

# MANUFACTURING SOLUTIONS



**World Class, Bespoke  
Manufacturing Solutions**

Optimas is the **leading Global** industrial manufacturer, distributor and service provider that specializes in **fastening** and supply chain **solutions** for manufacturers seeking to **Efficiency Up**

## GLOBAL REACH LOCAL PRESENCE

Through our geographic footprint we provide solutions for our customers Globally



## OVERVIEW



### SUPPLY CHAIN STABILITY

Reduce risk, improve lead times and your sustainability through onshoring & nearshoring.



### SUPERIOR QUALITY

Know you're in good hands with our zero-defect culture and "best-in-class" product range.



### POWERED BY 100% RENEWABLE ENERGY

Optimas' manufacturing plants are powered by 100% renewable energy.



### WORLD CLASS ENGINEERING

Our expert application & quality engineers proactively find ways to save money, improve product performance and mitigate risks.

**State of the art Fastener Manufacturing  
Cold-Forging Specialists  
World Class Production**



### COST EFFECTIVE METHODS OF MANUFACTURING

Capacity and expertise to manufacture high volume and low waste.



### FAST PRODUCTION THROUGHOUT

Count on our production expertise to drive efficiencies and savings across your operations.



### HIGHLY REPEATABLE PROCESSES

Resulting in high quality, faster production and little to no finishing work.



### MINIMAL MATERIAL WASTE

89% of cold forming waste material is recycled, with 0% sent to landfill.

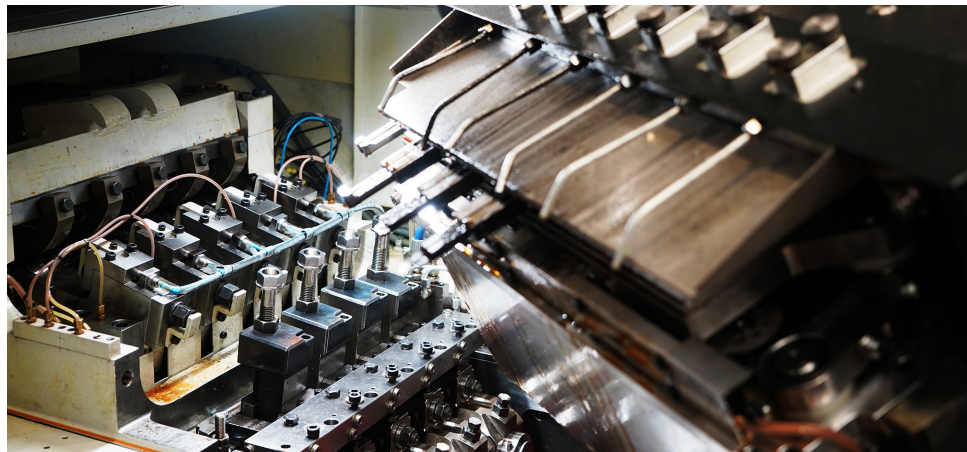
## IN HOUSE MANUFACTURING SOLUTIONS



Our integrated engineering, rapid prototyping and testing capabilities result in superior quality bolts, screws, nuts, rivets and other fastening solutions

## STATE OF THE ART FACILITIES

Housed in our advanced facility in Droitwich (UK), utilising state-of-the-art machinery and cold forging processes, Optimas has the expertise and capacity to meet your specific fastening requirements



## WORLD CLASS PRODUCTION

Through a programme of continued investment, Optimas boasts world class production facilities ready to support your manufacturing needs and exceed the demands of industry



## MANUFACTURING CAPABILITIES



### COLD FORMING

Lengths 6 - 175mm. Diameters 2 - 18mm



### BAR TURNING

Max Length 140mm. Diameters 6 - 42mm



### VARIETY OF DRIVE TYPES



### RAPID PROTOTYPING



### PLASTICS

Bar Turning



### LASER MEASURING & SPC

### PROCESSES

- Turning
- Milling
- Screw cutting
- Drilling
- Boring
- Tapping
- Broaching
- Engraving
- Surface grinding
- Cylindrical grinding
- EDM
- CNC machining
- Polishing
- Assembly

### LICENSED BRANDS

- Taptite 2000®
- High Torque®
- Remform®
- MORTORQ Super
- Powerlok®
- Internal / External 6-Lobular
- Crosshead
- Mathread®
- Matpoint®



## INDUSTRIAL 3D PRINTING

Additive manufacturing for rapid prototyping and end-use production parts



Optimas provides industrial-grade additive manufacturing solutions for low-volume production parts and custom prototyping—in as fast as a day!

Our digital manufacturing capabilities lead to more responsive supply chains with on-demand, cost efficient production of parts that shorten the product lifecycle and accelerate speed to market.

Optimas' integrated engineering, rapid prototyping and quality testing capabilities serve a broad range of industries with 3D solutions that deliver innovation, customisation, and performance.

### VALUE ADDED BENEFITS

- Accelerated speed to market
- Reduced tooling, material and labour cost
- Design freedom and optimisation
- Increased competitiveness and customer value
- Superior quality
- Supply chain security
- Sustainability, less environmental impact
- Integrated, engineering cold form manufacturing



### RAPID PROTOTYPING

Produce fully functional prototypes, complete with moving parts, as well as all-in-one assemblies.



