

# FTI 2013 BUYERS' GUIDE

## Product Categories and Update Form

The 2013 edition of the Fastener Technology International Buyers' Guide will be published November 2, 2012.

The products covered by this checklist fall into five major categories: Fastener & Precision Formed Parts; Materials, Wire, Rod, Bar & Strip; Manufacturing/Distribution Supplies & Service; Machinery/Equipment/Process Classifications; and Assembly Equipment/Tools/Supplies.

NOTE: The product/contact update form on the last page should be updated and returned as soon as possible. If you would like to see a new product category in our next issue that is not listed, please write the category name on the form and send to [mcnulty@fastenerstech.com](mailto:mcnulty@fastenerstech.com). A \* precedes any new category.

If you are a new listing for the 2013 edition, review the product codes provided. Complete the last page, filling in the product codes in the boxes, along with your company information. Please note that up to 10 product codes will be provided free of charge. Advertisers (one-fourth page or greater) in the directory issue will receive unlimited product codes. Their listings will also appear in **boldface type**. **Those not advertising will be charged \$10 for each product code over 10**. A check must be included with this form if over 10 listings or we will bill you.

Publisher reserves the right to edit, modify or exclude any listing and is not responsible for the accuracy or completeness of directory listings beyond exercising reasonable care in preparation.

