



DYNAMIC COMPONENTS: REPAIR & OVERHAUL AND MACHINING



Airbus Helicopters Canada (AHCA) prides itself on its comprehensive support and services solutions. In addition to being certified for overhauls of dynamic components, AHCA 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.](#)

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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. AHCA is committed to providing customers with a high level of support, to ensure that specific requirements are met.

Over the years, AHCA 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 AHCA's comprehensive support & service programs, Canadian operators will benefit from the Airbus Helicopters knowledge base, workmanship, processes and network.



Repair & Overhaul

One - Stop - Shop

Airbus Helicopters Canada's level I-IV Repair and Overhaul (R&O) department is certified for all dynamic components, mechanical assemblies and hydraulic systems for the **EC120, AS350, AS355, EC130, BO105 and BK117.**

All Airbus Helicopters Canada R&O department personnel are licensed AME's and/or Airbus Helicopters trained. AHCA's Repair & Overhaul shop is equipped with:

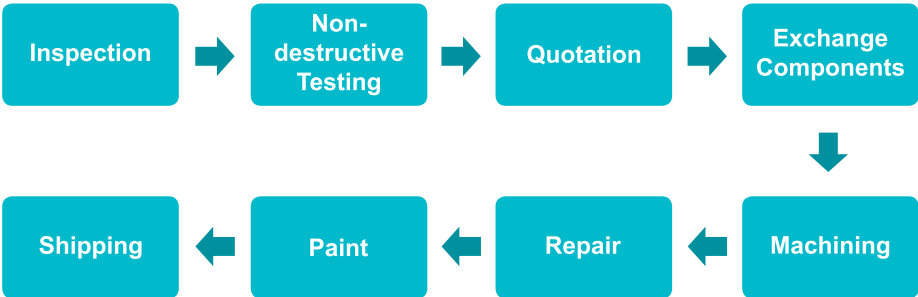
Dynamic transmission run-in stands and test benches - EC120, EC130, AS350, AS355

Transmission static load stands - EC120, AS350, AS355

Hydraulic pump and component test stand capable of static pressures up to 550 bar and dynamic pressures up to 220 bar at 20 litres/minute - BK117 and BO105

Airbus Helicopters issued tools

Fully equipped machine shop



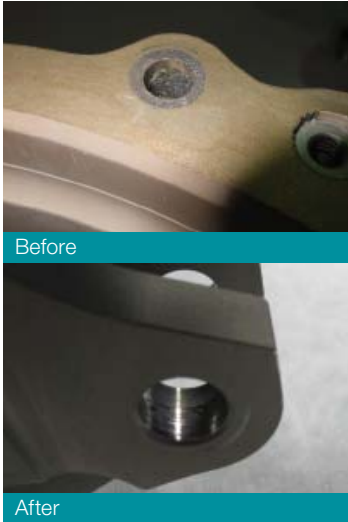
As part of Airbus Helicopters Canada's repair and overhaul processes, repairs and machining on a wide range of parts and sub-assemblies are performed in-house—saving customers time and money.

