

# Integrated Manufacturing Solutions



With an ISO 14001 and IATF 169494 certified manufacturing facility, Optimas provides the ability to design, test and produce cold form **components** and **engineered fasteners** from our centrally located facility near Chicago. Using state-of-the-art machinery and **cold forging processes**, Optimas delivers expertise and capacity to meet your specific fastening needs.

Our integrated **engineering**, rapid **prototyping** and **quality** testing produce superior parts for quick turnarounds and full-scale production. This ensures a **responsive supply chain** that delivers needed fasteners and elevates quality during planned production and periods of unexpected demand.



## Benefits

- Supply chain security
- Superior quality fasteners
- Highly reproducible process
- Faster production throughput
- Lower unit price by process conversions
- Minimal machining
- Near net forming
- Nearly zero material waste



# Manufacturing Capabilities

## CAPABILITIES

40+

Thread styles, ranging from machine screw, thread forming, spaced threads, including licensed styles such as Taptite 2000® and Mathread®

7

SEMs washer styles



15+

Point configurations from standard to custom designed points

30+

Fastener sizes in standard and metric sizes

25+

External and internal head and drive combinations

## SIZE RANGE



Nominal size (diameter):  
M2 - 22MM

Length:  
5mm - 220mm



Single Die



2 Die / 3 Blow



3 Die / 3 Blow



4-Station



5-Station



6-Station Forming Capabilities

<b>PRODUCT LINES</b>  SEMs products Cap screws Rivets Pins Double end collar studs Thread forming screws  12 Pt. bolts Shoulder bolts Hex and hex flange bolts Six lobe screws / bolts Socket head bolts		<b>MATERIALS</b>  Low carbon Medium carbon Alloy 300 / 400 stainless steel Brass Silicon bronze
<b>SPECIAL SKILLS</b>  Cold form components Engineer fasteners SEMs products Roll thread after heat treat Licensed product		<b>HEAT TREAT</b>  Class 4.6 to 12.9, Carburize, Case Hardening and Induction Harden

# Engineering and Quality

With application and manufacturing engineers and ISO certified quality labs, Optimas offers end-to-end solutions that maintain the highest standards for every part manufactured—from design through delivery.

ENGINEERING	QUALITY
Parts standardization, re-engineering and rationalization	Advanced inspection, measuring and test capabilities
Application design and industry expertise	Extensive ISO 17025 compliant quality lab
3D printing and CNC machining prototype capabilities	Best-in-class parts-per-million
Identification of existing application issues and corrective actions	Industry leading validation equipment
Performance, quality and cost-saving continuous improvement	Centralized PPAP function to drive processing efficiencies
CAD / CAM / FEA programing	M6 and above lap thread checking and grain flow analysis

# Facilities

Our state-of-the-art plant manufactures millions of parts annually.

WOOD DALE, Illinois, USA	
Manufacturing parts since 1957	
139,000 square feet / 12,914 square meters	
118 dedicated machines—43 cold headers, 42 thread rollers, shavers, trimmers, pointing, slotting and drilling	
ISO 14001, IATF 16949 certified	
In house tooling manufacturing capabilities	
Product range from 2mm pins to 22mm in diameter male threaded fasteners and 220mm in length	
Strategic supply base for heat treating, plating, coating, patching and other secondary processes	



## Licensed Brands

Optimas has formed global partnerships with research centers and brands known for innovative thread-forming, drive characteristics and weight/height savings to aid production, including:

- Taptite 2000®
- Taptite Pro®
- Crosshead
- High Torque®
- Mathread®
- Matpoint®
- Remform®
- Plastite
- Phillips Square-Drive® / ACR
- Powerlok®
- Kleerlok®

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### ABOUT OPTIMAS

Optimas is the leading global industrial manufacturer and distributor specializing in fastening and supply chain solutions for manufacturers seeking to improve efficiency and profitability. We take care of the details so you can focus on manufacturing cutting-edge products—giving you an unparalleled competitive edge.

### CONTACT US

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