

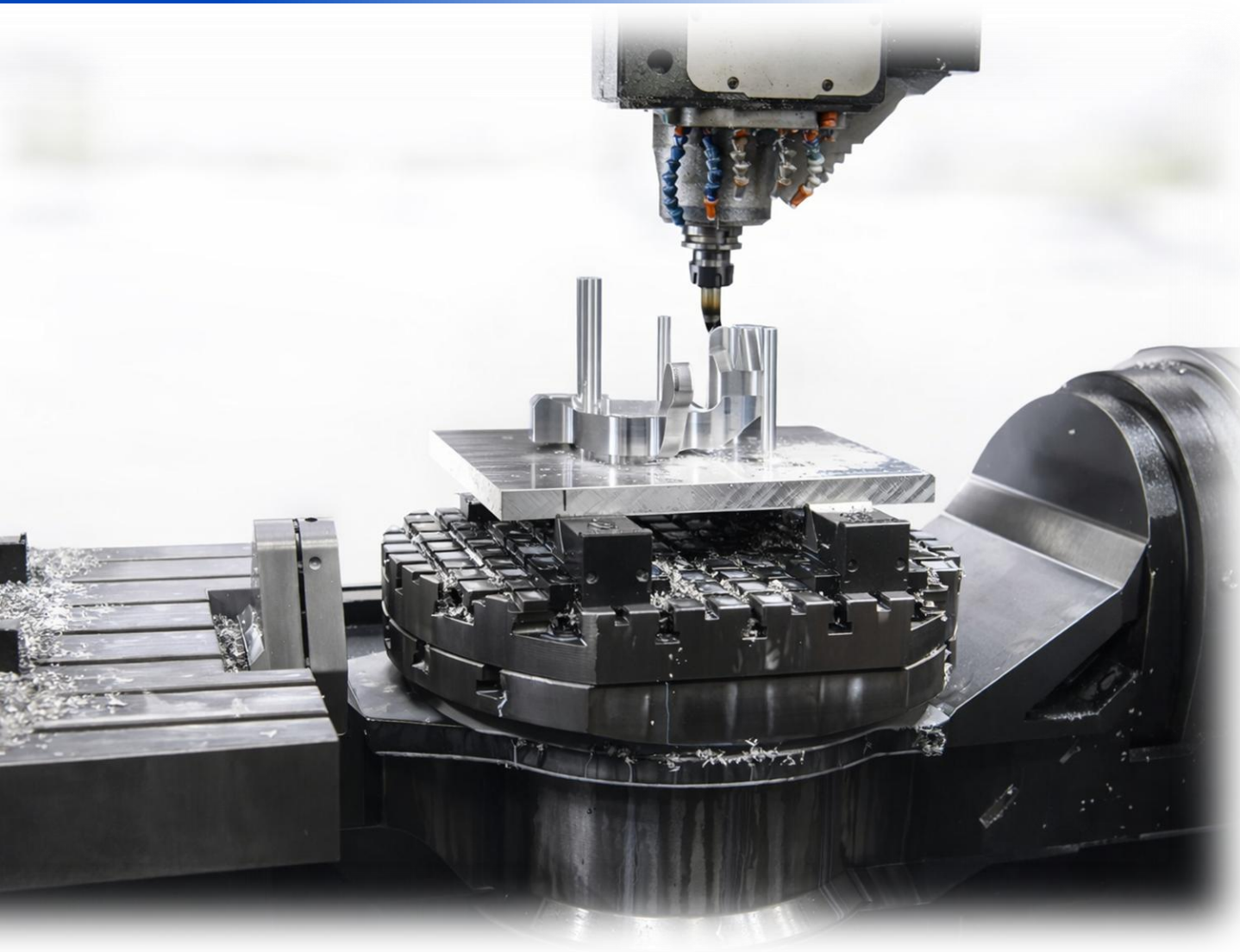


In-house Design, Manufacture and Assembly of Mould Tools, Jigs & Fixtures

*An introduction to our services
and capabilities*



Langstone Engineering are Experts* in ...



