



JENKS & CATTELL  
ENGINEERING LIMITED

...engineered for you



[www.jcel.co.uk](http://www.jcel.co.uk)

# Introduction

Jenks and Cattell Engineering produce high quality presswork, laser fabrication, welding and assemblies from our large UK manufacturing base in the West Midlands. We pride ourselves on our achievements in quality, service and value.

We have delivered billions of components to customers worldwide, many of them leaders in their industry sector including automotive, lighting and heating manufacturers, off highway and white goods.

We are part of the Newship Group, a private family owned group of companies. Newship Group has sales in excess of £140million per annum and operates in the engineering, packaging, construction and hire markets across Europe.



## We Deliver an Extensive Range of Manufacturing Services

Whatever you are sourcing, whether it's a simple or complex component, low or high volume production runs, we are committed to servicing your exact requirements.

### Our Manufacturing Capabilities include:

- *General pressings from 10 tonne to 1,000 tonne presses*
- *Technical pressings from transfer through to progression presses*
- *Welded assemblies from manual welding to robotic welding*
- *Laser fabrication*
- *Functional assemblies*
- *Mechanical assemblies*
- *Surface finishing*



# Our Services are Delivered with Excellent Quality, Project Management & Value

## High Quality Products and Service

Quality and service are of paramount importance to us and we are accredited with the TS 16949 quality standard. We are focused on defect prevention to ensure that components are produced right first time, every time. We are also ISO 14001 accredited which confirms our commitment to improving the quality of our environment.

## Close Communication

Our engineering team work closely with our customers from the initial quotation through to delivery. This partnership ensures that we can help drive down your costs whilst meeting or exceeding your exacting requirements. Rapid communication is achieved through our CATIA based CAD facilities.



# Presswork to your Precise Requirements

Our technical presswork on the AIDA Line and Progression Presses is perfect for the cost effective manufacture of complex components with medium to high volume production runs.

Our general presswork machines range from 10 tonne up to 1,000 tonne presses including the automated feeder systems which enable small production runs at competitive prices. We can use a vast range of material thicknesses from 0.2mm up to 14mm, to meet all your presswork requirements.



# Our Presswork service delivers you:

## Superior Quality

Highly skilled and experienced operators run the power presses with a clear understanding of the customers' finished product requirements. The operators follow stringent quality standards to ensure customers' specifications are met or exceeded.

The AIDA Line and Progression Presses' precision and product quality are excellent; we have an impressive record of producing 15.4million components whilst operating below the target 25PPM on the AIDA Line.

## Costs Driven Down

We have developed a successful 5-year relationship with tooling suppliers in China who deliver savings of up to 50% compared to UK purchased tools.

Our product development team work closely with customers to drive costs down, for example components are designed to be manufactured with minimal material waste.

## Benefits from our Experience

Customers profit from our highly skilled engineering teams' in-depth knowledge and intimate understanding of our production capabilities.

We manufacture using lean production methods and are committed to our effective continuous improvement approach to manufacturing.

## Fast Production

Speed of production is particularly fast on the Transfer and Progression Presses as they perform sequential press operations in one automated cycle.

Notably our Progression Presses can produce up to 5,000 components an hour.

## Lower Production Costs

The AIDA Line and Progression Presses are very cost effective for high volume runs mainly due to a labour cost saving of up to 92%.



# The Complete Package from Delivering Simple Laser Cut Blanks to a More Finished Product



## Laser Fabrication

Our top of the range Trumpf flatbed laser profiling facility is ideal for cost effective manufacture of simple to complex prototypes and low volume production runs.

The laser machine can cut any shape, however complex, in mild steel, stainless steel, coated steel and aluminium. With a laser etch facility it can imprint part numbers, bar codes, logos or any other markings on the component. The laser machine can cut through steel up to 16mm thick.

The components produced by the laser can have additional forming operations performed by the brake press or robotically welded at a fraction of the cost of other processes.

### Benefits of our laser machine:

- *Able to produce 1 to 5,000 components at the fraction of the cost of general assemblies*
- *No tooling expenditure*
- *Produces highly accurate components*
- *Improves edge quality*
- *We can deliver orders within 72 hours or JIT to meet demanding customer schedules*
- *Capable of producing very complex components*
- *Ideal for prototype components*

## Welded Assemblies

Our welding services include CO<sub>2</sub> , spot, projection and CD welding. We weld low to high volume runs which are cost effective and to a high standard.

### Our robotic welder delivers you:

- *High accuracy*
- *Excellent quality*
- *Fast production*
- *Cost competitive components*



## Efficiently Delivering High End Assemblies

We will supply you with a finished product by completing the assembly and/or surface finishing on your behalf for both low and high volume runs. The benefits from increased production efficiency means you gain from both time and cost savings.

### Functional Assemblies

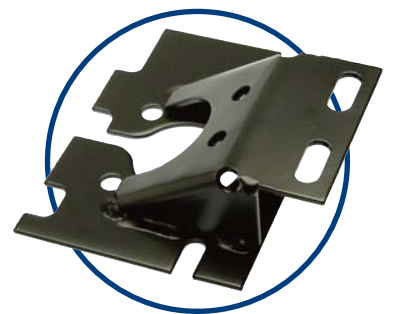
Our designated functional assembly area with automated and manual lines is capable of meeting all your specific requirements.

### Mechanical Assemblies

We can provide a wide range of mechanical assembly services from toxing, riveting, nut insertion and pipe clips, tailored to suit your to product's specific features.

### Surface Finishing

We are able to finish your components for you with painting, plating and heat treatment services. We outsource these services to well-established, reliable and proven suppliers.





## Central to your requirements

Jenks and Cattell Engineering are centrally located in the UK and have excellent transport networks, giving you the customer a fast efficient service and meeting your delivery requirements.



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