



**ENGINEERED PRODUCTS
SHEET METAL FABRICATION**



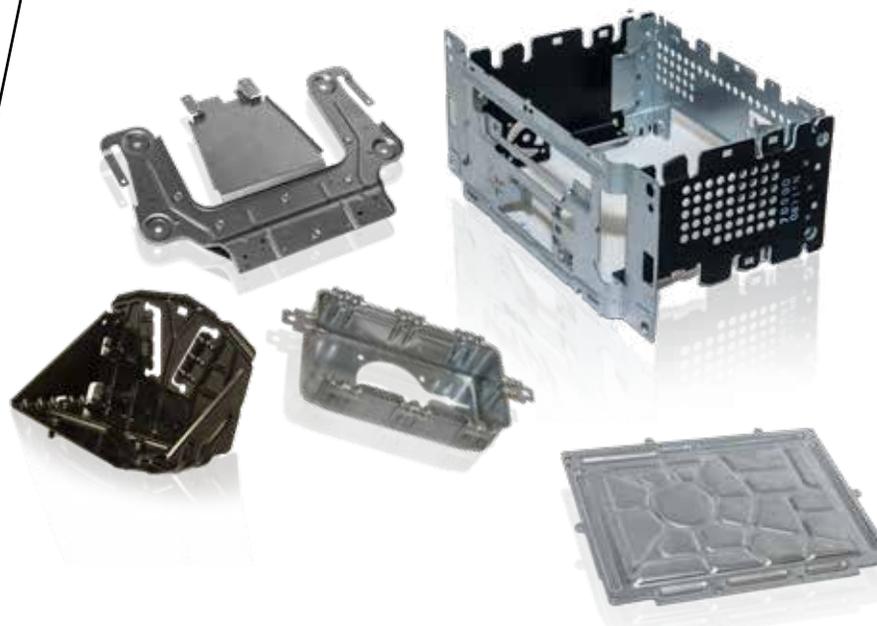
**GLOBAL GEAR & MACHINING
PRECISION GEARS & MACHINING**

IMS Companies™

INNOVATIVE MANUFACTURING SOLUTIONS



**ELECTROL
CUSTOM WIRES, CABLES & CONNECTORS**



**BUHRKE-OLSON
PRECISION METAL STAMPING & ASSEMBLY**

IMS COMPANIES

A NORTH AMERICAN MANUFACTURING LEADER

IMS Companies LLC is a consolidation of contract manufacturing operations working together to provide Innovative Manufacturing Solutions to OEMs in sourcing component parts and assemblies.

Every IMS operation, working individually or as part of the group, provides project support ranging from original concept actualization to product design and prototyping to final production.

GLOBAL MANUFACTURING

The synergistic business strategy of IMS is to provide the highest quality of services to customers through inter-business alliances with suppliers and vendors, as well as through intracompany cooperation in sharing skills, talent and capabilities. The result is a business entity able to service global accounts more efficiently and with a cost-effectiveness that single-focus companies cannot match.

MANUFACTURING CAPABILITIES

Experience matters in contract manufacturing operations. Each of the IMS Companies possesses a long and successful record of achievement. Supported by this record of success, their services are the finest the contract manufacturing industry has to offer. These services include precision progressive die metal stamping, tool design and build, prototyping, superior sheet metal fabrication (especially in stainless steel), special machining services for gears and high volume machined parts and the design and assembly of complex wire harnesses and cable assemblies.

INTEGRATION & ENGINEERING

Superior CAD design software, including AutoCAD 2009®, ProE 2000® and SolidWorks® systems enables IMS engineering to communicate effectively with customer engineers. Lean manufacturing initiatives in each IMS operation result in lower manufacturing costs and assured competitiveness.

QUALITY ASSURANCE

IMS Companies have earned top certifications for the industries they serve. These certifications include TS 16949:2016, ISO 9001:2015 and ISO 14001:2015.

SUPPLY CHAIN MANAGEMENT

A VANTAGE® ERP system links all the IMS operations, ensuring quick response to customer requirements through flexible and responsive process technology. Inventories are managed and maintained using KANBAN and JIT planning techniques. EDI and web-based internet ordering systems are in use throughout the IMS family and capable IT systems are in service to meet any customer information exchange or order-processing requirement.

