



Ford Component Manufacturing

www.ford-components.com

R 2.0 TYP

NOTE FROM THE CHAIRMAN

Ford Component Manufacturing Ltd intends to be the strategic supply partner of choice to high technology commercial customers, requiring integrated manufacturing solutions to their procurement needs. This will be achieved through a culture of continuous improvement, investment, a strong people focus and a commitment to the very best in customer service & performance. Ford aims to maximise stakeholder value within the relationship based on mutual trust & respect.

QUITE SIMPLY, "FORD COMPONENT MANUFACTURING LTD. AIM TO BE THE BEST SUPPLIER OF PRECISION ENGINEERED PRODUCTS IN THE INDUSTRY"

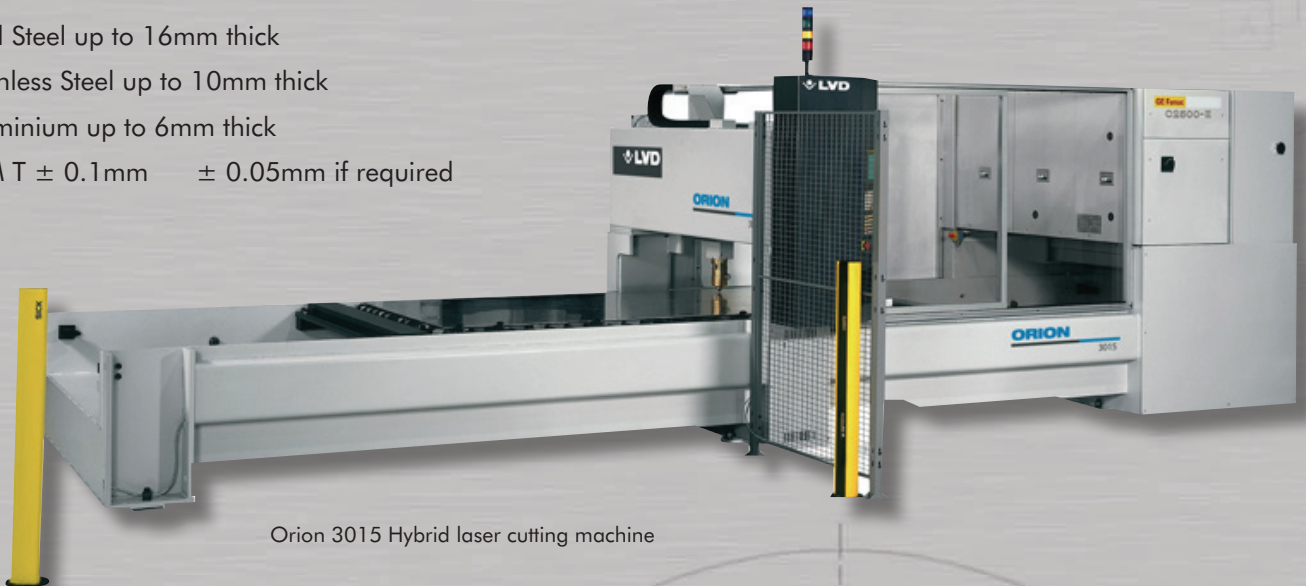


Ford Chairman
Geoff Ford MBE

LASER PROFILING

Our laser profiling facilities use the latest, state of the art, Orion 3015 Hybrid laser cutting machine, which is capable of handling sheet material up to 3m long x 1.5m in width.

- Mild Steel up to 16mm thick
- Stainless Steel up to 10mm thick
- Aluminium up to 6mm thick
- G.M T $\pm 0.1\text{mm}$ $\pm 0.05\text{mm}$ if required



Orion 3015 Hybrid laser cutting machine

LASER CUTTING TOLERANCES IN MM

General Cutting Tolerance

± 0.1 (± 0.05 is achievable if required)

Minimum hole size for material < 3mm
Minimum hole size for material 3-6mm

0.5 x material thickness
0.5 x material thickness

Maximum Sheet sizes: 3000mm x 1500mm



CAPABILITIES

Facilities include:

- Automated & Semi Automated presses
- Punching & Blanking
- Laser Profiling
- Tooling Design & Manufacture
- Supply Chain Management
- Project Management
- Surface Treatments
- Surface Finishing



LOW COST TOOLING (LCT)

Ford Component Manufacturing Limited has developed its own low-cost tooling (LCT) technique which brings in new levels of speed and economy for prototypes or for low to medium runs.

Tooling based on the LCT process will provide typically a 90% saving on the cost of conventional press tooling. Although much more economical, the tool will be robust enough to have a life expectancy of 50,000 cycles after which the tool is replaced by Ford at no extra cost to the customer.

The LCT process is most suited to the manufacture of thin gauge components either simple or complex in shape, with or without bolt holes. Most metals can be

used, although the most commonly used are aluminium, brass, steel and stainless with a thickness between 0.025mm (0.001") and 0.5mm (0.020") although thicker materials can sometimes be used.



