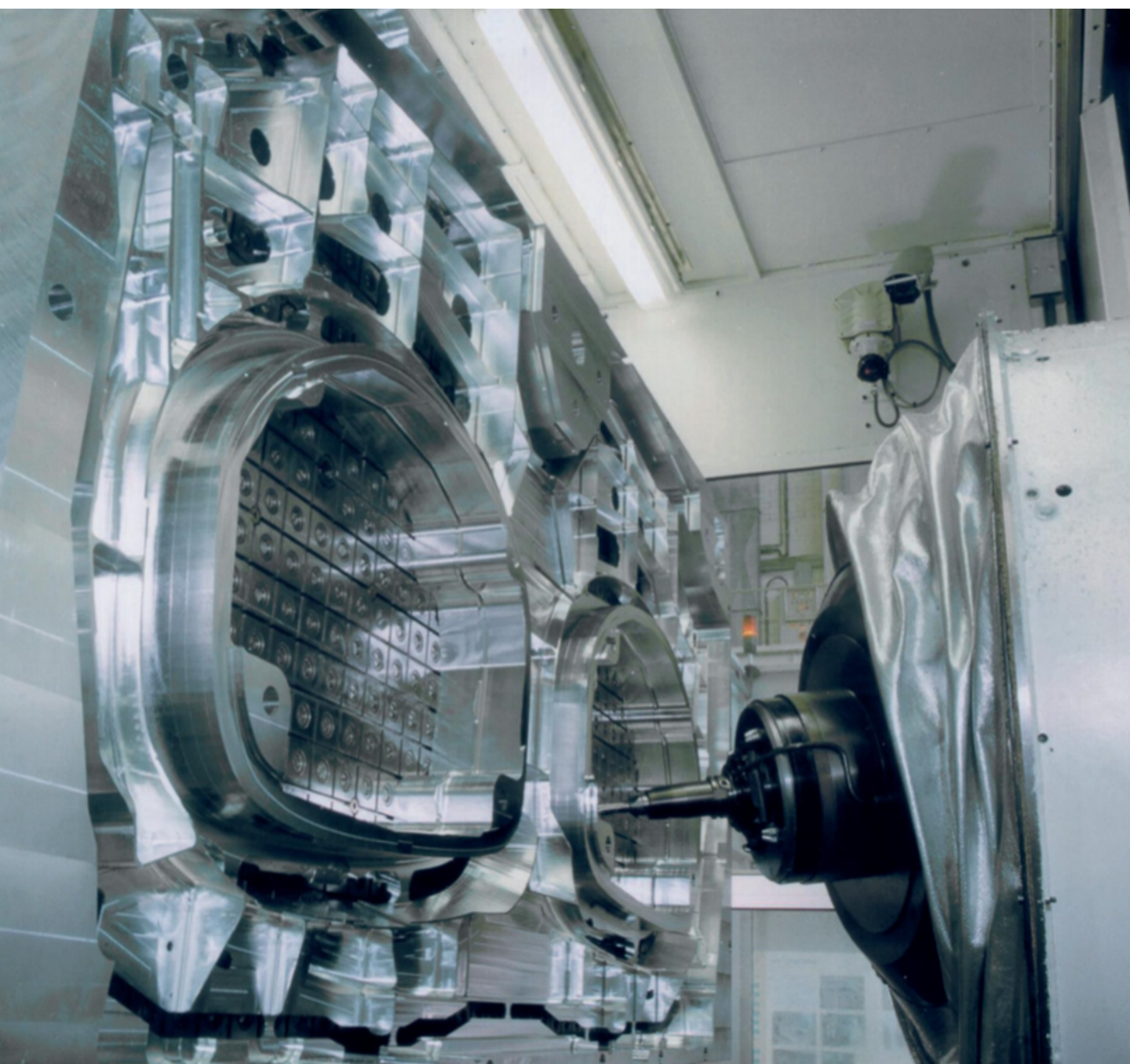
LMg Solutions



CAD/CAM Programming and Engineering Solutions for the Aerospace Industry

LMg Solutions

CAPABILITIES

NC PROGRAMMING

OPTIMISATION
Through Introduction of New Technologies

VERIFICATION

POST PROCESSORS & REVERSE ENGINEERING

3D CAD MODELLING

Jig and Fixture Design

LMg Solutions

NC PROGRAMMING



Programming Capabilities:

- 2.5 through to Multi Axis Programming
- Conventional and High Speed Machining Techniques
- Parts from Small Prismatic to the largest Airframe Structures
- All Materials

LMg Solutions are effective where:

- Project NC Programming resources are limited.
- Project Technical requirements exceed in house capability.
- Extension of your team required using Highly skilled Personnel.

