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INFO SHEET

FORGING

02

The strengths and benefits of forging at capricorn APPLIED TECHNOLOGY LTD

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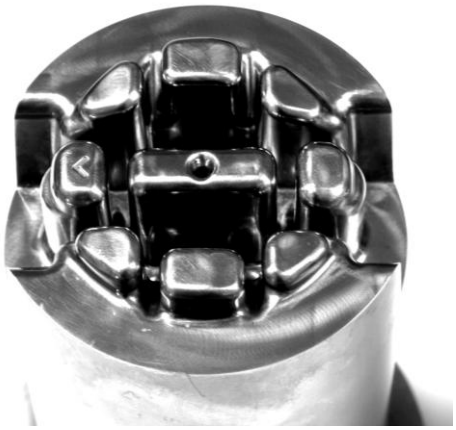
Why use a forging…

Forgings offer improved material sectional mechanical properties over machined from solid or cast parts. Transverse properties are increased over bar stock due to increased working in the directions from multiple forging operations.



This makes a forged part stronger than their equivalent machined from solid or cast part. A forged component also greatly reduces the possibility of metallurgical defects such as porosity as found in some castings.

Moving from a machined from solid part to a forging generates savings in raw material usage. Also using a near-net shaped forging also greatly reduces the machining time allowing the customer significant cost savings.

Class leading design and testing support…

Full internal CAD support using Pro-E and Solidworks, forging simulation modelling plus tool design and final product structural analysis is available to ensure your project meets quality as well as cost requirements.

A forging size capacity up to 150.0mm with 600 tons of force with full data-logging, heat treatment to 600c maintained in accordance with the procedures specified in BS 2M 54: 1991 and with a full range of polymer quenching facilities. This allows a typical forged part accuracy of +/- 0.1mm with a minimum draft of 0.5 degrees.

A comprehensive and fast service…

With in-house forging manufacture, heat treatment, specialist machining, surface coating and finishing facilities we can help customers to cut costs and provide reduced logistical time-scales by offering compressed lead-times.

A full turn-key solution for low / high volume forged components all carried out to AS9100 standards.

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