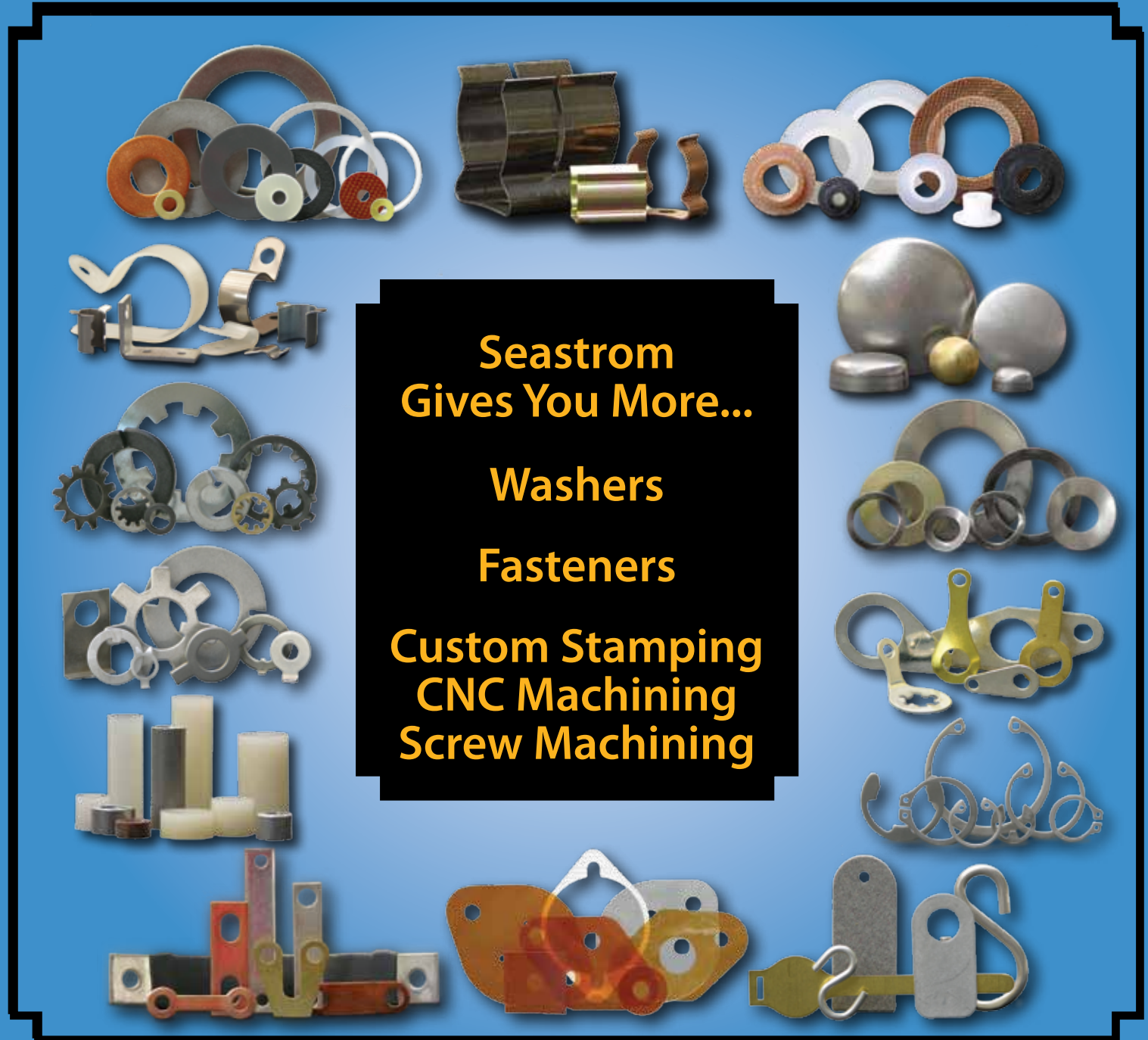




Made in the USA since 1928

The Most Comprehensive Online Catalog for Precision Washers & Fasteners



**Seastrom
Gives You More...**

Washers

Fasteners

**Custom Stamping
CNC Machining
Screw Machining**



Seastrom Manufacturing Co., Inc. - About Us

Committed to Quality Manufacturing & Service in the United States since 1928

Seastrom is a true story of the realization of the American Dream. Seastrom was founded in Glendale, California in 1928 by Wensil Seastrom in his garage. The company resided in Glendale in several locations until 1994, when it moved to Twin Falls, Idaho. Still family owned today, Seastrom's state-of-the-art 100,000 square foot facility houses the premier stocking manufacturer of precision fasteners.

Seastrom stocks over 44,000 part numbers of a wide variety of fasteners, including flat round washers, spring clips, spacers, shoulder washers, lock washers, clamps, brackets, expansion plugs and much more. We also manufacture and supply Hiram Jones pins, terminals & connectors.

Aside from our huge inventory of stocked parts, Seastrom can modify any of our standard part numbers to meet your applications, reducing the cost of tooling.

If our standards or a modification doesn't work, Seastrom engineers will work with you to design the best and most economical part for your application.

Seastrom Manufacturing is a full service manufacturer. With Seastrom, we not only make quality parts, we help make quality products.



Seastrom Gives You More...

Stock Standard Products and Custom Capabilities in one manufacturer

As budgets get tighter and you take on more responsibilities, Seastrom, as a full service manufacturer has the stock, personnel and expertise to help you control costs. You can choose from our huge selection of stocked standard precision hardware to find the part that meets your specifications. If stocked standards do not meet your requirements, we can partner with your company to engineer new parts and products, recommend economical purchasing, and can stock proprietary products for immediate delivery.

Seastrom emphasizes systems integration, quality engineering, high-speed production, facility-wide networking and strict project control to promote product quality, project safety and conformance to technical standards. We utilize virtually all stampable metals and non-metals. Seastrom specializes in extensive die and material changes to meet the wide variety of customer orders and our reputation for quality workmanship assures each customer that their product needs will be met. Our goal is to be your one stop partner for precision fasteners.

