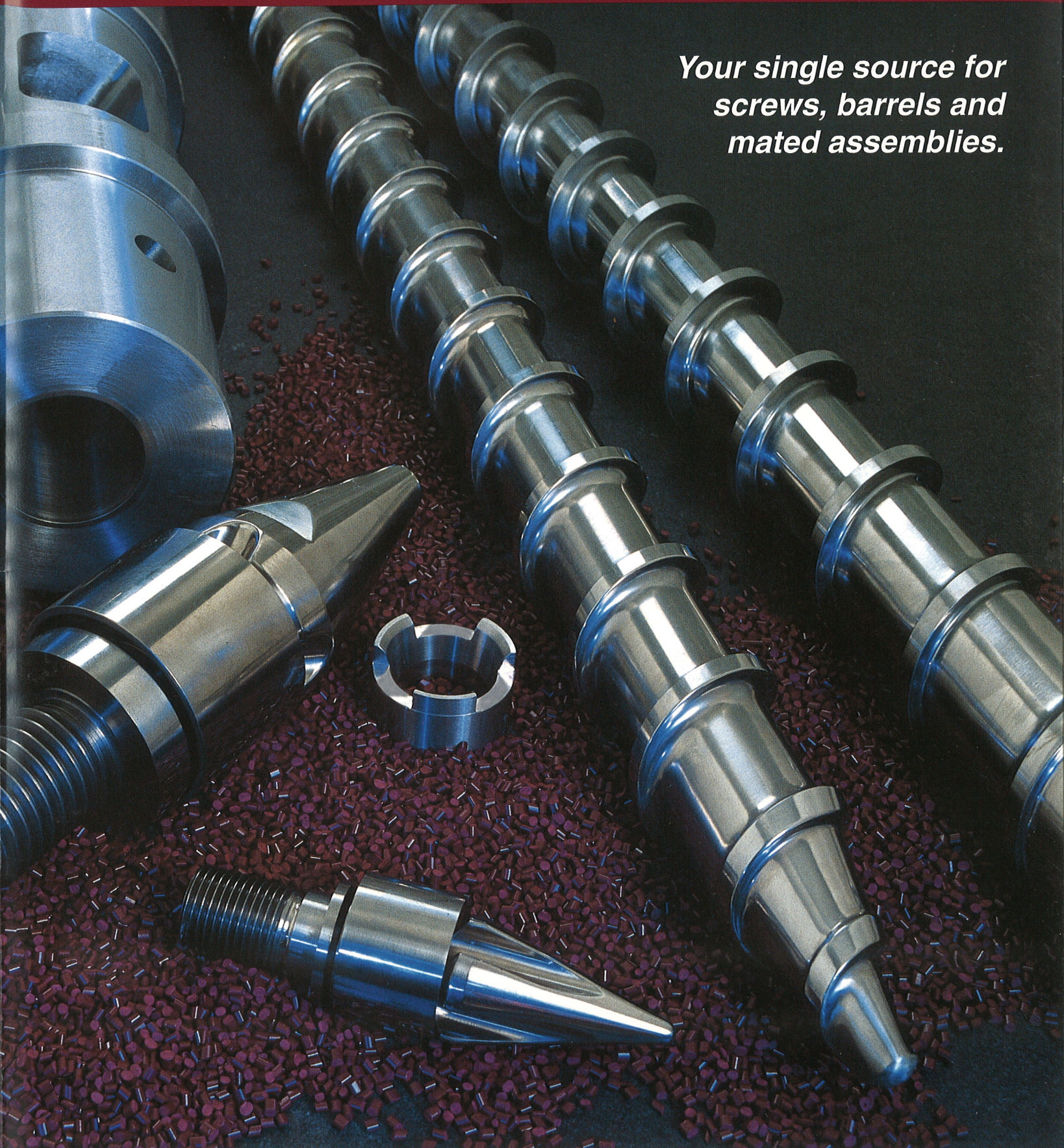


W-J Incorporated



*Your single source for
screws, barrels and
mated assemblies.*



A commitment

W-J keeps your machines running efficiently.



to service.

ANSWERING INDUSTRY NEEDS.

At W-J we deal in new and rebuilt screws, barrels and accessories to the plastics industry. Started in 1972, W-J was formed to serve the end-user in injection, extrusion and compounding. We then, as now, recognized the need for a responsive quality alternative to O.E.M. replacement parts.

Because we're screw and barrel specialists, we can custom-build to your specifications – regardless of configuration, make-up or application. We repair or replace single or twin screws for any machine worldwide. And, if blueprints are not available, W-J can assist you in developing new or modified screw designs.

W-J BUILDS-IN QUALITY.

Our 42,000 sq. ft. facility is fully equipped with state-of-the-art precision machinery operated by trained professionals in screw and barrel technology. W-J's fully-staffed Q.A. department is certified to MIL-I-45208. All screw and barrel components go through an intensive final inspection process. This includes documented certification of conformance for all critical dimensions.

