

## ZETWERK Manufacturing USA Inc.

# MAXIMIZE MANUFACTURING

End-to-End Global Supply Chain Solutions. We Make Global Sourcing Seamless.

### ZETWERK Manufacturing delivers value to our customers from world-class plants

- ZETWERK Owned Plants
- ZETWERK Operated Plants
- ZETWERK Invested Plants
- ZETWERK Partner Plants



### World-Class Manufacturing - Globally Competitive Quality, Pricing & Lead Times

- **Global production** - ZETWERK plants and our supplier partners' plants in India, Vietnam and elsewhere
- **World-class plants** - Practically unlimited manufacturing capabilities, capacities, value-added services
- **Manufacturing processes** – Ferrous & non-ferrous castings: High Pressure Die Castings (HPDC), LPDC, Investment Castings (IC), sand & gravity casting MIM (Metal Injection Molding), precision CNC machining, Aluminum Alloy Extrusions, Forgings, Stampings, Sheet Metal, steel fabrication, Injection Molding, molded rubbers & elastomers, Additive Manufacturing, 3D Printing
- **Secondary Operations** – CNC milling, machining, polishing, heat treatment, media blasting, leak testing
- **Surface Finishing** – Complete services including plating and painting, powder coat, wet spray, E-coat
- **Supply Chain Services** – Assembly, packaging, fulfillment, ZMI

### ZETWERK Delivers Value - Why Companies Work with Us

- **Reduced costs** – Globally competitive pricing
- **Faster time-to-market** – Get to market sooner
- **ZETWERK Quality Certified (ZQC)** - ZETWERK is AS 9100D aerospace & ISO 9001:2015 quality certified. Also ISO 45001:2018 and ISO 14001:2015 certified. Plants are IATF 16949:2016, and ISO 13485:2016 quality certified. Global quality expertise in FMEA, APQP, SPC, MSA - we support PPAP requirements
- **ZETWERK Project Management (ZPM)** – ZETWERK Project Managers manage and communicate project status on each step of our projects, from PO to DFM to scheduling to shipping and delivery
- **ZETWERK Managed Inventory (ZMI)** - We will stock your products in a warehouse ensuring lead times are less than 5 days for **Just-In-Time (JIT)** deliveries to your dock; shipments into Mexico with IMMEX

# QUALITY, VALUE, LEAD TIME

ZETWERK provides end-to-end global supply chain solutions. We make global sourcing seamless.

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## ZETWERK Manufacturing USA Inc.

World-Class Manufacturing - High-Quality Production - Globally Competitive Pricing & Lead-Times

PRECISION DIE CASTINGS HPDC, LPDC, GDC	ALUMINUM ALLOY EXTRUSIONS	PRECISION CNC MACHINING
<ul style="list-style-type: none"> <li>High Pressure Die Castings (HPDC); Cold &amp; Hot chamber, 80T to 4200Ton</li> <li>Low Pressure Die Castings (LPDC), Gravity Die Castings (GDC)</li> <li>Alloys: Aluminum, Zinc, Magnesium, Brass, Copper, Lead</li> <li>Tool design and manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>Precision aluminum alloy extrusions in a variety of alloys including 6063-T5 &amp; T6; 6061-T5 &amp; T6; 6005-T5</li> <li>Secondary work: CNC machining, drilling, tapping, reaming, inserts</li> <li>Complete surface finish options: anodizing, hard anodizing, powder coating, NCP conversion coating</li> </ul>	<ul style="list-style-type: none"> <li>Tight tolerance components using precision CNC milling and machining of metals and plastics</li> <li>Components machined to specifications and tolerances; processes include drilling, tapping reaming,</li> <li>Wide range of surface finish options</li> </ul>
CASTINGS - FERROUS & NON-FERROUS INVESTMENT, SAND, CENTRIFUGAL	STAMPINGS – METAL STAMPING, FORMING & SHAPING	FORGINGS
<ul style="list-style-type: none"> <li>Investment Casting (IC), Sand Casting, Centrifugal Casting</li> <li>A wide range of materials: Cast iron, carbon &amp; low alloy steel, 300 &amp; 400 series steel, nickel &amp; cobalt alloys</li> <li>Near net-shape castings</li> </ul>	<ul style="list-style-type: none"> <li>Metal forming techniques including blanking, punching, bending, piercing, and coining</li> <li>Precision custom metal stampings - processes include deep draw stamping, progressive die stamping, metal stamping, transfer press stamping, short run stamping</li> </ul>	<ul style="list-style-type: none"> <li>Forged components from closed-die, cold forging, open-die, rolled ring, etc.</li> <li>Materials - A wide range of materials available including 7075-T6</li> <li>Part sizes and weights are practically unrestricted - secondary operations including surface finishing to spec</li> </ul>
SHEET METAL PRODUCTION	PLASTIC COMPONENT PRODUCTION INJECTION MOLDING & TOOLS	MIM – METAL INJECTION MOLDING
<ul style="list-style-type: none"> <li>Cutting, bending, and forming sheet metal components and assemblies</li> <li>Materials – A wide range of materials and thicknesses are available</li> <li>Cutting - Laser, Waterjet, Punching and Press work including Turret Punch</li> <li>Wide range of surface finish options</li> </ul>	<ul style="list-style-type: none"> <li>Injection Molds and production parts with short lead times</li> <li>Insert molding, over-molding, 2K (2+ materials) molding, high cavitation molds</li> <li>Materials – Wide range of materials, colors, and additives</li> <li>Part sizes and weights are practically unrestricted</li> </ul>	<ul style="list-style-type: none"> <li>Range of MIM materials - Low carbon &amp; high alloy steels, stainless steels, titanium, copper, soft magnetic alloys, Cobalt and Nickel base super alloys and non-ferrous alloys</li> <li>Secondary processes, finishing, heat treating, annealing, tempering, case hardening, ion and gas nitriding, hot isostatic pressing (HIP-ing), precision machining &amp; assembly</li> </ul>
STEEL FABRICATION FOR SOLAR AND OTHER PROJECT REQUIREMENTS	PROTOTYPES, PRE-PRODUCTION, SOFT TOOLS, 3D PRINTING	PROJECT MANAGEMENT & SUPPORT
<ul style="list-style-type: none"> <li>Cost-effective, tariff-free Piles, Posts, Beams and components</li> <li>Production capacity of 50,000 piles/week; approximately 2,000 Metric Tons per week</li> <li>We provide end-to-end logistics support</li> </ul>	<ul style="list-style-type: none"> <li>Prototypes, 3D Printing – polymers and metals, Additive Manufacturing</li> <li>Pre-production runs, soft tools</li> <li>Project management from PO to production, shipment, into inventory and delivery to your dock</li> </ul>	<ul style="list-style-type: none"> <li>Design For Manufacturability (DFM)</li> <li>Feasibility Study of components</li> <li>Robust APQP procedures</li> <li>Project management w/ Gantt chart</li> <li>Tool design consulting</li> <li>Mold Flow Analysis (MFA)</li> </ul>
SECONDARY OPERATIONS & SURFACE FINISHING		
<ul style="list-style-type: none"> <li>Precision CNC machining, drilling, tapping, reaming, heat treating</li> <li>Surface finishing capabilities for cosmetic and non-cosmetic parts</li> <li>Anodizing, plating, painting, powder coating, wet spray, E-coating, passivation, polishing, hard coating</li> <li>Graphics - Engraving, laser etching, silkscreening, pad printing and more</li> <li>Assembly and custom packaging</li> </ul>		

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