

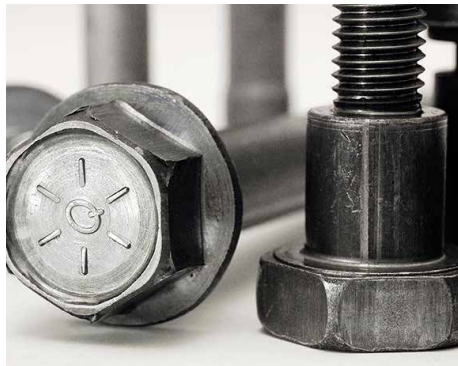
Integrated Manufacturing Solutions

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

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

Manufacturing

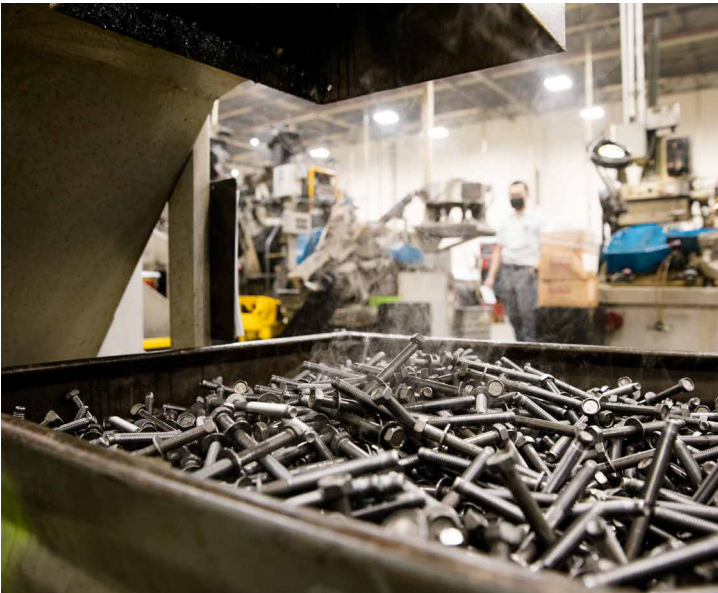
Engineering and Quality

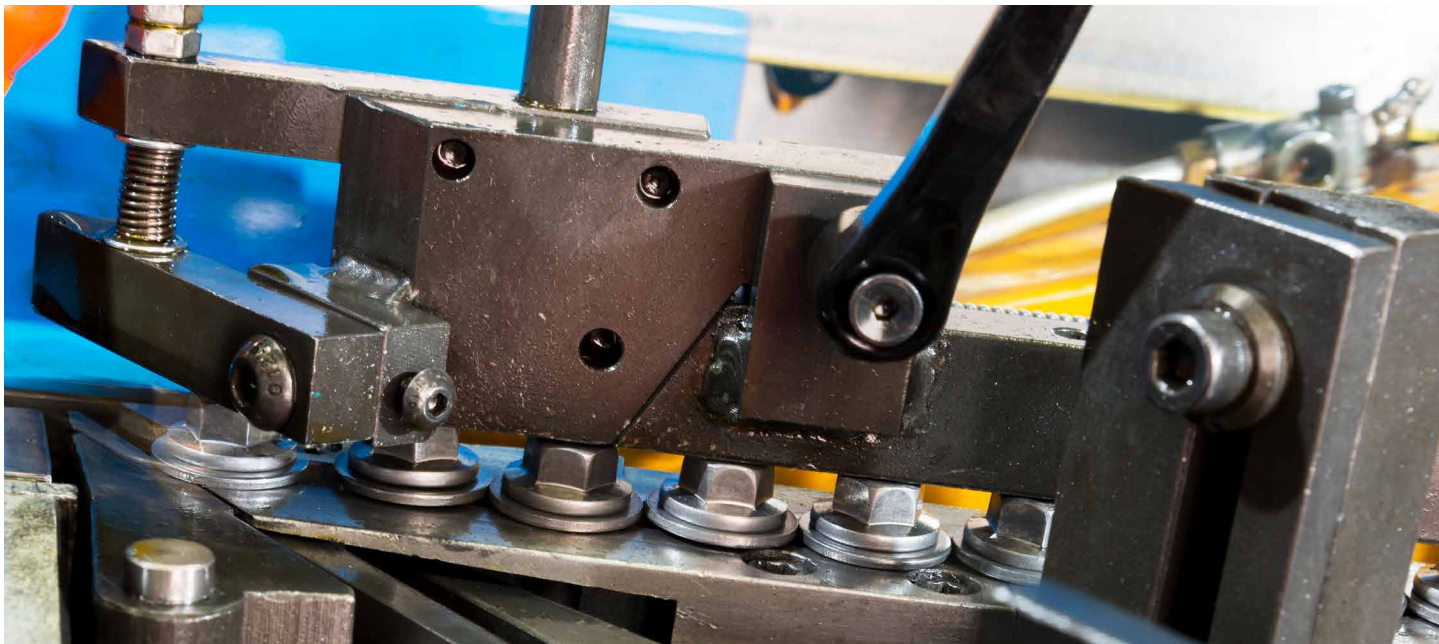
With application and manufacturing engineers and ISO certified quality labs, Optimas offers end-to-end solutions that maintain the highest standards for every part manufactured—from design through delivery.

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	
110 dedicated machines—39 cold headers, 38 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®
- High Torque®
- Mathread®
- Matpoint®
- Remform®
- Plastite
- Phillips Square-Drive® / ACR
- Powerlok®
- Kleerlok®

ABOUT OPTIMAS

Optimas is a leading, global, industrial manufacturer/distributor specializing in fasteners and supply chain solutions for organizations seeking to improve efficiency and profitability. We take care of the details so you can focus on producing cutting edge products—giving you an unparalleled competitive edge.

CONTACT US

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