### PRODUCTION PARTS

Build accurate and consistent, low volume production parts to get your product into the hands of customers faster and more efficiently.



### MANUFACTURING TOOLING

Maintain high-quality production and efficiency with custom manufacturing aids like jigs and fixtures that streamline processes and improve quality and consistency.

## FASTENERS



Fasteners are an essential and critical part in almost every manufactured product, in every industry sector



Trusted by over 5000 manufacturers across the globe, you can rely on Optimas to provide the nuts and bolts for your next project, whatever the application



## FASTENER STYLES & FINISHES

There are hundreds of thousands of fastener styles & finishes - here are six key areas for consideration:

### SIZE

Smaller fasteners can provide opportunities for weight reduction. By decreasing the body diameter of fasteners, the volume of material needed for production is reduced, which can lead to significant weight savings.

### INSULATION

With greater electrification comes a greater need for insulation. Thermal insulation should be considered part of the initial electrical design due to the enormous heat generation inside battery cells.

### GEOMETRY

Geometry matters because a shallower head can enable manufacturers to save weight per fastener, leading to significant efficiency gains in aerospace, automotive and other high-end industries.

### MATERIALS

Much like size and geometry considerations, material selection is key. Using materials like aluminium, magnesium and titanium within the fastener selection process can help reduce weight and increase your distances.

### NON-FERROUS

Improve the efficiency of your electrified vehicle or machinery by incorporating non-ferrous, anti-magnetic fasteners that do not interrupt electric current.

### ASSORTMENT & AVAILABILITY

It can take up to 56 weeks to get a fastener from one end of the supply chain to the other. EV projects that require specialty fasteners can be even further delayed. Optimas can cut down lead times with a robust portfolio of parts and the buying power to meet the many challenges of your project.

## STANDARD FASTENER SOLUTIONS

Design it. Source it. Make it.

You can rely on Optimas to supply high-quality fastenings to meet the exact standards of your project

### BOLTS

- Anchor
- Carriage
- Elevator
- Flange
- Heavy Hex
- Hex
- Hex Lag
- Shoulder
- Structural
- Tap

### NUTS

- Flange
- Heavy Hex
- Hex
- Jam
- Keps
- Locknuts
- Rivet
- Square
- Structural
- Weld

### WASHERS

- Beveled
- Fender
- Finishing
- Flat
- Lock
- Sealing
- Shoulder
- Square
- Structural
- Wave

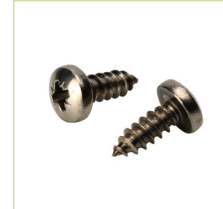
### SCREWS & OTHER FASTENERS

- Cap
- Drywall
- Lag
- Machine
- Self Drilling
- Self Taping
- Shoulder
- Socket Cap
- Thread Cutting
- Thread Forming
- Anchors
- Clamps
- Inserts
- Pins
- Pipe Fittings
- Rings
- Rivets
- Sockets
- Spacers

## ENGINEERED FASTENING SOLUTIONS



- Custom Designed Parts
- Heavy and Light Duty Clamps
- Hydraulic and Pneumatic Fittings
- Pins, Lanyards and Pin Assemblies
- Powder Metal and Metal Injection
- Molding Products
- Stampings, Assemblies and Kitting
- Finishes and Secondary Operations
- Exotic Materials



## QUALITY & ACCREDITATIONS

Products designed and manufactured by Optimas meet increasingly strict mechanical performance criteria



- IATF 16949 certified
- Advanced inspection, measuring and test capabilities
- Best-in-class PPM (Parts-per-million)
- ISO 9001 and 14001 certified
- PPAP certification
- 100% audit approval
- Industry-leading validation equipment
- Partner performance management strategies



IATF 557345

FM 557344

EMS561546

## SUSTAINABILITY - WHERE WE ARE

### CERTIFICATIONS

ISO Certified ISO 14001 Environmental Management.

ISO 14001 Wood Dale, IL, USA, Droitwich Spa, UK, Gloucester, UK, Bredbury, UK, Suzhou, China, Sarreguemines, France.

100% of our UK employees work within ISO 14001-certified facilities.

### ENERGY

UK & France using nuclear, solar and wind electricity, with both regions representing 20% green energy use of Optimas' global energy consumption.

Early 2023 Wood Dale, USA, moved onto green energy tariff, meaning Optimas has achieved global green energy usage of over 50% before even starting an official roadmap.

### RECYCLING

89% waste recycling (1,087 tons generated).

Up to 92% by volume recycled scrap metal is used in our raw materials.



Sustainability awareness is quite rightly at an all-time high and is playing a key role in the way all companies operate

The focus is firmly on industry to play a crucial role in addressing ways of protecting our natural environment and human and ecological health.

By investing in innovation and a greener future for generations, Optimas is setting the standard.



**100%** of Optimas UK facilities, including our Barton, manufacturing plant (6 sites for manufacturing and distribution) are powered by renewable energy.



**89%** of cold forming waste material is recycled with **0%** sent to landfill.



**100%** of additive manufacturing waste is recycled.



We source PPE from manufacturers who produce eco-friendly solutions, for example safety gloves, made from **50%** recycled materials.

# barton

AN  OPTIMAS COMPANY

## ABOUT OPTIMAS

Optimas is the leading global industrial distributor and service provider 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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