

A photograph of a Heli-One helicopter on the deck of a ship. The helicopter is positioned on the right side of the frame, with its main rotor blades blurred from motion. The ship's deck and railings are visible in the foreground and middle ground. The background shows a sunset sky with warm orange and yellow hues. A dark blue semi-transparent banner is overlaid at the bottom of the image, containing the title, date, and logo.

# Heli-One Corporate Overview

November 2019

CONFIDENTIAL





# Heli-One Corporate Overview

Excellence in Helicopter Maintenance Services

November 2019

# Heli-One: Who We Are

**Our global commitment to Safety & Quality:**

*"No harm to people, property, or the environment."*

## Mission:



Maximize safety  
ownership



Optimize mission readiness



Reduce total cost of

Excellence in Helicopter Maintenance Services



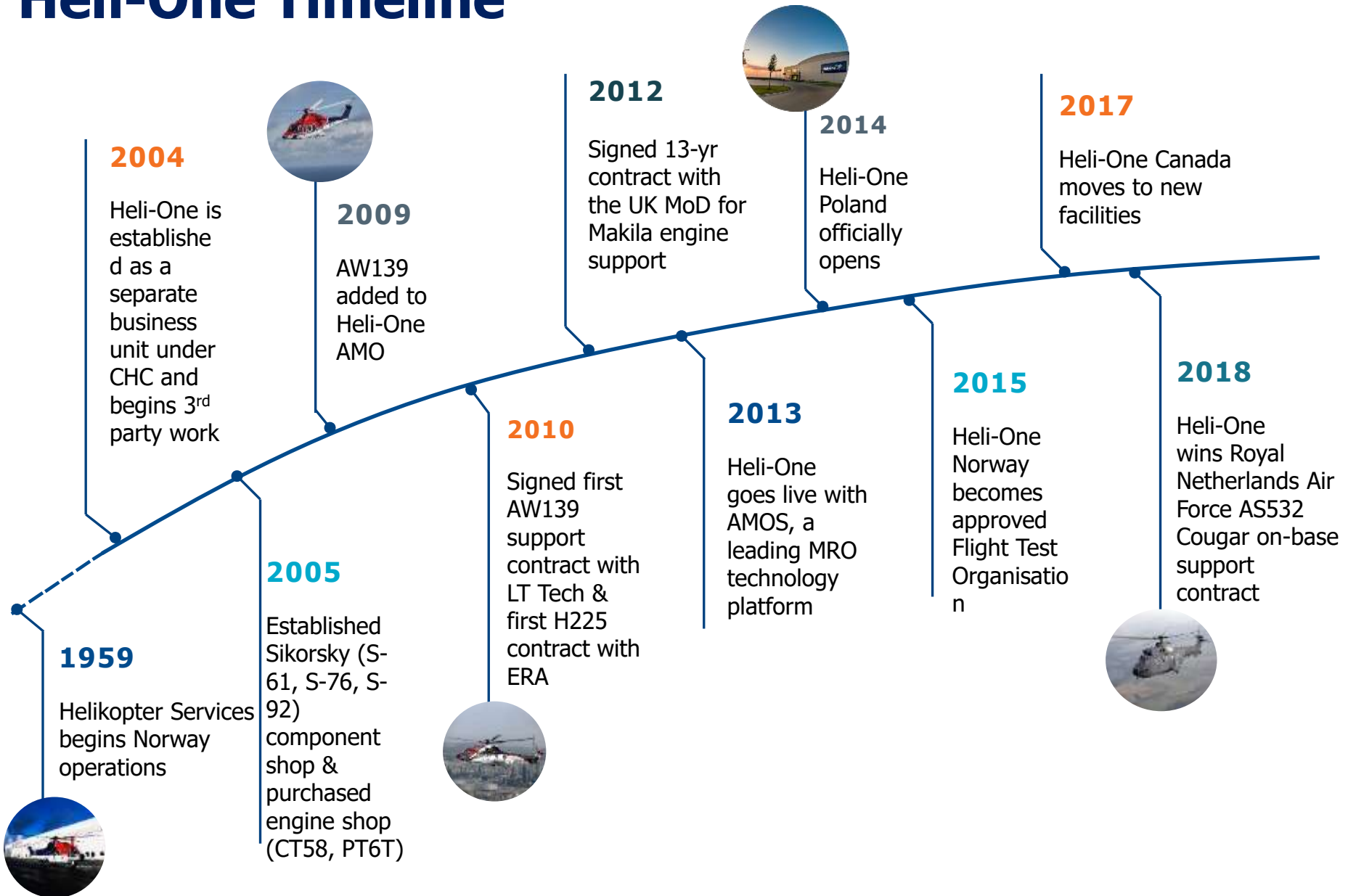


## A Global Leader in Helicopter Maintenance

We aim to keep you safe and mission-ready while reducing the cost of ownership

- Over 60 years experience
- 430,000 sq ft of facilities
- Supports over 50 bases worldwide
- Offers services for over 40,000 parts
- 650 employees globally
- Hundreds of helicopters supported on a variety of service plans
- Offers services for 13 helicopter types & 4 engine types
- Performs more than 250 types of major inspections

# Heli-One Timeline





# Supported Industries

Heli-One 



Air Medical

Oil & Gas

Military

Tourism

Law Enforcement

Heavy Lift

Search &  
Rescue

# Supported Platforms- Approvals in Place

## Helicopters



- **AW139**
- **AS332**
- **AS365/H155**
- **AS350/H130**
- **H135**
- **H225**
- **S-92**
- **S-76**
- **S-61**
- **Bell 412**
- **Bell 212**

## Engines



- **CT58**
- **CT7**
- **Makila 1A Series**
- **PT6T\***
- **PT6C-67C\***  
(\*Accessories)