QUALITY & ENGINEERING

Ford is accredited with ISO 9001 approval and for many years has supplied to customer specific requirements, including:

- PPAP (Production Part Approval Process)
- ISIR/FAIR (Initial Sample Inspection Report/ First Article Inspection Report)
- FMEA (Failure Mode Effect Analysis)
- APQP (Advanced Product Quality Planning)
- Independent Chemical and Physical testing
- CMM (Co-Ordinate Measuring Machine) Capabilities
- SPC (Statistical Process Control) Software Capabilities



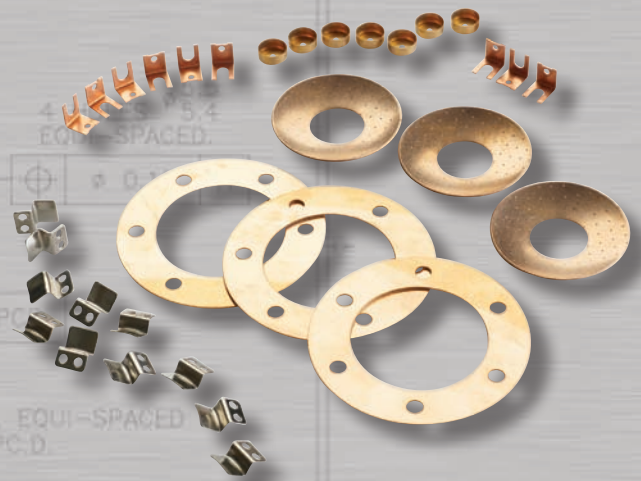
PRESSWORK

Operating from a modern facility at Monkton, South Tyneside, Ford Component Manufacturing Ltd. produces precision components for a wide range of industrial markets including:

- off highway vehicles
- automotive
- power generation
- rail & rolling stock
- nuclear power
- diesel engines
- handling equipment
- steel industry
- gear boxes & transmissions
- construction industry
- marine
- and many more

Presswork facilities include C frame, hydraulic and power presses up to 100 tonnes.

Ford manufactures flat or formed components in a wide range of materials and thicknesses typically from 0.025mm up to 10mm thick in materials ranging from aluminium to stainless steel, as well as various exotic materials. To suit our customer's requirements Ford have the facilities to manufacture components using strip as well as semi and fully automatic coil feeding.



CORE CAPABILITIES INCLUDE:

- Power presses (auto & semi auto) coil, strip feed
- Hydraulic press to 65 tonnes / total press capacity 100 tonnes
- CNC rotational punch press
- CNC fine grinding
- Low cost tooling (LCT)

Ford Component Manufacturing Ltd capabilities are complemented by our engineering and supply chain functions.

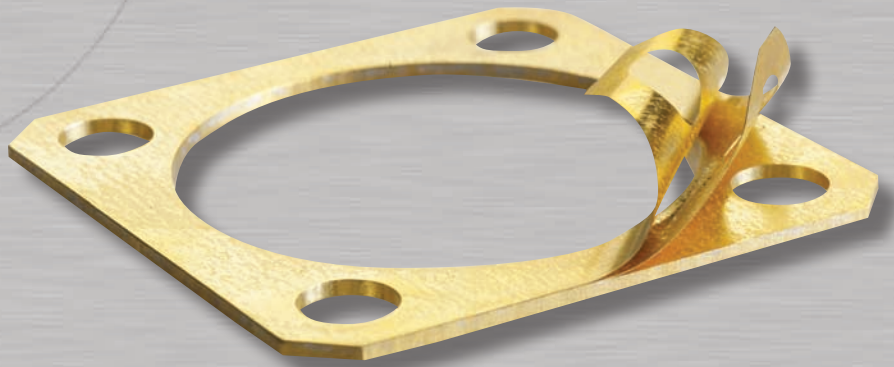
OUR TYPICAL PRODUCTS INCLUDE:

- Cooling fins
- Brackets
- Core Plugs
- Seal Inserts
- Washers
- Packers
- Gaskets
- Shims
- Fuse Caps
- Retaining Strips
- Cylinder Head Covers
- End Covers

These products are delivered in a variety of forms including kitting, and kanban to a prestigious blue chip customer base in the UK and overseas.

LAMINATE SHIM

Ford Components is one of a small number of companies manufacturing laminate shimstock, the Ford brand is called Easipeel. Easipeel is made up from a number of laminate foils of a chosen thickness bonded together using a resin based adhesive under pressure and heated to form a near solid material.



Standard sheet sizes can be supplied or material can be converted to components in conjunction with customer drawings and specifications.

The materials available are carbon steel, cadmium-plated steel, stainless steel, aluminium and brass, standard sheets can normally be provided straight from stock.

Easipeel is also available as a hybrid sheet that comprises of a solid material with layered foils of a chosen thickness from 0.025mm to 0.1mm. Standard sheet sizes are 1220mm by 610mm.