### Fasteners & Precision Formed Parts

<b>00001</b> ANCHORS-Concrete Expansion	<b>00744</b> BOLTS-Tank	<b>00981</b> FASTENERS-Tamperproof	<b>01760</b> NUTS-Fiberglass (Reinforced)
<b>00002</b> ANCHORS-Drywall	<b>00752</b> BOLTS-Tapered	<b>00982</b> FASTENERS-Toggle Latch	<b>01771</b> NUTS-Flange
<b>00003</b> ANCHORS-Epoxy	<b>00770</b> BOLTS-Toggle	<b>00985</b> FASTENERS-Warm Formed	<b>01780</b> NUTS-Gang Nut Assembly
<b>00004</b> ANCHORS-Plastic	<b>00773</b> BOLTS-Torque Limiting	<b>00986</b> HANDLES-Plastic Molded	<b>01785</b> NUTS-Handle
<b>00006</b> ANCHORS-Wedge	<b>00775</b> BOLTS-Track	<b>00988</b> INSERTS-Anchor Nut	<b>01791</b> NUTS-Heavy Hex Structural
<b>00008</b> BALL JOINTS-Spherical	<b>00814</b> BOLTS-12 Point Head	<b>00989</b> INSERTS-Blind End	<b>01815</b> NUTS-Hex
<b>00011</b> BOLTS-Adjustable Diameter	<b>00840</b> BOLTS-U Bolts	<b>00991</b> INSERTS-Blind Hole	<b>01859</b> NUTS-Hex Jam
<b>00055</b> BOLTS-Aircraft (AN, MS, NAS)	<b>00845</b> BOLTS-Undercut	<b>00992</b> INSERTS-Closed End	<b>01892</b> NUTS-Hex Slotted & Castle
<b>00057</b> BOLTS-Aluminum	<b>00856</b> BOLTS-Wheel	<b>00994</b> INSERTS-Expansion	<b>01903</b> NUTS-High
<b>00060</b> BOLTS-Anchor	<b>00859</b> CABLE/WIRE TIES-Plastic Molded	<b>00995</b> INSERTS-Floating, Self-Aligning	<b>01915</b> NUTS-High Temperature
<b>00075</b> BOLTS-Askew Head	<b>00860</b> CAPS-Protection	<b>00996</b> INSERTS-Interference Fit	<b>01936</b> NUTS-Hydraulic
<b>00099</b> BOLTS-Bent	<b>00861</b> CLAMPS-Adjustable	<b>00997</b> INSERTS-K-Type	<b>01947</b> NUTS-Internal Wrenching
<b>00119</b> BOLTS-Blind	<b>00864</b> CLAMPS-Bandclamp	<b>00998</b> INSERTS-Locking	<b>01952</b> NUTS-KEPS, Nut/Lockwasher Assembly
<b>00125</b> BOLTS-Brass	<b>00866</b> CLAMPS-Bar	<b>01000</b> INSERTS-Metric Thread	<b>01970</b> NUTS-Machine Bolt
<b>00132</b> BOLTS-Captive	<b>00867</b> CLAMPS-Blind	<b>01010</b> INSERTS-Molded-In	<b>02013</b> NUTS-Machine Screw Hexagon
<b>00176</b> BOLTS-Carriage	<b>00868</b> CLAMPS-"C"	<b>01015</b> INSERTS-(NUTSERTS)	<b>02030</b> NUTS-Machine Screw Square
<b>00183</b> BOLTS-Connecting Rod	<b>00869</b> CLAMPS-Clinch	<b>01025</b> INSERTS-Post Molded	<b>02057</b> NUTS-Metric Thread
<b>00190</b> BOLTS-Elevator	<b>00870</b> CLAMPS-Collars	<b>01073</b> INSERTS-Sandwich Panel	<b>02064</b> NUTS-Miniature
<b>00200</b> BOLTS-Encapsulation	<b>00872</b> CLAMPS-Component Mountings	<b>01080</b> INSERTS-Screw Anchor, Metallic	<b>02068</b> NUTS-Nonferrous
<b>00210</b> BOLTS-Expansion	<b>00873</b> CLAMPS-Ear	<b>01092</b> INSERTS-Screw Anchor, Nonmetallic	<b>02071</b> NUTS-Nonmetallic
<b>00224</b> BOLTS-Extreme Temperature	<b>00874</b> CLAMPS-Earless	<b>01096</b> INSERTS-Self Clinching	<b>02078</b> NUTS-Nut, Washer Assemblies
<b>00228</b> BOLTS-Eye	<b>00876</b> CLAMPS-Gear	<b>01100</b> INSERTS-Self Threading	<b>02090</b> NUTS-Pierce