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Locomotive



Security



Transportation

**IMS COMPANIES PROVIDE PROJECT SUPPORT RANGING FROM ORIGINAL CONCEPT
ACTUALIZATION TO PRODUCT DESIGN AND PROTOTYPING TO FINAL PRODUCTION**

Hybrid Truck Battery



**IT / Data and
Financial**



**Defense,
Communication
and Aerospace**



Automotive



Light Truck



Medical



Agriculture



Appliance

IMS Companies provides tooling, metal stamping, sheet metal fabrication, machining, cable assemblies, wire harnesses and subcomponent assembly for leading manufacturers in the appliance, automotive, electronics, medical and industrial equipment industries.

ABOUT BUHRKE-OLSON

IMS Companies combined the resources of two industry-leading metal stamping companies—Buhrke Industries and Olson International, Ltd. and formed IMS Buhrke-Olson in 2008. With three manufacturing locations in the U.S. and Mexico, IMS Buhrke-Olson is one of the premier sources for precision metal stamping and assembly in North America.

Facility

- Established in 1937
- Headquarters & manufacturing in Arlington Heights, IL (235,000 Sq. Ft)
- Two manufacturing facilities located in Matamoros (155,000 Sq. Ft.) and Monterrey, Mexico (220,500 Sq. Ft.) since 1988
- Highly trained workforce of 700+ employees
- Over 80 stamping presses across all locations ranging from 30 to 600 tons with bed sizes up to 144” long
- Equipment is strategically positioned between plants, providing redundancy and flexibility to our operations

IMS Buhrke-Olson believes that the ideal precision metal stamping supplier is cost-competitive while offering a full range of engineering support services, from prototype to production. It also has the latest and most efficient equipment and processes, with manufacturing facilities in low-cost locations. IMS Buhrke-Olson provides world-class quality, efficiency and customer service.

Capabilities

- Engineering
- Prototype to Production
- In-House Tool and Assembly Equipment Design and Fabrication
- Automated Assembly
- Surface Treatments
- Finishing
- Inventory Management
- Supply Chain Management

IMS Buhrke-Olson produces precision metal stampings and mechanical assemblies for various markets. Our engineering and manufacturing staff can assist from the early design phase through the entire component manufacturing process. To ensure a production process to match precise customers’ needs and specifications from the first run to the end of product life cycle.

Industries Served

- Automotive
- Appliance
- Electronics
- Consumer
- Lighting
- Industrial Power
- Electrical Controls
- Solar

All plants certified to TS 16949:2016, ISO 14001:2015 and ISO 9001:2015.



PRECISION METAL STAMPING



US MANUFACTURING CAPABILITIES
Buhrke-Olson. Main Office.
511 W. Algonquin Rd.
Arlington Heights, IL 60005
Phone: 847-981-7550
www.buhrke.com

MEXICO MANUFACTURING CAPABILITIES
Monterrey, Mexico
Calle Energia #303
Parque Industrial La Silla Apodaca
Apodaca N.L., MX 66600
Phone: 011-52-811-156-6900

Matamoros, Mexico
Av. Lauro Villar Km 7.5
Ciudad Industrial
Matamoros, Tamaulipas 87499
Phone: 011-52-868-812-8427

With three manufacturing locations in the U.S. and Mexico, IMS Buhrke-Olson is a premier source of tooling, custom stamping and assembly in North America.



A RECOGNIZED LEADER IN THE MANUFACTURE AND ASSEMBLY OF PRECISION METAL STAMPINGS AND ASSEMBLIES SINCE 1937

Prototype to Production

- Dedicated prototype team and resources
- Early engineering involvement
- Design recommendations for improved manufacturability and cost improvements
- Advanced product and formability analysis

In-house Tool and Assembly Equipment Design and Build

- 70+ designers and tool and die makers in U.S. and Mexico
- Building tools in Mexico since 1995
- Extensive use of in-die sensing for part verification and tool damage prevention

Automated Assembly

- We employ fully and semi-automated systems to perform spot welding, toxing, fastener and custom component insertion.
- In-tool and off-line stud insertion, tapping and spot welding
- Stampings mated with purchased components to build finished assemblies

