

KI INDUSTRIES, INC.

DECORATIVE AND FINISHING SERVICES

Capabilities

General Capabilities	Custom Manufacturing OEM
Industry Focus	Appliances Automotive Consumer Goods Decorative Electronics Medical

Specifications

Maximum Part Size (L x W x H)	800 x 800 x 150
Painting	<p>Three automatic painting lines in Mexico</p> <p>Capable of applying solvent borne, water borne and 2K paints. Wet on wet and wet over cured paint possible.</p> <p><u>Applications</u></p> <p>System #1:</p> <ul style="list-style-type: none">• Pallet system. Two independent cabins. Each with 3 axis robot.• System capable of applying up to 4 layers of paint.• Flexible paint line system. Rack technology automatically rotates products when needed to apply paint to all sides of the part. <p>Curing:</p> <ul style="list-style-type: none">• Oven with a flexible residence time between 20 and 40 minutes for drying of applied paint.• Air circulation oven handles up to 100°C operating temperature.• Ambient temperature "Cool Down" zone. <p>System #2:</p> <ul style="list-style-type: none">• Chain on edge line. Two independent cabins. Each with 6 axis robot.• Flexible paint line system. Rack technology automatically rotates products when needed to apply paint to all sides of the part.• Suited to large parts with complex surface geometries. <p>Curing:</p> <ul style="list-style-type: none">• Oven between paint booths allows for full cure between layers.• Air circulation oven handles up to 100°C operating temperature.

	<p>System #3:</p> <ul style="list-style-type: none"> • Vertical pallet system on rotating table. Entire system housed in class 10k clean room environment. Currently equipped with a single paint booth with six axis robot. Modular design allows for additional booths to increase capacity or multi-layer applications. • System suited for small to medium size parts with varied geometries. <p>Curing:</p> <ul style="list-style-type: none"> • Central oven can be fed by multiple booths to accommodate additional booths. <p>Surface Preparation:</p> <ul style="list-style-type: none"> • Ionized air wash to remove debris and contaminants from the parts surfaces. • Flame treatment stations to prepare surface for painting. <p>Paint lines also located in China and Taiwan manufacturing locations</p>
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Plating	<p>Bright Chrome Bright Nickel Brushed Stainless Matte Nickel Satin Chrome</p>
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PVD	<p>Decorative coatings for home appliances, automotive trims, and other applications</p>
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Additional Information

Product and Process Development	<p>Design for manufacturability begins with understanding your concept and continues through design, prototype and production phases of the project.</p> <p>Our engineers fully understand the raw materials available to our industry. From the latest resin technology to tried and proven materials KI can suggest the best material for your part design, finish and performance requirements.</p> <p>Working closely with our customer’s design team at the concept phase allows for the concurrent design of the part, the tool and the manufacturing process. This approach provides the best design solution for our customers while our process validation procedure provides the strict attention to detail that ensures a successful product launch.</p>
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Environmental Policy	<p>We know that being a World Class Supplier requires we be a good corporate citizen and steward of the planet. KI is committed to providing our customers with products that are compliant with applicable environmental regulations. These regulations such as the European Standard RoHS calls for the elimination of the use of environmentally hazardous substances in electrical and electronic equipment placed in the market after July 1, 2006: All KI products are RoHS compliant.</p> <p>In addition to ensuring that the products we supply are safe for the consumer and the environment we make sure that our manufacturing processes are also. Our plating and painting systems meet all local Government Agency environmental requirements.</p>
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<p>Global Operations and Supply Chain Management</p>	<p>KI's Global Manufacturing reach enables our customers to expand their supply base into low cost countries. With over 40 years' experience manufacturing products in Asia and delivering them to customers in the U.S. and Mexico, KI has the resources in place to manage the necessary supply chain options for customers in all markets around the globe.</p>
<p>Quality Systems & Certifications</p>	<p>KI's Quality Certifications:</p> <ul style="list-style-type: none"> • Berkeley IL.: ISO 9001:2008 • Taiwan: TS 16949, ISO 14001 • Queretaro MX: TS 16949, ISO 14001 • China Plating Facility: TS 16949, ISO 14001 • China PVD Facility: TS 16949, ISO 14001 • China Die Cast Facility: TS 16949, ISO 14001 <p>A strong quality assurance program has been vital to KI's growth and success over the years. Our systems and procedures have been developed to insure that our products meet our customers demanding specifications.</p> <p>Our employees receive regular training in the latest systems and quality techniques. From basic problem solving techniques to PFMEA, DFMEA and Six Sigma tools this training serves as the cornerstone of our continuous improvement efforts. All employees are focused on providing the highest quality products and service for our customers.</p>
<p>Additional Services</p>	<p>Assembly Engineering Finishing Inspection Mold Making Rapid-prototyping</p>