



COBA
plastics group



Design | Develop | Deliver



**Design, Tooling & Precision
Engineering Solutions**





A B O U T C O B A P L A S T I C S G R O U P

Trading for over fifty five years, COBA Plastics Group now employs over 650 people across seven locations in five countries.

Our precision engineering division has many long-established relationships within the engineering community. We design and develop prototypes and provide short run and batch solutions for some of the UK and Europe's most prestigious manufacturers, across many key markets and sectors.

Large scale investment in cutting edge software and machinery, as well as highly skilled in-house design and engineering teams underpin our place in the market. We operate from an impressive, purpose-built Engineering centre at COBA's Headquarters in the East Midlands.

£3M

Group investment.

650+

People across 8 locations



C O B A P L A S T I C S G R O U P L O C A T I O N S

- Fleckney**
Extrusion, Injection Moulding,
Precision Engineering
Leicestershire, UK
- Thurmaston**
Hose & Tube Extrusion
Leicestershire, UK
- Ansbach Office**
Germany
- Ploiesti**
Extrusion, Injection Moulding
Romania
- Terchova**
Extrusion, Injection Moulding
Slovakia
- Cape Town**
Extrusion, Injection Moulding
South Africa
- Tangier**
Distribution Hub
Morocco



30

Years of engineering
excellence.



100%

A commitment to 100%
on time, in full delivery.

E N G I N E E R I N G Y O U R I D E A S

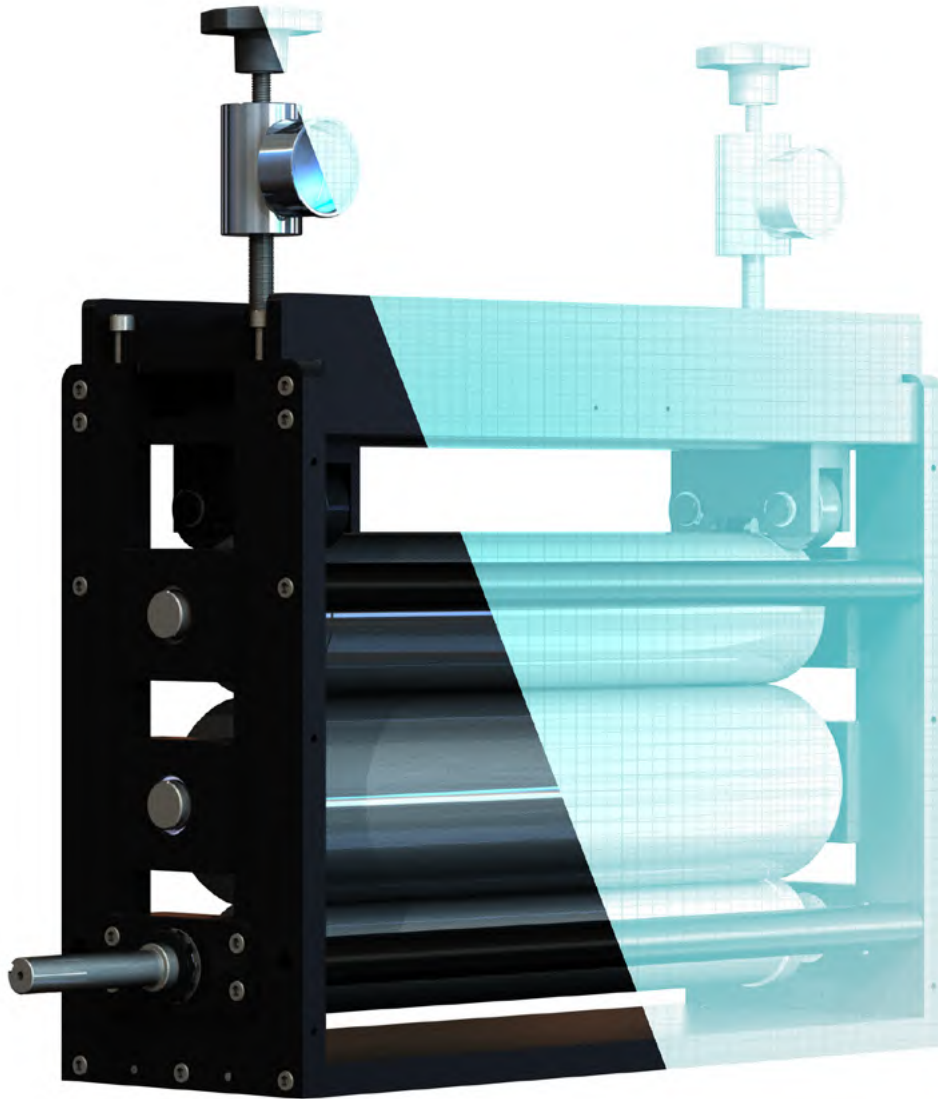
COBA Plastics Group brings your projects to life with ingenuity and attention to detail. We support you every step of the way, from the seed of an idea to ultimate production.