Quality Systems

- All plants certified to TS 16949:2016, ISO 14001:2015, and ISO 9001:2015

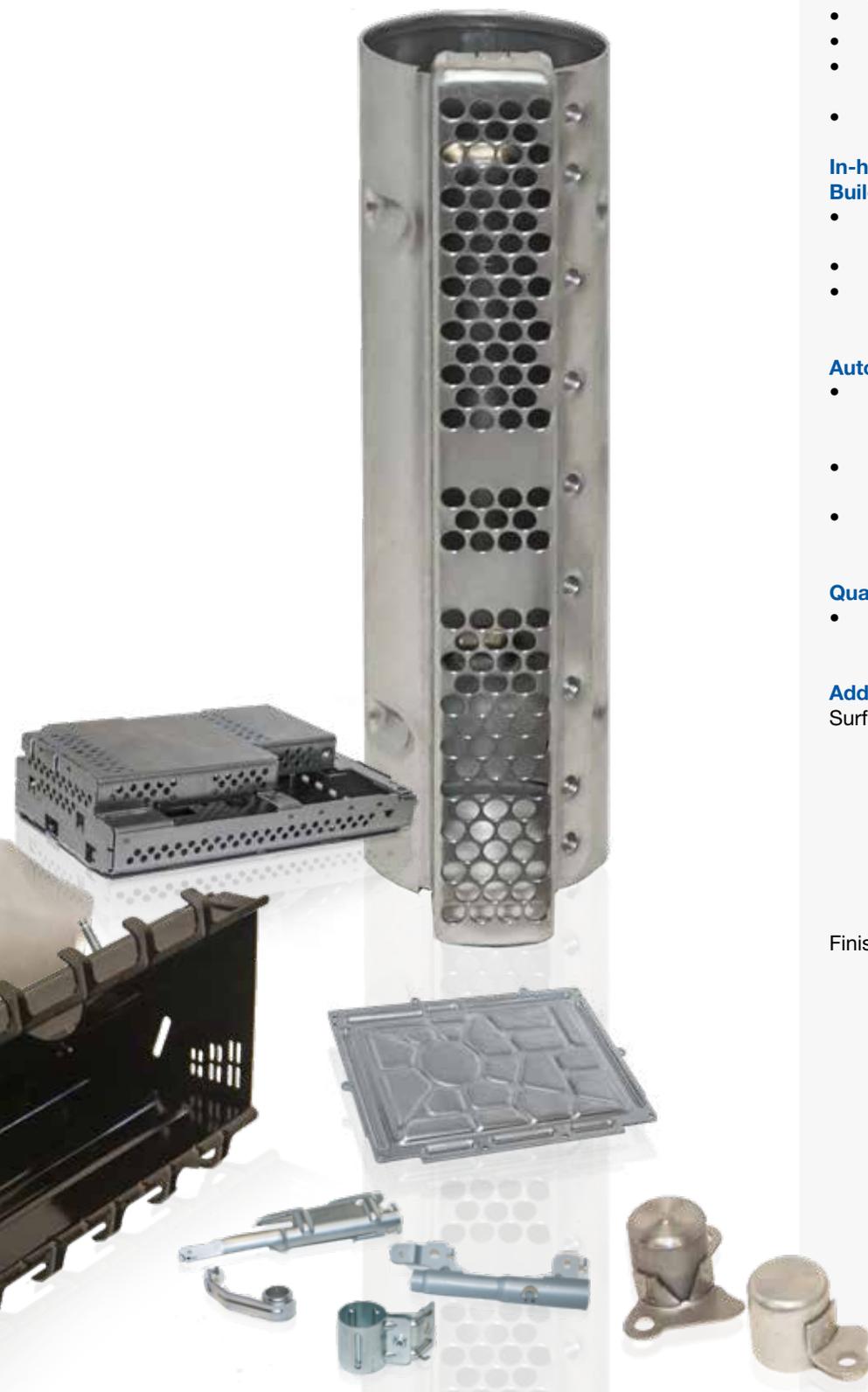
Additional Services

Surface treatment including:

- Cleaning
- Deburring
- Lapping
- Grinding
- Heat Treating
- Annealing
- Passivating

Finishing including:

- Zinc Plating
- Black Oxide
- Painting
- E-coat
- Anodizing



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ABOUT ELECTROL

For over five decades, Electrol has met the cabling and power needs for some of the world's largest companies, who have trusted us to deliver quality products with zero failure expectation. Our strategy is simple; we create and deliver value. As an ISO9001 company, Electrol continues to provide high-quality, practical cable assemblies for today's most demanding applications.

