Industrial Fastener Tools
General Product and Company Information

Company Confidential
Bits, Bit Holders, Sockets, Nutsetters, Extensions, Adapters, Anti-mar products, and Specialty Fastening Tools

Diverse, Full-line Product Offering
Product Overview

- **Screwdriver Products**
  - Impact Tough Bits
  - Impact Tough Bit Holders
  - Impact Tough Nutsetters
  - Hand Drivers

- **Impact Socket and Wrench Products**
  - Impact Sockets
  - Extensions and Adaptors
  - Universal Wrenches

- **Anti-Mar and Safety Solutions**
  - U-Guard Product Line
  - Anti-Mar Engineered Solutions

- **Specialty Tools**

- **Custom Solution (Specials) Tools**

- **Apex Brand Resources**
Dayton, Ohio USA Facility

- Over 80 Years of Production and Product Experience
- ISO 9100
- AS 9100 Certification to meet Aerospace standards

Building
- 174,175 square feet
- Started production in 1933
- Expanded in 1985

Over 80 Years of Production and Product Experience
APEX BRAND VALUE PROPOSITION
and PRODUCT POSITIONING
Apex Value Proposition

Strong Brand Name

- Apex is a globally recognized leader in Industrial-Grade Bits, Bit Holders, Impact Sockets, Extensions and Universal Wrenches
- Customers perceive Apex as a premium, top-of-the-line product that maintains the highest standards for design, performance and durability.
- Market leader in North America for over 80 years

Lower Total Cost of Ownership

- Industrial-grade products designed and manufactured to provide lower total cost to the end user (more fasteners with fewer bits or sockets) to help maximize their productivity.

Superior Quality

- Proprietary raw materials and heat treatment process, along with advanced manufacturing processes results in:
  - Better Fit
  - Higher Ultimate Strength
  - Unparalleled Product Durability
  - Greater Torque Transfer
Manufactured for Superior Performance

- Performance leader for industrial-grade applications
- Only Apex has socket hexes are **cold** broached as opposed to forged or hot broached
  - Hot broaching leads to dimensional differences after cooling
- Specialty broaches designed for demanding applications
- Bit tips are manufactured to strict tolerances, better fit equates to better performance

Advanced Engineering

- Continuous innovation and product leadership for the last 80 years
- Use of 3D modeling and Finite Element Analysis to design leading fastening solutions

Diverse Portfolio

- Unparalleled product offering of 10,000+ sellable parts
- Catalog contains 4000+ of the frequently ordered parts
- Flexibility to design and manufacture ETO (engineered to order) parts
### Key Product Features/Benefits

<table>
<thead>
<tr>
<th>Bits</th>
<th>Feature</th>
<th>Benefit</th>
</tr>
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<tbody>
<tr>
<td>Heat Treat, Proprietary Process</td>
<td>Increased strength and Toughness, longer life</td>
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<td>Tight dimensional control (via machining processes, coining press, and design)</td>
<td>Better fit to the fastener, less cam out</td>
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<td>Exceptional Process Control</td>
<td>Consistent, reliable performance from lot-to-lot</td>
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</tbody>
</table>

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<tr>
<th>Sockets &amp; Wrench</th>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material Selection</td>
<td>Improved toughness, longer life</td>
<td></td>
</tr>
<tr>
<td>Heat Treat, Proprietary Process</td>
<td>Improved Strength and wear characteristics</td>
<td></td>
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<tr>
<td>Tighter tolerances than ANSI standards</td>
<td>Better fit to the fastener</td>
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Proprietary Heat Treatment is Key To Apex Success
Major Industrial Markets

- Motor Vehicle
- Aerospace
- Construction
- Appliance
- Off Road Vehicles
- Rec. Vehicle
- General Industrial Manufacturing
INDUSTRIAL-GRAD SCREWDRIVER PRODUCTS
Apex Impact Bits & Bit Holders

**Apex Impact Bits, Bit Holders & Nutsetters:**

- Manufactured from special alloy steel for strength and durability
- Heat treated for correct balance of strength and hardness
  - 3 different hardness levels available
  - Robust shank for use with Impact Driver or Screw Guns
- Broad range of sizes available to accommodate a variety of industries and production assembly applications
  - *Insert bits, Power Bits, Bit Holders, Extensions and Nut Setters*
- Accurately machined tip configuration designed to support impact tools and match screw heads perfectly
- One of the industry’s widest selection of bits worldwide

*Effective, secure fastening of screws is indispensable in mass production assembly operations.*

Leading Industrial Bit Line in the US
How to Choose a Bit

• Fasteners, with recessed drives like screws, use a wide array of different kinds of screwdriver bits.