<b>00229</b> BOLTS-Fiberglass (Reinforced)	<b>00877</b> CLAMPS-Hose	<b>01130</b> INSERTS-Sheet Metal	<b>02093</b> NUTS-Plastic
<b>00231</b> BOLTS-Fitting Up	<b>00879</b> CLAMPS-Hose Grip	<b>01132</b> INSERTS-Snap-In	<b>02095</b> NUTS-Plate
<b>00238</b> BOLTS-Flange	<b>00881</b> CLAMPS-Motor Mountings	<b>01134</b> INSERTS-Spark Plug	<b>02105</b> NUTS-Press
<b>00253</b> BOLTS-Friction Grip	<b>00882</b> CLAMPS-Open-End	<b>01136</b> INSERTS-Staked-In	<b>02110</b> NUTS-Push-On
<b>00260</b> BOLTS-Guardrail	<b>00885</b> CLAMPS-Oval	<b>01138</b> INSERTS-Tapping	<b>02134</b> NUTS-Rivet
<b>00290</b> BOLTS-Hanger	<b>00888</b> CLAMPS-Poly	<b>01141</b> INSERTS-Threaded Bushings	<b>02140</b> NUTS-Rod Coupling
<b>00297</b> BOLTS-Hex Head	<b>00890</b> CLAMPS-Ratchet Lock	<b>01142</b> INSERTS-Threaded In	<b>02148</b> NUTS-Sealing
<b>00330</b> BOLTS-Hex Washer Head	<b>00893</b> CLAMPS-Screw Lock	<b>01143</b> INSERTS-Tubing	<b>02160</b> NUTS-Self-Aligning
<b>00352</b> BOLTS-High Temperature Industrial (ASTM A193)	<b>00894</b> CLAMPS-Shaft	<b>01155</b> INSERTS-Two Piece	<b>02169</b> NUTS-Self-Clinching
<b>00374</b> BOLTS-Hook	<b>00895</b> CLAMPS-Split Hub	<b>01167</b> INSERTS-Welded-In	<b>02178</b> NUTS-Self-Locking, All Metal
<b>00418</b> BOLTS-Indented Foundation	<b>00896</b> CLAMPS-Spring	<b>01178</b> INSERTS-Wire Thread	<b>02211</b> NUTS-Self-Locking, Free Spinning
<b>00451</b> BOLTS-J Bolts	<b>00899</b> CLAMPS-Stepless	<b>01185</b> KNOBS-Plastic Molded	<b>02255</b> NUTS-Self-Locking, Insert Type
<b>00453</b> BOLTS-Joint	<b>00902</b> CLAMPS-Synchro/Servo	<b>01190</b> NAILS-Aluminum	<b>02258</b> NUTS-Self-Piercing, Clinch
<b>00455</b> BOLTS-Lag	<b>00903</b> CLAMPS-Threaded Bore	<b>01200</b> NAILS-Coated	<b>02259</b> NUTS-Self-Sealing
<b>00460</b> BOLTS-Left Hand	<b>00905</b> CLAMPS-Toggle	<b>01233</b> NAILS-Common	<b>02261</b> NUTS-Self-Threading
<b>00466</b> BOLTS-Load Indicator	<b>00908</b> CLAMPS-Twin	<b>01254</b> NAILS-Finish	<b>02264</b> NUTS-Slotted
<b>00475</b> BOLTS-Low Temperature Industrial (ASTM A320)	<b>00909</b> CLEVIS-Adjustable Yokes	<b>01260</b> NAILS-Hot Dipped Zinc-Coated	<b>02268</b> NUTS-Snap-In
<b>00495</b> BOLTS-Machine, Nonlocking	<b>00911</b> CLIPS-"C"	<b>01273</b> NAILS-Ring Shank & Threaded	<b>02273</b> NUTS-Spanner
<b>00539</b> BOLTS-Machine, Self-Locking	<b>00912</b> CLIPS-Christmas Tree	<b>01299</b> NAILS-Roofing	<b>02275</b> NUTS-Spline Drive
<b>00572</b> BOLTS-Metric Thread	<b>00914</b> CLIPS-Molding	<b>01309</b> NAILS-Round Head	<b>02277</b> NUTS-Square (Regular)
<b>00574</b> BOLTS-Miniature	<b>00917</b> CLIPS-Tubular	<b>01320</b> NAILS-Screw	<b>02279</b> NUTS-Stainless
<b>00575</b> BOLTS-Nonferrous	<b>00920</b> CLIPS-"U"	<b>01330</b> NAILS-Stainless Steel	<b>02280</b> NUTS-T
<b>00585</b> BOLTS-Place	<b>00923</b> CLIPS-Wire	<b>01375</b> NAILS-T-Head	<b>02281</b> NUTS-Tamperproof