Facility

- Located in New Berlin, WI.; Established in 1961
- Core competency is discrete wires, wire harnesses, data communication cables, electro/mechanical assembly and testing, industrial cables and IT power distribution cable assemblies
- 38,000 sq. ft. of manufacturing space in New Berlin, WI.
- 3,000 sq. ft. in Monterey, Mexico.
- Centrally located approximately 50 miles from Madison, WI.
- 100+ Non-union employees
- Fully integrated ERP system
- ISO9001-2015 Certified, UL Registered Company

IMS Electrol works closely with suppliers to maintain strategic pricing and a timely supply of raw materials. Production schedules are posted to optimize the workforce of over 100 dedicated people. Quality is paramount throughout the various operations, from wire processing and assembly to shipping.

Capabilities

- Data Communication Cables
- Pre-Fab, UL Listed, IT Power Distribution Cable Assemblies
- Discrete Wires
- Wire Harnesses
- Industrial Cable
- Mechanical/Electro-Mechanical Test and Assembly
- Engineering
- Inventory Management Programs

IMS Electrol is committed to quality assemblies, delivered on time, at the best possible price. The company strives to provide its customers with the optimum solution to meet their cable assembly, wire harness and electromechanical assembly needs.

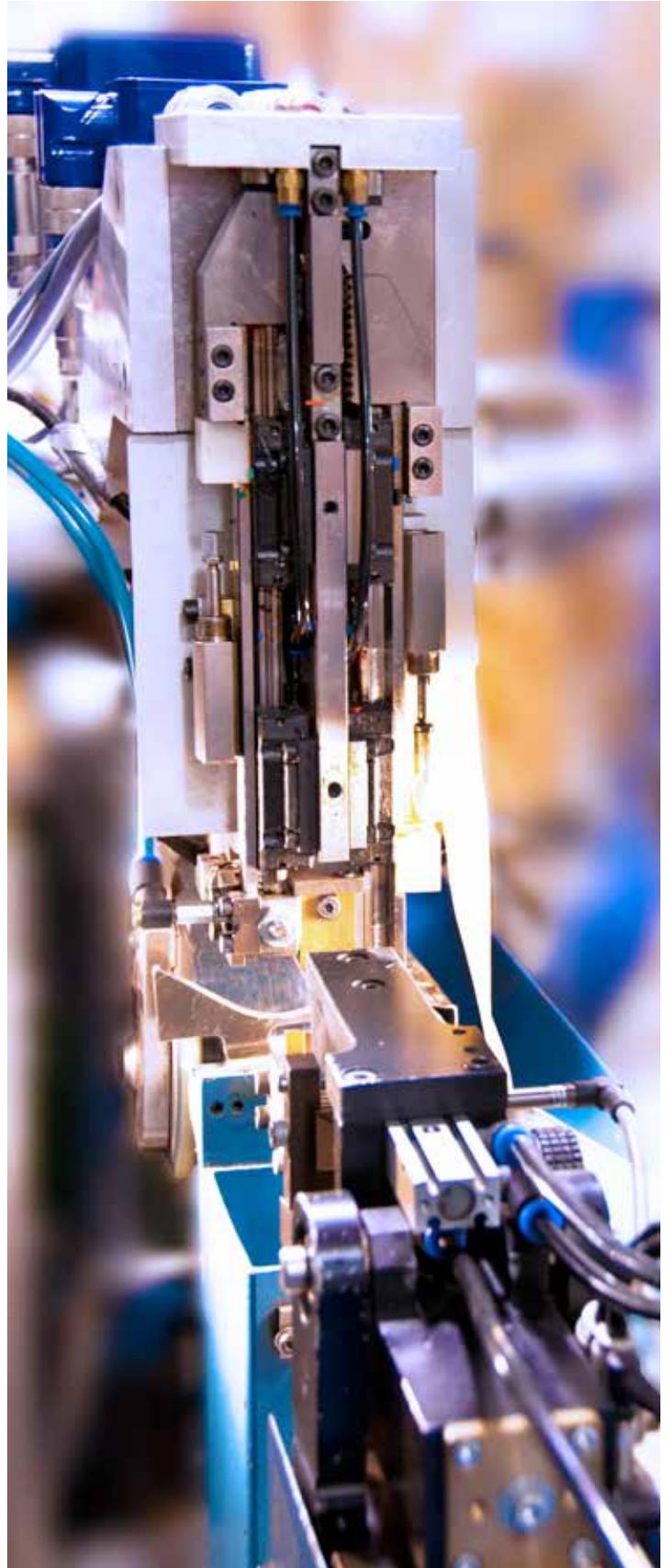
Industries Served

- IT/DATA
- Medical
- Military/Aerospace
- Transportation