Stock Standard Washers and Fasteners

Seastrom manufactures and stocks the largest quantity of precision fasteners in the industry. Over 44,000 part numbers equating to over 158 million parts. This inventory gives our customers options when buying standard and specialty hardware. If we do not have exactly what you need, we may have an equivalent part close enough in size, thickness, material or plating to meet your needs. All Seastrom standard parts are listed online with their price, stock and delivery for ease of use. Online ordering is also available. If a pricing is not available an email quote request is provided for our customer's convenience.

Find all this and more at www.seastrom-mfg.com.

Standard Part Modifications

Seastrom's large tool and die department enables us to easily modify our standard tooling to accommodate basic standard part modifications. This enables our customers to avoid costly custom tooling when their specification is close to one of our standards (ie. modifications in length, width, number of holes, etc.)

Custom Products

Custom products are a specialty of Seastrom Manufacturing. As a full service manufacturer, we can help our customers save time and money on a custom product beginning with the design process. Seastrom has multiple methods of manufacturing (ie. Stamping, CNC, Screw Machine, Four Slide) which translates into a vast amount of knowledge that our customers can draw upon. Our in-house engineering departments can work with our customers' engineers to recommend manufacturing methods, materials, tolerances, and configurations that are possible in each method of manufacturing. All that our engineering department requires are quantities, target pricing and the ability to view the whole assembly. If you don't have the capability to make a schematic, they can do that for you, as well as reverse-engineer an existing part that you don't have dimensions for. As the project develops, quotes can be given on the parts to make sure you stay within your price point. Projects can consist of only one part, or as many as you require.

www.seastrom-mfg.com

www.seastromwashers.com

800-634-2356 Fax 208-734-7222

Stock Standard Washers

See our online catalog for part numbers, price and delivery!

