



**RLC**  
Ronaldsway

Technology. Optimised.

Supplying complex prismatic components to Industry

An introduction to RLC Ronaldsway

# History

## HISTORY

Ronaldsway Aircraft Company Ltd was founded over 60 years ago on the Isle of Man and today can still be found on its original site next to the Airport.

During the sixty years operating as a complete supply chain solution, we have provided our customers with all their manufacturing and assembly requirements. Throughout this period we have driven forward with our Continuous Development and Improvement culture.

This has taken us through some notable milestones in our history when creating our unique 'cradle to grave' facility which offers the Manufacturing - Heat treating- Plating - Painting and extensive test services we have today.

It is now part of the RLC Engineering Group which is headquartered in the Isle of Man. The group has sales of £120M and over 800 employees and supplies many of the major aerospace companies in Europe and North America.

RLC has manufacturing facilities in the Isle of Man, Northern Ireland, Northern England and Singapore.



# Overview

- £22m a year turnover
- 220 staff based on the Isle Of Man
- Silver award for Investors In People
- A comprehensive range of machining, assembly, treatment and testing capabilities all at one location
- AS9100 approved
- Customer and Industry approvals

# Capability – Complex machining

## Milling

### 5 Axis

At the Ronaldsway Aircraft Company we have 3 Mazak and one Matsuura 5, 5 axis CNC milling centres that allow us to handle the most complex of jobs. The machines can handle 800(x), 450(y) and 6000(z) sized blanks.

Because all of our machines are linked directly to our CAD/CAM department we are able to produce components quickly, both production and prototype.

Our 5 axis milling machines are usually requested by our aerospace and power generation clients who have a more complex surface detail requirement.

The 5 axis machines are known to offer greater consistency for fine tolerances, surface contouring, and higher rates of material removal resulting in cost effective product generation.

### 4 Axis

There are 8 CNC milling centres at our factory with 4 axis capability, 4 Mazak and 4 Matsuura.

Our principle 4 Axis machines also have the added advantage of having Renishaw probes fitted for additional speed and accuracy.

### 3 Axis

The Ronaldsway Aircraft Company also has 9 3 Axis Matsuura milling centres capable of working with Ti, Al steel and Ni based product

## Turning

In addition to our 5 axis Mazak and 4 DMG machines we have CNC turning centres with bar feed and powered tooling/sliding work pieces.

Our 5 axis Mazak and 4 DMG machines can be used with Ti, Al, steel and Ni based products amongst others.



# Capability – Assembly

## Assembly

From our factory in the Isle of Man we produce sub-assemblies from parts either supplied or manufactured on our premises for a wide variety of uses.

A product group that we specialise in is electromechanical actuators. The majority of the gears for these mechanisms are manufactured and heat treated in house.

We also produce flight harness buckles to full military standards.



# Capability – Finishing

## Finishing

To further enhance our offering, we have an abrasive blast and vibro deburr department where steels, aluminium and titanium can be finished to a very high standard. The vibro deburr machines can accommodate pieces up to 42" circumference. The abrasive blast machines use glass beads, white alumina, brown oxide or steel shot to provide suitable finishes.

## Heat Treatment

With over 50 years of experience in the heat treatment of ferrous and non ferrous metals, we provide a high quality technical heat treatment service to a wide range of industries including aerospace and power generation.

Ronaldsway Aircraft Company provides various heat treatment processes including vacuum hardening, stress relieving, flame & induction hardening.

## Painting

At Ronaldsway Aircraft Company we have a comprehensive masking and painting facility where we are able to precision paint many components. The state of the art painting booth ensures a clean and accurate finish to all products.

## Anodising and plating

At Ronaldsway Aircraft Company we are able to both anodise and plate parts with a wide range of finishes. We can apply finishes to steels, titanium, magnesium and aluminium alloys.

Pre-treatment services are also available and finishes include chrome, nickel plate and anodising to various colours.



# Quality

## NADCAPS

## CUSTOMER APPROVALS

Chemical Processing	NADCAP	AC7108	Chemical Processing	
		AC7108/1	Painting & Dry Film Coatings	
NDT	NADCAP	AC7114	Non Destructive Testing- Suppliers Accreditation	
		AC7114/1	Non Destructive Testing Facility Penetrant Survey	Martin Baker
		AC7114/1S	Non Destructive Testing Facility Penetrant Survey	M.T.U
		AC7114/2	Non Destructive Testing Magnetic Particle Survey	Pattonair
		AC7114/2S	Non Destructive Testing Magnetic Particle Survey	Rolls Royce
Heat Treatment	NADCAP	AS7102	Heat Treating	
		AC7101/3	Materials Test Laboratories - Mechanical Testing	Siemens
		AC7101/4	Materials Test Laboratories - Metallography & Microindentation Hardness	Triumph
		AC7102S	Heat Treating	
		AC7102/2	Aluminium Heat Treating	
		AC7102/4	Gas &/or Ion Nitriding	
		AC7102/5	Hardness &/or Conductivity Testing for Heat Treatment	
		AC7102/8	Pyrometry	
Welding	NADCAP	AC7110	Welding/Brazing	
		AC7110/5	Fusion Welding	
		AC7110/5S	Fusion Welding	
		AC7110/12	Welder/Welding Operator Qualification	
		AC7110/12S	Welder/Welding Operator Qualification	

# Training & development

We recognise that everyone is unique and learns in different ways, so we provide a flexible approach to supporting development. We recognised by Investors In People for our commitment to training and development.

Whether we are recruiting apprentices, graduates, trainees or specialists, our development support is bespoke, but our people can expect:

- Advanced Modern Apprenticeships
- Job-specific training
- Personal Development Plans and Reviews
- National Vocational Qualifications
- Graduate Placements and Development
- Company Sponsored Education and Training
- Coaching and Mentoring

Ronaldsway Aircraft Company provides the tools our staff need for **continued personal development**, as well as diverse career paths and opportunities such as:

- Skilled CNC machinist/development engineer
- Manufacturing engineer/CNC programmer
- 3D Modelling/fixture design
- Production engineer
- Quality assurance
- Production control
- NDT (Non destructive testing)
- A path to management roles





**RLC**  
*Ronaldsway*

thank you for  
your time /