



SUPERIOR SHOT PEENING, INC.

Now Spanning the Globe



SUPERIOR SHOT PEENING INTERNATIONAL



Taking the World of Shot Peening Wherever It is Needed

Member NACE

Sales@SuperiorShotPeening.com

www.SuperiorShotPeening.com

About

For over a decade and around the globe, **Superior Shot Peening** has provided top-quality metal pre-treatments, final treatments, finishings and coatings; ensuring that our service is always prompt, dependable and seamless. We strive to always be ahead of the curve, to find new ways of serving our customers and to implement new, state-of-the-art processes for improving the hardness, fatigue strength, corrosion resistance, longevity and beauty of all your metal products. While continuing to offer traditional methods, **Superior Shot Peening** also provides quickly-evolving, newer technologies such as HVOF and various powder coatings and is one of the few companies in the world to continue to offer sprayed zinc and PVC coatings.

Superior Shot Peening has successfully completed thousands of projects, ranging from the very large to the very small, and has treated hundreds of metals, from basic steel to complex bronze and titanium alloys. Our clients range from the aerospace industry to the small-spring manufacturer, from the family-owned tool shops to the multi-billion dollar Enterprises. Yet, year after year, our diverse clients continue to have one thing in common: *They return to us because Superior Shot Peening provides what others cannot.*

At the core of **Superior Shot Peening** is a staff that boasts over a century of collective experience in the metal finishing industry. Every member, from the founders to the speciality technicians, from the drivers to the skilled workers, is dedicated to providing the highest quality of service with the shortest possible turnaround.

Superior Shot Peening is the clear choice for all of your shot peening, phosphating, powder and liquid coating, metalizing, salt bath heat treating and passivation needs. Additional information about these and our other services are continued inside this brochure.

Benefits

Attention to Detail from Start to Finish

Superior Shot Peening treats every project as if it were our own. We listen carefully to our customers and consistently provide prompt and quality work. Every one of our completed projects is carefully inspected using the most up-to-date methods appropriate for the job.



Friendly Service 24-7

Real people answer our phones 24 hours a day, seven days a week. Our employees are experienced industry professionals and are happy to provide technical support anytime; day or night. Moreover, the staff at **Superior Shot Peening** takes the time to know each of our clients and their specific needs, and works hard to ensure that customer satisfaction is always 100%.

A 24-Hour Turnaround

We average a 24-hour turnaround, the fastest turnaround in the industry, without sacrificing quality. In fact, **Superior Shot Peening** has made its mark by performing hundreds of complex, rush jobs, and has become "home of the 24-hour turnaround with service second to none."



On-Site or In-House

We have experienced crews with portable equipment standing ready to perform large-scale operations at your worksite. Typical on-site jobs include work on oil rigs, airplane fuselages, boat hulls, drilling sites and nuclear facilities. Essentially any of **Superior Shot Peening's** services can be offered on-site or in-house.

Worldwide Service

Superior Shot Peening's on-site crews have worked in many countries around the globe and in thousands of different industries. Our crews frequently perform jobs in Malaysia, China, India, Japan, Pakistan, France and Russia, as well as throughout the United States.



Versatility

Because we provide a wide variety of conditioning treatments and protective coatings, **Superior Shot Peening** can almost always provide the correct solution for your metal-improving needs. If we don't currently have the right solution, we will refer you to one of our strategic partners that does.

Experience in Numerous Industries

Superior Shot Peening's client list includes such large-scale companies as Smith International, Halliburton, Weatherford, Schlumberger, Hydril, Continental Airlines, Exxon, NASA, the U.S. Airforce, Dupont and Chevron Corporation, not to mention hundreds of smaller, independent operators. Many of our highly-skilled and experienced employees, including our on-staff metallurgist and mechanical engineer, have been in the industry for decades and are able to provide technical advice on almost any project worldwide; 24 hours a day, seven days a week.