PRODUCT SPECIFICATIONS

Material	Thickness 0.050mm (0.002") Foil code	Thickness 0.075mm (0.003") Foil code	Thickness 0.1mm (0.004") Foil code	Size (mm)
Steel	ST2	ST3	ST4	1220 x 610
Stainless Steel	SS2	SS3	SS4	1220 x 610
Aluminium	AM2	AM3	AM4	1220 x 610
Brass	BR2	BR3	BR4	1220 x 610

Material	Thickness 0.025mm (0.001") Foil code	Max Sheet Size (mm)
Steel	ST1	1220 x 304
Stainless Steel	SS1	1220 x 304
Brass	BR1	1220 x 152



WHY USE EASIPEEL LAMINATE SHIMS?

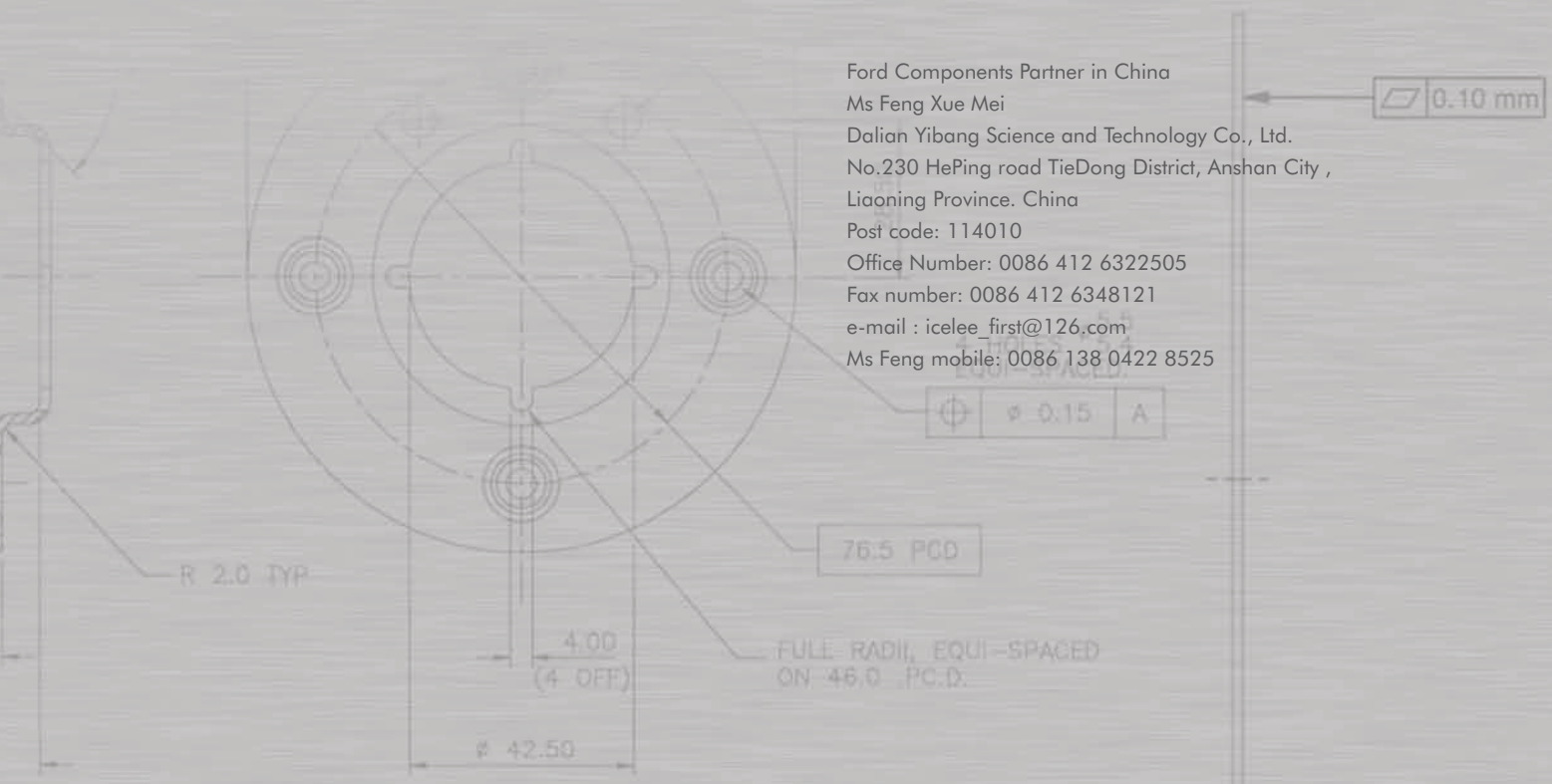
- Quick production line adjustment and field repairs
- Reduces assembly times
- No production stoppages
- Dimensional accuracy
- Eliminates grinding and hence the associated costs
- Eliminates need of solid shims inventory
- Compensates for wear and tear (play)





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LOCATION

