



Autophoretic  
Powder paint  
Dye Sublimation  
Robotic welding  
Laser  
Subassembly  
Assembly  
Packaging



133 SOUTH HIGHWAY 52 • P.O. BOX 138 • FOUNTAIN, MN 55935  
PHONE: 1.800.738.1918 • FAX: 1.507.268.4912  
EMAIL: CUSTOMERSERVICE@VALLEYDESIGN.BIZ • WEB: VALLEYDESIGN.BIZ

Valley Design's capabilities can give Agricultural and the Construction Equipment Industry more; like Autophoretic®/Aquecne™ chemical deposition, powder paint, robotic welding, laser cutting and fabrication. These processes can be used to extend the life of virtually any piece of metal equipment that is used in day-to-day work. Many of these applications can cut down on the expense of purchasing new equipment. To learn more about expanding the life of Agricultural and Construction equipment and accessories, please read the Valley Design capabilities listed below, or call our sales representative at 1-800-738-1918.

### Immerse your part in our Autophoretic®/Aquecne™ protective coating.

Now you can solve your rust problems from the inside out. Valley Design's Autophoretic®/Aquecne™ chemical deposition offers consistent even film build on ferrous materials. This unique application allows coverage for the interior of hollow stock and complete coverage on even the most intricate of components by submerging the part from a hoist line into a series of chemical tanks. The process is an extensive 12 step of cleaning and finishing that includes alkaline and acid washing, an autodesposition process and oven curing. The maximum weight per lift is 1250 pounds. We can use this process to coat your custom manufactured components and match your specific needs. This capability allows us to coat and finish any stamping, casting, fabricated part and assembly flawlessly.

This coating process encompasses a chemical reaction to ferrous metal with an extremely durable, cost effective finish that is environmentally friendly and a quality solution to metal finishing needs. The Autophoretic®/Aquecne™ process finish is in black only, however you can powder-coat over with another color if desired. This process can also fully coat all heat resistant assembled parts, sub-assemblies and assemblies of metal without coating the non-ferrous components.

The Autophoretic®/Aquecne™ 900 coating is environmentally friendly and is RoHS Compliant\*. Our Autophoretic®/Aquecne™ finish can withstand 160 lbs. forward and reverse impact while defending against rust. There are only a handful of Autophoretic®/Aquecne™ processors in the United States.

### Powder Paint beauty with a strong enduring finish.

Valley Design's Powder Paint coating is an art in itself. The products travel through a seven-stage washing system and are cleaned at ambient temperatures, reducing the possibility of rust and deterioration. Our skilled coating experts spray the decorative and protective finish to steel fabrications, stampings, parts and iron castings. The maximum weight per lift is 150 pounds per hook\* with a maximum length of 144". This line generally sprays Black 60-degree gloss TGIC polyester and the powder is reclaimed for very high efficiency. We use only the finest ground particles of pigment and resin in our powders to ensure a beautiful, long lasting uniform finish. After coating, we heat fuse the powder to the product for a smooth coating that is scratch resistant. Custom colors are available, we will match your specific color needs or you can send your paint directly to us. The finished results are a durable, high-quality work of art. Powder coating is also RoHS Compliant.\* Valley Design is committed

to "green" technology and saving energy for the protection of our environment.

\* The entire weight of the part can be spread over several hooks

### Dye Sublimation that looks extremely natural.

Valley Design has fooled Mother Nature with our extremely detailed wood and marble Dye Sublimation. Our unique way of transferring wood patterns or marble designs onto steel or aluminum is uncanny. Unlike natural materials that would take hours to custom build and cost an extensive amount of money, our process gives you countless opportunities at price points you have come to expect from Valley Design. The finish is beautiful



and extremely durable like our powder coat finish along with being RoHS Compliant.\*

### Our Faro Arm utilizes the same technology adapted by the Aerospace Industry.

Our 8 ft. Silver Faro Arm offers precise inspection performance with an infinite 6 Axis measurement range with a total volumetric tolerance of plus or minus .007. For total portability with speed and accuracy, inspection can be performed that would otherwise be limited by handheld calipers or microcometers. Its adaptable 3-D Measurement Technology communicates with existing engineering software to enable reverse engineering. Valley Design is the first company in this region of North America to own the Cam2Q software.

### We offer accuracy and uniformity with our Robotic Welder.

Our tireless Robotic Welders are so efficient, precise and consistent it's a marvel to watch. The 6 Axis, 450 Pulse Welder's quality is unsurpassed and each weld is exact, part after part. Our three Robotic Welders can weld 90 degrees to any surface with unmatched speed and proficiency.

### Precision Axis Laser cuts with surgical sharpness.

The capabilities of our Mazak 6 Axis Co2 laser are remarkable, ranging from cutting extremely complex jobs to customer prototypes. The laser cuts are as precise as a Neurosurgeon using less

operating time than standard methods and the consistency is astonishing. Our Mazak 6 will deliver precise cuts on ferrous or non-ferrous materials up to 3/4" thick. Please contact Valley Design for more information about the opportunities, capabilities and the value of less subcontracting by using our new cutting technology.

### We'll save you the time and labor with Sub-Assembly.

As an extended service, Valley Design can weld, fasten or modify your parts to your requirements. As an added feature, we can also add our own components if necessary.

\*RoHS is European Union Directive 2002/95/EC on the Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment.

