

barrels
&
screws



beyond your imagination

Services for Plastics, Inc.

SFP®

Our Advantage

OUR MISSION

We are committed to providing the plastic industry with quality products at the lowest prices and to extend personal, expedient customer service. We utilize our knowledge and hands-on molding experience to provide you with OEM or superior quality new and rebuilt barrels, screws and screw tip assemblies.

PRODUCT SELECTION

SFP has more than **1000** barrels and screws IN STOCK, which are available for same day shipping. We carry the most popular brands, as well as the hard-to-find ones.

If you need something other than the standard sizes, we can build it for you. We have thousands of prints for all major molding machines. And if we don't have your print, we can design from your product sample.

EXPERIENCE

SFP has been solving plastic molding problems for its customers for over 20 years. With over 150 years of hands-on molding experience, our engineering team provides all the technical support you need.

SPECIAL SERVICES

In addition to building or reconditioning standard barrels and screws, we specialize in super wear resistant tool steels, downsize/upsized conversions, and thermoplastic/thermoset conversions. We also remove screws locked in barrels and repair bolt holes, threads, keyways, feed holes and ports.

DELIVERY

With our huge selection of barrels and screws, we will likely have what you need IN STOCK. If we have it in our inventory, we will ship it the same day. If we don't have what you need, we can build it for you in very little time. And when expediting is required, we can ship your new screw or barrel in just two weeks or less.

QUALITY CRAFTSMANSHIP

We believe there's nothing more important than getting it right the first time! That's why our team of engineering experts does whatever it takes to design the best barrel or screw to match your application.

Once the design is complete, our barrels and screws are precision built to provide you with the highest level of quality and performance possible. Each barrel and screw is then quality inspected for dimensional accuracy, straightness, and surface finishing.

QUICK QUOTES

To save time when requesting a quotation, you can now request a quote on-line. Simply visit our website at www.servicesforplastics.com and click on "REQUEST A QUOTE." We'll expedite your request and have a price to you within 24 hours. It's convenient, quick and simple to use.

OUR GUARANTEE

We guarantee our barrels and screws to be free of defective materials and workmanship for 90 days (industry standard). Extended life warranties are available on some materials.

Our state-of-the-art milling and boring centers produce all configurations and profiles of barrels and screws for the plastic molding industry.



CONTACT US

SFP delivers the products and services you need to make your job easier. For more details, contact us at:

TELEPHONE:

800-627-1033

FAX:

800-482-4059

E-MAIL:

sales@servicesforplastics.com

INTERNET:

www.servicesforplastics.com

SERVICES FOR PLASTICS, INC.

7925 N. Clinton Street
Fort Wayne, IN 46825-3113



Each product is quality inspected at every stage of production to ensure optimum performance for our customers.



Our team of seven design engineers has the knowledge and hands-on experience to provide you with the best solution to make your process run efficiently.

On The Shelf

With over 1000 new barrels and screws in stock, we'll likely have what you need in our inventory. We carry the most popular machine brands, as well as the hard-to-find ones.

Below is a sampling of the brands we currently have on the shelf. To check our inventory, simply call us and ask for one of our sales engineers.

ARBURG
 AUTOJECTOR
 BATTENFELD
 BOY
 BUCHER
 CINCINNATI
 CINCINNATI ACT
 CINCINNATI ROBOSHOT
 CINCINNATI VISTA
 CINCINNATI VISTA SENTRY
 EGAN
 ENGEL
 FARREL
 GOLDSTAR
 HPM
 HUSKY
 ILLINOIS PRECISION
 IMPCO
 JSW
 KAWAGUCHI
 KRAUSS MAFFEI
 MIR
 MITSUBISHI
 NATCO
 NEGRI BOSSI
 NETSTAL
 NEW BRITAIN
 NEWBURY
 NIIGATA
 NISSIN
 NISSEI
 REED
 SANDRETTO
 STOKES
 SUMITOMO
 TMC
 TOSHIBA
 TOYO
 TRUEBLOOD
 UBE
 VAN DORN

Barrels

OUR DESIGN TEAM

Selecting the right barrel for your application can be very challenging and time consuming. At a minimum, you have to know all the characteristics of the resin(s) used in the process, as well as which alloys are best suited for the resin. Our Design Team makes it easy. Utilizing their extensive plastic molding experience and knowledge, our Design Team will provide you with the best solution to meet your application's requirements.

