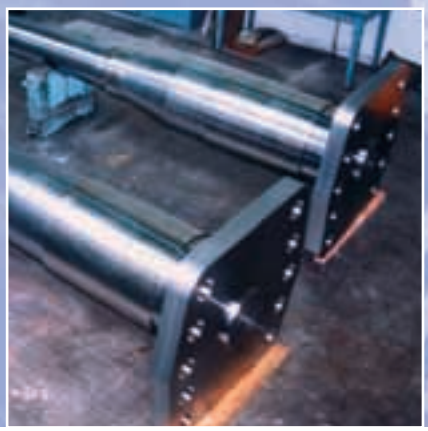

SOMERS
SOMERS
FORGE LTD





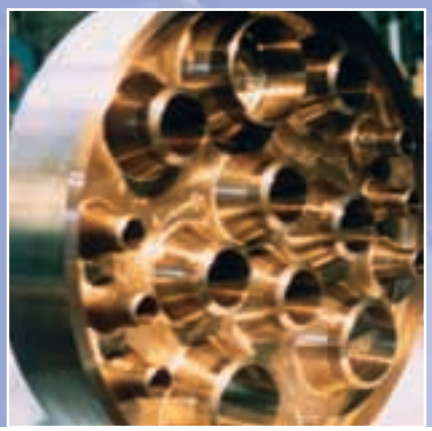


Somers Forge Ltd is one of the leading open die forgemasters in Europe, able to offer an unprecedented range of products. Working in a variety of materials ranging from Carbon steel through to the super alloys and specialised non-ferrous alloys. Somers Forge satisfies a wide range of requirements for world industry using its comprehensive in-house facilities.

With over 130 years experience in heavy engineering, Somers Forge has established an enviable international reputation for successfully combining the very latest technology with traditional quality skills. Somers Forge highly qualified personnel pay close attention to customer service and technical support, to ensure only the highest standards of customer satisfaction and strictest quality standards are met.

Conveniently located in the heart of the West Midlands, just outside Birmingham, Somers Forge is easily accessible to its customers by Road, Rail or Air.

Progressive and forward looking, Somers Forge is fully committed to further development, so ensuring it continues to meet the needs of an ever changing market.







HOT WORK DIE STEELS & GENERAL STEELS

Somers Forge specialises in the manufacture of highest quality die, mould and tool steels, supplied black or machined.

The Steelstock Division, both in the UK and USA, supplies a wide range of ex-stock die steel including No. 5 ELECTEM, VMC (AISI H13) and the popular plastic moulding steels SUPAMOLD (P20) and SOMPLAS 30 (En 30B). In addition, made-to-measure die blocks are forged in the Modern Die Plant.

Die Steel is manufactured by the 'Solidising' process developed by Somers Forge to control grain flow and improve mechanical properties.

Our UK stockholder based in Halesowen also carries a full range of general engineering bars, billets and blooms.











FORGING

Somers Forge is highly mechanised and uses the very latest forging techniques. Our range of forging equipment allows us to offer forgings from 2kg to 45tonnes.

The new fully computerised forging suite commissioned in 2000 forms the centrepiece of the forging activity of Somers Forge. The suite consists of a 4000 tonne draw-down hydraulic press with integrated manipulators and is able to forge ingots up to 70 tonnes.

The forging suite is complemented by a range of smaller presses and pneumatic hammers for the production of individual rings, blocks and smaller shaft forgings. All forgings are produced from vacuum degassed fine grain and fully killed steels.

Other equipment includes:-

- *1200 tonne four column hydraulic press with computerised depth control and two manipulators*
- *500 tonne four column hydraulic press with computerised depth control and manipulator*
- *35cwt clear space hammer with manipulator*
- *20cwt clear space hammer*
- *10cwt clear space hammer*









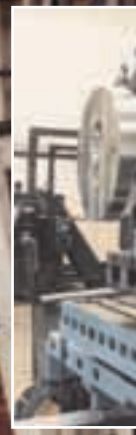
HEAT TREATMENT

Somers Forge employs the latest heat treatment techniques using 24 automatically controlled furnaces. All furnaces are surveyed to meet national and international specifications including a number which have been calibrated to API 6A and Aerospace Standards. The heat treatment facility accommodates lengths up to 20 metres providing normalising, annealing, oil hardening, water quenching, tempering and stress relieving treatments.









MACHINING

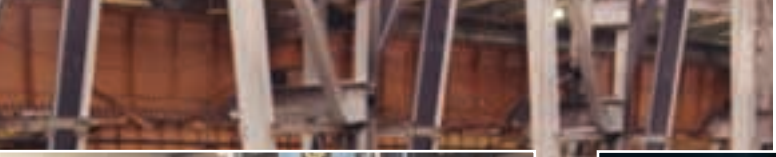
Somers Forge modern machine shop allows forgings to be offered rough machined or fully finished in accordance with customer's requirements. The machine shop is equipped with vertical boring, horizontal boring, honing, milling, turning and drilling machines.

In addition Somers Forge carries out a variety of specialised operations including bearing and bolt fitting, shrink fitting, re-fitting and weld repair work to meet specific customer requirements. Special finishing machines include:





- *3 finishing lathes: 23 metres length (75 ft) by 1250mm diameter (49 ins)*
- *1 high speed deep hole boring and turning lathe: 19 metres length (62 ft) by 65mm - 625mm diameter bore (2.5 - 24.5 ins)*
- *1 honing machine: 15 metre length (49 ft) bore range 75mm - 1,420 metres (3 - 56 ins)*
- *2 milling machines: bed length 27 metres (88 ft) with 2 columns, 155 mm and 200 mm spindles (6 and 7.75 ins)*
- *1 vertical boring mill: table diameter 3 metres (9 ft)*
- *2 - 4 metre CNC lathes*
- *together with a full complement of centre lathes, borers and millers*











Quality Control

Somers Forge ensures stringent quality control and assurance standards are imposed at all stages of the manufacturing process.

Full destructive and non-destructive testing facilities are available with NDT operators approved to ASNT level 2 and PCN level 2. The company's quality approvals include BSEN ISO 9002, Lloyds Register of Shipping, DNV, CCS, CAA and Ministry of Defence.

Quality is foremost to all at Somers Forge thus maintaining its international reputation for the highest engineering standards.

THE QUALITY SYSTEM

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