Dynamic Component Machining Capabilities

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

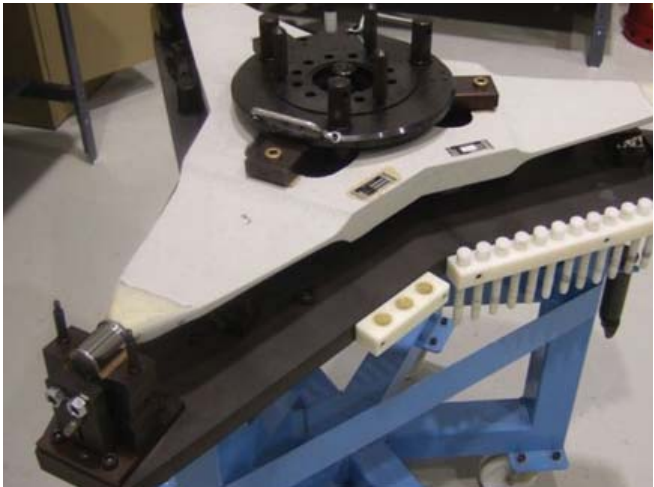


Model EC120
Part Center Housing
Part # C632A2116-XXX
Repair Corrosion in holes



Dynamic Component Machining Capabilities

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

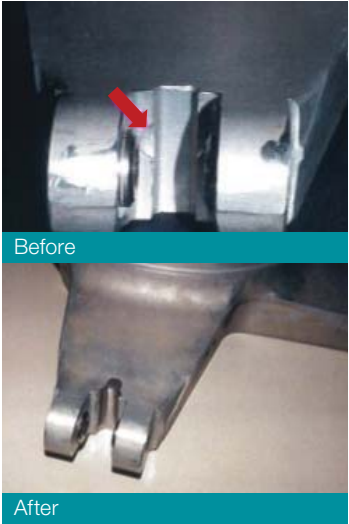


Dynamic Component Machining Capabilities

Model AS350
Part Rotating Star
Part # 350A37-1003-XX
Repair Corroded surface and bore



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 (brake disc)



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



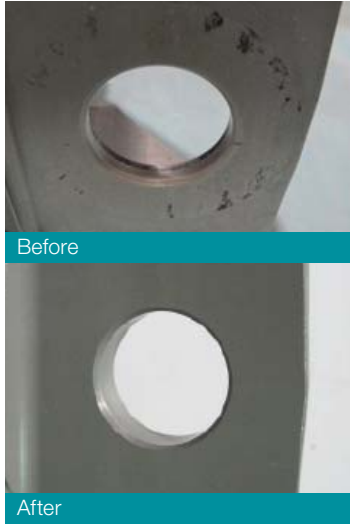
Before



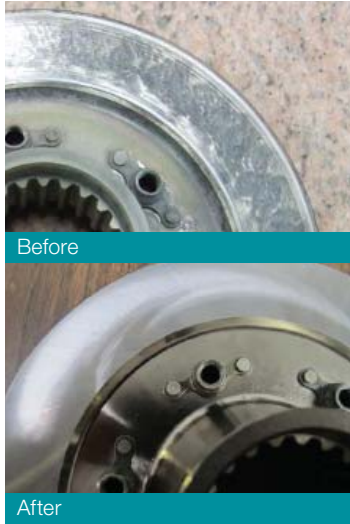
After

Dynamic Component Machining Capabilities

Model AS350
Part Transmission Cross Beam
Part # 350A38-1018-XX
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

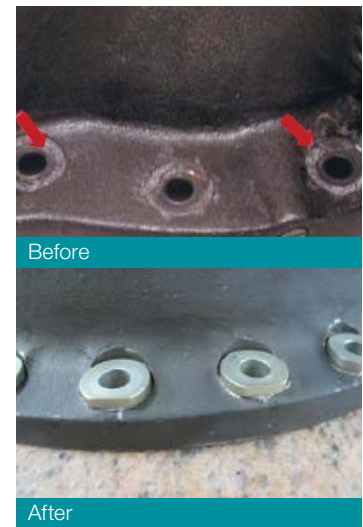


Model BO105
Part Mast
Part # 4619-305-XXX
Repair - Corrosion on mounting face
- Replacement of mast moments / bridge



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
Part
Part #
Repair

BO105
Intermediate Gearbox Housing
4619-310-XXX
- Corroded chamfer surfaces
- Corroded bore surfaces
- Mounting lugs



Before



After

Model
Part
Part #
Repair

BO105 / BK117
Tail Rotor Gearbox Assembly
4639-310-XXX
- 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, mechanical assemblies and hydraulic systems for the EC120, AS350, EC130, AS355, BO105 and BK117. The following is a list of the main components.

Component	Part Number
AS350 / EC130	
Bevel Reduction Gearbox	350A32 -0300 -04/-05 350A32 -0350 -xx (EC 130)
Oil Pump	350A32 -0400 -00
Rotor Brake	350A32 -0500 -02
Tail Rotor Gearbox	350A33 -0200 -05/-06 350A33 -0501 -xx (EC 130)
Epicyclic	350A32 -0110 -00 (4 Contact) 350A32 -0100 -10 (Timkin) 350A32 -0120 -00 (EC130)
Mast Assembly	350A37 -0003 -xx (Timkin) 350A37 -0004 -xx (4 Contact)
Pitch Change Spider	350A33 -2030 -00
Ball End	350A33 -2150 -01
Pitch Link	350A33 -2145 -01
EC120	
Epicyclic	C632A0101052
Main Gearbox	C632A0201053
Tail Rotor Gearbox	C652A0101053/55

Repair & Overhaul Capabilities

AS355

Bevel Reduction Gearbox	355A32 -0600 -xx
Oil Pump	355A32 -0700 -02
Combiner Gearbox	355A32 -0200 -xx 355A32 -0210 -xx
Tail Rotor Gearbox	350A33 -0200 -04/-05
Epicyclic	350A32 -0110 -00 (4 Contact) 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.

