

## Blast and Preservation Services

### Protect your investment.

Rust is the relentless enemy of commerce, transportation, and industry. When left unchecked, it compromises the integrity of steel and iron. First and foremost, it's a serious safety concern. Secondly, rust can devour your profits. Damaged equipment that is taken out of service or prematurely scrapped can mean a significant loss of revenue. A quality coating preserves the metal. However, a coating is only as good as the prep work – or in this case, the blasting process. In fact, most premature coating can be traced back to improper or inadequate surface preparation. That's why it is important to choose wisely when looking for a company to handle your project.

### Service and quality that is second to none.

We have the right equipment and knowledgeable staff to meet virtually any blast or preservation challenge — in a timely, cost-effective manner. DivCon ascribes to ISO, IICL, IMDG, ANSI, SSPC, and NACE professional guidelines and standards. And, our personnel participate in the Shop Painting Certification Program (QP3). To maintain the highest possible quality, everything that goes through DivCon is approved by an on-site NACE inspector. What's more, we have invested in the most advanced, state-of-the-art technology.

### Experience counts.

Our expertise includes blasting all types of metal fabrication. If your equipment or component is not listed below, there is still an excellent chance that we can accommodate your blast and preservation requirements.

- Ocean-Going Containers • Heavy Equipment Containers
- Medical and Waste Roll-Off Containers
- Large Utility Valve Assemblies • Plate Steel
- Decorative Iron and Security Gates • Construction Steel
- Automotive and Truck Chassis • Heavy Equipment
- Ship and Marine Support Equipment • I-Beams
- Angle Iron • Crane Booms • Bridge Components

### The largest, highest volume capacity in North Florida.

Our Hoffman Enclosed Steel Grit Blast room has the capacity to handle one forty-foot or two twenty-foot containers, and can even accommodate longer material such as construction steel.



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### Bring on the really big stuff.

We also have a 12-wheel automated PangBorn RotoBlast room equipped with a 30-ton bridge crane. The room allows us to quickly blast containers or structural steel components as heavy as 60,000 pounds, up to 90 feet in length, 10 feet in width, and 10 feet in height.

The process takes any weathered metal through a chamber where it is bombarded with various kinds of media, depending on how much of the existing finish needs to be removed or abraded. After leaving the blasting chamber, the metal is examined and spot sandblasted by hand to remove residual corrosion or coatings. Then, immediately after cleaning the surface, the metal is preserved to prevent oxidation.

We also have the capacity to manually air blast larger structural components of 60,000 pounds or less with dimensions up to 120 feet long, 20 feet wide and 20 feet tall, as well as spot blast when needed.

### Choosing the right blast level.

The usage and exposure of the metal and its current condition are factors that will determine which blast level is recommended or required — from bare metal to profiling the surface to allow it to accept new paint or coating. All prep work is in accordance to SSPC/NACE and coating manufacturers' specifications.

### We have blasting down to a science.

At DivCon, we utilize a mixture of blast media according to the coating manufacturer's or engineer's specifications. The mixture can include natural, manufactured, and by-products to achieve the desired finish. Media particle size, shape, density, and hardness are all crucial to the desired finish. We also consider the hardness of the metal that is being blasted. For instance, soft metals such as aluminum have entirely different blasting requirements than steel, which is a hard metal. Finally, the speed and velocity with which the media blast hits the metal are also important factors to consider. By investing in state-of-the-art blasting equipment and highly qualified operators, we are able to precisely control these variables. The result is a clean, uniform finish that meets stringent specifications, where the surface has a precise profile, sufficiently etched to receive a coating or paint.

After the metal has been blasted, it is coated immediately to prevent oxidation. The thickness of the coating is in accordance with the coating manufacturer's guidelines.

The variety of coatings available include the following:

- Epoxy • Polyurethane • Zinc Plate • Inorganic Zinc • PCP
- Enamel • Alkyd • CARC • Non-Slip Deck Coating
- Moisture Curing Urethane • Acrylic • Coal Tar Epoxy
- Envirolastic 100<sup>9</sup> Solids (Polyurea)



### The (SSPC) has established the following degrees of cleanliness.

#### White Metal Blast SSPC — SP5/NACE #1

This is the ultimate level in blast cleaning. The process removes all visible rust, mill scale, paint and contaminants. The appearance of the metal is uniformly white or gray when the process is complete. SP5/NACE#1 is usually required where sophisticated paints, such as zinc-rich coatings are to be applied to surfaces that will be exposed to highly corrosive environments including constant immersion in fresh or saltwater or liquid chemicals. DivCon clients using this blast level include chemical plants, offshore rigs, maritime container shipping companies, and steel bridge component manufacturers.



#### Near White Blast SSPC — SP10/NACE #2

This is similar to White Metal, but slight staining of metal is acceptable. When complete, at least 95% of each square inch of surface area is free of all visible residues. The remainder may show light discolorations. This level is recommended for steel exposed to harsh elements and heavy usage.



#### Commercial SSPC — SP6/NACE #3

Blasting completely removes all oil, grease, dirt, rust scale, foreign matter, mill scale, and old paint with the exception of slight shadows, streaks or discoloration. If the surface is pitted, slight residue of rust or paint may be found in the bottom of pits. At least two-thirds of each square inch of surface area is free of all visible residues.



#### Brush-Off Blast SSPC — SP7/NACE #4

Blasting removes all oil, grease, dirt, mill scale, rust scale, loose mill scale, loose rust, and loose paint or coatings. Tight mill scale and tightly adhered rust, paint and coatings are permitted to remain. However, all mill scale and rust have been exposed to the abrasive blast pattern sufficient enough to expose numerous flecks of the underlying metal uniformly over the entire surface.