<b>00595</b> BOLTS-Plastic	<b>00924</b> COLD HEADED-Specialties	<b>01419</b> NUTS-Acorn, Nonlocking	<b>02294</b> NUTS-Tee Terminal
<b>00616</b> BOLTS-Plow	<b>00925</b> DRAWN SHELLS	<b>01452</b> NUTS-Acorn, Self-Locking	<b>02302</b> NUTS-Tensile Strength
<b>00626</b> BOLTS-Quick Release	<b>00927</b> EXTRUSIONS-Cold Formed	<b>01496</b> NUTS-Aircraft (AN, MS, NAS)	<b>02307</b> NUTS-Thumb
<b>00633</b> BOLTS-Rivet Type	<b>00928</b> EYELETS	<b>01500</b> NUTS-Aluminum	<b>02315</b> NUTS-Torque Indicating
<b>00639</b> BOLTS-Safety	<b>00929</b> FASTENERS-Aerospace	<b>01530</b> NUTS-Anchor, Captive	<b>02319</b> NUTS-12 Point Flange
<b>00641</b> BOLTS-Self-Insulating	<b>00932</b> FASTENERS-Automotive	<b>01573</b> NUTS-Anchor, Nonlocking	<b>02320</b> NUTS-12 Point Flange Locking
<b>00643</b> BOLTS-Self-Retaining	<b>00930</b> FASTENERS-Cold Formed	<b>01617</b> NUTS-Anchor, Self-Locking	<b>02322</b> NUTS-Washer Assemblies
<b>00645</b> BOLTS-Self-Sealing	<b>00931</b> FASTENERS-Electronic Captive Screws	<b>01625</b> NUTS-Barrel	<b>02332</b> NUTS-Weld
<b>00647</b> BOLTS-Sheet Metal	<b>00935</b> FASTENERS-Grommets	<b>01635</b> NUTS-Battery	<b>02340</b> NUTS-Wheel
<b>00650</b> BOLTS-Square Head	<b>00938</b> FASTENERS-Hole Plugs	<b>01645</b> NUTS-Bearing	<b>02376</b> NUTS-Wing
<b>00660</b> BOLTS-Stainless	<b>00941</b> FASTENERS-Hook & Loop	<b>01646</b> NUTS-Binder Post	<b>02378</b> NUTS-Wing, Low Profile
<b>00668</b> BOLTS-Star	<b>00945</b> FASTENERS-Hot Heading	<b>01647</b> NUTS-Blind	<b>02379</b> NUTS-Wing, Low Washer Base
<b>00675</b> BOLTS-Step	<b>00953</b> FASTENERS-Mechanical Belt	<b>01648</b> NUTS-Brass	<b>02380</b> NUTS-Wing With Nylon Inserts
<b>00693</b> BOLTS-Stove	<b>00956</b> FASTENERS-Mil-Spec	<b>01650</b> NUTS-Cage	<b>02381</b> NUTS-Wing With Washer Base
<b>00706</b> BOLTS-Structural	<b>00958</b> FASTENERS-NAS	<b>01660</b> NUTS-Cap	<b>02383</b> NUTS-Wiring
<b>00708</b> BOLTS-Structural, Alternate Design	<b>00960</b> FASTENERS-Powder Actuated	<b>01675</b> NUTS-Castle	<b>02391</b> PIN-Alignment
<b>00715</b> BOLTS-Strut	<b>00962</b> FASTENERS-Press Button	<b>01694</b> NUTS-Clinch	<b>02400</b> PIN-Bed
<b>00730</b> BOLTS-Super Strength	<b>00964</b> FASTENERS-Railroad Track/Trestle	<b>01710</b> NUTS-Clip On, Nonlocking	<b>02410</b> PIN-Clevis
<b>00737</b> BOLTS-T-Head	<b>00972</b> FASTENERS-Rotary Stud	<b>01722</b> NUTS-Clip On, Self-Locking	<b>02418</b> PIN-Clips, Hitch
<b>00740</b> BOLTS-Tamperproof	<b>00975</b> FASTENERS-Self-Locking	<b>01742</b> NUTS-Coupling	<b>02421</b> PIN-Clips
	<b>00976</b> FASTENERS-Self-Sealing	<b>01748</b> NUTS-Dome	<b>02427</b> PIN-Cotter
	<b>00978</b> FASTENERS-Slide	<b>01755</b> NUTS-Extruded (U-Type)	<b>02453</b> PIN-Dowel
	<b>00980</b> FASTENERS-Specials	<b>01757</b> NUTS-Eye	<b>02470</b> PIN-Escutcheon