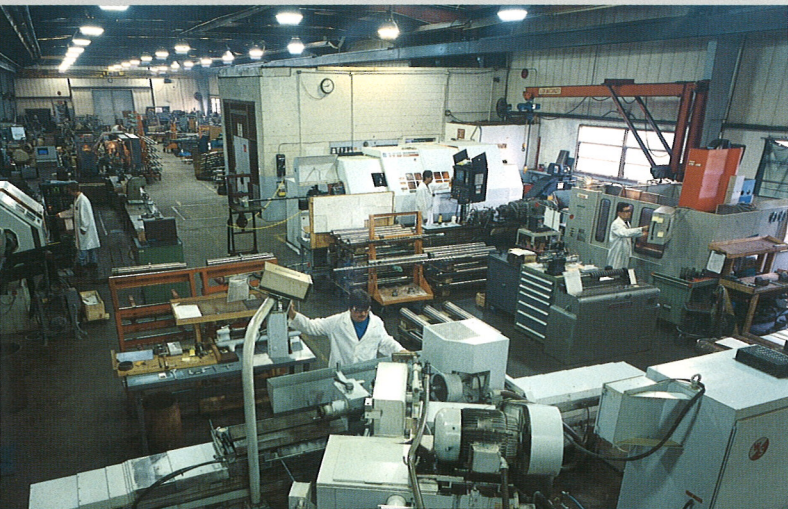


Home offices, Northeastern Ohio, in the heart of the "Polymer Valley."

PUT OUR CAPABILITIES TO WORK FOR YOU.

W-J offers a rare combination of product variety, seasoned manufacturing excellence, comprehensive technical assistance, competitive pricing and prompt delivery. No company can offer you more. No company will work harder to keep your equipment running smoothly and efficiently.

W-J, your single source for screws, barrels and mated assemblies.



One of 7 bays designed for optimum product manufacture.



Over 25 years of
customer satisfaction.

Products that exceed

SCREWS

From the most basic general-purpose or mixing screws, to more complex multi-stage variable lead twin screws, W-J has the capability and screw building know-how to meet your needs.



New W-J screws are manufactured to exceed O.E.M. specifications and are available in sizes from lab size (5/8" O.D.) up to the largest injection screws (233" in length).

W-J screws are built from a wide range of materials to meet your specific processing requirements. Our full range of materials includes:

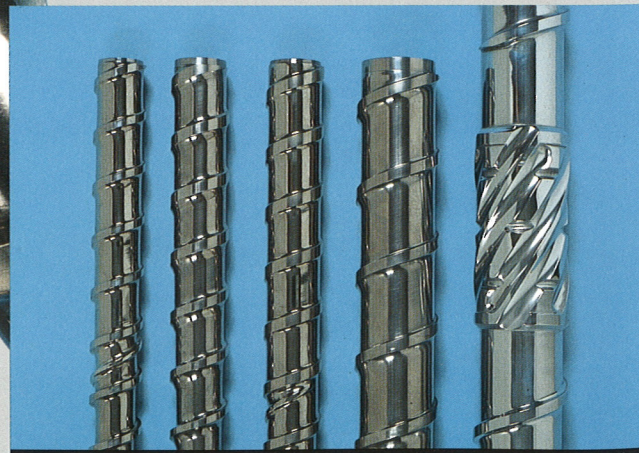
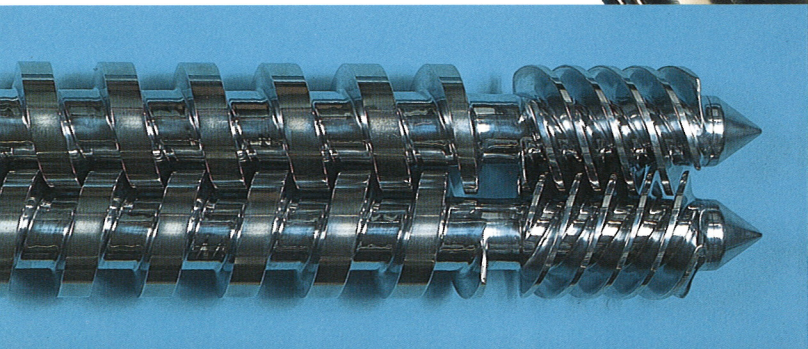
- Nitralloy 135m
- CPM-9V
- 17-4PH Stainless
- 4140 HT
- D-2 Toolsteel
- Hastalloy C-276
- Vanadis/Elmax
- CPM-420V
- "Megaware"

If your need is a rebuilt screw, W-J will inspect the screw prior to any work and advise the most economical screw repair. W-J routinely performs drive end, nozzle thread and standard O.D. repairs using a variety of hard facings such as the popular Colmonoy and Stellites.

All screw repair is performed with state-of-the-art pulsed PTA welding.



Twin screw dimensional accuracy assures on-the-job performance.



W-J offers a variety of screw designs – from general purposes through mixing screws.

your expectations.

BARRELS

Whether new or rebuilt, W-J barrels guarantee maximum plastic melt performance. A full range of materials is offered for new W-J barrels.

