



**MAINTENANCE REPAIR &
OVERHAUL SERVICES**
Airbus Helicopters Canada

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DYNAMIC COMPONENTS: REPAIR & OVERHAUL AND MACHINING





Airbus Helicopters Canada prides itself on its comprehensive support and services solutions. In addition to being certified for overhauls of dynamic components, Airbus Helicopters Canada also has the capabilities to perform repairs and machining in-house.

This integrated approach to repairs and overhauls is the result of Airbus Helicopters Canada's commitment to quality, efficiency, and customer service.

The result - customer savings in time and money.

Support and Services

Maintenance - Repair - Overhaul - Customization

To keep aircraft operating at peak performance, Airbus Helicopters Canada offers an extensive range of support and service solutions. Airbus Helicopters Canada is committed to providing customers with a high level of support, to ensure that specific requirements are met.

Over the years, Airbus Helicopters Canada has developed a wide array of industry-leading inspections, repairs, overhauls, and exchange programs to offer services suited to the customers' specific needs while striving for maximum availability of their aircraft.

With use of one of Airbus Helicopters Canada's comprehensive support & service programs, Canadian operators will benefit from the Airbus Helicopters knowledge base, workmanship, processes and network.



Dynamic Component Repair & Overhaul

One - Stop - Shop

Airbus Helicopters Canada's level I-IV Repair and Overhaul (R&O) Department is certified for component repair and overhaul for the EC120, EC130, AS350, AS355, BO105 and BK117 as well as, repair of hydraulic packs for the BO105 and BK117.

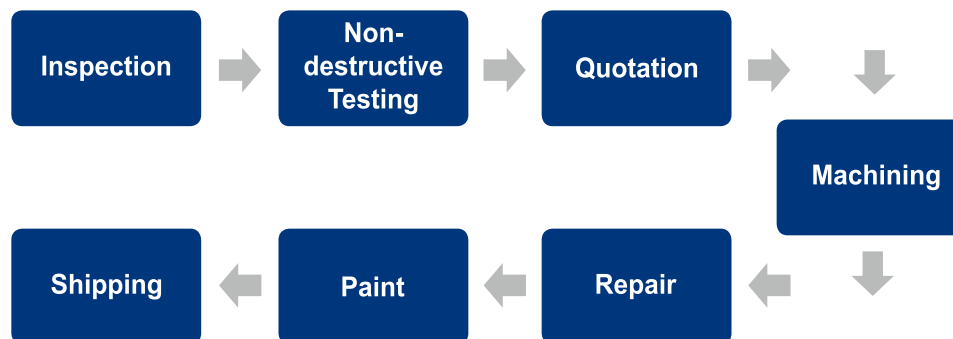
All Airbus Helicopters Canada R&O department personnel are trained and certified to the highest standards by Airbus Helicopters. Airbus Helicopters Canada's Repair & Overhaul shop is equipped with:

Dynamic transmission run-in stands and test benches - EC120, EC130, AS350, AS355

Hydraulic stand for BK117 and BO105 hydraulic modules.

Airbus Helicopters special tools

Fully equipped machine shop



As part of Airbus Helicopters Canada's repair and overhaul processes, repairs and machining on a wide range of parts and sub-assemblies are performed in-house—saving customers time and money.

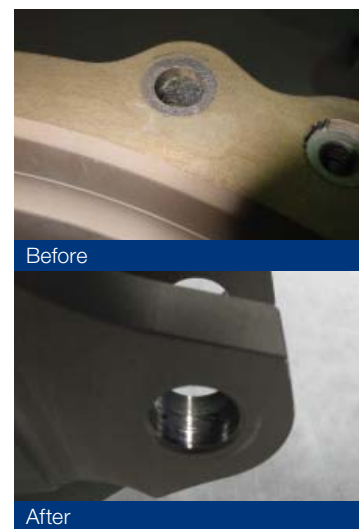
**Repairs available with dual certification (EASA, TCCA & FAA)

Dynamic Component Machining Capabilities

Model EC120
Part Upper Housing
Part # C632A1111-XXX
Repair Bore and bush



Model EC120
Part Center Housing
Part # C632A2116-XXX
Repair Corrosion in holes



Dynamic Component Machining Capabilities

Model AS350 / AS355 / EC130
Part Starflex Bushing
Part # 350A31-1917-XX & 350A31-1918-00
Repair Removal of worn-out bushings
Installation of new bushings
Certification



Dynamic Component Machining Capabilities

Model AS350 / AS355 / EC130
Part Star, non-rotating
Part # 350A37-1002-XX
Repair - Worn mounting ears / stirrups
- Bore and bush



Dynamic Component Machining Capabilities

Model AS350 / AS355 / EC130
Part Main Case
Part # 350A32-3121- XX
Repair

- Corroded flanges / holes
- Bore & sleeve (72 mm) pinion bearing bore
- Bore & sleeve (126 mm) input housing bore
- Input Flange housing corrosion



Before



After

Dynamic Component Machining Capabilities

Model AS350 / AS355 / EC130
Part Lower Case
Part # 350A32-3119-XX
Repair - Worn/undersize bearing mounting diameter
 - Bi-directional faces
 - Flanges / holes