• **To determine the correct bit choose:**
  – *Drive Size:*
    • Insert, Power, Female Square
  – *Tip Type:*
    • #2 Philipps, Torx, T30, etc.
  – *Length Required*
  – *Torque Level Required to do the job*
    • *ROT* (Recommended Operating Torque)
    • Apex ratings for each part can be obtained through Technical Customer Service
    • Determined by a variety of data maintained in our database
    • ROT is at 30% of Ultimate Torque (failure point) = large safety margin
    • # of run downs at ROT level is dependent on operator and fastening conditions
  – *Special Circumstances:*
    • Covered, reduced shank, magnetic, etc.

Accuracy of Bit to Screw Absolutely Critical to Performance
Types of Impact Bits

- **Insert Bits**
  - Notches allow the C-ring in the Bit Holder to retain the bit in holder and allows for quick and easy bit changes.

- **Power Drive Bits**
  - Inserted directly into front end of power screwdriver to provide less wobble and offer more reach for recessed holes
  - Ball groove mates with a spring loaded metal ball inside the driver.

- **Threaded Drive**
  - Bits that thread directly into your driving tool.

- **Female Square Drive**

- **Yankee Drive**

- **Specialty Drive Bits**
  - Hex Insert, Square drive, Hi-Torque

All Bits Have Standard Industrial Oil and Rust Inhibitor Finish
Use this matrix to help find the right product
Proper Bit Hardness is Important In Securing Longevity

Three Heat Treat Hardness Levels

**X (Hardest)**
- 63 HRC
- Low Torque Applications
- Best Wear
- Strongest Bit Applications
- Sheet Metal and Drywall
- Tap screws or hardened screws

**I (Intermediate)**
- 60 HRC
- Medium Torque ranges
- Speed reducing Air S/drivers or electric S/drivers

**R (Standard)**
- 57 HRC
- High Torque Applications or sudden increase in torque
- Good Wear, Best Fatigue
- Std hardness screws – small machine screws and wood screws

- High Torque Applications require “R” heat treats to withstand twisting and resist breakage.
- The heat treat process should yield a core hardness +/- 1.5 points Rockwell C.

Proper Bit Hardness is Important In Securing Longevity
Screw drives allow torq to be applied to a screw. Apex carries most of the screw drives available in the market.

For all these fastener styles:

- Phillips®
- Slotted
- Torx®
- Torx Plus®
- Torx® Tamper Resistant
- Torx Plus® Tamper Resistant
- Pozidriv®
- Sel-a-fit®
- Quadrex®
- Frearson
- B.N.A.E.
- Square Recess
- Torq-Set®
- MorTorq®
- Tri-Wing®
- Hi-Torque®
- Triple Square

All bits are machined rather than formed like many competitors. Leads to higher quality, better fitting tool.
Key Apex Selling Point: Cost of Ownership rather than Acquisition

Durability – Core Strength of Apex Brand:

- Created by:
  - Highest grade Industrial Steel
  - Proprietary Heat Treatment Process
  - Proprietary Manufacturing Process designed to extend product life

Apex Bits and Sockets often substantially outlast the competition.
Key Apex Selling Point: Cost of Ownership rather than Acquisition

Tight Specs Lead to Precise Fit, Longer Life

- Apex design tolerances exceed Industry Requirements:
  - 35% average tighter tolerances than ANSI standards
  - 48% average tighter tolerances than DIN standards
  - Tighter than normal tolerances on hex sockets

Precision fit of Apex tools eliminates “cam-out” and premature bit failure.
Two Types of Bit Holders:

1. Hex *Insert* Bit Holders:
   - **Non-Magnetic**
     (C-ring design has internal clip to hold bit securely)
   - **Magnetic**
     (Fasteners are held magnetically to the Bit)
   - **Quick Release**
     (Pull back on retractable knurled sleeve to release bit)
   - **O-Ring Retainer**
     (Unscrew O-ring to release Bit)
   - (Additional Holders – Hex Drive, Yankee Type, Screw Shank, Buckeye-Desoutter, etc.)
2. Female *Square Drive* Bit Holders

- **Female Square Drive**

- **Quick Releasing Chucks**
  (Female Square Drive and Threaded Drive)

- **Bit Holders/Adapters**
• **Nutsetters** are the ideal solution to drive hexagon headed fasteners with power tools.