- Industrial Controls
- Communications
- Electronics

Electrol utilizes engineering software formats including AutoCAD®, Pro-E® and SolidWorks®.



CUSTOM WIRE HARNESS & CABLE ASSEMBLY



US MANUFACTURING CAPABILITIES

ELECTROL

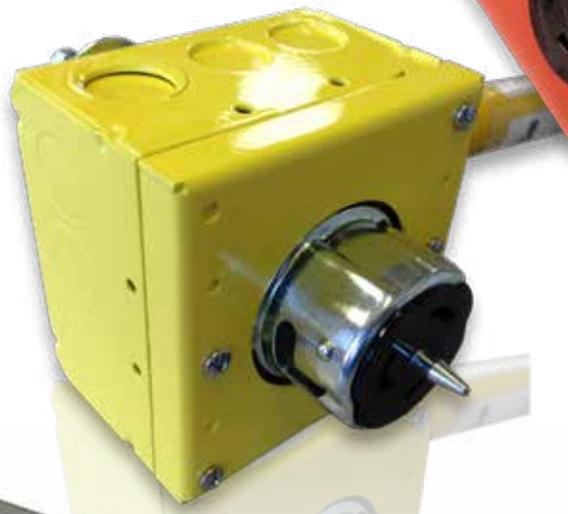
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Phone: 011-52-811-156-6900



IMS Electrol is committed to quality assemblies, delivered on time, at the best possible price.



CUSTOM CABLE ASSEMBLIES, WIRE HARNESES & ELECTROMECHANICAL ASSEMBLIES

Discrete Wires with Connectors

Electrol uses automated, high-speed cutting, stripping and crimping equipment to handle almost any type of wire or cable. These automated processes improve process repeatability and increase the overall quality of our discrete wires.

Wire Harnesses

Electrol's lean approach to engineering and manufacturing of wire harnesses drives out waste from the process. All processes are controlled through the use of technical documentation, visual assembly instructions and assembly boards, ensuring reduced costs and shorter lead times.

Electromechanical Assemblies

Electrol is a full-service, engineering-driven company with the size, scale and financial resources to partner with OEMs in providing complete outsourced manufacturing services.

Electrol offers turn-key customer solutions for electromechanical assembly and testing, small box builds and large control panels.