PREMIER CRAFTSMANSHIP

SFP Barrels are manufactured from the finest quality materials to withstand the stringent demands of the plastic molding industry. Every barrel we produce is precisely manufactured to your specifications using the latest technology and then quality inspected to ensure optimum performance.

RECONDITIONING SERVICES

In most situations, barrels can be resleeved at a considerable cost savings over replacement. Our standard resleeving process includes:

- Measuring the barrel
- Determining the length of sleeve necessary to return to OEM specifications
- Machining out the old liner
- Resleeving with the desired material
- Tapping all threads
- Polishing

PRODUCTION CAPABILITIES

We can manufacture any barrel up to 6" (150 mm) ID. Barrels are available in a variety of materials and can be manufactured with a 4140, 4340 or JP38 backing. Barrel liners are available in D-2, CPM®-10V, CPM®-15V, CPM®-420V Stainless Steel, 555 Bi-metallic, 666 Bi-metallic, and 777 Bi-metallic.



Screws

OUR DESIGN TEAM

As with barrels, feedscrews have many variables which need to be considered during the selection process. Our Design Team can eliminate the guesswork and provide you with an ideal screw solution for your application.

PREMIER CRAFTSMANSHIP

Our screws represent the finest workmanship in the industry. Every screw is produced to conform to your specifications and our rigid quality standards. We inspect our screws for accurate gauging of all dimensions. We also evaluate the screw's appearance/performance requirements by performing quality checks to verify:

- Material Composition
- Mechanical Dimensions
- Welding
- Hardness Testing
- Straightness
- Surface Finish

PRODUCTION CAPABILITIES

We can manufacture any screw from ½" (12 mm) to 6 ¼" (160 mm) OD. Our screws are available in a variety of tool steels.

Base materials include:

- 4140
- D-2
- And other choice tool steels
- Nitralloy 135m
- CPM®

Standard surface hardenings include:

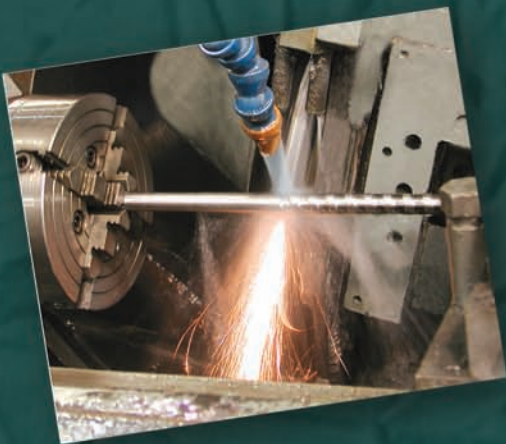
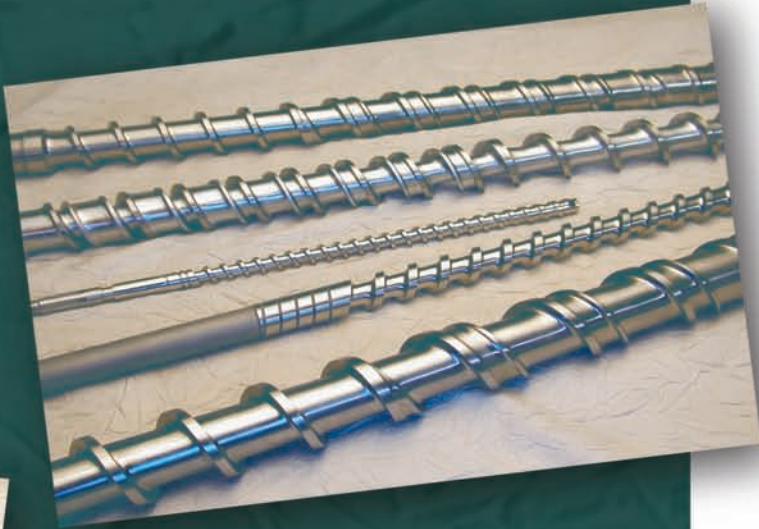
- Nitriding
- Carbide Encapsulation
- Industrial Hard Chrome Plating
- Armoloy®
- Titanium Nitriding

RECONDITIONING SERVICES

Typically, screws can be rebuilt at a significant cost savings over replacement. We can rebuild flites with Stellite or Colmonoy hardfacing, which generally last longer than a new general purpose screw. We can rebuild and protect your screw with hard Chrome plating or Nitriding.

