



where tradition
meets technology

MJALLEN
Group Of Companies



The MJ Allen Group is a family owned business, established in 1958, based in the South East of England with sales of around £30m a year. Group Companies include expertise in engineering patterns, aluminium castings, iron castings, bronze castings, fabrications and machining (MJ Allen), punch tooling and dies and sub contract machining (Rydal), metrology (Verdict), sheet metal working machinery (Airworks, RMT, Gabro), architectural, restoration, conservation and structural metalworking (Mather and Smith), after-market automotive clutch and brake (National Autoparts) and automotive transmission systems design (Countytrac).



Pattern Making

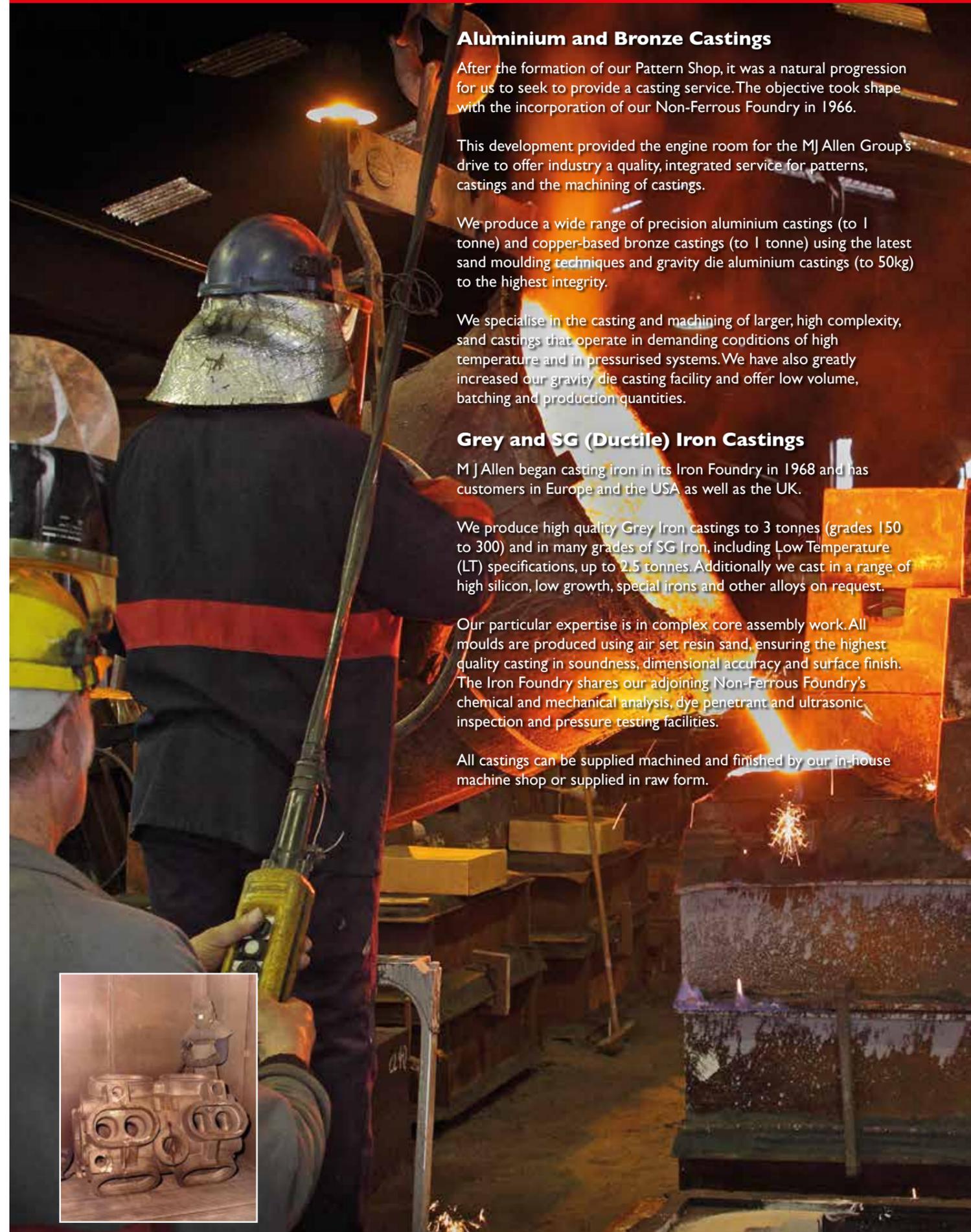
Our Group's origins can be traced back to 1958, when our master Pattern Shop began trading and it is that skill and expertise that provided the foundation for the Group's subcontract manufacturing facilities.