Before



After

Model AS350 / AS355 / EC130
Part Main Mast (Timken or 4 Contact)
Part # 350A37-1076-XX / 350A37-1290-XX
Repair Worn/undersize bearing sleeve
 Worn bushings (12 apostels)
 Chamber wear (1076)



Before



After

Dynamic Component Machining Capabilities

Model AS350
Part Transmission Cross Beam
Part # 350A38-1018-XX, 350A38-1040-20
Repair Bore and bush



Model AS350 / AS355 / EC130
Part Brake Disc
Part # 350A32-3088-20
Repair Wear on surface



Dynamic Component Machining Capabilities

Model AS355
Part Combining Gearbox
Part # 355A0210-XX / 355A0200-XX
Repair - Corrosion
- Worn / oversized bearing bores



Model BO105
Part Transmission Top Case
Part # 4638-201-XXX
Repair Corroded mounting holes



Model BO105
Part Mast
Part # 4619-305-XXX
Repair - Corrosion on mounting face
- Replacement of mast momments / bridge



Dynamic Component Machining Capabilities

Model BO105
Part Transmission Center Case
Part # 4638-201-0030
Repair

- Tail rotor bore; fan bore; axillary bore
- Seal seat
- Corroded mounting holes and flange surface



Model BO105 / BK117
Part Lower Housing
Part # 4638-201-XXX
Repair

- Corroded flange surface
- Bolt holes



Dynamic Component Machining Capabilities

Model BO105
Part Intermediate Gearbox Housing
Part # 4619-310-XXX
Repair

- Corroded chamfer surfaces
- Corroded bore surfaces
- Mounting lugs



Before



After

Model BO105 / BK117
Part Tail Rotor Gearbox Assembly
Part # 4639-310-XXX
Repair

- Oversize bolt holes
- Removal of corrosion and bush
- Bore surface



Before



After

Repair & Overhaul Capabilities

Airbus Helicopters Canada is certified for the repair and overhaul of all dynamic components and mechanical assemblies for the EC120, AS350/355, EC130, BO105, BK117 as well as an exchange pool for hydraulic servos for EC120, AS350/355 and an exchange/rental pool for all dynamic components. The following is a list of the main components.

Component	Part Number
AS350 / EC130	
Bevel Reduction Gearbox	350A32-0300-04/-05 350A32-0350-xx (EC130)
Oil Pump	350A32-0400-00
Rotor Brake	350A32-0500-02
Tail Rotor Gearbox	350A33-0200-05/-06 & 07 350A33-0210-00 (B3e) 350A33-0501-xx (EC130) 350A33-0502-xx
Epicyclic	350A32-0110-00 (4 Contact) 350A32-0100-10 (Timkin) 350A32-0120-00 (EC130) 355A37-0000 355A37-0005-06
Mast Assembly	350A37-0003-xx (Timkin) 350A37-0004-xx (4 contact)
Pitch Change Spider	350A33-2030-00
Ball End	350A33-2150-01
Scissor Link	350A37-1127-01/-02 350A37-1126-01/-02
Pitch Link	350A33-2145-01
EC120	
Epicyclic	C632A0101-xxx
Main Gearbox	C632A0201-xxx
Tail Rotor Gearbox	C652A0101-xxx
Scissor Link	C632A2006-103
BK117 & BO105	
Hydraulic Units	BK117-45020V-xxx & BOCB-105-45028V-xxx BO105-450121

Repair & Overhaul Capabilities

AS355

Bevel Reduction Gearbox	355A32-0600-xx & 355A32-0601-00
Oil Pump	355A32-0700-02 & 355A32-0701-00
Combiner Gearbox	355A32-0200-XX 355A32-0210-XX & 355A32-0211-00
Tail Rotor Gearbox	350A33-0200-04/-05-07 & 350A33-0210-00
Epicyclic	350A32-0110-00(4contact) & 350A32-0120-00 350A32-0100-10(Timkin)
Pitch Change Spider	350A33-2030-00

BK117

Intermediate GB	4639002XXX
Tail Rotor GB	4639003XXX

BO105

Intermediate GB	4619002XXX
Tail Rotor GB	4619003XXX
Main Transmission	4638001XXX

Airbus Helicopters Canada also performs repairs and overhauls on a number of components not listed above. Some of these include: Shaft, Swashplate Guide, T/Rotor Drive Shaft (long/short), Starflex, Non-rotating Star, Crossbeam, Instruments, Shock Absorber, Anit-Vibe Support, Rotating Star, Input Housing, Fuel Probes, and Servos. Please contact your CSR for more information.



Blade Exchange & Repair Program



Personalized Repair Services
Airbus Helicopters workmanship
Maximum aircraft availability

Exchange Programs

Return damaged blades to Airbus Helicopters Canada and take advantage of one of our beneficial exchange programs

Airbus Helicopters Canada's exchange programs offer personalized solutions that are both practical and cost-efficient while ensuring maximum flying time.