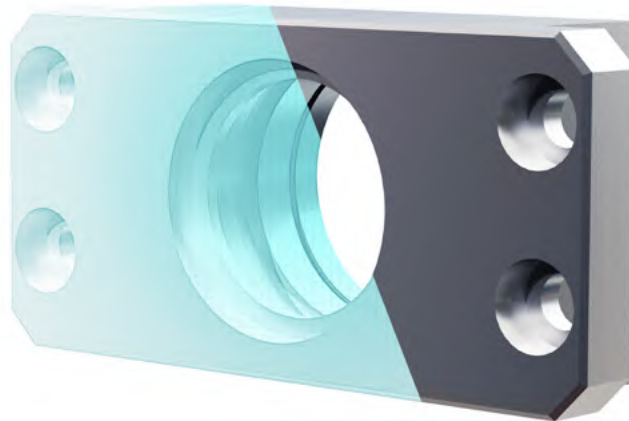
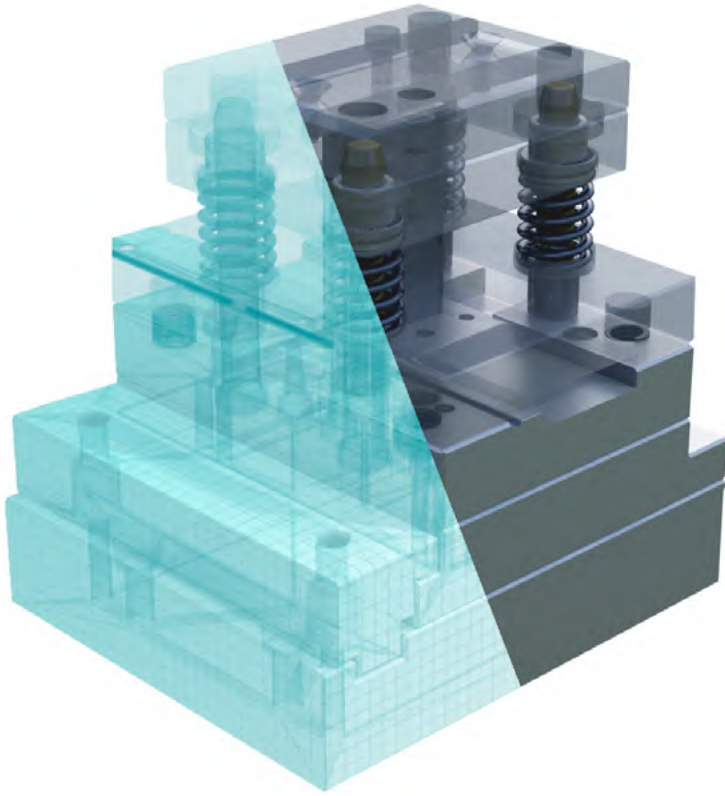
Supporting our customers in sectors such as Automotive, Medical, Aerospace and Agriculture, we have the skill, commitment and capacity to produce world class components and even whole machines. Make COBA your first choice for prototyping, design and engineering solutions.