High quality patterns are essential for the efficient and reliable production of castings and with our considerable experience, size and complexity of design, offer few problems.

We continually craft patterns for the Aerospace, Defence, Automotive and General Engineering sectors, provide model making for development work and also cater for the decorative market. Our knowledge encompasses foundry tooling across the range of production techniques, with particular experience in sand casting and gravity die.

We encourage our customers to consult with us at the drawing board stage so that we might help them engineer problems away before production commences. Our commitment to quality and service is backed up with attainment of BS EN ISO 9001 approval.





Aluminium and Bronze Castings

After the formation of our Pattern Shop, it was a natural progression for us to seek to provide a casting service. The objective took shape with the incorporation of our Non-Ferrous Foundry in 1966.

This development provided the engine room for the MJ Allen Group's drive to offer industry a quality, integrated service for patterns, castings and the machining of castings.

We produce a wide range of precision aluminium castings (to 1 tonne) and copper-based bronze castings (to 1 tonne) using the latest sand moulding techniques and gravity die aluminium castings (to 50kg) to the highest integrity.

We specialise in the casting and machining of larger, high complexity, sand castings that operate in demanding conditions of high temperature and in pressurised systems. We have also greatly increased our gravity die casting facility and offer low volume, batching and production quantities.

Grey and SG (Ductile) Iron Castings

M J Allen began casting iron in its Iron Foundry in 1968 and has customers in Europe and the USA as well as the UK.

We produce high quality Grey Iron castings to 3 tonnes (grades 150 to 300) and in many grades of SG Iron, including Low Temperature (LT) specifications, up to 2.5 tonnes. Additionally we cast in a range of high silicon, low growth, special irons and other alloys on request.

Our particular expertise is in complex core assembly work. All moulds are produced using air set resin sand, ensuring the highest quality casting in soundness, dimensional accuracy and surface finish. The Iron Foundry shares our adjoining Non-Ferrous Foundry's chemical and mechanical analysis, dye penetrant and ultrasonic inspection and pressure testing facilities.

All castings can be supplied machined and finished by our in-house machine shop or supplied in raw form.