  • *Hex Drive (6 Point SAE and Metric)*  
    (Non-Magnetic and Magnetic)

  • *Hex Drive (For Sheet Metal Screws)*  
    (Non-Magnetic and Magnetic)

  • *Hex Drive (6 Point with Bolt Clearance)*

  • *6 Point Insert (SAE and Metric)*  
    (Magnetic)

**Impact Nutsetters**

Nutsetters Reduce Wobble Found in Extension/Socket Combinations
Nutsetters

- Sheet Metal - MD Series
- Magnetic or Non-magnetic
- 6B (Bolt) verses 6N (Standard)

Male Hex Drive size in 1/32 nd’s of an inch
Female Hex size in 1/32 nd’s of an inch, or in millimeters
Length, Inches (Optional)

M 6 -       [Diagram]

Used to denote Metric (Optional)
N = Standard, B = Bolt Clearance
Denotes Magnetic (Optional)

Available in SAE and Metric
INDUSTRIAL-GRADE IMPACT RATED SOCKET PRODUCTS
Apex Impact Rated Sockets

- **Apex Impact Sockets:**
  - Manufactured from special alloy **4150 steel** for strength and durability
  - Heat treated for correct balance of strength and hardness
  - Socket wall thickness is optimized for strength and size
  - *Thin Wall Sockets* are available for tight clearance applications
  - *Extra Long Length or Deep Sockets* to allow screw stud recess
  - Depth of socket designed to fully engage fastener
  - Designed to support impact tools
  - One of the industry’s widest selection of sockets worldwide
  - Completely produced and assembled in the US

Highest Market Share for Industrial Sockets in the US
How to Choose a Socket

**Determine the following in this order:**

- Choose Hex Opening size
- Choose Drive size
- Determine application:
  - Standard, Thin Wall (standard or deep), Deep Well (standard or deep), or Extra Deep
- Torque level requirements
  - Recommended Operating Torque (ROT) can be requested from Apex Tech Customer Service. Email - **SpecialMarket@apextoolgroup.com**
  - Ultimate Torque is calculated at 3X ROT
- Specialized Applications
  - Driving at an angle
  - Surface hex vs. fast lead
  - Magnetic vs non - magnetic
Types of Impact Rated Sockets

Impact Socket Type Determined by:

- Drive Shape
- Overall Length
- Wall Thickness
- “Nose End” Geometry
- Magnetic (rare earth)
  - Strong permanent magnets made from alloys of rare earth elements
  - Our magnets are rated N35
  - Most socket manufacturers do not use these more expensive Magnets
Socket Shapes and Features

- **Standard Hex:**
  - Tight fit on fastener for lower backlash, better torque transfer and longer socket life.
  - Radius corners on hex shifts contact area and stress away from the fastener corners and distributes contact stresses over wider area of the socket.
  - Chamfered service ends are for quick and positive fastener engagement.

- **Surface Hex:**
  - Fastener drives on the surface of the lobes to reduce wear on fasteners.
  - Looser fit in the corners to allow easier engagement with fastener.

- **Fast Lead Hex:**
  - Tight fit on fastener for lower backlash, better torque transfer and longer socket life.
  - Fast Lead feature allows socket to engage fastener while spinning.
### Socket Shapes and Features

- **Double Hex (Made for hex fasteners):**
  - Allows hex fastener engagement every 30 degrees vs. 60 degrees on standard hex.
  - Finds the fastener edges quicker than standard hex.

- **12 Point (Made for 12 pt. fasteners):**
  - Specifically designed for 12-point fastener.
  - Slightly larger than standard hex fastener.
  - Made to drive 12 pt. fasteners, but can also drive a regular hex fastener.

- **Torx/Torx Plus:**
  - Made to Acument standards.