Round Flat Washers



Spring Washers: Belleville, Wave, Crescent, Dome, Single Wave



Shoulder Washers



Lockwashers: External, Internal, Helical



Countersunk Washers



Retention Washers



Split Washers



Finishing Washers



Retaining Washers



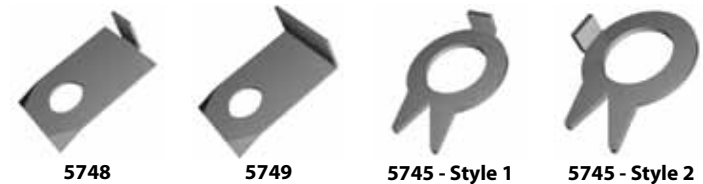
Centering Washers



Terminal Cup Washers



Tab Lock Washers



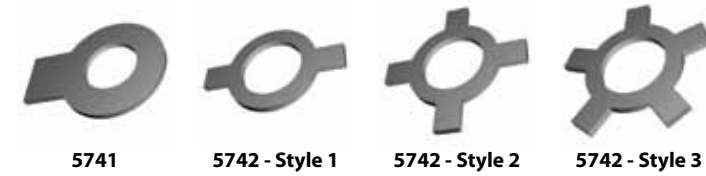
Internal Tab Washers



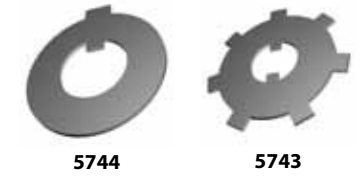
Stock Standard Washers, Expansion Plugs & O-Rings

See our online catalog for part numbers, price and delivery!

External Tab Washers



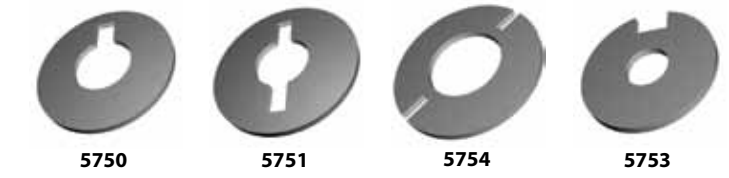
Internal & External Tab Washers



Formed Key Washers



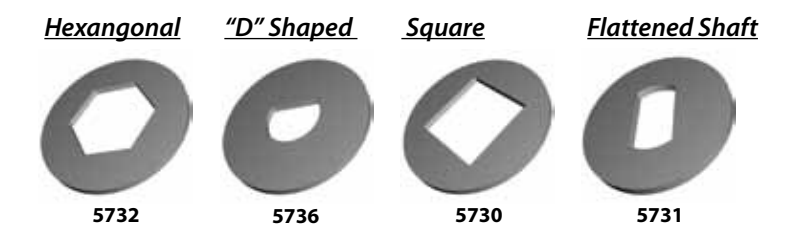
Internal & External Notch Washers



Miscellaneous External Shaped Washers



Miscellaneous Internal Shaped Hole Washers



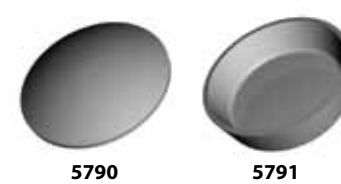
Spacers



Retaining Rings



Expansion Plugs



O-Rings



Stock Standard Spring Clips

See our online catalog for part numbers, price and delivery!

Spring Clips (Component, Fuse)



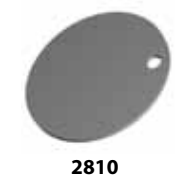
Stock Standard Clamps & Brackets

See our online catalog for part numbers, price and delivery!

