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## MRO EDITION

TOP EMERGING

# MRO

COMPANIES 2022



Gastops



# Gastops



*The annual listing of 10 companies that are at the forefront of providing  
MRO services and transforming businesses*

# Gastops

## Leveraging Condition Monitoring Expertise to Optimize MRO

**T**hroughout the COVID-19 Pandemic the Military Aviation MRO segment has continued to see steady demand given the continuing need to maintain mission readiness. This steady demand has been challenged by the global supply chain disruptions that have impacted most industries, increasing the need for fleet operators to find trusted MRO partners who can combine leading edge technology with world class customer service to optimize their processes.

Enter Gastops.

Founded in 1979, Gastops is a leading provider of condition monitoring solutions that blazes a trail in delivering data-driven diagnostic and prognostic technologies, helping clients maximize flight availability. Since its inception, the company has been driven by a mission to develop a fundamental understanding of issues that plague customers' operations. Adhering close to this goal, Gastops specializes in providing a comprehensive suite of condition monitoring solutions that combines critical component data with its unparalleled domain expertise. "Our solutions are built on a physics-based understanding of machinery failure modes, over four decades-worth research, and rich data generated by more than 700 million equipment operating hours," says Patrick Smith, the Director of Business Development at Gastops.

Gastops' flagship product, MetalSCAN, is a state-of-the-art solution that enables real-time prognostics to provide condition-based maintenance management for critical oil-wetted components. Designed to provide operators of engines, turbines, and gearboxes with real-time data on the critical component condition, the technology identifies early signs of bearing and gear wear, which can potentially lead to unplanned events, reduced flight availability, and costly maintenance. MetalSCAN is complemented by Gastops ChipCHECK product which helps pinpoint the



Patrick Smith

exact component generating debris. “With our MetalSCAN and ChipCHECK technology, we help clients maximize equipment availability, reduce risk, carry out predictive maintenance, extend overhaul intervals, predict component life, and avoid costly equipment failures,” adds Brennan West, the Director of defense and Aftermarket Business Unit at Gastops.

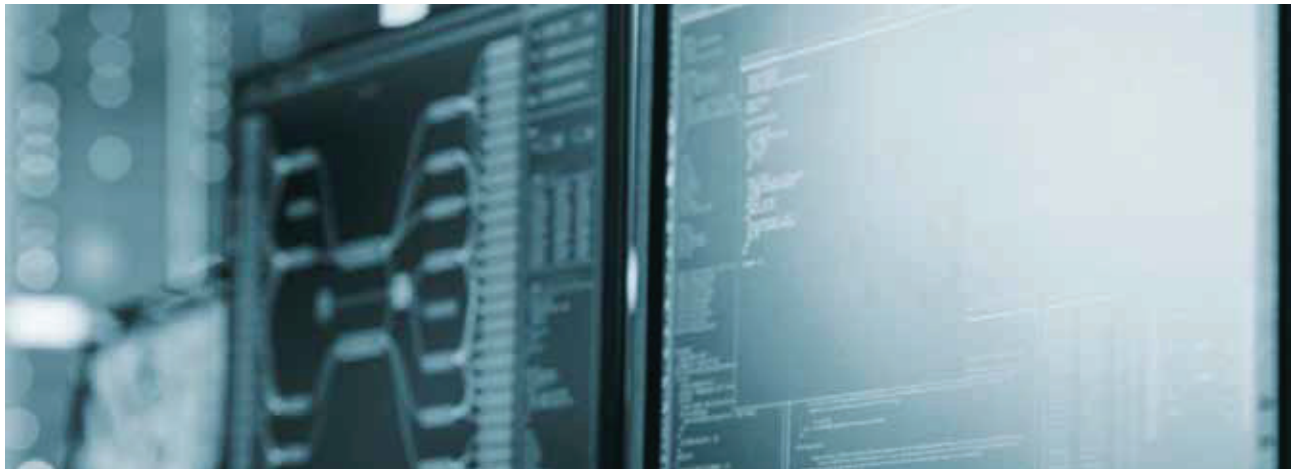
Though condition monitoring lies at the core of Gastops’ business, the company is also appreciated for its prowess and excellence in offering comprehensive MRO services. As Smith mentions, “the origin of our MRO services stems from our expertise in condition monitoring and commitment to fulfill our clients’ need for mission readiness. Having served as a condition monitoring contractor with the Royal Canadian Air Force (RCAF), Gastops identified the importance of being able to repair

procedures, design changes, repair designs, and customer-specific third-line maintenance programs. This way, Gastops serves as an expert set of hands for clients, helping them with real-time recommendations to make the right decision on both condition monitoring and MRO.

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What makes Gastops unique is the customer-first approach that enables it to build a stronger relationship with clients. Dedicated to ensuring their success, the company is now focusing on having the right parts available on the shelf at the right time. Though this sounds simple, global supply chain constraints have emphasized the value of combining the equipment specific MRO experience with condition data to identify the parts most likely to be needed. “It also traces back to our condition monitoring expertise, where we can monitor trends, record and



mission critical components in a timely and knowledgeable manner. The RCAF experience led the company to expand its offerings into aviation MRO services, with a focus on supporting the rotorcraft fleets across the Canadian DND—including, Breeze-Eastern rescue hoists, cargo hooks, and Teledyne FLIR EO/IR sensors in police, search and rescue, military, and public safety applications. “We ensure that our clients are equipped with all components required to fulfill the mission to the fullest,” adds Smith.

To do this, the company goes the extra mile to identify common trends and couple those with customer feedback to develop solutions—ranging from first-line maintenance

analyze data to identify the needs,” adds Smith. Moving ahead, the company is looking forward to achieving both horizontal and vertical growth in supporting its customer base that encompasses several foreign military and paramilitary clients. From a horizontal growth standpoint, Gastops focuses on developing industry-leading services to support Breeze Eastern and FLIR product lines with best turnaround times and cost-effective maintenance. “The next big thing in the horizon for us is bringing more repair designs and installation options while introducing MetalSCAN and ChipCHECK to new and existing military aircraft platforms,” concludes West. [AD](#)