- **Note:** For a particular series of sockets in the catalog, the drive end diameter will remain constant. For example, a 3/8 x 10mm will have the same drive end diameter in spite of any changes to length or nose end diameter, i.e. 10MM13, 10MM23, 10MM43, M-10MM13 etc. will all have the same drive end diameter.
Specialty Impact Rated Sockets (Some Popular Examples)

- **Tap Holding Sockets**
  - Used for holding Taps on to a power tool

- **Grease Fitting Sockets**
  - For angled grease fittings, deep and shallow broach depth -
  - For straight Grease fittings -

- **Sockets with a Male Hex**
  - Used for specific power tools

- **Sheet Metal Sockets**
  - E Grade (softer HRC 59.5) - for predrilled holes
  - P Grade (harder HRC at 63) – for self-tapping screws
Apex offers the accessories needed to adapt sockets to nearly every tool and application.

Wide array of **Adapters**
- Socket and Wrench Adapters
- Sockets with Male Hex
- Hex Drive Universal Adapters
- Male or Female Threaded Adapters
- Yankee Drive Adapters

Large line up of **Extensions**
- All extensions are impact rated
- Female drive extensions
- Male Hex drive extensions with male square
- Threaded Screw Shank extensions

Socket **Retaining Rings** Available:
- Plastic Ring with Steel Insert
- Metal Ring
Apex WSK Series
Wobble Sockets

- **Improves productivity** by letting a customer convert any socket into a Wobble socket
- **Corrects misalignment** up to 10 degrees
- **Takes care of clearance issues** for applications with space limitations
- **Improves tool life** by engaging fastener correctly
- **Complete torque transfer** due to minimal backlash
- **Reduces cam-out** due to misalignment
- **Easy to assemble** – instructions provided with the kit
Socket Part Numbering, SAE

**Square Drive Size:**
- 1 = 1/4”
- 3 = 3/8”
- 5 = 1/2”
- 6 = 5/8”
- 7 = 3/4”
- 8 = 1”

**Length/Wall Thickness Socket Modifier:**
- 0 = Shorter than Standard
- 1 = Standard Length
- 2 = Long
- 3 = Extra Long
- 4 = Standard Length, Thin Wall
- 5 = Long, Thin Wall

**“Double” Square or Hex (Optional)**

**Socket Modifiers:**
- M = Fixed Magnet
- MB = Spring Loaded
- SM = Strip Magnet
- SF = Surface Drive
- FL = Fast Lead
- TX = Torx
- OS = Old Style (No DIN Groove)

- H = SAE Special + A, B or C
- HA = 1/4” Square Drive
- HC = 3/8” Square Drive
- HE = 1/2” Square Drive

*Some Modifiers may be combined (e.g. OSSF)*
Socket Part Numbering, Metric

**Length/Wall Socket Thickness Modifier:**
- 0 = Shorter than Standard
- 1 = Standard Length
- 2 = Long
- 3 = Extra Long
- 4 = Standard Length, Thin Wall
- 5 = Long, Thin Wall

**Square Drive Size:**
- 1 = ¼”
- 3 = 3/8”
- 5 = ½”
- 6 = 5/8”
- 7 = ¾”
- 8 = 1”

**“Double” Square or Hex (Optional)**

**Female Hex size in millimeters**

**Socket Modifiers:**
- M = Fixed Magnet
- MB = Spring Loaded
- SM = Strip Magnet
- SF = Surface Drive
- FL = Fast Lead
- TX = Torx
- OS = Old Style (No DIN Groove)
- UG = u-Guard Non-Marring Cover

**3 - Letter Socket Modifier:**
- CMS = Spline – “Conforms to Military Specifications MS-37787 and MIL-W-8982C”
- V = Metric Special + A, B or C
  - VA = 1/4” Square Drive
  - VC = 3/8” Square Drive
  - VE = 1/2” Square Drive
- E in 2nd or 3rd Position = For Sheet Metal w/Predrilled Holes
- P in 2nd or 3rd Position = For Sheet Metal Self-Drilling & Self-Tapping Screws

*Some Modifiers may be combined (e.g. OSSF)*

General Rules for Standard Products
INDUSTRIAL-GRADE UNIVERSAL WRENCH PRODUCTS
Types of Universal Wrenches