F U L L S E R V I C E D E S I G N

From FEA through to Prototyping and Machining our experienced Engineers work with you to design exceptional components. Using cutting edge CAD software and an extensive set of machining equipment we will take your project from Concept to Creation. We own every step of the process, ensuring consistency and attention to detail across every project.





C A R E & P R E C I S I O N

From small one-off parts to full assemblies we treat each job with the same care and precision that has become synonymous with COBA. Our creativity knows no bounds, we specialise in ingenious solutions that save time and money.

3 D D E S I G N & D R A F T I N G

COBA offers a full 3D CAD service. If you have an idea, or even just a sketch, we can take those ideas and turn them into working drawings on screen. Once a part or assembly has been modelled we can calculate mass depending on different materials, and check fits between components to ensure your concept is fit for production.

We can also convert 2D CAD drawings or paper drawings to either 2D CAD files or full 3D models as required. Once the conversion has taken place, we can supply the digital files in a variety of formats.

D E S I G N O P T I M I S A T I O N

COBA can offer you invaluable advice on the machinability and cost implications of your parts or assemblies.

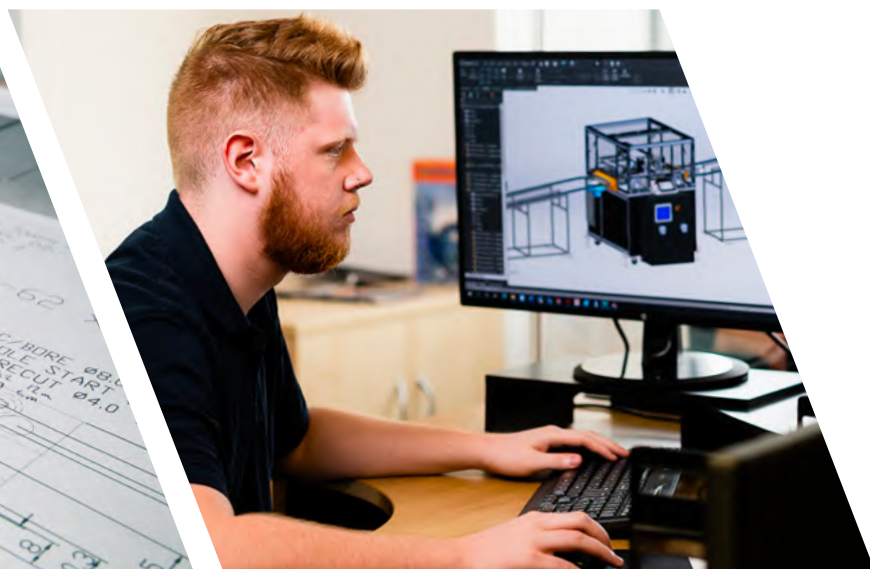
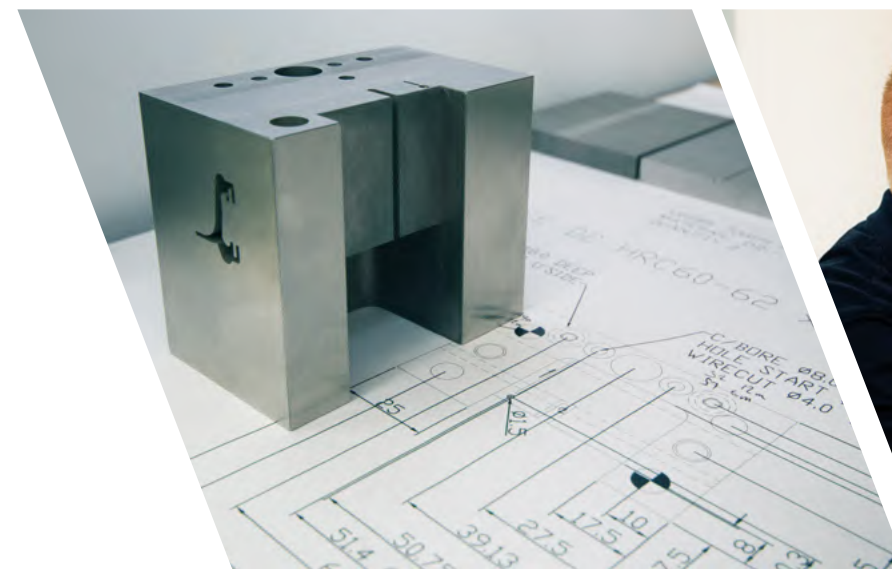
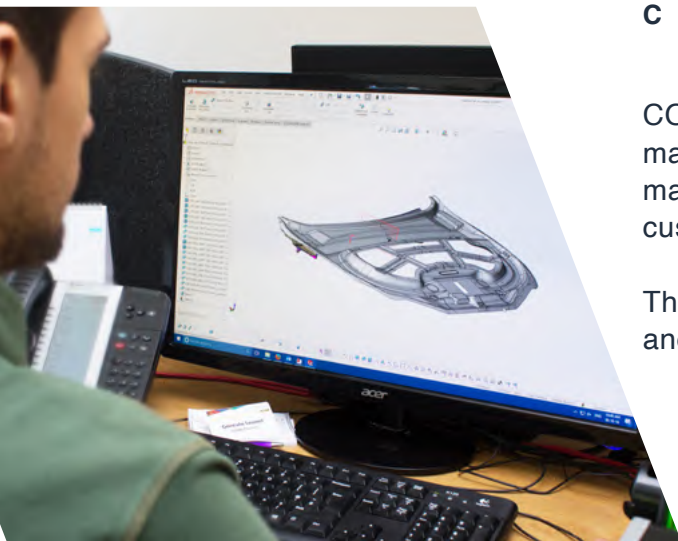
Often just changing a small design feature can drastically reduce the manufacturing costs of a part, and our expert designers are well versed in revealing these opportunities.