Carbon fibre moulds & formers

Mould tool design to meet customers' requirements

Plastic & TPE mould tool manufacture

Rubber mould tool manufacture

Surface modelling & drawing creation

Composite bonding & routing jigs

Drill jigs & location fixtures

Inspection jigs & fixtures

Pattern & model manufacture

*(*Experts – having special skill or knowledge representing mastery of a particular subject gained through learning, practice and continuous development)*

Industries we Serve



At Langstone Engineering we service a range of industries including:

General moulders

Automotive

Aerospace

Marine & Sub-Sea

Defence

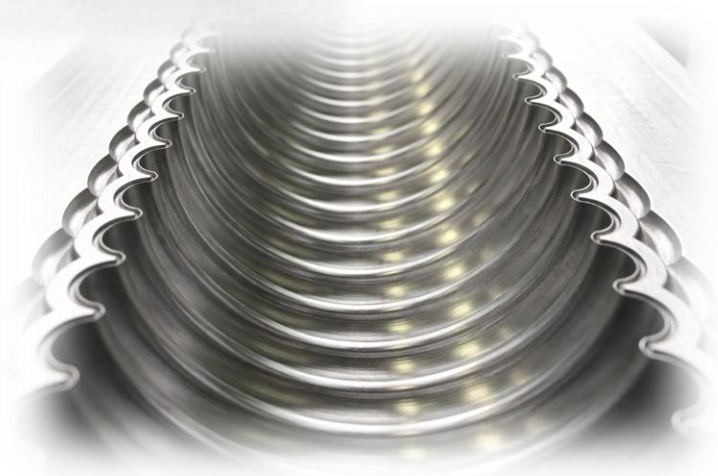
Machinery Manufacture

Electrical components

... amongst others



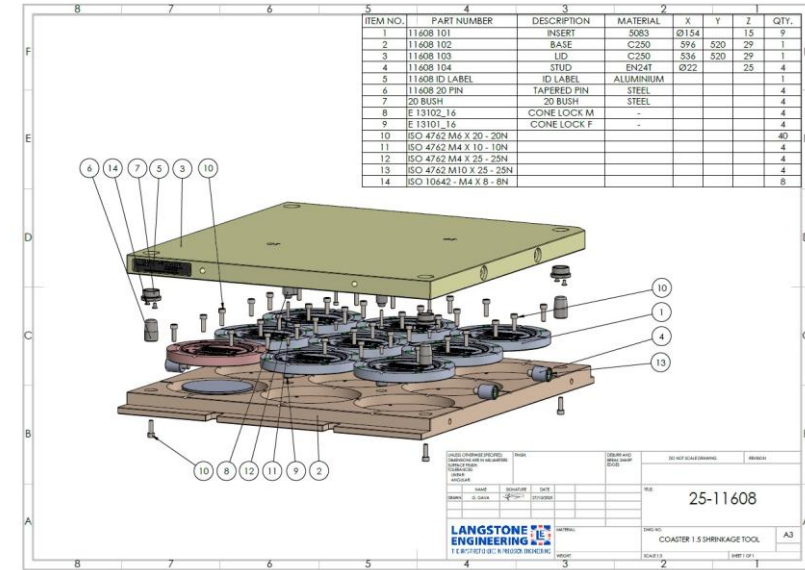
Services - Manufacturing



- CNC Milling
- CNC Turning
- Mould polishing
- Spark Erosion
- Wire Erosion*
- Grinding
- Engraving
- Metal Treatment*
- Hardening*
- Precision Laser Welding
- TIG Welding
- Packaging & Product Protection

**managed via subcontractors*

Services - Design



VISI Mould / Strategist software

SolidWorks 3D parametric design software

3D digital CNC Machining

3D Digital CNC Turning

5-axis CNC Machining

Quality Management System to BS EN ISO 9001:2015

Strict non-disclosure & confidentiality undertaking

Tools designed from part drawings &/or CAD models

Reverse engineering of parts & tools using scanners



Rubber Mould Tooling



Langstone have produced
>10,000 tools in over
25 years for a range of
industries

Our rubber mould tools
comprise of the following
variants:

Compression

Transfer

Injection

Modification/Repair Services

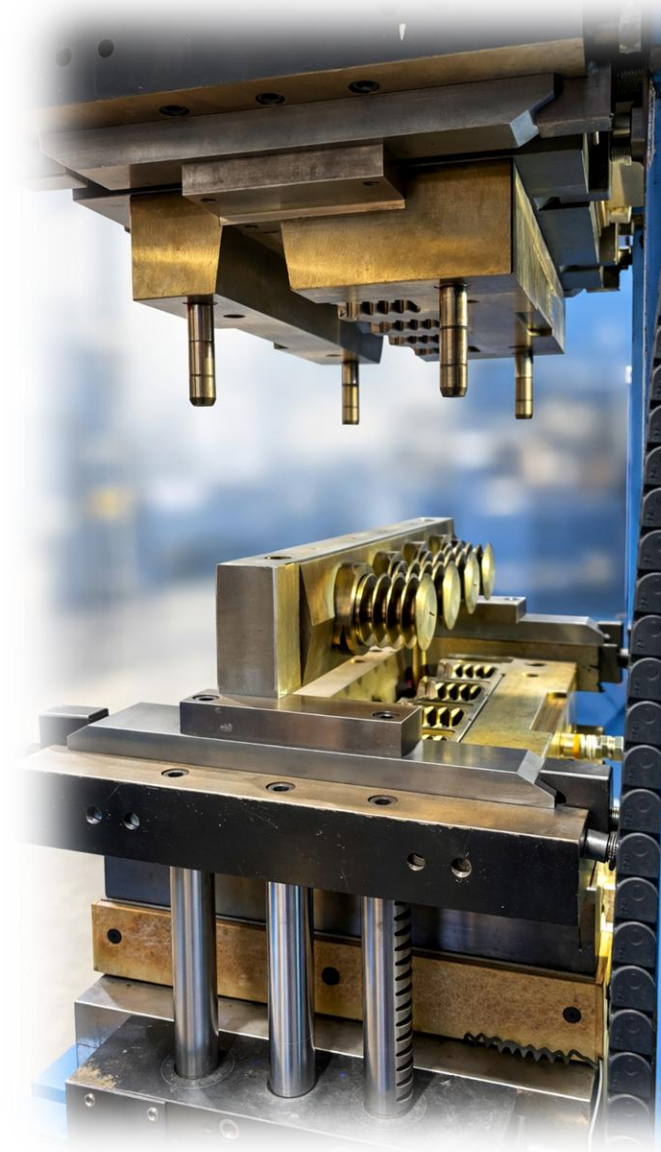
High quality parts are produced from well maintained tools kept in optimum condition

To help ensure high yields and prolonged tool life we offer a range of services including:

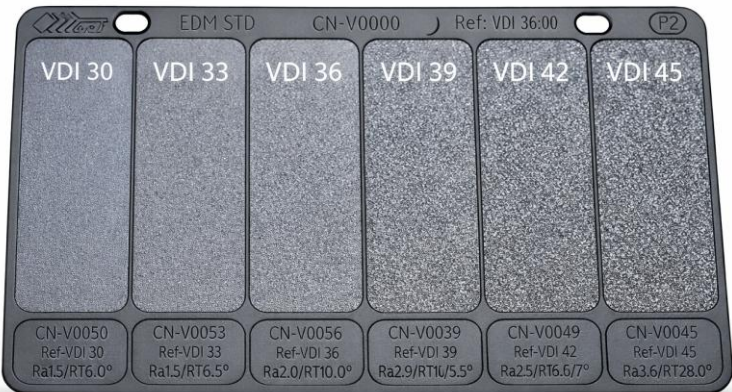
Modification

Repair and rectification

Replacing worn/damaged components



Surface Finish & Texturing



We offer a range of surface finish and mould texturing options:

VDI 12 to VDI 45

SPI A1 to SPI D3



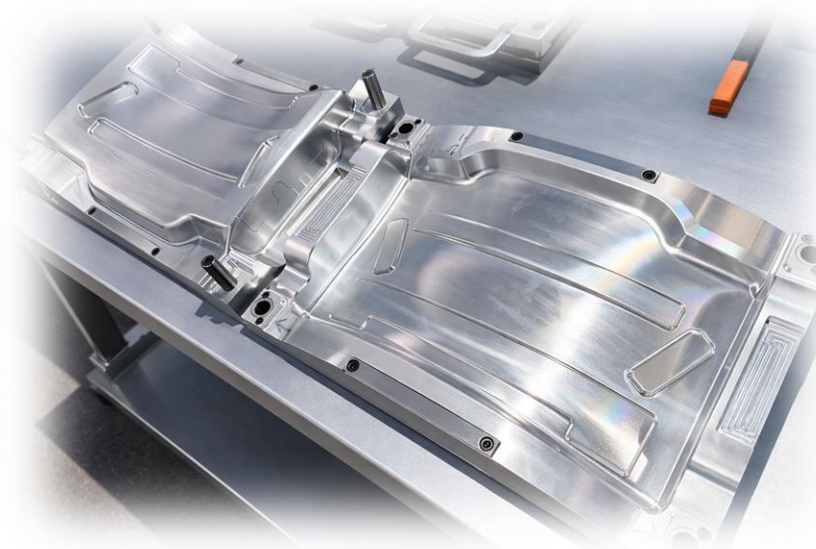
Materials

We produce tools in a range of materials to suit budget and applications including:

Aluminium – various grades typically used for lower volume production/prototypes

P20 / hardened steel – for higher volume / longer service lifetime

Model Board / Nylon – suitable for jigs and fixtures



About Us



Modern, well-equipped 12,500 sq. ft facility operating 24/7

Multi-Skill capability

Precision Engineering / Toolmaking / In-House Mould Design

Time served toolmakers adapted to 5-Axis CNC machining enabling rare combination of engineering ability and high technology

Rapid response capability

Knowledgeable engineering personnel work closely with customers to define correct solution

Facilities

Range of 3 & 5-Axis CNC machining centres capable of machining up to 4M length components

CNC Turning

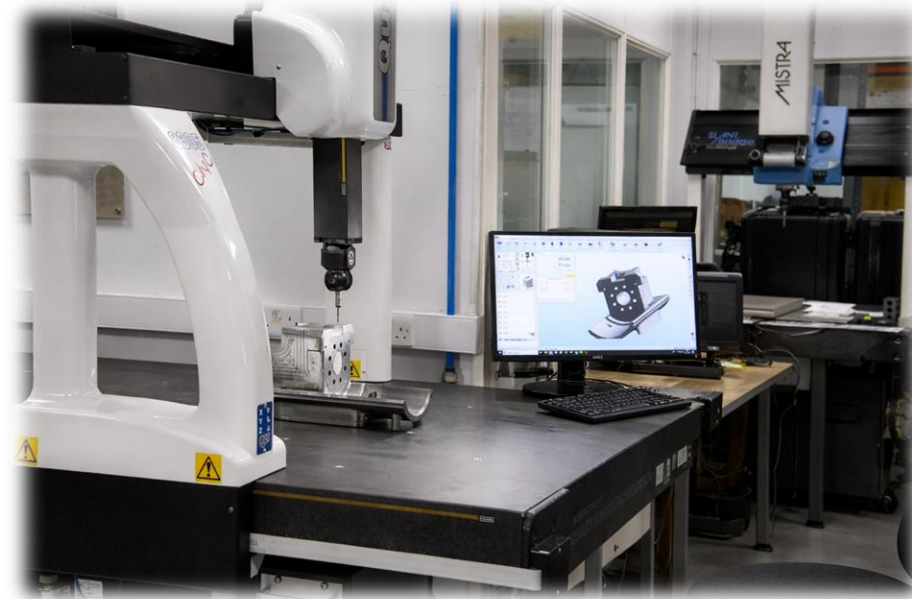
Fully equipped Toolroom with manual milling, grinding, EDM