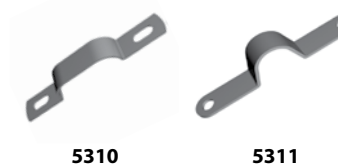
Component Clamps



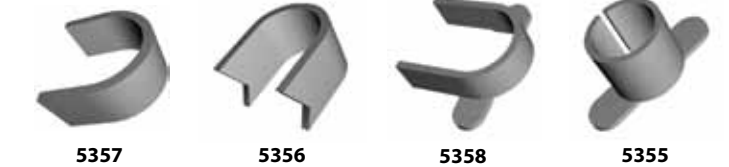
Hold Down Clamp



Retaining Clamps



Cord Clamp (Strain Relief)



Cable Clamps



Double Cable Clamps



Tube Clamps



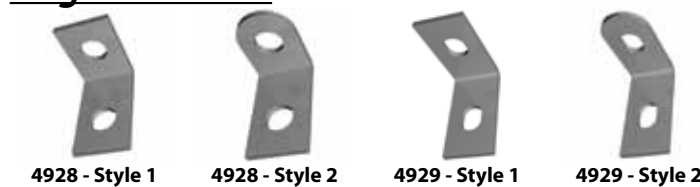
Loop Clamps



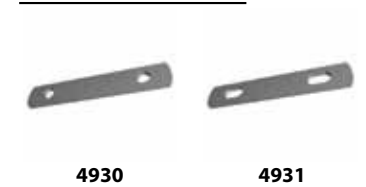
"J" Clips



Angle Brackets



Flat Brackets



Transformer Strap



Terminal Board Bracket



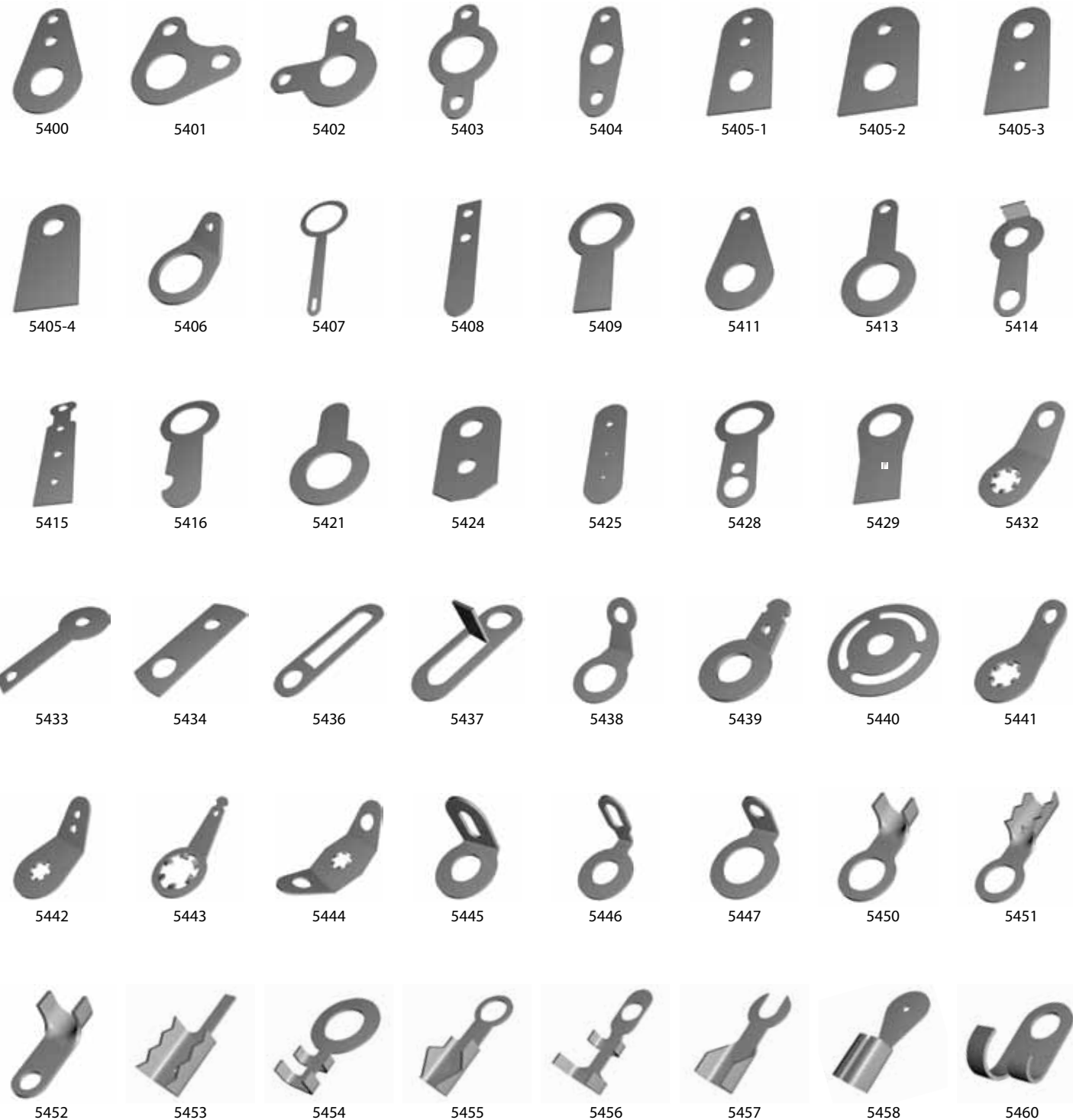
Mounting Bracket



Stock Standard Solder Lugs

See our online catalog for part numbers, price and delivery!

Solder Lugs



Stock Standard Grounding Straps, Jumpers, Bus Bars & Tags

See our online catalog for part numbers, price and delivery!