Polymers

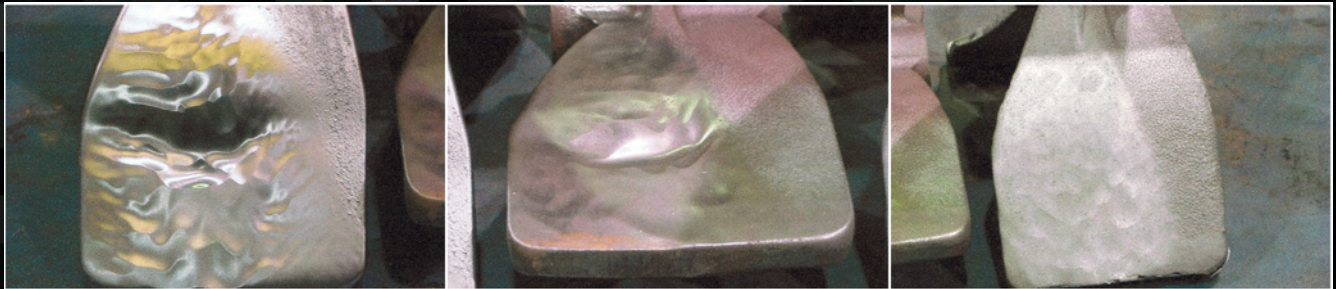
Superior Polymers

Superior Polymers is a new strategic business unit of Superior Shot Peening, Inc., providing *Custom Polymer Coatings* for:

- 1) High Abrasion Resistance
- 2) Chemical/Corrosion Resistance
- 3) High Temperature Applications: 350°F to 700°F
- 4) High release/Low Coefficient of Friction
- 5) Spray-on or Molded



Concrete drum coated with Metallic Polymer



Forging after 40 hours

Hardened forging after 40 hours

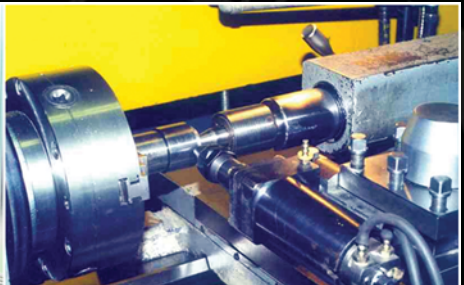
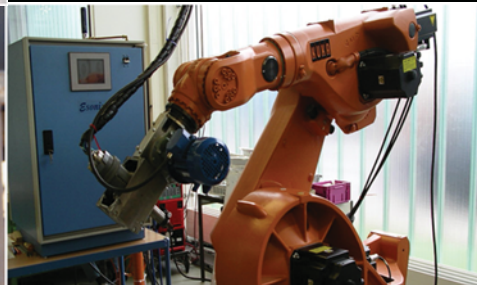
Coated with Metallic Polymer IP210 after 86.6 hours

Esonix UIT

Superior Shot Peening, Inc. is a certified provider of Esonix UIT.

This new technology from Applied Ultrasonics provides for fatigue life extension and enhancement. Other benefits include:

- 1) Improvement in fatigue endurance and corrosion resistance, 250% and 400% respectively
- 2) Increased operational life
- 3) Reduced maintenance and operational costs
- 4) Increased use of high strength (> 100 ksi yield) steels
- 5) Increased structural stability



Treatments

Shot Peening

Superior Shot Peening has peened almost every commercial metal known to man, including exotic metals such as hastaloy and titanium. Our plant is equipped with automatically controlled shot peening machines that are capable of processing parts of different shapes and sizes with consistent and unerring results. Our mobile crews are equipped with similar, portable machines and can do work almost anywhere in the world.



Phosphatizing

Superior Shot Peening can provide phosphate coatings for very large (up to 25 feet in length) and very small parts. We offer both zinc and manganese phosphate coatings. Both types produce components with gray or blue-gray, non-reflective, non-metallic, non-conductive, "velvety" finishes.

Salt Bath Heat Treating

Salt bath heat treating is a high-tech, low-cost process yielding mechanical properties equal to vacuum heat treatment. The finished product can be directly heat treated without any scale formation or distortions. **Superior Shot Peening** has applied this treatment to armory parts, ram bodies and hydrogates, among others.



Passivation

Freshly-machined stainless steel parts have active surfaces and are prone to oxidation. To passify the surface, **Superior Shot Peening** applies a chemical treatment to prevent the surface from oxidizing. Our capacity for this process ranges from the smallest of parts to U.S. Army tanks.

Abrasive Blasting and Deburring

Superior Shot Peening has blasted a wide variety of engineered parts, from Corvettes to oilrigs, from delicate fiberglass to steel boat hulls. We are stocked with a wide selection of abrasives, including baking soda, glass or plastic bead, dry ice, aluminum and magnesium oxide, and walnut shells. We are able to recommend the appropriate abrasive for your particular job.



Special Refurbishing Processes

Superior Shot Peening has wide experience and expertise in special anti-corrosive refurbishing processes for breathing oxygen cylinders in the aviation industries and for naval applications. We can also rebuild many engineered components, such as mandrels, housings, pump shafts and crank shafts.

Coatings

Powder Coatings

Superior Shot Peening can apply essentially any powder coating available in the industry, whether on-site or in the field. We have worked with powder coatings from virtually all powder coating manufacturers and can recommend appropriate powder coatings for almost all industries, including marine, aerospace, nuclear, agricultural, military and oil and gas. Our ovens can accommodate parts up to 40 feet in length.



