

CLIENTS [TYP]

Albany International	UK
Anchor Dairies	UK
APSwiss tech	Switzerland
Avon Technical Products	UK
Basilon Dairies	UK
Becker	Germany
BFS	UK
Boston Matthews	UK
Cookson	UK
Crown Cork & Seal	UK
Davis-Standard	UK
Davis-Standard USA	USA
Depicton	UK
Draftex-Extruprecis	France
Dupont	UK
Dyneon GmbH	Germany
Eagle Picher	UK
Errechinque	Italy
Gabo-Technik	Germany
Gerodur	Germany
Gillette	UK
Graham Packaging	Canada
Graham Packaging	France
Hako-Gerodur / George Fisher	Switzerland
Hepworth Plumbing	UK
Higar Engineering	UK
Imperial Pipe	Canada
Interplast	Greece
Ipex	Canada
John Guest Ltd	UK
Marley Extrusions	UK
Marshall Tuflex	UK
Mckechnie Plastics Comp	UK
Mckechnie Vehicle Company	UK
Medisense	UK
MVC Technology Project Management UK	UK
Optimum	UK
Orbit Precision	UK
Pankl UK Ltd	UK
Parker Hannefin	UK
Polypipe	UK
Protex	UK
Quality Plastics Eire	Ireland
Radius N	Ireland
Raytech	UK
RJM Motorsport	UK
Saint Gobain	Belgium
Shell	Belgium
Shell R&D	USA
TimbaPlus	UK
TWR Racing	UK
VSZM	Hungary
W Lucy & Co	UK
Wavin	Holland
Wavin	UK
Whitbread RND	UK
Williams F1 Engineering	UK
World Plastics	Jordan

Facility Specifications

CAD / CAM: Solidworks (2 seats)
PowerShape (1 seat)
PowerMill (1 seat)
VeriCut (1 seat)

TURNING: CNC & conventional
DMG NEF 'teach-in' lathes with Heidenhain controllers
CNC slant bed lathes with C-axis & driven tooling
Max. cap. = Ø500 x 250 / Ø295 x 1000

MILLING: CNC & conventional
Twin screen Hurco Ultimax
High speed contouring
Closed loop tooling [all m/c]
Part probing [all m/c]
Max. cap. = 1270 x 660 x 610

WIRE EDM: Charmilles Robofil 330F
Max. wk pc. = 900 x 600 x 400
Max. m/c vol. = 400 x 300 x 400 [XY]
Max. m/c vol. = 500 x 400 x 400 [UV]
Accuracy: 0.5 microns

GRINDING Max. cap. = Ø300 x 750 cylindrical
400 x 300 x 150 prismatic

POLISHING: In house 'clean' facility

QUALITY: ISO 9000:2000 accreditation
Calibration traceable to National Standards,
complies with Aerospace Standards

Facility Location



Certificate number 3981



RIDGEWAY:

sub-contract
precision engineering



Ridgeway Precision Engineering

A Division of Ridgeway CoExtrusion Technology Limited

Unit 22, W&G Estate, Challow, Wantage, Oxfordshire OX12 9TF UK

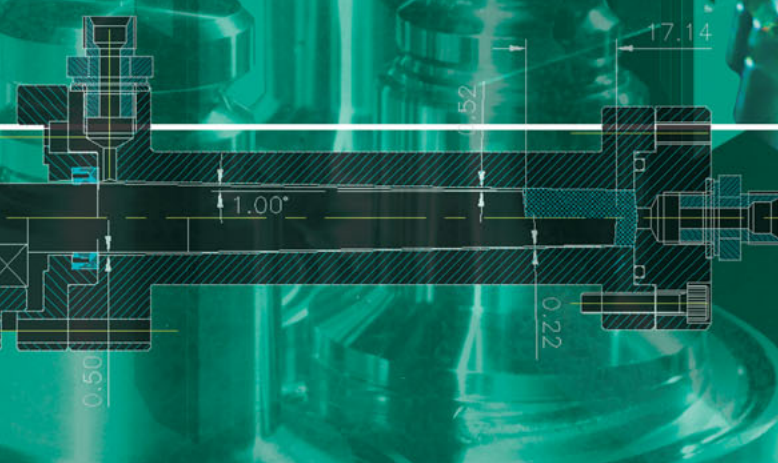
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Complex task or simple job –
with innovation born of
technical knowledge
and engineering pragmatism
honed through experience,
Ridgeway will always
meet your needs precisely ...



Ridgeway Precision Engineering

Founded: 1990

Key personnel: Frank Harris BA, Managing Director
Geoff Wiltshire ONC HNC, IT CAD/CAM Manager

Industries supported: Automotive
Construction
Cosmetics
Packaging
Plastics
Pharmaceutical
Medical
Motorsport

Processes (typ): Consultancy / Design / Prototype / Test
Small batch / Long run production

