs & Ball Stud Housings

Cold formed ball studs and ball stud housings provide the precision, strength and reliability your assembly requires.

Features

• Cold formed to near-net shape
• CNC machining and other secondary operations are used to meet tight tolerance requirements and improve performance
• Ball studs up to 2¾” in diameter upset with 1⅝” body
• Ball stud housings can include wide flange, blind holes, through holes, threads and more as required
• On-site metallurgical analysis available
• Hardened to customer requirements

Benefits

• Uninterrupted grain flow maximizes strength
• Improved surface finish reduces friction in rotation
• Improved torque and wear characteristics
• Improved fatigue life
• Compatible with metallic and non-metallic bearing designs

TORX PLUS® Drive System

This patented drive system has been proven to outperform and outlast every traditional drive system available today.

Features

• 0° drive angle
• Elliptical geometric configuration maximizes drive bit engagement
• Large cross-sectional area at lobes
• Vertical sidewalls

Benefits

• Provides an average 100% improvement in drive bit life
• Can reduce assembly downtime by reducing the number of bit changes and rework
• Optimizes torque transfer
• Virtually eliminates camout
• Reduces driver end load and worker fatigue
• Reduces annual drive bit costs

AUTOSERT® Feature

Designed to allow high rpm engagement in automated and other assembly situations

Features

• Compound angle drive ramps
• Self-centering action

Benefits

• Eases starting, even in off-angle conditions
• Speeds tool engagement
• Reduces assembly time

Variations

• Tamper resistant
• Dual -drive system fasteners
• External TORX PLUS® Drive
• Stem Fasteners/Double-end studs
• External Drive with Low-Profile head
Acupoint® and MAThread® fasteners allow rapid thread engagement on the assembly line.

Benefits
• Compensates for off-angle and off-center conditions
• Resists cross-threading and no-start conditions
• Reduces scrap, rework and in-place costs

Acupoint® Fasteners
Features
• Truncated spherical point
• Point length and diameter designed to avoid thread engagement in misaligned conditions
• Compact design reduces overall length of fastener
• Economical design, since point is roll-formed

MAThread® Fasteners
Features
• Rounded point
• Different point styles available to meet the needs of specific applications

Taptite® Fasteners
Taptite® fasteners roll-form threads as they are seated.

Features
• Trilobular® thread form
• Tight dimensional tolerance controls
• Consistent thread profile
• Sizes from M1.6 to M16 (#000 to 5/8”)

Benefits
• Eliminates tapping costs
• Generates strong mating threads
• Resists vibration loosening
• Minimal radial stress reduces boss failure

Crimptite® Fasteners
With its engineered head design, Crimptite® fasteners are virtually immune to strip-out.

Features
• Undercut washer head
• Shank threaded into undercut area to allow full engagement even in this sheet metals
• Smooth or serrated bearing surface
• Available in a variety of thread and point styles
• Sizes from M3 to M8 (#4 to 5/16”)

Benefits
• Virtually eliminates stripout
• Allows use of thinner sheet metals
• High torque capability
• Excellent for grounding screw applications
An easy to install, more reliable alternative to other staked or welded fasteners.

**Features**
- Displacement lobes
- Retaining ring
- Retaining groove

**Benefits**
- Resists rotation and push-out
- Facilitates assembly of hard-to-reach components
- Eliminates welding operations
- Can be used on non-weldable materials
- Can be installed using automated equipment

**STRUX Clinch Studs**
- Machine threads or others as specified
- Available as double-end studs

**STRUX Clinch Nuts**
- Available with tapped or untapped hole
- Prevlock feature available to help prevent engaging bolt from rotating

**STRUXlite Clinch Studs**
Unhardened and untapped STRUX® clinch nut for use with a Taptite® fastener. The fastener roll-forms threads in the nut to create a work-hardened, reliable joint

**Mag-Form® Thread-forming Fasteners**
Mag-Form® fasteners were engineered to minimize debris generation and form strong threads when tapping into conventional magnesium die-castings and other low-ductile materials.

**Features**
- Lobular Configuration
- Wide-spaced thread design
- Broad flank angle compresses, rather than roll-forms, threads into the mating material

**Benefits**
- Minimizes debris generation
- Forms strong threads in low-ductile materials
- Easily removed and reinserted for service in the field

**Magnaseal® Pipe Plugs**
Magnaseal® thread-forming fasteners eliminate tapping costs and show improved sealing over other plug designs.

**Features**
- Thread style forms NPTF-standard threads
- Unique, annular sealing rings provide 360° seal
- Tapered body
- Available with or without external head
Magnaseal® Pipe Plugs

Benefits
• Eliminates time and expense of tapping and risk of cross-threading
• Resists spiral leakage
• Can be replaced with an NPTF pipe plug for field serviceability
• Reduces the need for additional sealing compounds

Delta PT® Fasteners

Delta PT® fasteners are engineered to create optimal material flow during installation, resulting in better clamp loads and increased joint life in a wide range of plastic materials.

Features
• Flank geometry engineered to provide better material flow during installation combined with high flank engagement
• Large fastener cross-section increases shear area and fastener strength
• Optimized pitch allows high clamp loads with smaller contact pressure

Benefits
• Minimizes radial stress
• Offers increased fatigue life
• Provides increased torsional and tensile strength

PT® Fasteners

PT® fasteners are engineered to provide increased thread engagement in thermoplastic applications.

Features
• Narrow 30° thread profile
• Optimum thread pitch
• Round body
• Recessed thread root

Benefits
• Provides maximum resistance to back-out and pull-out
• Minimizes boss failure

Duro-PT® Fasteners

Duro PT® thread cutting fasteners are engineered to meet the demanding requirements of thermoset plastics.

Features
• Asymmetrical 30° thread profile, inclined toward load surface
• Optimal thread pitch
• Recessed thread root
• Shank slot

Benefits
• Cuts threads in stiffer plastics
• Minimizes installation torque
• Maximizes assembly performance
Plastite® fasteners combine a unique trilobular body with a narrow thread profile to maximize performance in thermoplastics.

Features
- Three thread flank angle/helix combinations available to meet the needs of specific applications
- Trilobular configuration

Benefits
- Reduces possibility of boss failure
- Increases product reliability
- Eliminates need for inserts and lock washers

PlasTORX® Fasteners
PlasTORX® metal fasteners can be molded directly into plastic, replacing metal stamping and fastener assemblies.

Features
- Hex-lobular TORX® configuration
- Flange on top of head
- Threaded shank for nut member
- Designed to be molded directly into component or carrier strips

Benefits
- Allows multiple fasteners to be installed at one time, increasing assembly efficiency
- Provides maximum resistance to rotation and pull-out
- Ideal for materials susceptible to cracking

Rivtex® Fastening System
Rivtex® fasteners are an excellent solution for high strength steel sheets and aluminum sheets, where welding is impossible or impractical.

Features
- Clinch studs, clinch nuts and pierce-clinch nuts available
- Optimal performance in high strength steel sheets and thin aluminum sheets
- Many automated installation systems available
- Can be installed in-die, unlike welding operations

Benefits
- Provides high resistance to rotation and push-out
- Can replace welding operations and be used with materials that can not be welded
- Can speed the assembly process