Industrial Cables

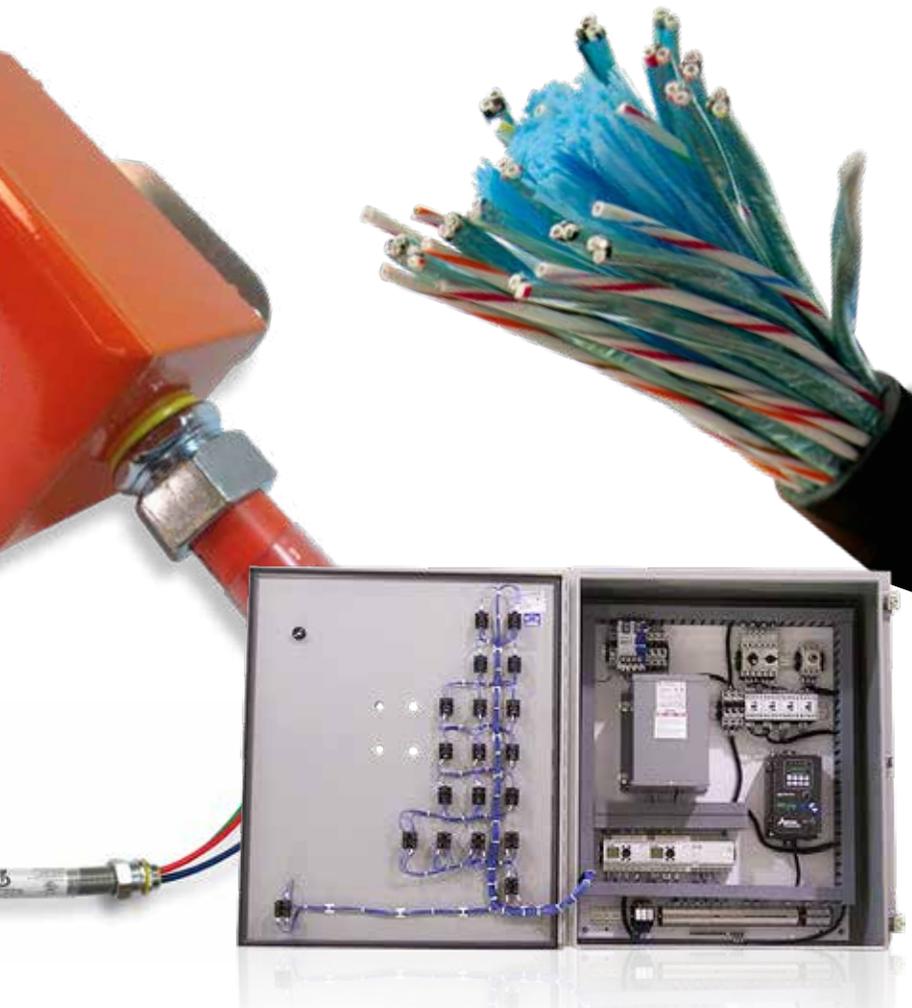
Electrol offers design assistance and has robust manufacturing capabilities to produce industrial cable assemblies.

Data Communication Cables

Electrol has the capabilities to manufacture custom data communication cables, working with a wide array of electrical jacketed cables (whether unshielded or multi-shielded) built to a customer's precise needs.

PowerWhips

PowerWhips by Electrol are custom configured power cable assemblies for data center applications. PowerWhips provide quick, low-cost power distribution to cabinet rows, decreasing build time and waste. All assemblies are 100% factory tested and UL-listed and are made with the highest-quality components on the market.



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ABOUT GLOBAL GEAR & MACHINING

IMS Global Gear & Machining is a contract manufacturer of high-precision gears, shafts and machined components for engines, transmissions and transfer cases. Additional products include pulleys, assemblies and hubs for non-engine-related applications.

Facility

- Located in Downers Grove, IL.
- Approximately 16 miles from Midway airport and 19 miles from O’Hare Airport
- 132,000 sq. ft. facility
- 100+ Non-union employees—3 shift operation
- ISO 9001:2015, ISO 14001 and IATF 16949:2016 registered
- Investments in the latest manufacturing technology make IMS Global Gear and Machining an outstanding source for engine, transmission and axle gears along with other CNC machined components and value-added assemblies

Capabilities

- Turning, hobbing, shaving, OD/ID grinding
- Gear tooth grinding and shaping
- Low-, medium- and high- volume work cells
- Dedicated automated robotic work cells for high volume
- Prototyping
- Bushing, bearing and purchased component assembly
- Up to 330mm diameter gears and 600mm shafts
- Vendor managed inventory programs
- Core competency is gear processing and precision machining

Industries Served

- OEM Automotive North America and Overseas
- OEM On- and Off- highway transmission
- Industrial, Agriculture and Commercial
- Railway transportation
- Power Generation
- Oil, Gas and Mining

Global Gear & Machining boasts exceptional engineering talent that is supported by the latest CAD software including AutoCAD®, Esprit CAM and SolidWorks®.



PRECISION GEAR & COMPONENTS





Every gear made by IMS Global Gear & Machining is precision-machined to ensure exacting tolerances and optimal lifespan.

IMS GLOBAL GEAR & MACHINING

IMS Global Gear & Machining offers capabilities to manufacture spur and helical gears up to 500mm diameter gears and 700mm long shafts. Typical products include crankshaft, camshaft, idler, auxiliary drive, and oil/fuel/water pump gears. Additional product offerings include adapters, internal shaped ring gears, ID/OD splines for gears and shafts and belt drive pulleys. IMS Global Gear and Machining has historically delivered 100% on time for eight consecutive years with less than 50 DPPM.

