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2016

Moulding Matters

Commitment to Quality

At Rediweld Technical Moulding we understand the importance of quality and the way our customers' requirements flow down through the supply chain. Investment in metrology last year is proving its worth. Firstly, our Quality Department needed the ability to provide First Article Inspection Reports (FAIRs) to AS9100 standards by working from 3D models, as well as 2D drawings. Then, as we move from New Product Introduction (NPI) into Production we were being asked to perform extensive in-line dimensional checks on our mouldings.

To address these two separate issues we worked closely with Renishaw which resulted in us purchasing an Aberlink Computer Numerically Controlled (CNC) Coordinate Measuring Machine (CMM) and an Equator gauging system which is a reprogrammable comparator providing shop floor gauging that is highly repeatable, thermally insensitive, versatile and fast.



Equator Gauging System

Both machines run under Renishaw's Modus software and so the programmes for the Equator can be generated from the CMM, improving both productivity and quality control.



Quality Manager, Annette Williams

In March this year, we welcomed Annette Williams to the team, joining Rediweld as Quality Manager. She brings a new level of experience and qualification to the role, taking both our Quality Systems and Quality Control forward to meet the ever growing demands of quality.

Annette is a Chartered Member of the Institution of Occupational Safety and Health (CMIOSH) and a Member of the Chartered Quality Institute (MCQI CQP)

Our latest investment is in Minitab software to support Statistical Process Control (SPC), Design of Experiments (DOE), Measurement System Analysis (MSA), Gauge Repeatability and Reproducibility (R & R) studies, Process Studies and Control Charts to ensure product conformity.

Out with the old, in with the new

In recent years, we have maintained investment in our moulding capacity and this year we have carried this forward with the purchase of a 110T and a 200T Krauss Maffei injection moulding machine. As Kamal Sharma, our NPI/Mould Technician, states “these machines offer excellent repeatability and reliability, better access for tool changing and more control for technical moulding”.



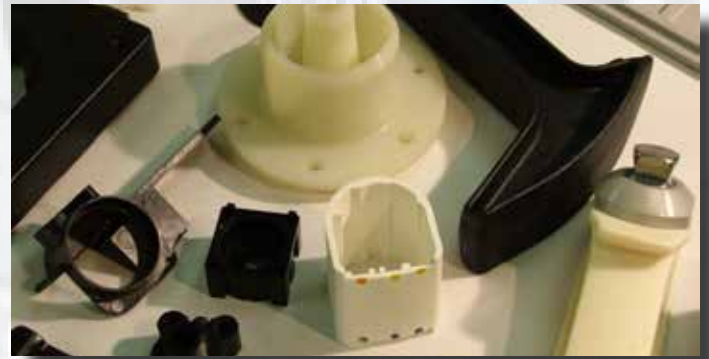
NPI/Mould Technician, Kamal Sharma

They are both able to process high temperature, engineering polymers, such as PEEK, PEI, PES and PPS, which we use extensively for our aerospace and defence customers.



A single source for thermoplastic, thermoset and rubber moulding.....

- Thermoplastic injection and low pressure moulding
- Thermoset compression, transfer and DMC/SMC moulding
- Rubber compression & injection and Rubber to metal bonding



.....and for secondary operations

We have recently invested in a Hurco VM1, 4 axis CNC machining centre to increase our capacity for tight tolerance machining of plastics. This is part of a range of value added activities we offer including shotblasting, ultrasonic welding, mechanical assembly, bonding & fastening and component testing.



Adapt your designs and reap the benefits



Design & Development Manager, Nick Carr

Polymers can save weight, offer excellent properties and reduce the number of parts.

Nick Carr, our Design & Development Manager, can help you realise the benefits of converting from metal to plastics. Typical projects we have recently undertaken include circuit breaker mouldings, a gel seal for cables, conductive polymer components, cable clamps & brackets, wiring harness conduit, retail lighting systems and firearm components. We can also reverse engineer to reproduce existing parts.



Developing skills for tomorrow

Kieran Wilding joined Rediweld as a Manufacturing Apprentice last year and has been gaining experience in the mould shop and toolroom, as well as working in the Quality and Sales Departments. With assistance from East Hampshire District Council (EHDC) he is studying for a Foundation Degree in Engineering from Portsmouth University delivered by Alton College.

Away from work his hobby is restoring steam engines on the Watercress Line.



Manufacturing Apprentice, Kieran Wilding





Meet SID (Strategic Initiative Deployment)

Above SID (Strategic Initiative Deployment)

Rediweld is committed to SC21, the ADS (Aerospace, Defence & Space) improvement programme and is Bronze Award. Manufacturing Manager, Adam Holliday, is our SC21 Champion and coordinates our Sustainable Continuous Improvement Plan (SCIP) and at the centre of activity is SID, which is a room where we analyse, discuss, plan and record our improvements.



For our customers the importance of SC21 is seen not only in our Delivery and Quality performance but that we have a recognised improvement programme in place.

- **How Rediweld Conducts SCIP – where we outline the procedure and organisation**
- **Business Plan /Strategies – based on 5M/ SWOT and FMEA we develop a 3 year plan**
- **Deploying SCIP – here we create and record improvements to meet the 3 year plan**
- **Managing SCIP and KPIs – we are driven by results and the KPIs show us where we are**



Rediweld Internal Performance Dashboard

A passion for aviation



Sales Executive, Rob Newman

Rob Newman has brought something special to his role as Sales Executive, he has a passion for aviation and for a company that specialises in Aerospace, that can only be good. As an experienced pilot, Rob has flown over 30 different types of aircraft, but he also has a strong technical background and wants to show how Rediweld can help you with your moulding requirements.

AEROSPACE
MANUFACTURING

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Aero Engineering Show

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REDIWELD

Technical
Moulding

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