

5-axis machining of patterns, tooling and composites.

Master patterns, mould tools, Rohacell and foam cores, tooling board and carbon fibre for motorsport, aerospace, defence, marine and automotive customers. Machined and inspected in-house in Witney since 2014.

3.6 m

MAX ENVELOPE

3.6 x 2.6 x 0.8 m

0.2 mm

MACHINING TOLERANCE

Patterns and tools

0.025 mm

INSPECTION ACCURACY

Creaform, calibrated

Same day

QUOTES

Straightforward parts

MACHINES

3 x CMS Ares 3626 5-axis, up to 3.6 x 2.6 x 0.8 m

2 x CMS Antares 2615 5-axis, high-speed machining of composites and carbon fibre

Dugard Eagle 1000 converted to run carbon fibre

Around 108 machining hours a day, with dry extraction for carbon and composites

INSPECTION

Creaform MetraSCAN BLACK|Elite optical CMM with **HandyPROBE Next**, independently calibrated to 0.025 mm

PolyWorks colour deviation maps and dimensional reports against your CAD

FARO arm kept in service as a calibrated back-up

ENGINEERING

CATIA design, modelling and programming

VERICUT toolpath simulation before anything is cut

Fixtures designed and made in-house, plus in-house FDM 3D printing

WHAT WE MAKE

Master patterns and mould tools

Rohacell and structural foam cores, including EPP

Epoxy and PU tooling board parts

Trimming and machining of cured carbon fibre components and inserts

Vacuum fixtures, jigs and check fixtures

Laser inspection and reverse engineering, including parts we didn't machine

QUALITY

ISO 9001 certified

Machines maintained on a schedule, calibration certificates kept current

GETTING A QUOTE

Send a STEP file (.stp or .step, or a zip of several) with material, quantity and any tolerances.

We quote from STEP files. We can't quote from IGES.

Straightforward parts are usually quoted the same day.

Send us a STEP file: quote@shape-machining.co.uk

Or upload it at shape-group.com/get-a-quote | +44 1993 226900 | info@shape-machining.co.uk

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