# Facilities Overview



Canada (Richmond & Delta)	Norway (Stavanger)	Poland (Rzeszow)
Opened in 2007	Opened in 1989	Opened in 2014
230 Employees	350 Employees	70 Employees
150,000 sq ft	215,000 sq ft	65,000 sq ft
7 Maintenance Bays	5 Maintenance Bays	6 Maintenance Bays
Engine & Gearbox Test Cell	Engine & Gearbox Test Cell	Dedicated Paint Bay
Base Maintenance: AS332/AS365/H225/AS350 AW139/Bell412/S-61/ S-76/S-92	Base Maintenance: AS332/AS365/H225/ AW139/Bell412/S-61/ S-92/H135/H155	Base Maintenance: AS332/H225/H135/ AW139/S-76*/S-92* (*pending)
Engines: CT58/PT6T & PT6C-67C (Accessories)	Engines: Makila 1A/CT7	Components: AW139 Ducts
Components: S-76/S-61/S-92/AW139/Bell412 AS350	Components: AS332/H225/S-92/AW139	



# Global MRO Support Network



# Heli-One Support Options






Heli-One offers comprehensive maintenance support - giving you a single source of maintenance service across multiple OEMs, including engines. We give you predictable maintenance budgets, covering both scheduled and unscheduled events, with a dedicated Customer Support Officer and 24/7 AOG support.

Our programs are tailored for you and can cover individual components or the entire aircraft. Our options give you a maintenance solution to manage costs and maximize your aircraft's availability while limiting the time spent on administrative activities as well as minimizing your inventory.



- Customizable packages providing flexibility to choose the coverage you want, based on the mission
- Integrated support for turnkey operations
- Single source provider with proven track record
- Administrative control over contract terms and execution
- Framework Agreement enables multi-fleet types, distribution and operator support
- Buy-Out assignability ensured

# Heli-One Service Overview

Airframe Maintenance	Component Repair & Overhaul	Engine Repair & Overhaul	Engineering & Design	Comprehensive Support Plans
				