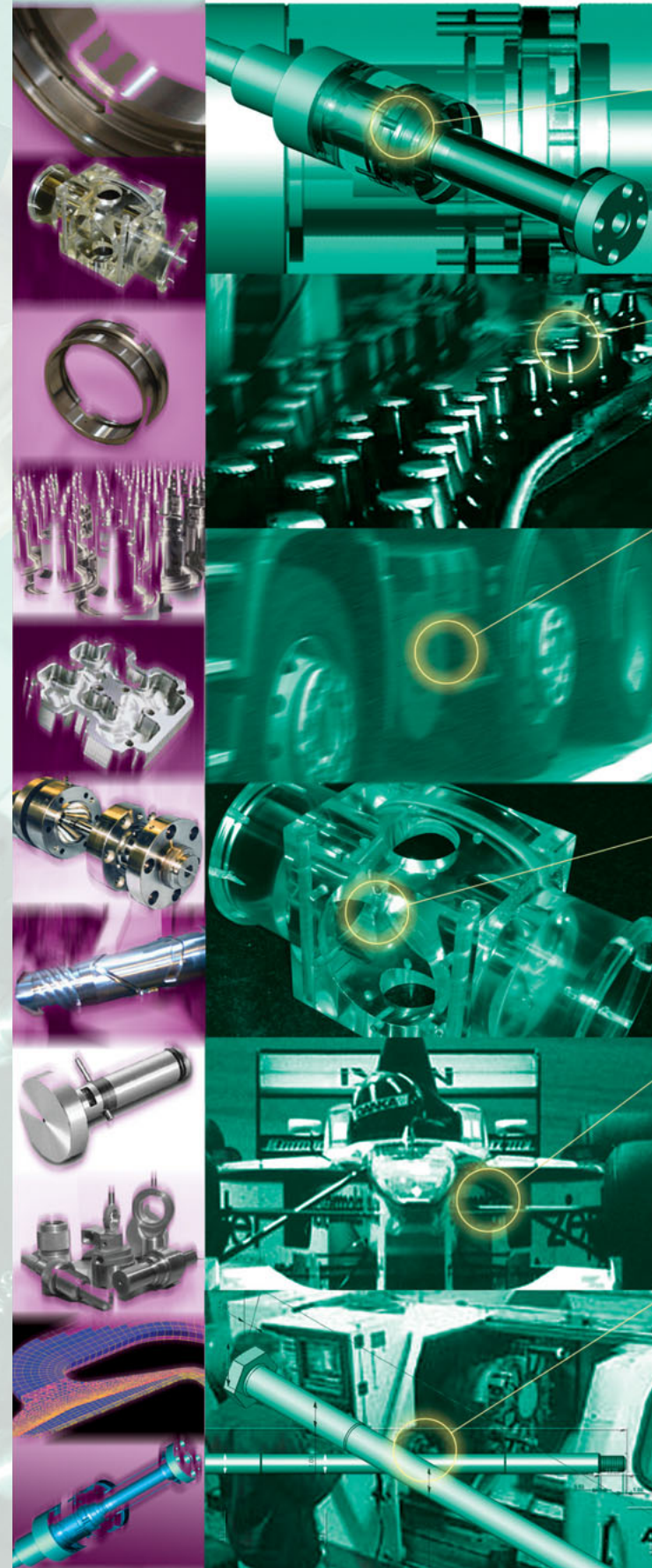
Operating objectives: Meet deadlines & budgets
Maintain high quality
Give added value
Maximise service through
flexibility and responsiveness
Provide innovative solutions
Full technical and after-sales support
Exceed customer expectations

Specialisms: Design & manufacture of patented
extrusion tooling
Tool path generation

Materials capabilities: Stainless Steel
Maraging steel
Titanium
Tool steels
Non-ferrous alloys
Super alloys
Ceramics
Carbide
PCD
Engineering plastics

Cutting technologies: HSC / HSM / HEM
EDM
Hard turning >60HRc

Additional facilities: Solidworks 3D modelling & drafting
'PowerShape' 3D freeform surface modelling
Finite element analysis [mechanical & fluid]



Dow Elanco - In-line homogenizer

Requirement for a small unit with a closely toleranced internal rotor running at high speed (c.25,000rpm) within a closely toleranced bore. The resultant controlled gap and high shear rates giving the homogeneity required. Ridgeway worked closely with Dow Elanco to refine their model and develop the equipment through to point of installation.

Whitbread R & D - Filling machine prototype

Assistance with design and manufacture of prototype filling equipment. The prototype was completed and initially tested at Ridgeway's premises prior to installation at the Customer's site. The successful testing of the prototype resulted in subsequent manufacture and installation of a multi-head production machine.

Lucas Automotive - Brake operating shafts

Secondary machining of heavy duty HGV braking shafts. Required 4th axis machining of helical ramp and ball track in alloy steel, key criteria being surface finish and, more critically, maintenance of height tolerance in the helical track - which affects braking performance. With through-put of several hundred components per week, tolerances were ensured by use of statistical process control. Machining of these parts also required Ridgeway to design and manufacture special adjustable arbours and fixtures to accommodate component variances resulting from prior heat treatment processes.

Cookson Group - Pumping Test Rig

Design and manufacture of metals pumping element test rig. The equipment was designed to carry out cyclic immersion of pump elements in molten aluminium - the object of the testing being to assess temperature and corrosion resistance of components. The testing sequence was PLC-controlled in order to permit a wide range of conditions to be applied.

TWR Racing - Bulkhead Needle Bearing Housings

Complete manufacture of needle bearing housings for motorsport gearboxes. The components were manufactured from special alloy steels that required toleranced machining prior to stress relieving. This was followed by secondary machining, case hardening and subsequent internal and external grinding to close tolerances and fine surface finish.

BFS - Retaining bolts

Economical and efficient manufacture of a long, slender part. Experience of traditional machining methods led to the use of both standard and modified roller boxes, enabling production to be carried out on a older machine for a fraction of the outlay required for a newer, more sophisticated machine tool. The efficiency provided by this adaptation enabled Ridgeway to produce the parts to a high standard of quality whilst also meeting *just-in-time* delivery targets demanded by high volume automotive manufacture.