STANDARD EXCHANGE

P/N 355A11-0020-00 to 11
P/N 355A11-0030-00 to 04
P/N C621A1-0061-01 to 03
P/N 350A11-0010-00 to 07
P/N 355A12-0040-08 to 14
P/N 355A12-0050-04 to 12

UPGRADE EXCHANGE SETS

Upgrade of any repairable P/N 350A11-0010 to 355A11-0030-04
Upgrade of any repairable P/N 355A11-0020 to 355A11-0030-04

ZERO TAT EXCHANGE

Immediate delivery (upon blade availability)
Price are determined based on core and exchanged blades
Please send log cards of your blades for an offer

Notes:

- Standard Conditions of Services apply to the R&O Standard Exchange and Rentals.
- Additional conditions may apply, see your Airbus Helicopters Representative for more details.
- Lead time to be confirmed at time of order. Standard Exchange not offered as AOG or RUSH level of service.
- Blades repaired outside of the Airbus network not eligible
- Blades involved in incident/accident not eligible for exchange

Repair Programs



Airbus Helicopters Canada offers a wide range of repair solutions for blades. By selecting Airbus Helicopters' OEM repair services, operators benefit from extensive development, training, support and globally recognized workmanship.

AS350 / AS355 MAIN ROTOR BLADE

- Inspection after incident
- Inspection, refinish paint, and static balance (includes root tape)
- Inspection, paint touch-up, and static balance
- Replacement of outboarding leading edge
- Replacement of polyurethane lower surface
- Repair of skin reparation by resin injection

AS350 / AS355 TAIL ROTOR BLADE

- Inspection after incident
- Inspection, spar inspection, refinish and static balance
- Inspection, spar inspection, paint touch-up, static balance
- Replacement of stainless steel strip, bond strap

EC120 MAIN ROTOR BLADE

- Inspection, refinish paint, and static balance
- Replacement of #1 leading edge
- Replacement of #2 leading edge
- Replacement of #3 leading edge
- Replacement of #4 leading edge

**Blade/component repairs available with dual certification (TCCA & EASA).



Service Centre

Service Centre



The Airbus Helicopters Canada Service Centre in Fort Erie, Ontario is able to provide comprehensive maintenance, repair and overhaul services such as:

- Light maintenance, troubleshooting and periodical inspections, up to major inspections
- Post server incident inspections
- External aircraft painting and interior refurbishment
- Modifications, customizations, aircraft retrofit, upgrades, and refurbishment

The facility offers complete turnkey aircraft maintenance services. Our fully qualified, factory-trained personnel are experts in maintaining the full family of Airbus Helicopters including those made by its predecessors Eurocopter, Aerospatiale and MBB.

Airbus Helicopters Canada is an AS 9100 registered company. Our Service Centre meets all the requirements for Transport Canada CAR Subpart 573, European EASA Part 145 and FAA FAR Part 145 acceptance. Other capabilities include sheet metal repair, avionics customization and composite part manufacturing and repair.

All Airbus Helicopters Canada maintenance personnel are either Transport Canada licensed Aircraft Maintenance Engineers (AME), qualified by Airbus Helicopters Canada or graduates of an accredited college AME program.

Our Service Centre capabilities also include avionics repairs, complete system upgrades, pilot static system certification, transponder integration/correlation checks, modifications and the ability to perform inspections for the AS350, AS355, EC120, EC130, EC135, BO105 and BK117.

Range of Services

AS350

- Aircraft Conversions AS350 B to BA, AS350 BA to B2
- Aircraft rebuilding and refurbishing
- Airframe field repairs
- Hard landing inspection and repair
- Composite repair

AS350 / EC120 / EC130

- Maintenance
- T and 12-year major inspections
- Optional equipment installation

Benefits of using Airbus Helicopters Canada Service Centre include:

- Access to technical specialists and engineering staff fully dedicated to Airbus Helicopter products in Canada.
- Support of Airbus Helicopter network in terms of design office, technical services and inspections.
- Dedicated team with decades of experience, whose primary focus is major inspections, rebuilds and conversions.
- Factory approved onsite main rotor and tail rotor blade repairs and dynamic components.



Contact Information

Director of Aftermarket Sales

Gordon Kay

Tel: (905) 994-2910
gordon.kay@airbus.com

Director of Support and Services

Benoit Marcoux

Tel: (905) 994-2912
benoit.marcoux@airbus.com

Manager, Commercial Office

Amanda Bondar

Tel: (905) 994-2974
amanda.bondar@airbus.com

Spare Parts Support Manager

Bill Reid

Tel: (604) 244-1669
bill.reid@airbus.com

Customer Service Representative

Allan Shewan

Tel: (905) 994-2914
allan.shewan@airbus.com

Customer Service Representative

Dan Payette

Tel: (514) 334-5554 ext.5003
dan.payette@airbus.com

Customer Service Representative

Max Dobbie

Tel: (905) 994-2954
max.dobbie@airbus.com

Customer Service Representative

Ruby Smith

Tel: (905) 994-2930
ruby.smith@airbus.com

Customer Service Representative

Tracey Lahaie

Tel: (905) 994-2957
tracey.lahaie@airbus.com

Customer Service Representative

James Taylor

Tel: (604) 244-1669
james.taylor@airbus.com



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