Hearing Protection  
**41520** PLATING  
**41695** RACKS-Storage  
**41705** RUST PREVENTATIVES-  
 Waterborne  
**41715** RUST & SCALE-Removers  
**41723** SAFETY EQUIPMENT-Clothing,  
 Gloves, Goggles, Etc.  
**41727** SECONDARY OPERATIONS  
**41730** SERVICE-Fastener Inventory  
 Exchange  
**41740** TAPS-Thread Cutting  
**41760** TESTING-Chemical  
**41761** TESTING-Destructive  
**41762** TESTING-Dimensional Inspection  
**41763** TESTING-Failure Analysis  
**41764** TESTING-Metallurgical  
**41765** TESTING-Mechanical  
**41766** TESTING-Nondestructive  
**41770** THREAD DESIGN, Patented  
**41780** TOOLING-Bent Shank Tapper Taps  
**41782** TOOLING-Blocks & Holders (Die,  
 Punch & Cutter)  
**42208** TOOLING-Bolt Stop Holders  
**42210** TOOLING-Casings & Holders  
**42211** TOOLING-Cutters  
**42212** TOOLING-Cutter Holders  
**42213** TOOLING-Cutter Inserts  
**42214** TOOLING-Cut-Off Knives, Carbide  
**42215** TOOLING-Cut-Off Knives, Steel  
**42216** TOOLING-Cut-Off Knives &  
 Fingers  
**42217** TOOLING-Die Cases  
**42218** TOOLING-Dies, Trim  
**42219** TOOLING-Feed Rolls  
**42220** TOOLING-Finger Holders  
**42221** TOOLING-Finger Posts,  
 Nonrotating  
**42222** TOOLING-Finger Transfer  
**42223** TOOLING-Grips, Transfer  
**42224** TOOLING-Grips, Wedge Lock  
**42226** TOOLING-Heading Punches  
 (Upsetting,HeadForming,Trim)  
**42228** TOOLING-Nib Taps  
**42230** TOOLING-Nut Former  
 Adjusting Blocks  
**42232** TOOLING-Nut Former  
 Assembly Blocks  
**42234** TOOLING-Nut Former Fingers  
**42236** TOOLING-Nut Taps  
**42238** TOOLING-Pins, Hex  
**42239** TOOLING-Pins, Knockout  
**42242** TOOLING-Pins & Punches,  
 Carbide  
**42244** TOOLING-Pins & Punches, Steel  
 (Non-Hobbed Types)  
**42246** TOOLING-Pointer Chuck Jaws  
**42248** TOOLING-Pointer Jaws, Cutters  
**42250** TOOLING-Punches  
**42255** TOOLING-Punches, Six-Lobe/  
 Hexalobular  
**42264** TOOLING-Punches, Phillips, Etc  
 (Hobbed Types)  
**42265** TOOLING-Rivet Setting  
**42266** TOOLING-Thread Cutting  
**42268** TOOLING-Transfer Fingers, Grips,  
 Holders, Posts  
**43000** TOOLING TREATMENT-TiC/Tin  
 Cvd/Pvd  
**43030** TOOLING TREATMENT-Ion  
 Nitriding  
**43040** TOOLING TREATMENT-  
 PlasmaSpray  
**44000** TRAINING-Employee  
**44100** VINYL PLASTISOLS