Production Capabilities

- Turning
- Milling
- Hobbing
- Deburring
- Shaving
- Shaping
- Skiving
- Broaching
- Double disc and face grinding
- Bore Honing
- ID/OD Grinding
- Hard Turning
- Gear tooth grinding and polishing

Production Services

- Tooling and fixturing
- Bushing and bearing assembly
- Outside services management
 - Heat treat
 - Plating
 - Painting
- Project Management
- Returnable container management
- Consigned material management
- Domestic and Global logistics
- VMI programs
- Post-test inspection

Engineering

- AutoCAD®
- SolidWorks®
- ISO/IATF

As a IATF 16949:2016 certified facility using statistical process control, the company guarantees products will meet rigorous design standards for noise, performance and longevity.



ABOUT IMS ENGINEERED PRODUCTS

IMS Engineered Products is a premier contract manufacturer of metal fabrications, assemblies and branded products. IMS Engineered Products is a consolidation of two companies: Exton Corporation and AMCO Engineering — acquired in 1996 and 2005 respectively. Today with over 80 years of experience, AMCO Enclosures is a recognized leader in the design, manufacture and integration of standard or custom electronic racks and cabinets for all segments of industry. IMS and its antecedent companies have been in business since 1943.

Facility

- Located in Des Plaines, IL.
- 300,000 sq. ft. of manufacturing space
- Located approximately five miles from Chicago’s O’Hare Airport
- 12 shipping docks
- 350+ non-union employees—two shifts
- ISO9001-2015 Certified, UL Registered Company

Utilizing the latest production technologies and a skilled workforce, IMS Engineered Products works closely with each customer to develop, manufacture and deliver the highest-quality metal fabricated products and assemblies on time.

Capabilities

- Design Engineering
- Rapid Prototyping
- Sheet Metal Fabrication
- Tooling
- Metal Finishing/Stainless Steel Polishing
- Mechanical/Electromechanical Assembly
- Powder/Wet Coating
- Silk Screening
- Inventory Management Programs

IMS Engineered Products’ proficiency and track record in supplying quality fabricated products to various sectors of industry create the acumen for our versatile and agile approach to each customer’s design requirements.

Industries Served

- IT/DATA
- Medical
- Military/Aerospace
- OEM
- Transportation
- Financial/Banking
- Electronics
- Telcom
- Agriculture/Mining
- Appliances

Custom design and manufacturing solutions are supported by software including ProE® and SolidWorks®.



CUSTOM SHEET METAL FABRICATION





The evolution and success of our company can be attributed to the right balance of people, processes, equipment and the value we place on our customer interaction.



PEOPLE ARE AT THE HEART OF IMS EP PRODUCTS

With our extensive history in manufacturing that began in 1943, we know it's not just about the final product, but the entire process. Utilizing the best materials, methods and machines, we firmly believe the difference in our product is our people and their dedication to each customer.

IMS Engineered Products strongly believes that early supplier involvement yields many financial benefits to the customer. Because of this, IMS EP developed a product life cycle process with a dedicated team to advance your visions to market more quickly.

Tight quality control practices in accordance with ISO 9001:2015 standards are in effect at IMS Engineered Products. Calibrated equipment, testing systems and in-process controls are just a few of the quality components that ensure final products perform as intended.

IMS Engineered Products offers many special capabilities that exceed customer expectations from conventional metal fabricating operations.

Production Capabilities

- Shearing
- Turret Punching
- Laser Cutting
- Metal Forming
- CNC Machining
- MIG and TIG Welding
- Grinding

Custom Finishing

- Stainless Steel Polishing
- Powder Coating
- Wet Coating
- Silk Screening

Engineering

- Pro-E®
- SolidWorks®

Production Services

- Sheet Metal Fabrication
- Tooling
- Custom Finishing
- Electromechanical Assembly
- Quality Assurance/Inspection
- Global Logistics
- Inventory Management

Custom design and manufacturing solutions are supported by software including ProE® and SolidWorks®.



IMS COMPANIES, LLC. NORTH AMERICAN MANUFACTURING OPERATIONS



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