Solder Lugs



Flexible Grounding Strap



Double Washers/Ground Straps



Jumpers



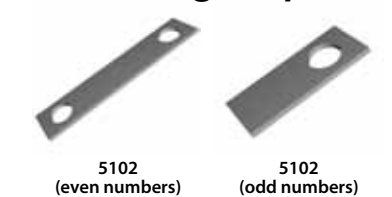
Bus Bars



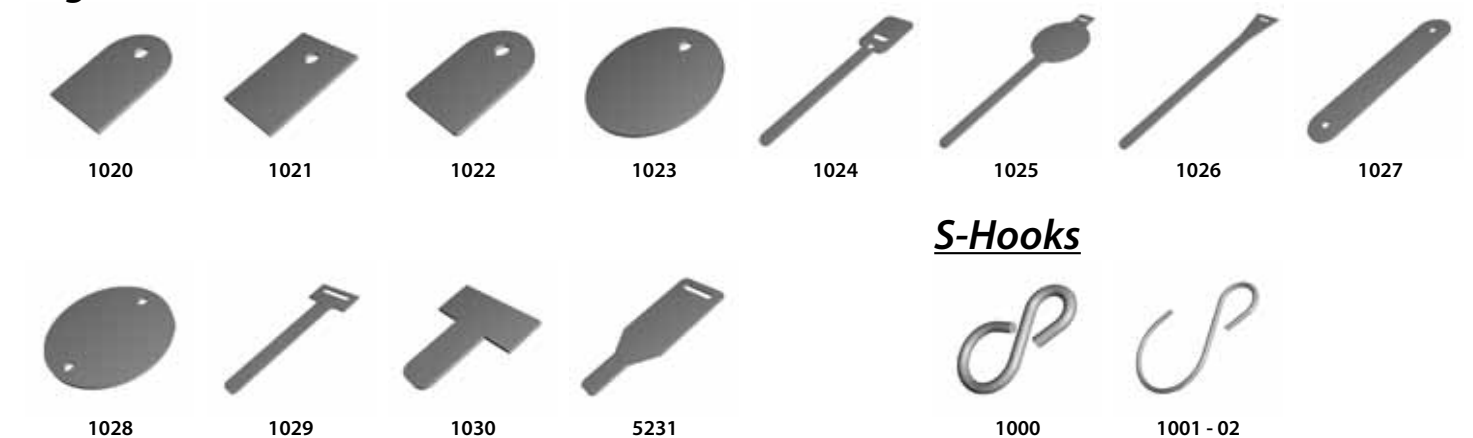
Terminal Strip



Insulating Strips



Tags

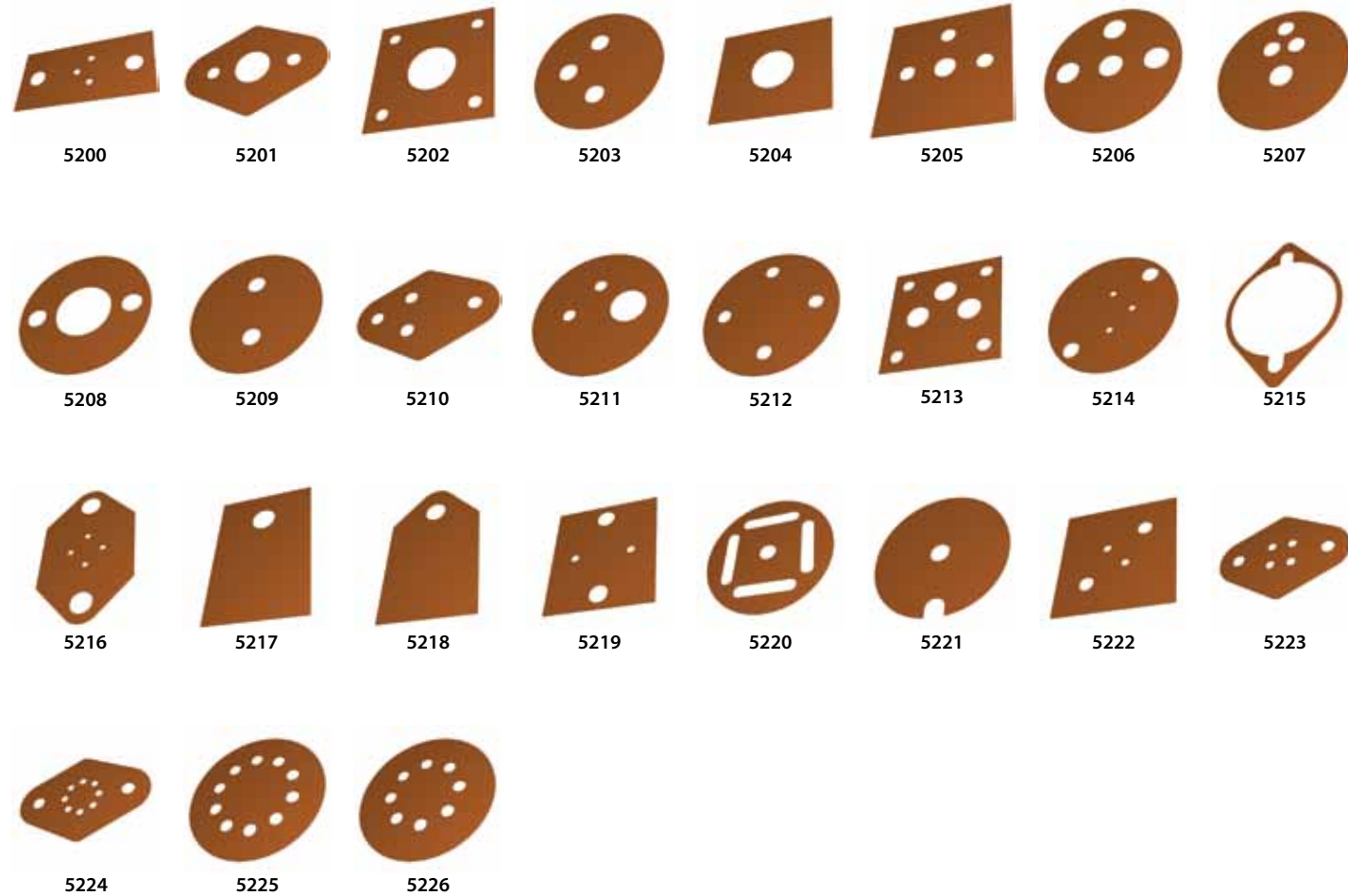




Stock Standard Solid State Insulators & Push-on Nuts

See our online catalog for part numbers, price and delivery!

Solid State Insulators



Push-On Nuts



2713

Formed Nuts



2720

Formed Nut Strips



2705

Tapped Nut Strips



2706

Stock Military Standards & Hiram Jones Pins & Terminals

See our online catalog for part numbers, price and delivery!

Military Standards: MS, NAS, M, AN, USAF

MS	MS21258	MS35650	NAS	NAS1401	AN
MS704,	MS21315	MS35691	NAS21	NAS1411	AN231-1, -2
MS9101 - 04	MS21332	MS39085	NAS43 - 44	NAS1454	AN901
MS9165 - 68	MS22048	MS45904	NAS47	NAS1464	AN904
