For over three decades, Semblex Corporation has been a major supplier of engineered threaded fasteners to the automotive industry and the industrial marketplace. Providing quality fasteners & services requires ever expanding manufacturing, engineering and service capabilities to respond to ever expanding customer needs and requirements.

The demand for miniature cold headed fasteners and components is increasing at accelerating rates. Consumer and industrial products continue to be manufactured smaller and smaller, as well as, more efficiently. Product downsizing of growth products is driving the demand; in the electronics through the telecommunications industry; from notebook computers to cellular phones and pagers; in numerous electronic components and sub-assemblies for industrial and consumer products, for automobiles through major appliances. Cost reduction, quality, fastener strength and assembly integrity have cold headed miniature fasteners and components replacing (higher cost, chip and burr contaminated) traditional screw machine parts.
APPLICATION
Computer Chip
PRODUCT
IC Lead
Collar Pin

APPLICATION
Electrical Controls
PRODUCT
Copper Multi-die Terminal Pin

APPLICATION
Telecommunications
Apparatus
PRODUCT
Contact Pin

APPLICATION
Eye Glasses
PRODUCT
Cold Headed Screw
Cost savings
(replaced screw machine part)

APPLICATION
Computer Inkjet Printer
PRODUCT
Multi-die Cold Headed Brass Pin
Cost savings
(replaced screw machine part)

APPLICATION
Automotive Ignition System
PRODUCT
Firing Pin

APPLICATION
Electrical Switch
PRODUCT
Semi-tubular Brass Contact Pin

APPLICATION
Automotive Mirrors
PRODUCT
Brass Multi-Die Ferrule wire crimp/ control wires

APPLICATION
Ballpoint Pen
PRODUCT
Multi-die Pin
Cost savings
(replaced screw machine part)

APPLICATION
Food Processing Blender
PRODUCT
Copper Pedestal Contact

APPLICATION
Telecommunications
PRODUCT
Copper contact inside phone

APPLICATION
Telecommunications
PRODUCT
Copper Terminal telecommunications apparatus

APPLICATION
Computer Inkjet Printer
PRODUCT
Multi-die Cold Headed Brass Pin
Cost savings
(replaced screw machine part)
Design For Manufacturing

Multi-die cold heading conversion of miniature screw machine parts

cost reduction: lower cost manufacturing process; machining scrap eliminated

improves quality: chips and burrs eliminated

improves strength: work hardened grain structure vs. cut and weakened part, from milling

Electropolished fasteners for HDA - Head Disc Assemblies and other high tech applications

Electro-chemical process cleans and polishes fastener surface

cost reduction: reduces thread galling and assembly drive torque

improves quality: satisfies Class 100 clean room requirements

improves strength: reduces torsional stress

Semplex Is Product Integrity

INDUSTRY / APPLICATION

Business Equipment
Computers
Connectors
Disc Drives
Fax Machines
Keyboards
Modems
Photocopiers
Printers

Telecommunications
Cellular Telephones
Fibre Optics
Pagers
Telephone Apparatus and Equipment
Television Cable Boxes
Television Sets
VCR’s

Video Cameras
Video Cassettes
Wireless Communications

Industrial
Appliance
Automotive
Cameras
Clocks
Controls

Dental Products
Injection Molded Products
Instrumentation
Medical Products
Motors
Optical Products
Switches
Thermostats
Watches
**Miniature thread forming screws for plastic**
Polyfast® Plastilok® Plasto-Driv® PTR PT® Duro-PT® PT® Type DG® Fasteners
Design assistance matches proper screw with specific plastic

- **cost reduction**: increases productivity
- **improves quality**: reduces strip-out; reduces rework
- **improves strength**: reduces boss stress; increases joint integrity

**Miniature radius point screws**

- **cost reduction**: self-aligning feature increases productivity
- **improves quality**: reduces rework; smooth point improves assembler and consumer safety
- **improves strength**: reduces cross threading; increases joint integrity

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*Improved operating efficiencies through engineered fastening solutions.*

**Miniature thread forming screws for metal**
Rolok® Tapmate™ TR PT® Type DG® Fasteners

- **cost reduction**: eliminates tapping
- **improves quality**: interference-fit, roll-formed mating threads create a locking feature
- **improves strength**: work hardened, roll-formed mating threads increase joint integrity
SIZE RANGE

Non-threaded Products

- **Inch**
  
  Minimum Diameter: 0.0120”
  
  Minimum Length: 1/16” (0.0625”)

- **Metric**
  
  Minimum Diameter: M.3 (0.3mm) / (0.0118”)
  
  Minimum Length: 1.5mm / (0.0590”)

Threaded Products

- **Inch**
  
  Minimum Diameter: #000 (0.0340”)
  
  Minimum Length: 1/16” (0.0625”)

- **Metric**
  
  Minimum Diameter: M.6 (0.6mm) / (0.0236”)
  
  Minimum Length: 1.5mm / (0.0590”)

Materials

- Carbon Steel
- Alloy Steel
- Stainless Steel
- Copper
- Brass
- Bronze
- Aluminum
- other materials upon request
Semplex Corporation, a leader in the fastener industry, has responded to the challenges of product down sizing, cost reduction, continuous quality improvement and assembly integrity by establishing a miniature fastener and component division. This high tech division is equipped with precision micro former single and multi-die cold heading and thread rolling machines. Tight tolerance machine capabilities produce semi-tubular parts, special extrusions, and parts with shoulders and collars.

**Semplex is Product Integrity**

Quality, Technology, Service…

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