

ROLLS-ROYCE DART - MARK NUMBERS AND PERFORMANCE

Rating Designation	Mark Number	Min.dry S.L.S.s.h.p	Applications	Remarks
RDa7	520	1630	Viscount 806	3-stage turbine, etc (figure 37)
	525	1730	Viscount 800 series	Increased cruise turbine temperature
	526	1835	Argosy	
	527	1835	Herald	
	528	1835	F.27	
	529	1910	Gulfstream 1 (G.I).F.27	Executive F.27
	530	1835	Viscount 800 series	Uprated Mk525
	531	1835	748	
	532	1835	Argosy, 748, F.27, Herald	1990 SHP with water/methanol
	533	1835	748	Intermediate contingency rating
	534	1835	748	Intermediate contingency rating
	535	1835	748	Increased maximum continuous rating
	536	1835	748, F.27	Increased turbine gas temperature
	551	2167	748, F.27	Improved fuel Consumption and power
RDa8	552	2167	748.F.27	
RDa10	550	2120	748	Improved cruise performance
	540	2305	748, F27, G1	Improved compressor
	542	2305	Convair CV- 600/640, YS-11	Increased max. cont. rating
RDa12	543	2305	YS-11	Higher max. turbine temp.
	201C	2305	HS748MF Andover (aft ramp)	Military RDa10 Mk542



CHRISTCHURCH ENGINE CENTRE

Delivery Address
 Christchurch Engine Centre
 634 Memorial Avenue
 Christchurch International Airport 8053
 New Zealand

Postal Address
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 PO Box 14005
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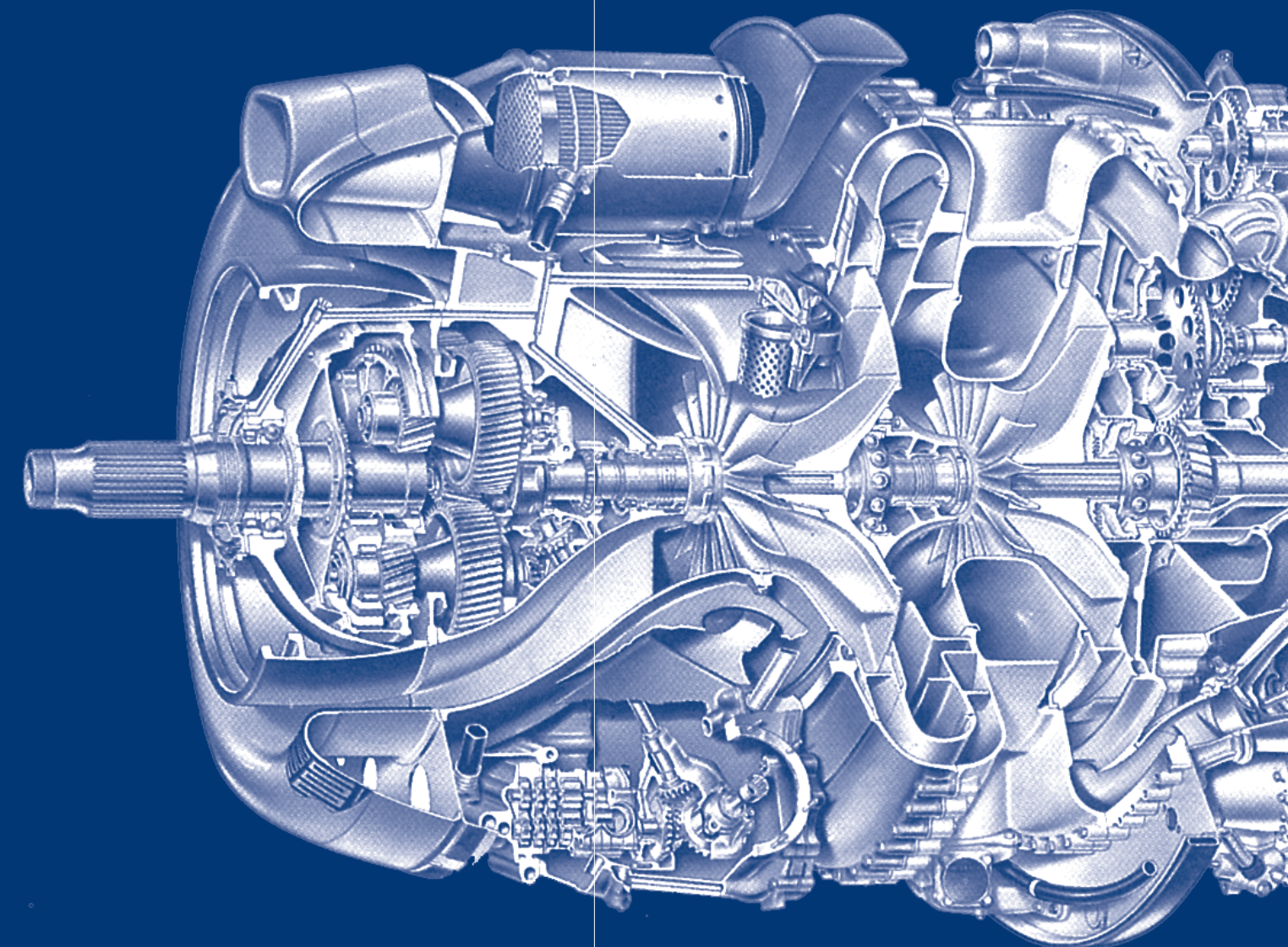
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Christchurch Engine Centre