MS9176,	MS25081 - 82	MS51092	NAS61	NAS1515	AN970
MS9228 - 30	MS25226	MS51412	NAS128	NAS1587	AN3067W3
MS9276,	MS25440	MS51496	NAS301	NAS1635	AN3111
MS9320 - 21	MS27183	MS51535 - 36	NAS463	NAS1640	AN3195
MS9353 - 54	MS27309	MS51560	NAS500	NAS1837	AN6238
MS9366	MS29524	MS51848	NAS536	NAS6703 - 06	
MS9379 - 80	MS29532	MS51857	NAS549		USAF
MS9394 - 95	MS35140	MS51859	NAS578		USAF650
MS9549	MS35206	MS51867	NAS620	M	USAF750
MS9551 - 52	MS35333	MS51936	NAS950	M24066/2, 3, 4	
MS9581 - 82	MS35336	MS51957	NAS1003 - 4	M38527/08	
MS9592 - 94	MS35338	MS63040	NAS1006	M38527/8, 9	
MS9597	MS35340	MS75009	NAS1057	M43436/1	
MS9599-9601	MS35430 - 31	MS75044 - 45	NAS1060	M45595/1, 2	
MS14151	MS35436	MS77066	NAS1062	M45595/6, 7, 8	
MS15795	MS35438	MS77068 - 71	NAS1070	M49466/01	
MS16212 - 13	MS35440	MS77073 - 74	NAS1149	M70334/1	
MS17186	MS35443	MS90134	NAS1169		
MS17811	MS35445	MS91124	NAS1195		
MS17840	MS35649	MS91608	NAS1252		

Hiram Jones: Pins, Terminals & Connectors

Terminal Pin

Terminal Stud

Terminal Base

Terminal Spacer

Terminal Standoff

Bifurcated Terminals

Swage Type Terminals

Crimp and Ground Terminals

Uninsulated Terminals

MIL-T-55155 Non-Insulated Terminals

Insulators

Insulated Terminals

Teflon Insulated Press-Type Terminals

Teflon Insulated Assembled Standoff

Teflon Insulated Test Jack and Test Point

Teflon Insulated Assembled Feed Thru Terminals



09-042



1122



9W-214



Custom Manufacturing Processes

Stamping, CNC Machining, Multi-Spindle Screw Machine, Four-Slide, Secondary Operations & Assembly

Stamping

- High precision
- .001 to .125 thickness
- Up to 6" width
- Prototype parts
- Short & Long run capabilities
- Washer sizes from .05 to 4" OD in any .005 increment
- Metallic & Non-metallic materials



