



**S&S Plating**



**Coating  
Dynamics**

# The Leader in Oilfield Coating Technology



**ISO 9001:2008**

[www.ssplating.com](http://www.ssplating.com)

## Who We Are

S&S Plating/Coating Dynamics is the leading provider of electroplated coatings to the oilfield, power generation and automotive industries. By instituting exceptional service, quality, and turn-around in every project handled, we continue to hold a reputation built on repeat business and lasting relationships.

In operation for more than 30 years, our success has contributed to the commitment of providing each customer with supreme service and the consistency they need to stay competitive in today's just-in-time manufacturing environment.

Our modern 112,500 square foot facility, located in five buildings, has capabilities for handling orders from small precision parts to large oilfield equipment, in all instances providing the guaranteed satisfaction of each customer.

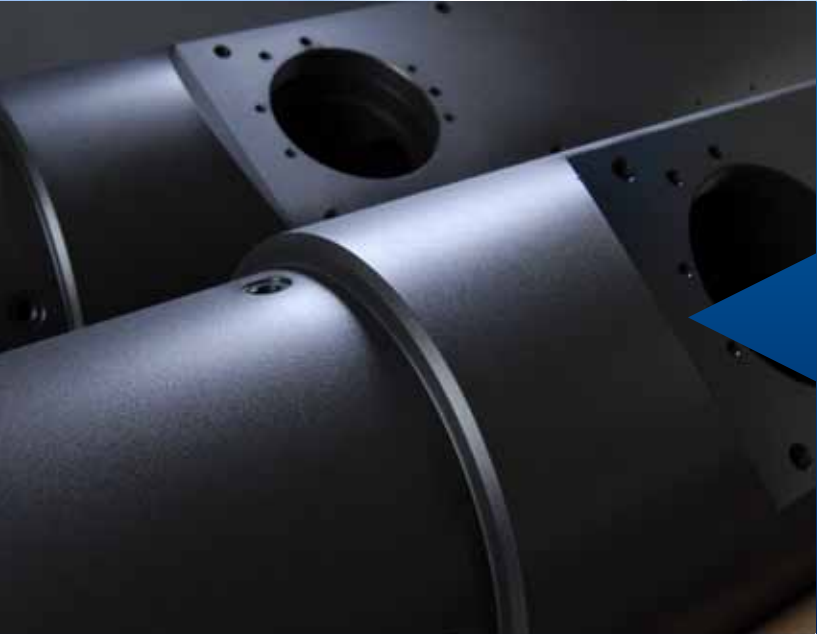
## Quality

At S&S Plating/Coating Dynamics the needs and requirements of our customers drive our business. In an ongoing commitment to customer satisfaction and the goal of the highest quality services possible, the company implemented its Quality Management System in 2007 and is currently certified to the ISO 9001:2008 standard.

Every aspect of our business is driven by the concept of quality. We take pride in our clean and well maintained buildings, which provide a safe and healthy workplace for our employees. We have a documented Safety and Health Program with regularly scheduled training. With an eye on the environment, each building on our property complies with the environmental regulations of our industry.



# Serving Our Customers for Over 30 Years



## Phosphate

Phosphate coatings are made up of thin crystalline layers of phosphate compounds that adhere to the surface of the metal substrate. The phosphate crystals are porous and can be formed from zinc or manganese phosphate solutions. Each offers a phosphate coating with slightly different properties such as crystal size and coating thickness. This allows a more specialized coating to be selected for the particular application required for the part. These coatings are usually applied to carbon steel, low-alloy steel, and cast iron.

**Special Note: We can handle extremely large parts up to 20,000 lbs and 40 ft. in length. We offer both zinc and manganese phosphate.**

## Thermal Spray Aluminum/Zinc

Also known as TSA/TSZ or metalizing, thermal spray can prevent corrosion in the harshest environments. Expected life at the bottom of the ocean is well past 20 years. Thermal spray is easily applied and can be coated and shipped in a fast timeframe vs. epoxies. It is widely used on risers, bridges, and in petro-chemical plants around the world.

**Special Note: We can handle production risers, drilling risers, and offer on-site applications.**



## Tin Plating

Tin is a silver-colored, ductile metal whose major application is to impart solderability. Tin has generally good covering characteristics over a wide range of shapes, it is an electrolytic process. Tin is a good electrical conductor and has historically been utilized for its combined corrosion protection and conductivity in electrical/aerospace applications.

**Special Note: We offer acid tin and alkaline tin plating.**



## Zinc Plating

Zinc plating is a soft, ductile, decorative, marginally solderable, corrosion-resistant finish. Unlike most other commonly plated metals, zinc protects the substrate by sacrificing itself and thus corrodes before the base metal. For corrosion protection, chromates are applied over the zinc. Chromates are chemical conversion coatings. The substrate metal participates in the coating reaction and becomes a component of the coating. Chromate films are typically very thin, on the order of .0000001" and contribute no measurable thickness to the overall coating.