At Heli-One facilities (18 bays) or MRT	Average 1/3 <sup>rd</sup> of OEM TAT for Majors	Guaranteed TAT and fixed pricing for certainty and predictability	Over 120 STCs easily adaptable to different platform & mission types	Keeping your aircraft flying anywhere in the world
Capability for <ul style="list-style-type: none"> <li>• AW139</li> <li>• AS332/H225/AS365/H135/H155/AS350</li> <li>• S-92/S-76/S-61</li> <li>• Bell 412/212</li> </ul>	Capability for <ul style="list-style-type: none"> <li>• AW139</li> <li>• S-92/S-76/S-61</li> <li>• AS332/H225/AS350/H130</li> <li>• Bell 412/212</li> </ul> Gearbox Test Cell: AS332/H225/S-76/S-61	Capability for <ul style="list-style-type: none"> <li>• Makila 1A</li> <li>• CT58</li> <li>• PT6T (Accessories)</li> <li>• PT6C-67C (Accessories)</li> </ul> Test Cells: Makila/CT58	Mission Flexibility: <ul style="list-style-type: none"> <li>• Oil &amp; Gas</li> <li>• Search &amp; Rescue</li> <li>• EMS</li> <li>• Military</li> <li>• Law Enforcement</li> <li>• Tourism</li> <li>• Heavy Lift</li> </ul>	Support Services: <ul style="list-style-type: none"> <li>• Large inventory pool</li> <li>• Logistics</li> <li>• Global distribution network</li> <li>• 24-hour AOG desk</li> <li>• Technical records management</li> <li>• Pre-Plan Surveys</li> <li>• Reliability Data</li> </ul>



# World Class Engineering & Design



- EASA (part 21J DOA) and TCCA certified design offices with team of 30 professionals
- 120+ Proprietary STCs – adaptable to different aircraft
- Rapid Prototyping through 3D printing
- MRO Repairs Include: 300+ proprietary repairs for S-92 and 90+ proprietary repairs for AW139
- Approval to perform D-Level for Airbus Helicopters

## **World class after-market designers of upgrades and mission equipment for:**

- Oil and Gas: Interiors, EGPWS, HUMS, FMS upgrades
- SAR: FLIR, Hoists, AIS, Sea Floors, compact litter systems
- EMS: Interiors, Dual Pivoting Litters, Medical Equipment Racks
- Law Enforcement: Fast ropes, tactical radios, Night Vision
- Military: IR suppression, ballistics protection
- Utility: Vertical reference bubble doors and windows

# Our Customers & Partners

Heli-One has hundreds of customers all over the world – here are a few of our valued customers:

## Oil & Gas



## Military/Para-Military



## EMS/Tourism/SAR



# Capabilities at a Glance

## Airframe Capabilities

	AS332/ 532	H225/ 225M	AS365/ 565	AS350	AW139	212/412	S-92	S-76	S-61	H135	H155
Base Maintenance & Major Checks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
STC Development	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Paint Capabilities	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Engineering & Design	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Avionics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Component Capabilities

	AS332/ 532	H225/ 225M	AS350/ 355	H130	AW139	Bell 412/ 212	S-76	S-61	S-92
Major Component MRO	✓	✓	✓	✓		✓	✓	✓	✓
Small Component MRO	✓	✓	✓		✓	✓	✓	✓	✓
On Site Test Cell	✓	✓		✓		✓	✓	✓	
Lease and Exchange Pool	✓	✓	✓	✓			✓	✓	✓
Surplus Inventory Sales	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Engine Capabilities

	Makila 1	PT6T	PT6C-67C	CT58/T58	CT7
Mobile Repair	✓	✓	✓	✓	✓
Full Engine MRO	✓			✓	
Fuel Control MRO	✓				
Comprehensive Support	✓	✓	✓	✓	
On Site Test Cell	✓			✓	
Lease and Exchange Pool	✓	✓	✓	✓	✓
Surplus Inventory Sales	✓	✓		✓	



# Specialized Equipment and Capabilities

Heli-One has invested considerably in specialized equipment and tooling, enabling us to perform in-house repairs that reduce cost and TAT.



## Component Capabilities

	Vancouver	Norway	Poland
<b>Chemical Cleaning</b>	✓	✓	✓
Media Blasting - Aluminum Oxide, Glass Bead & Plastic Media	✓	✓	✓
Media Blasting - White Corundum			
Solvent Wash	✓	✓	
Vapour Degreasing	✓	✓	
Ultra Sonic (Ardrox Product)			

## Machine Shop

	Vancouver	Norway	Poland
<b>CNC Machining</b>	✓	✓	
Horizontal Boring Operations	✓		✓
Grinding Operations	✓	✓	✓
Lathe/Turning Operations	✓	✓	
Felt Metal Grinding		✓	
Vertical Milling	✓		
CMM Machine	✓		
Shaping/Contouring/Forming Operations			✓