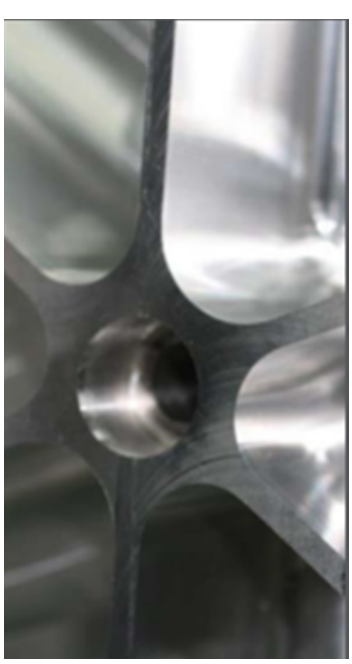
LMg Solutions

OPTIMISATION
Through Introduction of New Technologies

Full Optimisation:

- New Technology Machine.
- New Technology Cutting tools.
- Development of Cutting Strategies.
- Order of magnitude cycle time reduction can be achieved.





Partial Optimisation:

- Old Technology Machine.
- New Technology Cutting tools.
- Development of Cutting Strategies.
- Typical cycle time savings achieved between 20% & 40%.

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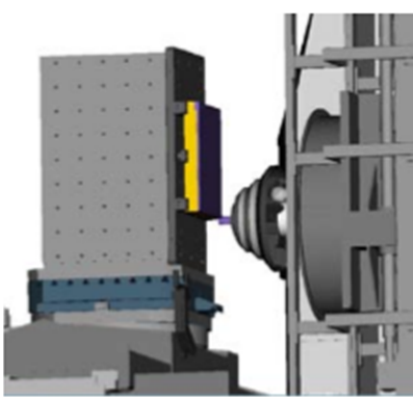
VERIFICATION

Prior to Delivery, each NC part program undergoes a rigorous and detailed verification process.
For this LMg use CGTech Vericut and Vericut Machine Simulation.

CGTECH VERICUT

Vericut Multiaxis Machine Simulation.

Vericut simulates CNC machining to be more efficient, more competitive and more profitable. Machine simulation detects collisions and near misses between all machine tool components





Vericut Auto-Diff

Auto-Diff enables LMg to compare a CAD design model to a Vericut simulation to automatically detect differences.

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POST PROCESSORS & REVERSE ENGINEERING

Post Processor Development

NCCS Postworks is a universal 2 through to 10 axis postprocessor. It converts output from major CAM systems into NC data files for any NC Machine.

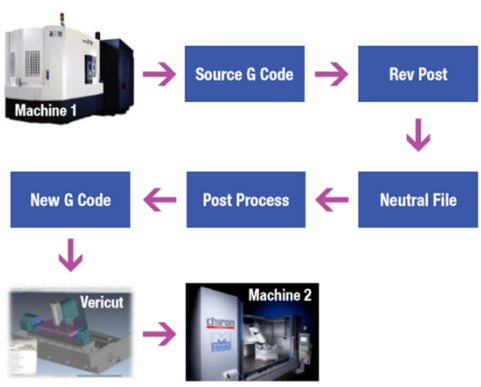


IMS-Post is the most advanced Postprocessor transforming CAD/ CAM cutter location (CL) into specific (G/M) codes for NC Machines.

IMS SOFTWARE

Reverse Engineering

Combining our CAD/CAM systems, Vericut and our Postprocessors, LMg are able to convert NC code from one machine to another using existing part programs.



LMg Solutions

3D CAD MODELLING

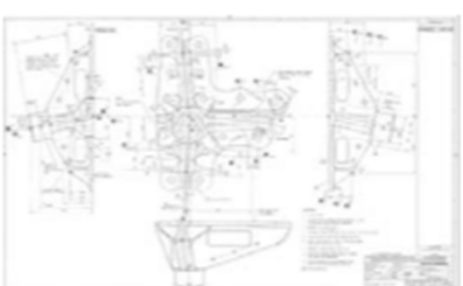
Paper to 2D/3D CAD.
Paper to CAD is a process for converting Paper drawings into 3D Models and/or 2D Drawings.
Ideal for updating existing stock drawings into 3D model format.

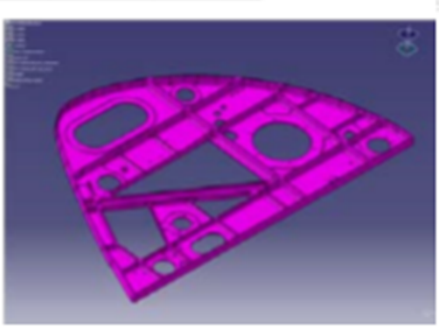
Manufacturing Drawings.
LMg can create full manufacturing drawings for parts to be machined including Material specifications, Dimensions, Tolerances, Surface finish Type and tolerances.

Assembly Drawings.
Assembly drawings can be created from the Top level Assembly down to each Sub assembly including Parts to be manufactured, Part numbers, fixings and bill of materials (BOM).