**Machinery/Equipment/Process  
 Classifications**

**60000** AIR CLEANERS  
**60001** AIR POLLUTION-Control Systems  
**60003** APPRAISALS & LIQUIDATIONS  
**60005** AUTOMATIC INSPECTION  
**60027** BARRELS-For Parts Cleaning  
**60038** BOLT HEAD FLASH TRIMMING  
**60049** BOLT MAKING  
**60126** BOLT POINTING  
**60160** BOLT & SCREW HEAD  
 SLOTTING  
**60180** BOLT, SCREW & PART FORMING

**60190** BOLT SHANK EXTRUSION  
**60203** BOLT THREADING  
**60247** BOLT TRIMMING  
**60249** CHAMBERS-Environmental  
**60250** CLEANING-Air Blast  
**60251** CLEANING-Chemical  
**60252** CLEANING-Mechanical  
**60280** COLD FORGING  
**60324** COLD HEADING  
**60368** COLD HEADING-Wire Preheater  
**60370** COMPUTERS-Software  
**60372** COMPUTERS-For Distributors  
**60374** COMPUTERS-For Manufacturers  
**60376** COMPUTERS-Hardware  
**60378** COMPUTERS-Inventory Control  
**60379** COMPUTERS-SPC Data  
 Retention  
**60380** CONTRACT ASSEMBLY  
**60381** CONTROLS-In-Process  
**60382** CONTROLS-Load Monitoring  
**60384** COOLERS-Quench Oil  
**60489** COUNTING-Automatic Electronic  
**60522** COUNTING-Automatic Mechanical  
**60566** CUTTERS  
**60570** CUTTERS-Bolt Wire  
**60576** CUTTERS-Power  
**60578** DATA ACQUISITION SYSTEM  
**60580** DEBURRING & FINISHING  
**60585** DEGREASING  
**60588** DESCALER-Chemical  
**60590** DESCALER-Mechanical  
**60600** DIE MAKING & SERVICING  
**60610** DRILLING & TAPPING  
 MACHINERY  
**60620** DUST COLLECTORS  
**60625** ELECTRICAL CONTROL PANELS  
**60630** EYELET SETTING  
**60632** FABRICATIONS-Small  
**60643** FASTENER-Packaging  
**60690** FEEDERS-Air  
**60764** FEEDERS-Bowls  
**60808** FEEDERS-Custom Design  
**60820** FEEDERS-Parts  
**60841** FEEDERS-Vibrators  
**60860** FEEDERS-Vibratory  
**60880** FLAT WIRE-Straightening & Cutting  
**60885** FLAT WIRE-Wire Flattening  
**60942** FORMING WIRE & STRIP  
**61006** FOUR-SLIDE FORMING  
**61010** FURNACES-Aluminizing  
**61012** FURNACES-Annealing  
**61014** FURNACES-Annealing Accessories  
**61016** FURNACES-Annealing, Gas  
**61018** FURNACES-Annealing, Hardening,  
 Tempering  
**61020** FURNACES-Continuous Annealing  
**61021** FURNACES-Continuous Case  
 Hardening  
**61022** FURNACES-Controlled Atmosphere  
**61024** FURNACES-Electric  
**61025** FURNACES-Gas Fired  
 Rapid Heating  
**61026** FURNACES-Heat Treating  
**61028** FURNACES-Induction  
**61029** FURNACES-Induction Heat  
 Controls  
**61031** FURNACES-Material Handling  
**61032** FURNACES-Mesh Conveyor Belts  
**61033** FURNACES-Spheroidizing  
**61034** FURNACES-Vacuum and Protective  
 Atmosphere  
**61048** GAGES-Screws, Nuts, Bolts Rivets  
 & Washers  
**61049** GAGES-Six-Lobe/Hexalobular  
**61052** GAGES-Thread  
**61053** GAGES-Variable Reading Thread  
**61055** GALVANIZING  
**61057** GALVANIZING-Mechanical  
**61060** GUIDES-Roller  
**61070** HANDTOOLS-Blind Insert  
 Installation  
**61083** HEAD & SHANK DRILLING  
**61127** HEAD TRIMMING  
**61130** HEAT TREATMENT-Automated  
 Controls  
**61135** HEAT TREATMENT PLANT  
**61160** HOT & WARM FORGING  
**61204** HOT HEADERS  
**61248** IN-LINE WIRE DRAWING  
**61260** INSERTION TYPE-For Headless/