CNC Machining

- High precision
- 4 Axis
- Up to 40" x 60" milling bed capability
- Up to 10" - 12" turning capability
- Most all machinable metals & non-metals



Multi-spindle Screw Machining

- High precision
- Prototype
- Short and Long run capabilities
- Most all machinable metals & non-metals



Four-slide

- No carry strip - low material waste
- Multi-bend and wrapped parts
- Ribbon or wire metallic materials
- Forming and cut aways
- Cost effective tooling
- Short and Long run capabilities
- Most machinable metals



Secondary Operations & Assembly

- FOD (Foreign Object Detection)
- Wide variety of services to fulfill our customers needs (ie. tapping, riveting, etc.)
- Complete product assembly



Special Packaging

- Packaging to customer specifications
- Bar code
- Custom labeling
- Special quantity pack
- Skin pack



Value Added Services

Engineering, Tooling Department, Quality Control, Customer Service

Engineering

Seastrom has a fully staffed engineering department to help with the design process of a new product. We have expertise in multiple methods of manufacturing which translates into a large amount of options when deciding the best and most cost effective process to create your custom product. We specialize in working closely with our customers' engineers to produce the best part for their specification.



Tooling Department

Seastrom is able to stand behind our huge offering of stock standard products due to our vast inventory of tooling. This tooling allows us to immediately manufacture our catalog products. We also design and make custom dies and tooling to our customers' product specifications. Our tooling ranges from compound inserts to complex progressive dies.



Quality Control

Our Quality Control department utilizes state of the art equipment to ensure that all Seastrom products meet all specifications. Quality Control maintains complete lot traceability, offers material and product testing, process certification, first article qualification and inspection. PPAP and AS9100 procedures are a part of the inspection process. Every job that runs through Seastrom's plant is shipped only after complete final product inspection has been performed.



Customer Service

All orders start with Customer Service. Seastrom takes pride in their friendly and courteous staff available to take your order or answer your questions. If we don't know the answer we will find out for you.



Materials & Finishes

Seastrom offers the following standard materials and finishes. Other materials and finishes can be quoted to meet our customers' custom part specifications.

Metallic Materials:

Aluminum 2024 T3/T4
 Beryllium Copper
 Brass
 Copper
 Inconel
 Phosphor Bronze
 Solder
 Steel
 Spring Steel
 Stainless Steel (300 series)
 Titanium

Non-Metallic Materials:

Vulcanized Fibre
 Glass Epoxy G10
 Glass Melamine
 Glass Silicone
 Kapton
 PCTFE
 Mica
 Mylar
 Neoprene
 Nylatron
 Nylon
 Phenolic (CE, LE, XXXP)
 Polyethylene (High Density)
 PVC
 Santoprene
 Teflon

Material Finishes:

Anodizing
 Black Oxide
 Cadmium Plate
 Chem. Film
 Chrome
 Nickel Plate
 Passivate
 Phosphate
 Silver Plate
 Tin Plate
 Tin Dip
 Tin Lead Plate
 Zinc Plate



How to Specify Special Parts:

The primary way to avoid the development of a special part or to minimize the cost of tooling for a special part is to include only the restrictions which are critical to the functioning of the part.

The restrictions that lead to higher production costs are:

- Over-dimensioning a part
- Non-mil standard material, thicknesses and tolerances
- Unnecessary temper and hardness ranges and heat treating
- Flatness better than .005 TIR per inch
- Tighter dimensional tolerances than necessary
- Extremely small percentage of burr or burr free condition.

If you have any questions regarding the development of a part for your application, please let one of our experienced engineers help you.

Seastrom's Certifications

Seastrom takes pride in its efforts to comply with all current quality, employment and environmental certifications.



Federal Supply Code:
86928



PPAP
REACH



Small Business
Drug Free Workplace



800-634-2356 Fax 208-734-7222

www.seastrom-mfg.com www.seastromwashers.com



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