C O - O R D I N A T E M E A S U R I N G

COBA has heavily invested in Co-ordinate Measuring machinery configured with Inspect 3D software which has many measuring, analysis and reporting benefits for our customers, and our own internal inspection team.

The CMM gives us the ability to produce Inspection Reports and Calibration Data to support the design process.





3 D P R I N T I N G & P R O T O T Y P I N G

We are more than happy to work with you to manufacture one-off components and prototypes whilst your ideas evolve.

We are highly experienced in assisting companies turn their ideas in to physical prototypes, be they in plastic or machined metal. We have state of the art in-house 3D printing machines and operators to assist with this.

G A U G E S & F I X T U R E S

COBA has gained a great deal of experience in the manufacture of gauges and fixtures for a wide range of specialist applications.

We have good knowledge of the inspection products from companies like Mitutoyo and can build their standard products into specialist gauges as required.

An important part of manufacturing a product and measuring it correctly comes down to holding it in the correct position and holding it well.

COBA can design and manufacture fixtures for both machining and inspection of hard to hold objects.

S P A R E S & R E P A I R S

COBA has the in-house capacity to measure, draw and manufacture a component even if the component is damaged.

If you cannot afford to wait for a spare, then contact us for a quote on a remake or repair of your damaged component.



C N C M A C H I N I N G

Large scale capability with the latest 3 and 4 Axis CNC machining services.

We use latest CAM and CAD software to choose the most appropriate machining strategy, generating the surface finish and tolerance you require with unparalleled efficiency.



C N C T U R N I N G

Full CNC turning service up to 250mm diameter. Small batches and less complicated parts can be programmed directly on the machine to ensure a quick turnaround.

More complex parts can be programmed offline with the latest CAD/CAM Software.