**Special Note: We offer automated rack or barrel method, automotive approved GMW3044.**

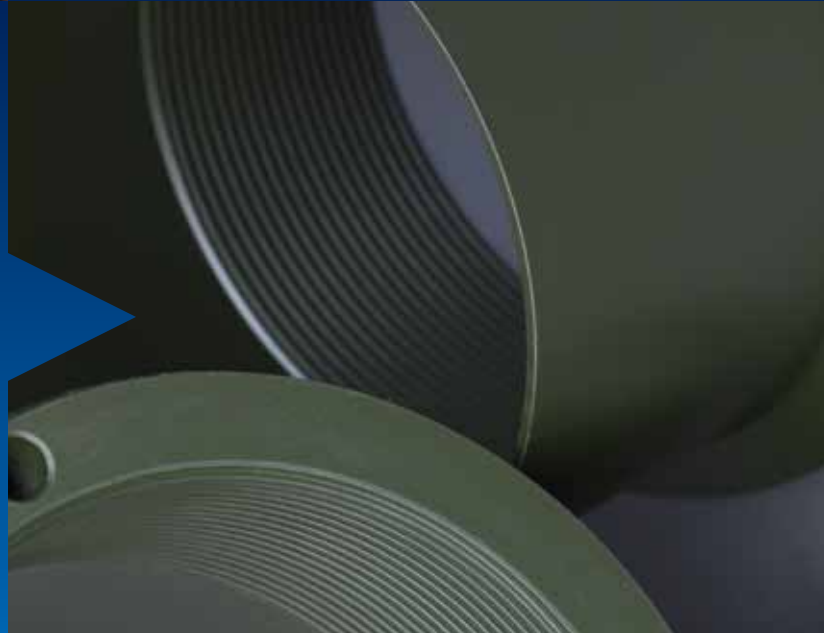
## Spray Coatings

Xylan coatings are especially suited for seal surfaces, threaded connections and sliding surfaces subject to high loads. This coating reduces friction and improves the galling resistance of metallic parts. Xylan provides corrosion resistance and will withstand a wide range of operating temperatures.

Molybdenum Disulfide is a sprayed coating applied primarily for the purpose of lubricating threaded steel parts and to keep mating parts from galling.

Our 3 coat Epoxy system for subsea application provides corrosion protection for steel components, consisting of an inorganic Zinc primer with two subsequent coatings of a low VOC Epoxy.

**Special Note: Coating Dynamics is licensed to apply SermaGard Coating.**



## Cadmium Electroplating

Cadmium Electroplated coatings offer a unique range of properties for which no single alternative exists now or in the foreseeable future. Cadmium coatings are used principally to impart corrosion resistance to steels and in a great variety of applications which call for other engineering properties of Cadmium such as good lubricity. Undercutting of threads on nuts and bolts is not necessary. The coating has a low coefficient of friction, which reduces the tightening torque required and allows repetitive dismantling.

**Special Note: We offer automated rack or barrel method.**

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## Copper Plating

Known in the Oil Industry for its great anti-galling features, it is the coating of choice for high alloy connections. Copper plating is also used as a heat treat mask and is very ductile. After plating it has a bright copper finish yet it can still be easily machined.

**Special Note: We can handle volume production runs of couplings to Range III pipe.**

## Clear-Run™

Clear-Run™ is a new formulated product that the oilfield uses for anti-galling of high nickel and chrome alloys.

**Special Note: We can handle volume production runs of couplings to Range III pipe.**

## Silver Plating

Silver offers the highest electrical conductivity of all metals. Silver plating is best suited for engineering purposes for high electrical and thermal conductivity, wear resistance of load-bearing surfaces, good corrosion resistance, good solderability, and other applications.

**Special Note: We handle barrel or rack parts and high volume production runs.**

## Gold Plating

Gold is primarily used in the electronics industry for connectors, printed circuits, transistors and integrated circuits, anywhere where contact resistance, solderability, or wire bonding are crucial.

**Special Note: We offer rack, barrel or vibratory barrel plating.**



## Nickel

Bright nickel plating utilizing the Watts formulation exhibits a smooth and lustrous finish with good ductility and wear resistance along with good corrosion protection. The characteristics of the deposit make it an excellent choice for mechanical applications. Bright nickel is widely used as an under coating for precious metals plating.

## Electroless Nickel

Electroless nickel relies on a catalytic reaction within the bath rather than the application of electrical current. Because of this characteristic, the resulting deposit is uniform from the edges of a part to the deep recesses and blind holes. Due to its exceptional corrosion resistance and high hardness, the process finds wide application in the oil field sector.



**Silver**

TSA/TSZ

Clear Run™

Nickel

Tin Copper

Spray

Coatings

CAD

**Phosphate**

**Gold**

Blasting

Zinc

SermaGard

**Electroless**

Nickel



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