- Two types of Universal Wrenches:
  - Standard Types have a 30° maximum angle. They can be customized to attain a 40° maximum angle.
  - A tension type UW has a spring-loaded collar beneath the socket component. This collar will hold the socket in either the straight or angled position. A tension-type Universal Wrench has the advantage of one-handed operation.
  - Apex also does have an internal tension type Universal Wrench that offers more clearance and the socket can be held at any angle.
**Iron Band: Product Features**

- **Robust Steel Cover:**
  - The Iron Band™ design integrates a steel collar that shields the swivel pin from external contact
  - Guards against catastrophic failure – safety feature
  - Many plants such as the Cummins Engines Seymour plant now require that all universal wrenches be Apex Iron Band only due to safety concerns

- **Socket OD Unchanged:**
  - Ability to access confined joints

- **Welded Shank Reduces Run out:**
  - Better ergonomics
ANTI-MAR AND SAFETY SOLUTIONS
APEX offers 2 families of Protective Covers:

- **μ-Guard™**
- **Engineered Solutions:**

Color of this molded cover is always Orange for Awareness and Visibility.

Color is Orange for Delrin, black or grey for Nylatron.

Free-Spin Applications on Both Lines
Costly and time-consuming repairs and product integrity are all concerns which are driving manufacturers to seek a better way to perform fastening operations.

Operator injuries can be caused during fastening operations when gloves get trapped in pinch areas. **U-Guard significantly reduces or eliminates pinch spots** resulting in increased operator safety.
**μ-Guard** has the least durometer (hardness) and is very pliable. It guards against scratches and dents in sheet metal parts.

**Delrin** is also orange in color, has a much higher durometer than U-Guard and is much stiffer. It guards against scratches but will dent sheet metal more easily than U-Guard. It is easily machined and can hold tolerances very well for custom applications.

**Nylatron** is a charcoal color and has basically the same machinability and characteristics as Delrin. It is also oil impregnated (a molybdenum powder) so it has a built in lubricant that reduces friction which may help it to last longer than Delrin under certain conditions and gives the part good spinning qualities.
Apex Fastener Tools has revolutionized the market for covered assembly tools with the \(\mu\)-Guard line of premium safety and anti-mar fastener tools.

Apex \(\mu\)-Guard covers:
- are free-spinning and designed to turn independent of the tool.
- increase operator safety by significantly reducing or eliminating pinch points.
- enables individual using the tool to grip the socket/extension sleeve as aggressively as the fastener installation may require without fear of injury.

With Apex \(\mu\)-Guard, you get the proven Apex fastener tool fit and dependable performance.
In Addition to our In Line μ-Guard Line, Apex offers:

- Durable **orange** nylon covers for products where we do not have μ-Guard in line.
- Custom fit cover solutions for Custom Tools.
- Covers can be ordered separately to be used on Custom Tools or to replace μ-Guard covers that may wear out before the tool.
- Can be press fit/non-free-spinning for reduced envelope size in tight clearance applications.
• U-Guard was originally introduced by Apex to provide Anti-Mar protection to spinning power tool sockets.
• However, it has been adapted by many plants to help prevent hand injuries.
• The advancement of workplace gloves, especially *Nylon gloves*, and the high torque of rotating direct current electrical and air power tools, has increased the potential for injury during the installation of fasteners.
• The drawback to these gloves has been that nylon threads can get caught in a spinning tool and do not always break as the cotton strands have in the past.
• Nylon glove caught in a power tool
• Nylon Strands get caught in spinning tools and do not break off resulting in significant finger damage.

• Breakaway gloves are not popular with users because many times they do NOT break away, the fingers often break away after limited use, cost is high, and they do not slide across a part very smoothly.

• Breakaway glove accidents on the increase.
Covering the Connecting Joints

- **Socket Joint Gap Cover** – covers the small gap between an extension and a socket.

- **Right Angle Nut Runner Gap Cover** – used to cover the head of a right angle tool and the extension or socket.

