

## ROLLS-ROYCE DART - MARK NUMBERS AND PERFORMANCE

Rating Designation	Mark Number	Min.dry S.L.S.shp	Applications	Remarks
RDa7	520	1630	Viscount 806	3-stage turbine, etc (figure 37) Increased cruise turbine temperature
	525	1730	Viscount 800 series	
	526	1835	Argosy	
	527	1835	Herald	
	528	1835	F.27	
	529	1910	Gullstream 1 (G.J.)F.27	
	530	1835	Viscount 800 series	
	531	1835	748	
	532	1835	Argosy, 748, F.27, Herald	
	533	1835	748	
	534	1835	748	
	535	1835	748	
	536	1835	748, F.27	
551	2167	748, F.27		
552	2167	748, F.27		
550	2120	748	Improved cruise performance	

RDa8



## CHRISTCHURCH ENGINE CENTRE

### Delivery Address

Christchurch Engine Centre  
634 Memorial Avenue,  
Christchurch International Airport 8005,  
New Zealand.

### Postal Address

Christchurch Engine Centre  
PO Box 14005,  
Christchurch International Airport 8030,  
New Zealand.

### Contact

Manager Sales & Customer Service  
Telephone: 64-3-374 7007  
Facsimile: 64-3-374 7001  
[www.pwnz.com](http://www.pwnz.com)



Christchurch Engine Centre



## CHRISTCHURCH ENGINE CENTRE

**DART RDa7 & RDa8**  
MAINTENANCE  
REPAIR AND OVERHAUL

[www.pwnz.com](http://www.pwnz.com)

# DART MRO CENTRE

*Operator experience makes the difference.*



Christchurch Engine Centre is an experienced maintenance, repair and overhaul (MRO) centre for all models of Rolls Royce Dart RDa7 and RDa8 turboprop engines and offers amongst the best in total Dart support world-wide.

Dart overhaul capability was first introduced in 1958 at this Christchurch International Airport facility and has steadily grown, particularly since 1990. It is now one of the top Dart facilities world-wide with customers in the USA, Canada, UK, Australia, Asia and Europe.

Listening to customers and focus on customer service are our hallmarks.

## ENGINE MANAGEMENT

Extensive in-house capability in repair processes ensures

- close control of quality, turnaround time and price
- detailed control of your required overhaul life and build standard.

We are experienced at tailoring shop visit outcomes to meet our Dart customer requirements.



## TECHNICAL SUPPORT

Full in-house technical support is available using OEM links as necessary. Christchurch Engine Centre benefits from over 40 years of technical and MRO support of Dart operations by Air New Zealand Limited and other operators.

## TEST FACILITY

Our test facility takes all marks of Dart and uses a state-of-the-art computerised control system and software to manage engine test, with full reporting and analysis.

## MATERIAL MANAGEMENT

Our material management and logistic group is extensive, carries a significant inventory and has the knowledge and experience to source qualified materials at competitive prices for your engine.

## QUALITY ASSURANCE.

Our systems are world standard and include:

- an in-house material supplier and vendor qualification process that ensures only quality processes, parts, and materials with known history are used.
- a Quality and Safety management system to ensure Continuous Improvement through internal evaluation.

## RELIABLE TURNAROUND TIME

Through competent production planning and management, and extensive in-house capability, turnaround times consistently meet or better contract terms.



*Rolls Royce PLC Picture:  
an early Dart RDa6 Mk 510*

# TOTAL CAPABILITY

Christchurch Engine Centre holds FAA and JAA repair station approvals as well as NZCAA and other national approvals. Check our website for details.

## REPORTING

Our Sales & Customer Service people keep regular contact with our customers. However, there is a difference.

A Key Account Manager is your single point of contact and advocate in our facility to

- look after your interests at all times
- ensure competitive performance is delivered
- ensure the best communication and customer service
- produce progress reports by email, and also through our secure website.

## NON-DESTRUCTIVE TESTING

All NDT staff are certified to NAS410 standard. All work is performed in accordance with Rolls-Royce standard practices and the following:

- Liquid penetrant to ASTM E-1417
- Magnetic particle to ASTM E-1444
- Eddycurrent and Conductivity inspection
- Ultrasonic inspection
- Radiographic inspection to ASTM E-1742
- Borecope including Combustion Chamber inspections in-field.

All NDT work is carried out under the FAA JAA or NZCAA approvals held by Christchurch Engine Centre.

## MACHINE SHOP

comprehensively equipped.

- |                                      |                          |
|--------------------------------------|--------------------------|
| <i>Lathe</i>                         | <i>Milling machines</i>  |
| <i>Horizontal Borer</i>              | <i>Vertical Lathe</i>    |
| <i>Jig borer</i>                     | <i>Radial arm drill</i>  |
| <i>Honing machines</i>               | <i>Grinding machines</i> |
| <i>Co-ordinate Measuring Machine</i> |                          |

**BLASTING MACHINES**  
*Plastic Media, Dry Aluminium Oxide, Vapour Blast, Glass Bead, Shot Peen*

## ELECTROPLATING

- Cadmium Plate (Bright)
- Titanium Cadmium Plate
- Nickel Plate (Sulfamate)
- Copper Plate
- Chrome Plate
- Phosphate Coating
- Chromic Acid Anodising
- Hard Anodising
- Sulphuric Acid Anodising
- Tin Plate
- Silver Plate
- Nickel Cadmium Plating
- Electroless Nickel Plating
- Vapour Degreasing
- Strylus Plating
- Heat Treatment - stress relieving, post-plating de-embrittlement

## WELDING / HEAT TREATMENT / PLASMA COATING

- Welding
- TIG Welding Machines
- MIG Wire Feeder
- Spot Welder
- Oxy-Acetylene Welding Unit
- Heat Treatment
- Four ovens – Intech computer controlled
- Plasma Coating
- Metco Low/High energy system
- A complete DART service awaits you.



*Choose Christchurch Engine Centre for your DART needs.*