Verification.
All the above processes are independently verified after completion.







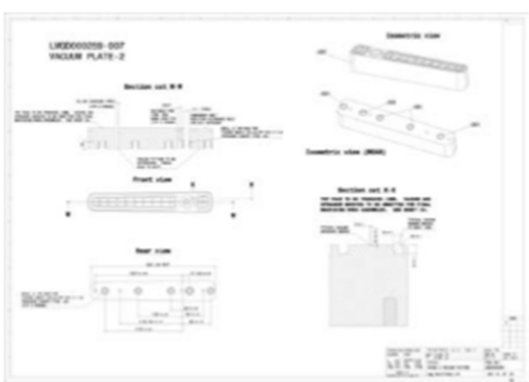


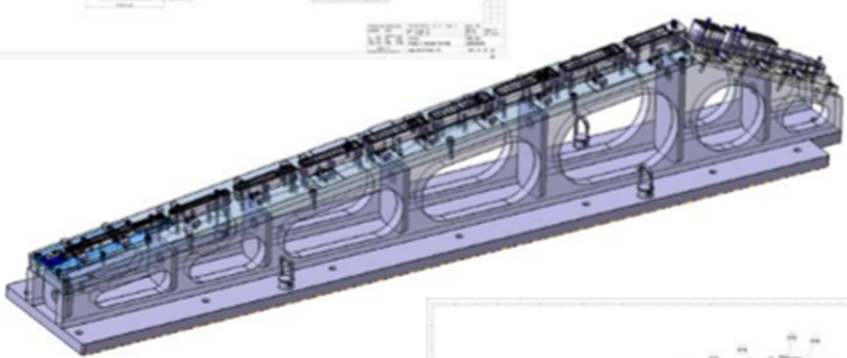
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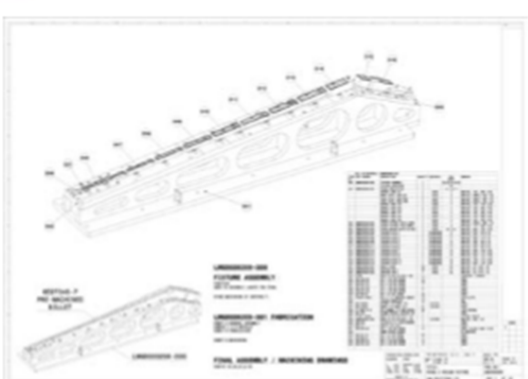
Jig and Fixture Design

Manufacturing Jigs and Fixtures.

LMg can offer a Highly skilled in-house design service which makes us unique.
Our Team of designers using the latest 3D Design software specialise in the design of Jigs and Fixtures to develop the right solution for your bespoke requirements and budget.
From simple manual fixtures to complex vacuum fixtures.







LMg Solutions

LMg solutions are proud to have be involved in the following projects and with the portfolio of Aerospace and Automotive companies.

Aircraft Projects

Airbus A380
Boeing 787
Airbus A380 Freighter
Boeing 767
Airbus A400M

Eurofighter Typhoon
Airbus A350
Embraer KC-390
Boeing 787
Embraer Legacy

Bombardier C Series
Embraer E170
Bombardier CRJ Series

And many more!

Portfolio

Airbus Operations (UK)
Mechachrome Technologies (Canada)
Airbus Deutschland GmbH (Germany)
Oulun Hienomekaniikka OY (Finland)
EADS Deutschland GmbH (Germany)
Patria Aerostructures OY (Finland)
BAe SYSTEMS (UK)
Premium Aerotec GmbH (Germany)
Bentley Motors (UK)
RUAG Aerospace (Switzerland)
Consur SA (Spain)
S.A.B.C.A (Belgium)

Starrag Technology GmbH (Germany)
SICAMB SpA (Italy)
GKN Aerospace (UK & Germany)
GE Aerospace (UK)
Magellan Aerospace (UK)
Carl Zeiss SMT GmbH (Germany)
NCMT Ltd (UK Makino Distributor)
Northern Aerospace (UK)
Moyola Precision Engineering (UK)
Magellan Aerospace (UK)
EMBRAER (Brazil & Portugal)
SPS Aerostructures

LMg Solutions





LMg Solutions are based in the UK and our Team of Engineers, Designers and Programmers operate from 2 sites.

Bridgend Office

Number One
Waterton Park
Bridgend
CF31 3PH





Leighton Buzzard Office

Unit P, Cherrycourt Way
Leighton Buzzard
Bedfordshire
LU7 4UH

LMg Solutions

For more information on the services that LMg Solutions can provide.

Please take a Brochure or Business Card.

Alternatively Contact Us:

Telephone- 01656 668806

Email- nc@lmg.co.uk

www.lmg.co.uk

Member of

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UKAS MANAGEMENT SYSTEMS 0043