CHRISTCHURCH ENGINE CENTRE

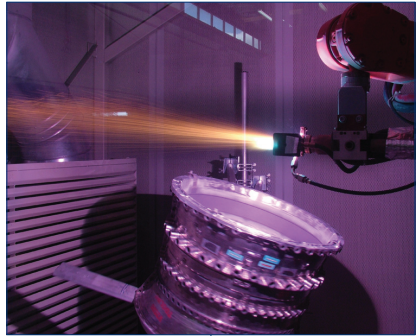


Rolls Royce DART
 MAINTENANCE
 REPAIR AND OVERHAUL

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, 8, 10 and 12 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

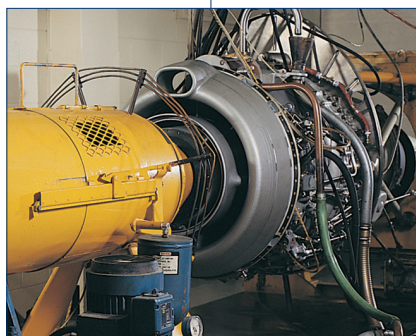
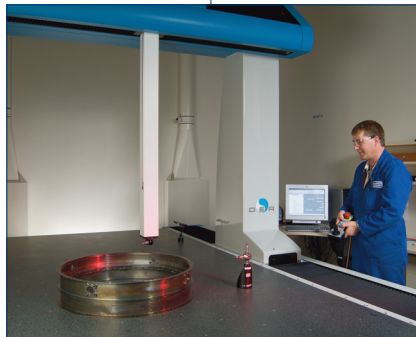
Extensive in-house capability in repair processes ensures

- 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.

RELIABLE TURNAROUND TIME

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



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 test management system, with full reporting and analysis.

It is the Rolls-Royce Gold Cell for Dart calibration worldwide.

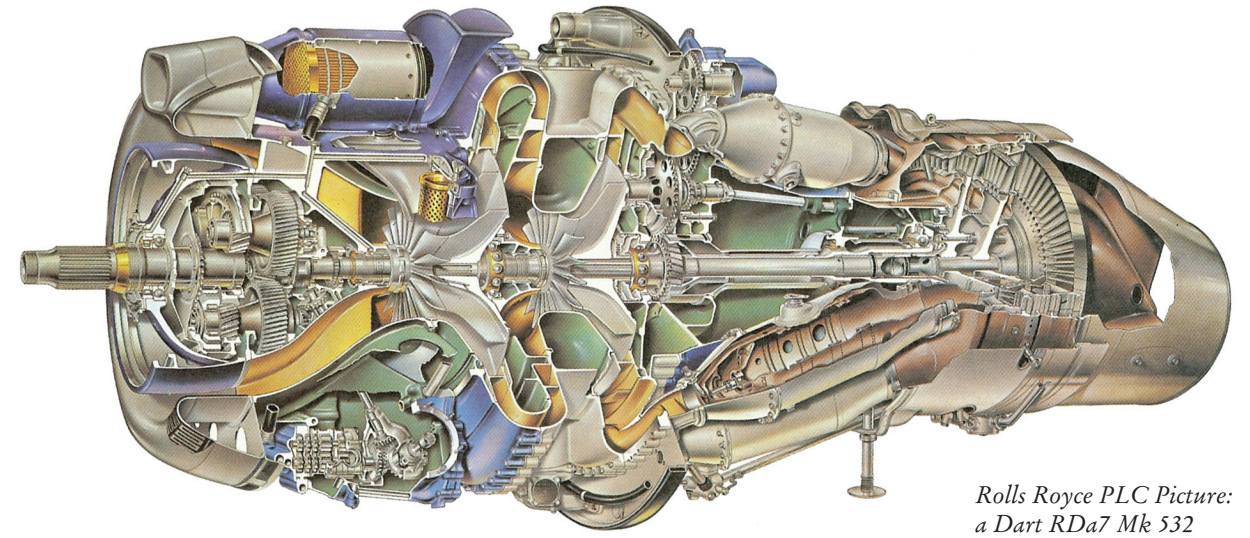
MATERIAL MANAGEMENT

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.



Rolls Royce PLC Picture:
a Dart RDa7 Mk 532

TOTAL CAPABILITY

Dart SALES, LEASE and EXCHANGE, see www.pwnz.com

Our work includes the full range of service bulletin activity including modification 1946 and the latest developments in conjunction with Rolls-Royce.

Our process capabilities include the following:

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
- Borescope including Combustion Chamber inspections in-field.

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

MACHINE SHOP

comprehensively equipped.

Lathes	Milling machines
Horizontal Borer	Vertical Lathe
Jig borer	Radial arm drill
Honing machines	Grinding machines
Co-ordinate Measuring Machine	

BLASTING MACHINES

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

ELECTROPLATING

Cadmium Plate (Bright)
Nickel Plate (Sulfamate)
Copper Plate
Chrome Plate
Chromic Acid Anodising
Silver Plate
Nickel Cadmium 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
Sulzer Metco Low/High energy system
High Pressure Water Treatment
For the removal of thermal coatings

A complete DART service awaits you.



Choose Christchurch Engine Centre for your DART needs.