Headed Fasteners  
**61265** INSPECTION-Eddy Current  
**61268** INSPECTION-Laser  
**61274** INSPECTION-Optical  
**61275** INSPECTION-Systems  
**61276** INSTRUMENTATION-Impact Test  
**61281** LOCK WASHER  
**61325** MARKING METAL  
**61350** MATERIAL HANDLING-Fasteners  
 & Finished Products  
**61360** MATERIAL HANDLING-Wire, Rod  
 & Bar  
**61369** MATERIAL HANDLING-Systems,  
 Floor & Overhead  
**61412** MEASUREMENT SYSTEM-  
 Coating  
 Thickness  
**61422** MEASURING INSTRUMENTS-  
 Plating & Coating  
**61432** MICROPROCESSORS-In-Process  
 Control  
**61442** MIST & SMOKE ELIMINATORS  
**61446** NAIL & TACKS  
**61480** NAIL-Cleaning & Packing  
**61523** NAIL HEADING  
**61567** NAIL THREADING ROLLS  
**61570** NUT DRILLING  
**61644** NUT FORMING-Cold  
**61689** NUT FORMING-Hot  
**61721** NUT-Self-Locking Element  
 Assembly, Nylon & Metal  
**61742** NUT SLOTTING  
**61765** NUT SPLITTERS  
**61809** NUT TRIMMING, CHAMFERING,  
 TAPPINGS  
**61810** OVENS-Annealing  
**61812** OVENS-Rod Baking  
**61813** PACKAGING-Form, Fill & Seal  
 Machines  
**61814** PACKAGING-Systems  
**61815** PACKAGING-Tubular Bagging  
 Machines  
**61817** PASSIVATION  
**61818** PAYOFF EQUIPMENT  
**61820** PINCH POINTING  
**61828** PLATING PLANT  
**61836** PLATING-Rack Accessories  
**61842** PLATING SYSTEMS  
**61864** POINTERS  
**61886** PORTABLE WIRE  
 STRAIGHTENERS  
**61890** PRECIPITATORS-Electrostatic  
**61891** PROCESS CONTROL  
**61892** PROCESS MONITORING  
**61894** PROCESSES-Heat Treatment  
**61902** PROCESSES-Inspection,  
 QualityControl  
**61906** PROCESSES-Plating  
**61910** PROCESSES-Plating Services  
**61914** PROCESSES-Special Machinery  
**61963** PROGRESSIVE HEADERS,  
 MULTISTATION  
**61985** REBUILDING SERVICES  
**62007** REDRAWING WIRE FOR COLD  
 HEADING  
**62040** RIVET MAKING  
**62050** RIVET SETTING  
**62070** ROBOT-Parts Washing  
**62072** ROBOT-Tending Material Handling  
**62074** ROBOT-Tending Metal Forming  
 Operation  
**62076** ROBOT-Tending Metal Working  
 Machine  
**62078** ROBOT-Tending Packaging  
 Operation  
**62080** ROBOT-Tending Palletizing  
**62082** ROBOT-Tending Stacking &  
 Destacking  
**62084** ROBOT-Tending Tool Handling  
**62100** ROD & BAR SHEARS  
**62110** ROD HEADING  
**62130** ROD WELDING  
**62135** SAMPLE PREPARATION  
**62141** SAWS  
**62151** SCALES-Industrial  
**62156** SCREW HEAD SLOTTING  
**62161** SCREW MAKING  
**62181** SCREW & WASHER ASSEMBLY  
**62185** SECONDARY MACHINING  
**62190** SEPARATORS-Alloy

**62249** SHANK SLOTTING-Nylon Insert  
**62250** SORTING  
**62251** SOUND ENCLOSURES  
**62300** SPLASH & CHIP CONTAINMENT  
 CABINETS  
**62326** STAPLE MAKING  
**62340** STRAIGHTENING & CUT-OFF  
**62346** SYSTEMS-Conveyor  
**62348** SYSTEMS-Employee Training  
**62352** SYSTEMS-Environmental Control  
**62354** SYSTEMS-High Frequency  
 Hardening  
**62356** SYSTEMS-Lubricating  
**62358** SYSTEMS-Manufacturing Control  
 & Information  
**62359** SYSTEMS-Small Parts Handling  
**62360** TAPPING  
**62406** TAPPING-Nut  
**62408** TEST EQUIPMENT-Destructive  
**62410** TEST EQUIPMENT-Non-  
 Destructive  
**62412** TESTERS-Bend  
**62414** TESTERS-Dynamic  
**62416** TESTERS-Fatigue  
**62418** TESTERS-Flaws in Metal  
**62420** TESTERS-Hardness  
**62421** TESTERS-Material  
**62422** TESTERS-Tensile  
**62424** TESTERS-Tension  
**62426** TESTERS-Torque-Tension  
**62428** TESTERS-Upper for Cold  
 Heading Stock  
**62447** THREAD CUTTING  
**62480** THREAD GRINDING  
**62568** THREAD ROLLING  
**62570** TREATMENT-Metal Coating  
**62580** TREATMENT-Surface  
**62601** U BOLT-Machine  
**62689** ULTRASONIC CLEANING  
**62722** USED & RECONDITIONED  
**62742** VENTILATING SYSTEMS/  
 EQUIPMENT  
**62766** VIBRATING DRUM,ELEVATOR,  
 ROTARY  
**62800** WASHERS SPRING  
**62806** WASHING DEGREASING  
 PLANT  
**62810** WELDING-Butt  
**62814** WELDING-Spot  
**62818** WELDING-Stud  
**62847** WIRE HEATER  
**62848** WIRE HOLE DRILLING  
**62849** WIRE STRAIGHTENING  
**62850** WIRE WELDING