Liquid Coatings

Superior Shot Peening is an experienced applicator of most all liquid coatings. With access to a wide variety of liquid coatings of various colors and physical properties, we can accommodate rush delivery of specialized or unusual coatings. We can often apply air-dried or baked-on liquid coatings on-site or in the field.

High Velocity Oxygen Fuel (HVOF)

Superior Shot Peening utilizes HVOF as a replacement for hard chrome as HVOF is technically superior while also being environmentally friendly. Because of higher deposition efficiencies, the porosity levels are negligible. This coating can withstand high abrasive and corrosive sour atmospheres. We currently utilize this process in several oilfield applications, such as on mandrels and drive shafts.



Metallizing/Hard Banding

Superior Shot Peening provides metallizing, hard banding, welded hard banding and thermal ceramic coatings for special, anti-corrosive applications and wear resistance without changing the base metal properties. Typical applications include mandrels, connector subs and other equipment used in harsh environments. These processes can be applied at our facility or in the field.

PVC Coating

Superior Shot Peening provides true PVC coating and does not simply pull a PVC mold over a metal pipe or wire. Rather, we bond a strong PVC coating of custom thickness to the metal substrate. This PVC coating cannot easily be pulled off and rips in the material will not compromise the integrity of the entire coating. The coating thickness, as well as the underlying physical properties afforded by pre-coatings, can be custom specified.



Fluoropolymer and Other Exotic Coatings

Superior Shot Peening has extensive experience applying PVDF, Teflon, Xylan, Belzona, high bake phenolic and other exotic coatings to metals for sealing, corrosion resistance and lubrication. Whether it's impellers, cylinders, blowout preventer bodies or threaded connections, we have the right coating for your metal protection needs.

Other Services

Training Services

Superior Shot Peening offers a variety of training classes in both shot peening and coating applications that can be customized to meet your specifications and certifications. Our experienced trainers have over 20 years of hands-on experience in the industry and stand ready to bring the school to you, anywhere in the world, saving you time and money that would normally be spent on visas and the high cost of travel.



Field Services

Superior Shot Peening's experienced international field crews can travel anywhere in the world with our portable equipment. Field crews are often dispatched on only a few hours notice, to provide you the same high level of service and quality found in our facilities, but at your work-site. We have extensive experience providing this type of service to the aerospace, automotive, chemical, oil & gas, aircraft and food processing industries.

Equipment Manufacturing

Superior Shot Peening manufactures its own line of portable and stationary shot peening equipment, which is suitable for most applications, including the treatment of pneumatic conveying of plastics. Our self-contained blast cabinets and other equipment can be modified to meet your particular requirements and will always meet your safety and environmental concerns. Extensive training in the use and maintenance of this equipment is provided by our experienced technicians at no additional cost. Other equipment, such as stationary presses, are manufactured at the Houston facility.



Consulting Services

Our Ph.D. metallurgist, on-staff mechanical engineer and staff with more than 100 years of collective experience are available 24 hours a day, 7 days a week, to answer your questions and provide technical advice on the treatment and coating applications of most any metal known to man. **Superior Shot Peening** also provides additional consulting services, geared towards your specific industry, upon request.

Continued Growth and Expansion

Superior Shot Peening is continually growing and expanding, adding new treatments and coatings as they are developed. We are constantly examining new technologies and processes to better address your ever-evolving needs.



**SUPERIOR SHOT
PEENING, INC.**



SUPERIOR SHOT PEENING INTERNATIONAL

Houston ★

Changzhou ★

Mumbai ★

Singapore ★

SSPI World Headquarters

Superior Shot Peening, Inc.
13930 Luthe Road
Houston, Texas 77039
U.S.A.

Phone: (800) 554-4903
Fax: (281) 449-9151

SSPI India

Daksha Engineering Co.
60 B Government Industrial Estate
Charkop
Kandivili West
Mumbai, India

Phone: (91) 022-2868-3095
Fax: (91) 022-2868-3336

SSPI China

**Superior Shot Peening
Changzhou, LTD**
No. 25 Changjiang Mid Road
Changzhou, Jiangsu
PRC 213022

Phone: (86) 519 85165811
Fax: (86) 519 85165812

SSPI Singapore

GT Industrial PTE. LTD
No. 10 Loyang Street
Singapore
508844

Phone: (65) 6542-8993
Fax: (65) 6542-9896

www.SuperiorShotPeening.com
Sales@SuperiorShotPeening.com