## Welding Shop

	Vancouver	Norway	Poland
<b>Fusion Welding - Gas Tungsten Arc Welding, (TIG)</b>	✓	✓	✓
<b>Fusion Welding - Gas Metal Arc Welding, (MIG)</b>			
Resistance (Spot) Welding	✓	✓	✓
Braze Welding	✓		
Heat Treating	✓	✓	

## Specialized Surface Treating

	Vancouver	Norway	Poland
<b>Anodizing</b>	✓	✓	
Cadmium Plating	✓	✓	
Chromate Conversion Coating	✓	✓	
Acid Etching	✓	✓	

## NDT

	Vancouver	Norway	Poland
<b>(PT) Fluorescent Penetrant Inspection</b>	✓	✓	
<b>(MT) Magnetic Particle Inspection</b>	✓	✓	✓
<b>(ET) Eddy Current Inspection</b>	✓	✓	✓
<b>(RT) X-Ray</b>	✓	✓	
<b>(UT) Ultrasonic Inspection</b>		✓	

# Appendix

# Base Maintenance Capabilities

## Airframes Serviced

- Leonardo: AW139
- Bell: 212/412
- Airbus: all 332 variants, 225, 365, 350
- Sikorsky: all S-76 variants, S-92, S-61N/H3

## Comprehensive Phase & Heavy

- Major facilities in Stavanger, Vancouver and Poland
- Extensive troubleshooting
- Full paint and strip capability
- Installation of approved modifications
- Sheet metal
- System avionics
- Major inspections, modifications and completions





# Repair & Overhaul Capabilities



## Engines

### **General Electric**

- CT58/T58
- CT7 series (limited repair)
- Test capabilities
- Lease & Exchange units available

### **Pratt & Whitney Canada**

- PT6T TwinPac Series & PT67C-67C (Accessories)
- Mobile Repair Team (MRT)
- Lease & Exchange units available

### **Safran**

- Makila 1A, 1A1, 1A2 (incl. fuel control unit)
- Test capabilities
- Lease & Exchange units available

## Components

### **Airbus**

- 332/532 series (including majors)
- 350/355/225 dynamics
- Test capabilities
- Lease & Exchange units available

### **Sikorsky**

- All S-76 series, major & non-major components
- All S-61N major & non-major components
- Test capabilities
- Lease & exchange units available
- S-92 non-major components

### **Leonardo (AW139)**

- 30+ repairs on non-major components

### **Bell**

- Bell 412/212 major & non-major component

# Quality Approvals

## Canada:

- TCCA Approved Maintenance Organization
- TCCA Design Approval Organization
- TCCA Manufacture and Certification
- EASA Approved Maintenance Organization
- Brazil Civil Aviation Authority
- Thai Department of Civil Aviation
- CAAC (China) Maintenance Organization Certificate
- Cayman Islands CAA Approved Maintenance Organization
- Malaysia Department of Civil Aviation Approved Maintenance Organization

## Norway:

- EASA Part 145, MOA
- EASA Part 21 subpart J, DOA
- EASA Part 21 subpart G, POA
- FAA Air Agency Certificate
- TCCA Transport Canada Approval
- JCAB Japanese Civil Aviation Bureau Approval
- CAAC China CCAR-145 Approval
- Korea Aviation Authority, MOA
- ISO 9001 Approval
- AQAP 2110 Certificate

## Poland:

- FAA Part 145 Repair Station
- Cayman Islands CAA
- EASA Part 145
- TCCA Approved Maintenance Organization
- Military University of Technology
- National Codification Bureau
- Transport Canada Civil Aviation
- Brazil Civil Aviation Authority Approved Maintenance Organization

# OEM Licenses



- Airbus Helicopters Approved Repair Center: AS332/532, H225/EC725, AS365
- Bell Authorized Customer Service Facility Models: Bell 412
- Leonardo Approved AW139 Service Center and R&O Center
- Pratt & Whitney: PT6T & PT6C accessories and MRT
- Rockwell Collins Repair Center
- Safran Authorized Repair and Service Center for Makila
- Sikorsky Approved Customer Support Center & Dynamic Component R&O Center: Sikorsky S-76



**Thank you!**