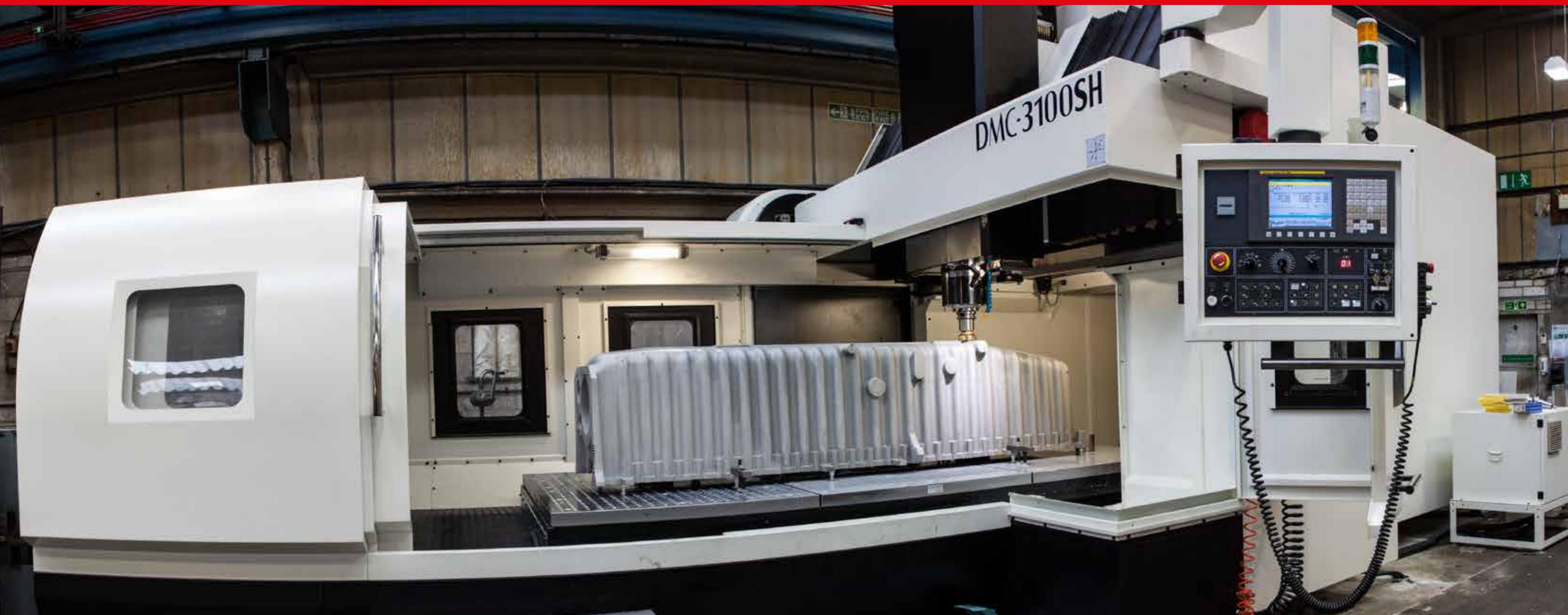


Our on site facilities include Non Destructive Testing (NDT) and inspection, including X-Ray, UV Crack Detection, Die Penetrant Crack Detection, Spectrographic Analysis, Ultrasonic Testing, Endoscopic Inspection, Tensile Testing and Pressure Testing, as well as temperature controlled environment CMM facilities in our Machine shop.

Choosing the whole Group package from patterns to finished machined components delivers considerable benefits to our customers but each service is available on a stand-alone basis if desired.

Our fully flexible service comes with identical quality and commitment whether it is for a one off item or production batch, all within our BS EN ISO 9001:2008 approval. We are also accredited to 14001 and 18001 standards.





Fabrications

We also have the facility to undertake bespoke and production line fabrications, made to order.

Our fabrication (weldments) team is skilled in profiling, bending, cutting and rolling with coded MIG, TIG and ARC welders in a range of materials.

Using our group's CNC facilities we manufacture finished fabrications to very tight tolerances and can paint and assemble on site.

We are CE approved for structural steelwork and accredited to 14001 and 18001 standards.





CNC Machining & Manual Precision Machining

"A machine shop that makes its own castings and fabrications"

Operating foundries and a welding facility adjacent to our machine shop in Ashford, Kent, realises MJ Allen's drive to provide a quality, integrated service for casting, machining, fabricating, painting, assembling and machine building.

MJ Allen supplies fully machined castings and fabrications to defence, medical, marine, OE and automotive (Ford) industries in the UK, Europe and North America and is certified to ISO 9001, 14001 and 18001.

The ability to supply components from drawing to fully machined castings carries many benefits in both cost and time and yields other efficiencies.

We reduce our customers' administration and transportation. Problem solving is quicker and easier as casting and machining are carried out at the same site. As we are responsible for manufacturing the whole package our customer does not get caught in "pass the buck" wrangles between subcontractors.

These advantages have benefited many customers who place one order and progress through a single contact for complete components of almost any size and quantity.

Our growing customer list sustains our belief in the future and this confidence has maintained our ongoing investment in the most up to date CNC and manually operated plant and machinery, backed up by a highly sophisticated inspection facility.

Recent CNC additions include a Doosan twin pallet, horizontal machining centre and Johnford bridge mill, covering machining in X-axis of 3.1m, Y-axis 1.8m and Z-axis 1.6m.

Our CNC section is supplemented by a comprehensive conventional section comprising Horizontal Boring, Planing, Universal Milling, Turning and Drilling capabilities. This gives us the added flexibility for prototype, small batch and fixture works.

The whole workshop is enhanced by our excellent quality control department. Dimensional accuracy is assured with our three CMMs enabling a measuring range up to 2000mm in X axis, 1000mm in Y axis and 800mm in Z axis with Renishaw probes and controls. We have recently added a 3m (10 feet) FARO arm for mobile CMM capability and boast electronic height gauge and inspection grade granite table in temperature controlled environment.

The foundries provide extensive in-house facilities for casting heat treatment, chemical and mechanical analysis, x-ray, dye penetrant and ultrasonic inspection.

These, coupled with our full range of conventional inspection equipment, ensure the comprehensive quality control of our casting, fabricating and machining capability.

We have on site pressure testing facilities, a paint shop and sub assembly area and frequently arrange alochroming, anodising and other final processing.

Coupled with machine building facilities, all at the Ashford site, sourcing of machined and finished castings and fabrications, of almost any size and volume, is achieved with a single order.



ADS

Painting, assemblies, machine building

The MJ Allen Group also provide in-house painting, assembly and machine building facilities, completing a true "one-stop-shop" service to customers.



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