Inspection equipment:

3mtr CNC CMM

Manual CMM

Measurement arms direct from CAD Models



Plant & Capabilities



Full CAD / CAM software systems consisting of:

SolidWorks / NCG 5-Axis & 3-Axis CAM / Hexagon
VISI CAD/CAM / OpenMind Hypermill CAM

CNC Machine Tools

13 - 5-axis CNC - Max 2600 x 750mm x 800mm

12 Station Robot Pallet Loader

4 - 3-Axis CNC - Max 2500mm x 1000mm x 800mm

2 - CNC Turning Centres

4 - Bandsaws

1 - EDM machine

Inspection

3 mtr Quantum CNC & DEA Mistral CMM

Qty 2 - Hexagon Romer Arm

Our History



Established in 2001 to serve tooling, precision part, jigs and fixtures needs particularly in the motorsport industry

Added CNC capability in 2002 to facilitate growth

Gained ISO9001 certification in 2003

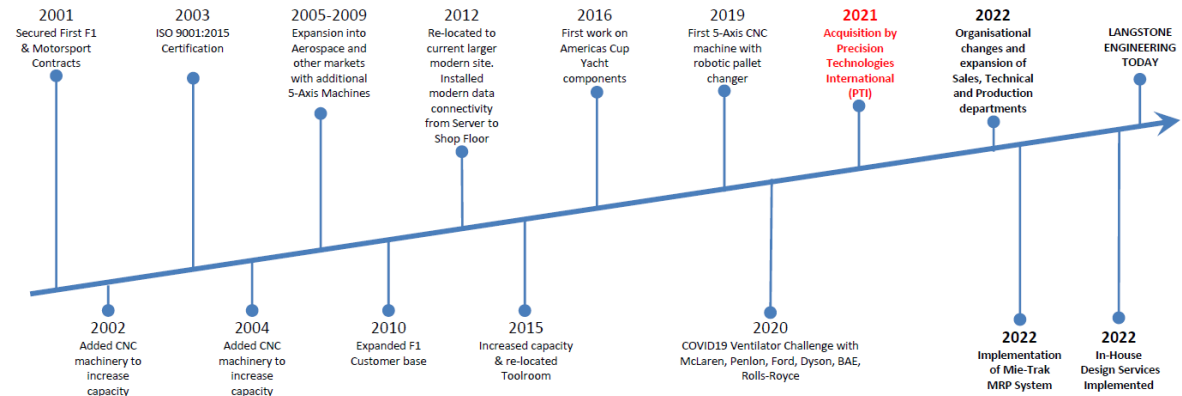
Expanded into Aerospace business in 2005

Relocated to larger, modern site in 2012

Introduced 5-axis CNC from 2019

Acquired by PTI and became part of PES Group in 2021

Implemented MieTrak MRP system in 2022



Our Group

Langstone Engineering is part of the PES Group together with our sister company, Precision Technologies International (PTI). Our group core values are:

Collaboration ● Expertise ● Integrity

PTI specialise in manufacturing high precision ground gears, splines and threaded rotary components for engineering projects where performance and reliability are needed, especially where there is a high risk of consequence

More details on their capabilities can be found at:

www.precisiontechnologies.co.uk

Email: sales@ptiltd.co.uk

Tel: 01827 315050

www.langstone-engineering.co.uk



Part of the **PRECISION** ENGINEERING SOLUTIONS GROUP

Testimonials



Ready To Support You

Langstone Engineering Ltd
Unit D3 Voyager Park
Portfield Road
Portsmouth
Hampshire
PO3 5FN

Tel: +44 (0)23 9245 2430

Email:

info@langstone-engineering.co.uk

www.langstone-engineering.co.uk

www.langstone-engineering.co.uk



*'We look forward to
working with you'*



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