C O N V E N T I O N A L M A C H I N I N G

For when CNC is not cost effective our conventional machines can be used to repair or refurbish existing parts. We also utilise a range of conventional machines to manufacture fixtures and gauges in-house. Services include:

- Sawing
- Drilling
- Turning (with Digital Readout)
- Milling (with Digital Readout)
- Surface Grinding
- Cylindrical Grinding
- Welding



FINISHING

COBA work with you to ensure your components are finished to exacting requirements. We're capable of finishing and polishing components in-house using a range of equipment. We work with a network of trusted partners to provide some more specialist finishes:

In-house services include:

- **Chemical Blacking**
- **EDM**
Wire Erosion – Die Sinking – Small Hole Drilling
- **Grinding**
Surface Grinding

Sub-contracted services include:

- **Heat Treatment**
Through Hardening – Case Hardening
– Nitride Hardening – Stabilising
- **Surface Treatments**
Anodising – Zinc Plating – Chrome Plating
– Achrom – Nickel Plating
- **Grinding**
Cylindrical Grinding (up to 2m in length)
– Internal Grinding – Centreless Grinding
– CNC Grinding – Thread Grinding
– Honing



A S S E M B L Y

Our experienced engineering team can fully assemble complete tool sets and machinery for immediate use and can assist with the fitting of tools into existing frameworks if required.



D E L I V E R Y

We work with our clients to meet the delivery solutions they require, including KANBAN and JIT.

Our central location allows us to deliver products and services to many areas within a wide radius. We use our own transport as well as trusted carriers throughout the UK and Europe.

M A T E R I A L S

We can work with a number of materials including:

Aluminium, Stainless Steel, Steel, Tool Steels, Phosphor Bronze, Brass, Cast Iron, Oilon, Engineering Polymers, Delrin (acetal resin).





M A C H I N E C A P A B I L I T I E S

No.	Milling	Specification
1	Haas VF4SS (4 th axis)	XYZ Travel 1250 x 500 x 635 / 12k RPM / 30hp
1	Haas VF3YT	XYZ Travel 1016 x 660 x 635 / 8.1k RPM / 30hp
2	Haas VF2 (1 c/w 4 th axis)	XYZ Travel 762 x 406 x 508 / 8.1k RPM / 30hp
1	Haas Modular Mini-Mill	XYZ Travel 406 x 305 x 254 / 10k RPM / 15hp
1	XYZ SMX 2000	XYZ Travel 762 x 380 x 400 / 3hp
1	XYZ SMX 2500	XYZ Travel 780 x 390 x 560 / 3hp
3	XYZ SMX 3500	XYZ Travel 770 x 500 x 500 / 5hp
1	XYZ SMX 5000	XYZ Travel 1524 x 596 x 584 / 7.5hp

No.	Turning	Specification
1	Haas ST30	Between Centres. 762 / Swing 527 / 30hp
1	Harrison Alpha 1400 XS	Between Centres. 1250 / Swing 400 / 10hp
1	Triumph 2500	Between Centres. 1200 / Swing 400 / 10hp
1	XYZ 1550 VS	Between Centres. 1250 / Swing 400 / 7.5hp
1	Herbert No.2d Capstan	-

No.	Grinding	Specification
1	Andmar A2512 YSG-1224TS	Surface Grinder
1	Jones & Shipman 540	Surface Grinder
1	Jones & Shipman 310	Tool & Cutter Grinder
1	Jones & Shipman 1302	Cylindrical Grinder

No.	EDM	Specification
2	Agie Charmiles CUT 200SP	XYZ Travel 350 x 220 x 220
1	Agie Charmiles FI440 CCS	XYZ Travel 550 x 350 x 400
1	Agie Charmilles EDM DRILL20	-
1	Eurospark EZE 2030 ZNC	-
1	Charmilles Robofil 240	-
1	Shiang Yang YY-CNC2535	-

No.	Miscellaneous	No.	Measuring	No.	3D Printing
2	Meddings Strands Pillar Drill	1	CMM – QCT Quantum 4XL	1	Ultimaker 2+
1	Telesis Benchmark 320	-	Internal & External micrometers.	1	Raise3D N2 Plus
1	Thomas SAR 320 Bandsaw	-	Height Gauges		
1	Guyson Euroblast 6SF Blast Cabinet	-	Various Gauges, Plug, Screw, Ring etc.		

Contact us today for
information, advice and
support.



Get in touch

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