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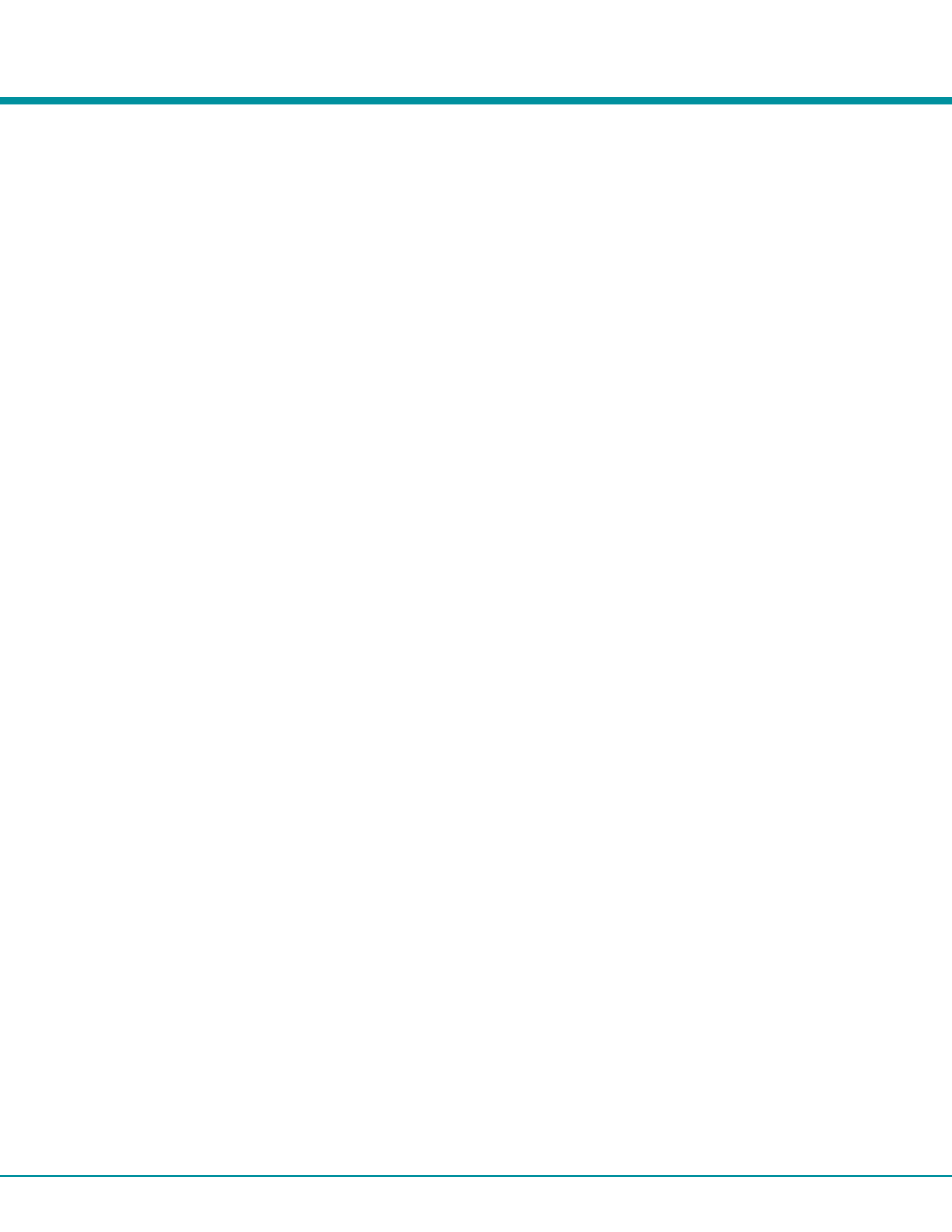
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NOTES







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