- **Power Tool Spindle Housing Gap Cover** - to cover the spindle head or quick release head on a power tool and the extension or socket.
Socket Gap Covers

- Attach a safety cap over the μ-Guard extension cover and the socket cover.
- Held in place by a rib inside the cover and is installed on the extension with the socket being attached last.
- Produced in orange Delrin.
- Generally 4 weeks or better deliveries are possible.
Right Angle Nut Runner Gap Covers

- Delrin cover for right angle nut runner tools
- Head covers the gap between the tool and the extension
- Gap cover in the picture is a different color than the orange (U-Guard) cover to make it easier to see for this application. Production covers are in orange.
- These covers have a rib to clear the neck of the tool and is held on by the pinned on extension. (Similar to a socket gap cover)
- The covered extension will spin freely inside this cover. There are no set screws or other fasteners to tighten down.
- Cover can be extended over head of nut runner for Anti-Mar benefits.
Geta – Value Brand

- Geta is the Apex Value Brand.
- Made in Taiwan by our premier supplier.
- Excellent performance, but below Apex performance levels.
- Better performance than most competitors including Vega.
- Used under limited circumstances.
Geta – Value Brand

- New sizes recently added to the line.
- Philips Insert and Power Bits
- Slotted and Square sizes
- Torx and Torq-Set sizes
- 4 popular extension sizes
- 6 popular sizes of Magnetic Bit Holders
- 15 popular sizes of Magnetic Nutsetters
- 3 sizes of Magnetic Sockets
- Directed at use in the STAFDA and MRO markets.
FASTENER TOOL
CUSTOM SOLUTIONS
What is a Custom Solution?

1. **Modification of an existing tool (Mod)**
   - Change to OD
   - Change to length

2. **Customer concept that is not an industry standard (Custom)**
   - A Custom Solution may not already have design specs, material, heat treat or tolerancing specs
   - The proposed Custom Solution may only have outside dimensions, mating interfaces and torque requirements
Apex makes a wide variety of Custom Solutions for a number of different Industries.
Why Use Custom Solutions from Apex?

• **Superior Product:**
  – Industrial grade products designed and manufactured to provide the lowest total cost to the end user (drive more fasteners with fewer bits or sockets).

• **Excellent Specials Support:**
  – Superior Sales and Technical Support. Apex Tools has a global footprint and can respond quickly to customer requirements.

• **Prototypes:**
  – Quick turn around time on Prototypes, 10 to 15 days depending on complexity of tool.
Innovative Custom Solution for an Automobile Manufacturer

Problem:
- Screwdriver bits breaking at an unacceptably high rate at a key fastening application

Innovative Custom Solution:
- Customized bit holder with an innovative design that virtually eliminated the side load on the fastener.

Result:
- 80% reduction in bit usage
- Over $4000 annual savings potential
If Speed is Needed, Prototypes Might Be the Answer

Apex Custom Solutions Process

Prototype Program

- 10 to 15 day delivery time
- Drawings, Samples, or Photos are Ideal
  - Customer can mark up an existing drawing
- Complete descriptions are essential via the on line Submittal Form
  - Length, O.D, Stud-clearance, Torque, Cover
- Volume effects price
  - Prototypes limited to 12 pcs. MAX
- If changes are desired, a new print will be issued. Approval waived for Reactivations, Iron Band and U-Guard unless requested.
• The Apex Brand Packaged Bits has a notch in the top of our packaging for easy use on peg boards.

• Bar code can also be used for retail.

• Packaged products made for industrial vending machines and easily fit in spiral machines.
Warranties:

- Apex and Geta Products are warranted to the original purchaser for a period of one year to be free of defects in materials and workmanship.

- Utica Products are warranted to the original purchaser for a period of one year to be free of defects in materials and workmanship.
• Standard Shipping Schedules for **Out of Stock** Items:
  – Apex Carries sufficient stock for most items, but if an item is out of stock, it’s immediately put into a production plan when ordered.

  – It will ship when available, but generally it takes:
    • A&B (most popular items) – average 10 days
    • C&D (less popular items) – average 20 days
    • Some complex parts that need outside processes may require 25 days
    • Parts are shipped as they come available to the warehouse
    • If consolidated a shipment is needed, it needs to be requested on the order as SHIP COMPLETE.

• Minimum order of at least **$55 for distributors** is required. ($65 for Direct Accounts)
Literature for Apex Brands

- General Catalog (TC-100-EN)
- Apex Brand Overview brochure (SP-335 EN)
- Iron Band brochure (SP-334)
- U-Guard brochure (SP-332)
- Custom Anti-Mar Solutions brochure (SP-331)
- Geta Brochure (SP-323 EN)
- Utica Torque Products (SP-301-EN)

- Available through Distributor Sign-In on:
  www.apexpowertools.com
Questions?