Our standard reconditioning services include:

- Rebuilding flite diameters
- Reworking root diameters
- Changing compression ratios
- Replacing broken drive ends and tip ends
- Repair of I.D. and other imperfections.



Screw Tip Assemblies

We can manufacture Screw Tip Assemblies from five standard designs or we can custom design based on your specific requirements. Screw Tip Assemblies can be manufactured from: H-13, CPM-9V, CPM-420V, D-2 or Nitralloy 135m. Our standard designs are appropriate for all varieties of molding applications.

STANDARD DESIGNS

General Purpose Design

- Good for most general purpose materials
- Good for color mixing
- Good shut-off
- Excellent for small precise shots

Free-Flow Design

- Faster screw recovery - less heat build-up
- Possibility of faster cycles
- Available with or without rotating ring

4-pc. & 5-pc. Designs

- Seat, ring and body made of D-2 Thru-hardened Heat Treated Tool Steel, Nitrided 72 hours for wear resistance
- Tough, replaceable 4140 stud for torque
- Very good in processes where stud breakage has been a problem
- You need only replace the stud if other parts are in good condition

Mallard® 4-pc. Standard Non-Return Ring Design

- High abrasion resistance
- Optional carbide layer for extreme processing conditions
- Reusable stainless steel retainer

Mallard® 4-pc. Bronze Spinner™ Valve Design

- Improves ball check operations in applications using non-filled resins
- Fast injection cycles and high speed screw rotation

NEED A DIFFERENT DESIGN?

Send us a used sample part and specify the material you want us to use. We will send you a quote based on your specific requirements.

Nozzles and Nozzle Tips

We offer three designs and two types of Nozzles. Standard designs include: General Purpose, Reverse Taper (Nylon), and Full Taper for ABS. Each design is available as Replaceable Tip Type or Solid Body Type.

Nozzle Tips are available in standard and extended lengths. Manufactured from either S-5 Tool Steel or Beryllium Copper, our Nozzle Tips fit all Replaceable Tip Nozzles.



End Caps

We stock End Caps for a wide selection of machine makes. If we don't have your End Cap on the shelf, we can design and/or make one to best match your molding application. Our End Caps are manufactured from 4140 or H-13 Steel and nitrided for durability and long life.

Tie Bars

We manufacture Tie Bars from the best "stress-proof" materials available. Chrome plating is available for even greater protection. To prevent uneven stretching, we recommend replacement of all four tie bars at one time.

Etc.

In addition to Barrels, Screws, Screw Tip Assemblies, Nozzles, Nozzle Tips, End Caps and Tie Bars, we offer a wide variety of plastic molding accessories and services. We provide all of the products you need to make your plastic molding processes run efficiently and cost effectively.

Call us today for a full-line catalog or visit us on-line.

800-627-1033

www.servicesforplastics.com



THE DIFFERENCE

We take pride in the ability to make any barrel or screw. Our experienced Design Team is dedicated to providing exceptional design and technical support to keep our customers' molding machines operating efficiently.

THE CHALLENGE

We challenge YOU to challenge us. If you need assistance in determining the right barrel or screw for your application, we're here to make your job easier. Just let us know your needs and we'll provide you with the best solution.



Quick delivery,
Quality craftsmanship,
Personalized technical support. . .



Barrels & Screws



7925 N. Clinton Street, Fort Wayne, IN 46825-3113
Telephone: 800-627-1033
Fax: 800-482-4059
E-mail: sales@servicesforplastics.com
Internet: www.servicesforplastics.com