



CORE CAPABILITIES

The reliability of Lincoln Industries' solutions has been proven over 65 years of service to some of the world's most recognizable brands. Lincoln Industries is the largest and most diverse, privately held, metal finishing company in North America. With over 900,000 square feet of facilities in 10 locations across the Midwest, Lincoln Industries ships 400,000 parts a day while providing quality, efficiency, service, and expertise.



METAL FINISHING



TUBE FABRICATION



DIE CASTING & TOOLING DESIGN



PERFORMANCE COATINGS



SUPPLY CHAIN MANAGEMENT



ASSEMBLY & PACKAGING

PREMIUM PROVEN QUALITY SOLUTIONS

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| CAPABILITIES | SUBSTRATE MATERIALS | FEATURES & BENEFITS |
|--------------------------------------|-----------------------------------|--|
| PLATINGS | | |
| Anodizing Type II | Aluminum | Corrosion resistance, durability, electrical insulation, can be dyed various colors |
| Anodizing Type III (Hardcoat) | Aluminum | Corrosion resistance, high durability, electrical insulation |
| Black Chrome | Steel, Aluminum, Brass, Stainless | Decorative parts and corrosion resistance, offered in variations |
| Black Oxide | Steel | Anti-galling properties, dimensional stability, improved corrosion protection when followed by appropriate after treatment |
| Bright Nickel | Steel, Brass | Corrosion protection, appearance |
| Cadmium | Steel | Corrosion resistance, low coefficient of friction, lubricity, electrical conductivity |
| Chromate Conversion Coatings | Zinc, Cad, Aluminum | Improves salt spray, makes a good paint base |
| Decorative Nickel Chrome | Steel, Aluminum, Brass, Stainless | Decorative parts and corrosion resistance, offered in variations |
| Electropolishing | Stainless | Corrosion protection, and coverage industrial reflective surface |
| Electroless Nickel | Brass, Aluminum, Steel, Copper | Uniform thickness, corrosion resistance, wear resistance |
| Gold | Nickel Barrier | Excellent corrosion resistance, bright gold appearance |
| Hard Chrome | Aluminum, Steel | Wear resistance lubricity |
| Manganese Phosphate | Steel | Porous for oil retention |
| Metal polishing | Steel, Stainless, Aluminum | Deburring, highly cosmetic surface, improved base for corrosion protection |
| Nickel/Silicon Carbide | Aluminum | Weight reduction, increased wear resistance, improved lubrication |
| Passivation | Stainless | Improved corrosion protection |
| Physical Vapor Deposition (PVD) | Decorative Chrome | Excellent wear resistance, multiple color options |
| Satin Nickel | Steel, Brass, Aluminum | Corrosion protection, appearance |
| Sulfamate Nickel Hard Chrome | Steel | Corrosion protection and wear resistance |
| Thin Dense Chrome (TDC) | Steel | Corrosion protection and wear resistance |
| Tin | Steel, Brass | Corrosion protection |
| Zinc (alkaline and chloride) | Steel, Zinc Die Cast | Corrosion protection, identification of parts |
| Zinc Nickel | Steel | High corrosion protection replacement for Cadmium |
| FABRICATION | | |
| Tube Bending | 3/8" to 8" | Thin wall, mandrel bend, minimal welds, multi bend/small radius |
| Secondary Operations | 3/8" to 8" | Manual and robotic welding, end forming, punching, swedging |
| Sheet Metal | Steel, Stainless, Aluminum | Laser cutting up to 1" steel, 1/2" stainless, 1/4" aluminum, press brake forming up to 1/2" steel, PEM insertion |
| Automation/Machine Build | | Full machine design, in house build, engineering |
| CNC/Tool Room Machining | | Prototyping, fixtures, tooling, finished parts |
| DESIGN/TOOLING/DIE CAST | | |
| Tool Design, Build, Repair | Zinc/Aluminum | Assist in development of product, mold flow simulation, tooling built in house |
| Multi-Slide and Hot Zinc Die Casting | Zamak 2, 3, 5, ZA-8 | Single or multi-cavity die casting aluminum and die casting machines from 80-500 tons |
| Cold Chamber Aluminum Die Casting | Aluminum 380 | Single or multi-cavity aluminum die casting in conventional machines from 500-800 tons |
| Secondary Operations/Machinery | Zinc/Aluminum | Shot blast, tumble/deburr, hand degate, manual tap, CNC tapping, drilling, machining |
| COATINGS | | |
| ArmorLinc® Vault Series | Aluminum, Steel | Fluoropolymer base, friction reduction, chemical protection |
| Ceramics | Steel, Stainless, Aluminum | Corrosion and thermal fatigue protection |
| NeverBlue® | Nickle Chrome, Stainless | Color retention at high temperature |
| Powder | Variety | Cosmetic, impact resistance, high temperature |
| Silicones | Variety | Impact resistance, color retention, high temperature |
| THERMAL INSULATION | | |
| ThermoLinc® Elite | Variety | Advanced insulation system for high heat applications |
| ThermoLinc® Genesis | Variety | Thermal, corrosion and durability protection |