- D-2 Toolsteel lined
- CPM-10V lined
- CPM-440V lined
- Nitralloy 135m
- Standard Bimetallic
- Highwear Carbide Bimetallic
- Corrosive Resistant Bimetallic

Barrels can be custom designed and built to mate with your existing screws or matched to a new W-J screw.

Any size injection barrel can be repaired by W-J. Our barrel repair service includes:

- Short-sleeve reline
- Full length reline
- Regrind of sealing faces
- Thermo-couple removal
- Broken bolt removal

Additional repairs quoted upon request.



New injection barrels manufactured to customer specifications.



Finished bimetallic barrel awaiting final inspection.



Screw and barrel specialists.

Accessories . . .

TIP ASSEMBLIES

In keeping with our philosophy of single-source responsibility, W-J offers a complete line of hot-end components.

W-J has the right tip for your application. Precision engineered W-J valves maximize your machine uptime. The wrong check valve can cause short shots and inconsistent part weight, resulting in higher scrap rates.

All W-J tips are self-cleaning and available in a variety of styles:

- Standard 3-piece
- Rebuildable 4-piece
- Ball checks

End caps and nozzles are offered in standard and custom-designs to meet your processing requirements.

Avoid costly down-time. . . make W-J tip assemblies your economical choice.



New W-J end caps provide the seal you need to keep your plastic flowing.



and services.

ANSWERING CUSTOMER NEEDS.

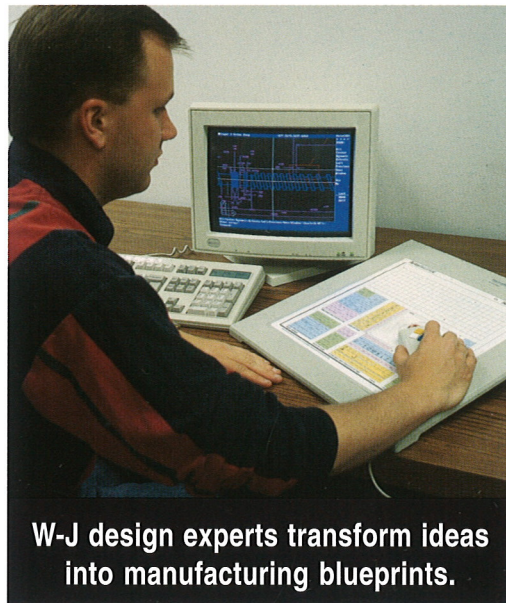
W-J has built a reputation for helping its customers solve a variety of processing problems. Your need is our highest priority. Based upon your unique requirements, our engineering department will work with you to design and produce custom screws to optimize your process and melt quality.

OPTIMIZE YOUR PROCESS.

When mixing or melt quality improvements are required, W-J has a variety of mixing and barrier screw designs available to fit your needs.

Material degradation due to long residence times can adversely affect part quality. Expert W-J engineering quickly alleviates the problem with the proper downsized injection unit components. A complete package can be supplied with all necessary components to get you up and running fast! Custom W-J services include:

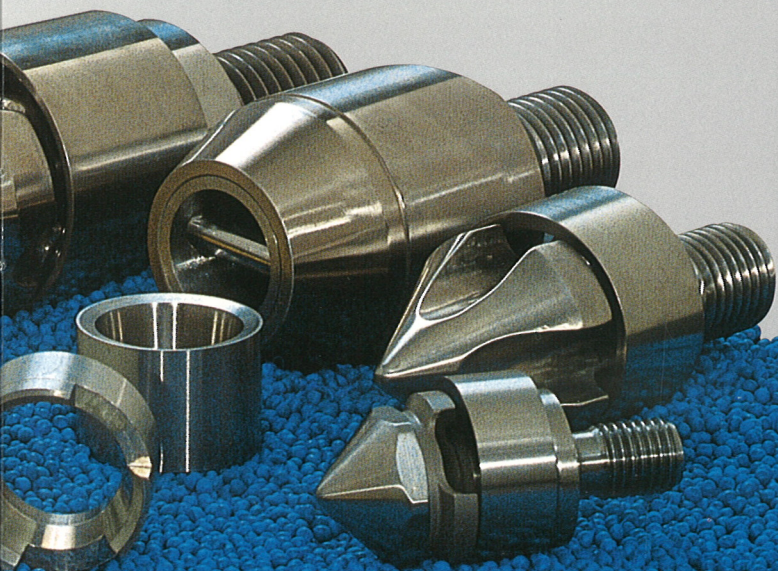
- Injection unit downsizing
- Barrier flights
- Injection unit upsizing
- Low-volume screws
- Custom mixing sections



W-J design experts transform ideas into manufacturing blueprints.



W-J sales engineer outlines the benefits of a downsized injection unit on location.



You'll like doing business with W-J



W-J people are highly motivated and take pride in their work. In fact, everyone at W-J is accountable for customer satisfaction. It is our highest goal to transform your needs into quality products that perform to your expectations. So, if you're looking for melt consistency or process improvements in plastic injection molding, extrusion, or compounding, call W-J today. We want to be your partner in success.

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