**Assembly Equipment/Tools/Supplies**

**70000** ASSEMBLY STATIONS  
**70010** ASSEMBLY & TEST SYSTEMS  
**70017** ASSEMBLIES-Washer,Custom  
 Built  
**70020** AUTOMATIC ASSEMBLY  
**70030** AUTOMATIC SCREWDRIVING  
**70040** BENCHES-Assembly  
**70043** BITS-Driver Recess  
**70045** BITS-High Speed Drill  
**70047** BITS-Masonry Drill  
**70050** CABINETS  
**70055** COLLATING MACHINES-Nails &  
 Screws  
**70060** COMPOUNDS-Anti-Seize  
**70070** CONTROLS-Automatic Assembly  
**70080** CONTROLS-Programming  
**70090** CONTROLS-Vibratory Feeder  
**70100** CONVEYOR SYSTEMS  
**70108** EXTRACTOR  
**70110** EYELET SETTING MACHINERY  
**70130** FEEDERS-Belt  
**70140** FEEDERS-Bowl  
**70150** FEEDERS-Drum  
**70160** FEEDERS-Vibratory  
**70162** HAND TOOLS-Blind Insert  
 Installation  
**70166** HAND TOOLS-Inserts  
**70170** HAND TOOLS-Nailing  
**70190** HAND TOOLS-Riveters  
**70200** HAND TOOLS-Screwdrivers,  
 Slotted & Recess Head  
**70201** HAND TOOLS-Screwdrivers,  
 Spline Drive

70202 HAND TOOLS-Stapling  
 70205 HAND TOOLS-Testing  
 70210 HAND TOOLS-Wrenches Hexagon  
 70211 HAND TOOLS-Wrenches Spline Drive  
 70220 HAND TOOLS-Wrenches Torque Electronic  
 70230 HAND TOOLS-Wrenches Torque Mechanical  
 70240 HAND TOOLS-Wrenches 12 pt.  
 70250 HOPPERS  
 70260 IMPACT WRENCHES  
 70270 LOAD CELLS  
 70280 PARTS STORAGE & RETRIEVAL SYSTEMS  
 70290 PICK & PLACE DEVICES  
 70300 POSITIONERS-Parts

70310 POWER TOOLS-Accessories  
 70320 POWER TOOLS-Air Driven  
 70330 POWER TOOLS-Drills/Tappers  
 70340 POWER TOOLS-Electric Driven  
 70350 POWER TOOLS-Grinders  
 70360 POWER TOOLS-Impact  
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 70380 POWER TOOLS-Percussive  
 70390 POWER TOOLS-Pneumatic Fastening  
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 70420 POWER TOOL-RiveterMachine, Single & Multiple Head  
 70430 POWER TOOLS-Riveters Portable  
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 70467 POWER TOOLS-Tensioners Stud  
 70468 POWER TOOLS-Testing  
 70470 POWER TOOLS-Torque Control Electronic Units  
 70480 POWER TOOLS-Wrenches Impact  
 70490 PRESSES-For Assembly  
 70500 PRESSES-For Crimping  
 70510 RETRIEVING TOOLS  
 70520 RIVET ASSEMBLY  
 70530 RIVETERS-Automatic  
 70540 RIVETERS-Bench & Pedestal  
 70550 RIVETERS-Compression  
 70560 RIVETERS-Drill-Type  
 70570 RIVETERS-Multiple

70580 RIVETERS-Orbital/Radial  
 70590 RIVETERS-Punch-Type  
 70600 RIVETERS-Snap-Type  
 70610 RIVETERS-Special  
 70620 RIVETING TOOL SETS  
 70630 ROBOTS-Industrial  
 70640 ROBOT-Tending Assembly Function  
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