

POCLAIN MAG

#25

March 2026

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 CONEXPO
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Poclain is on the fast track
with the MT motor range



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Editorial

MATT CHRISTENSEN

Vice President Sales – North America



As we enter a year where performance and reliability will matter more than ever, we are fully committed to helping you win in your markets.

As I look back on the past year, I'm reminded of just how much our industry has had to navigate. Economic uncertainty, shifting tariffs, rising energy and material costs, the accelerating transition to electrification, and a world that seems to reinvent itself every few months. None of this has made our work easier.

And yet, in the middle of all this change, one conviction guides me every day: you deserve a partner you can count on.

Since CONEXPO 2023, our teams across the world have poured their expertise, their energy, and their passion into strengthening everything we do for you. We have refined our industrial processes, raised our quality standards, expanded our manufacturing capacity, and improved our delivery performance because we know your machines, your customers, and your reputation depend on it. We made the choice to invest in building a global organization capable of supporting you wherever you operate. And in designing new product lines that respond not just to technical challenges, but to the real world pressures you face in your markets every day.

Today, I am proud to say we have launched eight product lines in just three years. Solutions such as our MT, ML, and HEVO motor ranges address the needs of the machines that feed the world, build homes and infrastructure, power our digital future, and make our cities cleaner and safer. These innovations are the result of a simple belief: your challenges deserve our best.

We are equally committed to the world in which we operate. Achieving ISO 14001 certification is more than a milestone, it is a statement of intent. A promise that the way we design, produce, and support our products will continue to evolve toward a more responsible and sustainable future.

So yes, the world is uncertain. The pace of change can be unsettling. But through all of it, one thing is unwavering: Poclain stands with you, with reliability, with innovation, with the commitment to go further, do better, and support your success, today and for the long term.

Together, we will continue to go beyond.

PH INC ACHIEVES ISO 14001 CERTIFICATION, ALIGNING WITH ALL POCLAIN PLANTS



At the end of 2025, PH Inc. achieved the ISO 14001 certification, concluding 12 months of collaborative effort involving operators, coordinators and senior management. The teams reassessed the plant's processes and procedures through an environmental lens, reviewing energy and water use, waste generation and disposal as well as document control. All employees were trained and involved in building and implementing the roadmap. We spoke to Asa Estvall, Poclain Corporate Social Responsibility (CSR) Director, to see how Poclain Inc.'s ISO 14001 certification fits within the group's broader environmental strategy.

What motivated PH Inc. to pursue the ISO 14001 certification?

At the group level, we were committed to have all our legacy sites ISO 14001 certified, as part of the CSR objectives and the energy and carbon emissions operations roadmap set in 2022.

How does ISO 14001 align with Poclairn's broader CSR and sustainability strategy?

The 14001 certification aims at reducing greenhouse gas emissions and streamlining waste management, as well as mitigating environmental risks. When our CSR strategy was redefined in 2023 it was natural to set the target to have all our manufacturing sites certified 14001. A set framework also helps us to have ongoing actions towards the United Nations sustainable development goal.

In what ways does environmental management contribute to Poclairn's competitive positioning?

Many of our customers ask us to commit to reducing our impact and rate our sustainability using score cards, as we do for quality and on-time delivery.

How do environmental goals fit within the Group's long-term vision?

Poclairn has always cared about its employees and community, it is part of our DNA. Integrating sustainability into our long-term strategy came naturally.

When it comes to our product portfolio, we have relentlessly worked on optimizing efficiency with each new product launch. The top-tier efficiency of our products has a direct impact on the emissions of our customers' IC machines. Our electrification offering, which caters to full-electric and electro-hydraulic vehicles, goes one step further, providing emission-free transmissions.

What corporate-level initiatives or support helped the certification process at the plant level?

Ever since starting the CSR program we have involved the plants in our project, especially regarding climate change. We have trained our site energy champions on climate change and how energy is translated into carbon emissions. Our corporate team of manufacturing CSR champions also regularly review the energy and carbon emission roadmap to ensure best practices are shared between production sites.

How do you evaluate environmental performance at the Poclairn group level?

Our SBTi decarbonation targets and journey were validated by STBi in 2025. We have committed to reducing our scope 1 and 2 emissions by 42 % in 2030 versus 2022. Our key KPI is therefore related to absolute yearly carbon-equivalent emissions. Every year we publish our performance. And our plants measure energy consumption versus machine time. We also track any environmental pollution incidents (gladly we have not reported any lately).

What benefits do you expect, post-certification?

Increasing the competency of employees should yield better energy management. The ISO 14001 certification provides a framework and a methodology to better comprehend the environmental impact of our manufacturing process. The indicators enable us to track and focus on the most important topics, fostering our long-term vision.

How does the certification influence relationships with customers, suppliers, and local communities?

Many of our customers expect us to be certified for all production sites. It is definitely a great step to show that we have taken action. Not all of our competitors are certified for all sites. It is definitely something to be proud of.

As the focus on sustainability continues to increase in the audits - from customers, financial and insurance partners, as well as ISO 9001 - we are proud to lead rather than follow. We believe this commitment supports long-term business performance and benefits our communities.



Asa ESTVALL
CSR Program Director

HIGHER EFFICIENCY, LIFETIME, AND SPEED WITH THE POCLAIN HEVO DUAL MOTOR



MHD09 wheel motor

HEVO

Highlighted on Poclain's booth at Conexpo 2026, the new MHD motor represents a breakthrough in radial piston cam lobe technology.

The new MHD motor is aimed at applications that require high productivity where the motor should run at high speed while providing sufficient torque, energy efficiency and lifetime. It is primarily aimed at tools such as drilling heads, forestry harvesters process rollers and could also benefit trencher, shredder and propel applications that require multiple speed ratios.

The name MHD stands for Motor Hevo Dual. Hevo is the name for the next generation of cam lobe motors at Poclain and Dual embodies the fact this motor has been designed to be a native dual displacement motor with the aim to bring its best performance when operated in its smaller displacement.

With the HEVO design, running in small displacement is much more efficient both at the component and system levels. At the component level, Poclain has reinvented the oil distribution to the radial pistons, greatly reducing the pressure dro at high speeds.

At the system level, operating a motor in small instead of large displacement allows to reduce flow and increase pressure, thus boosting efficiency. For torque peaks the large displacement remains available when needed.

With native two displacements architecture and high efficiency performance at very high power, MHD drives one essential benefit: higher productivity by getting more done in less time.

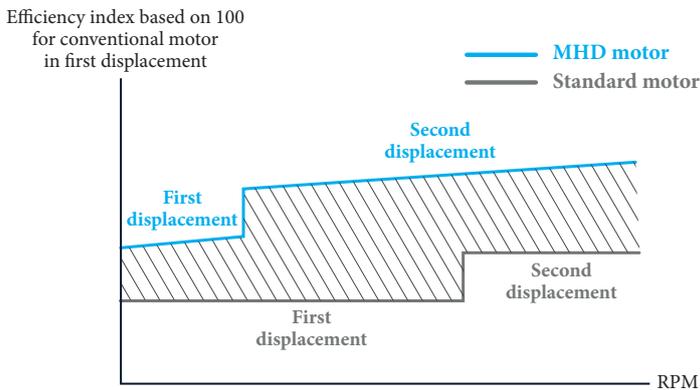




MHD09 hollow shaft motor

Figure 1 illustrates the double efficiency gain of the MHD: the blue curve is above the grey curve since the HEVO motor has higher efficiency than the standard motor, especially at higher speed; and the HEVO motor can work for longer time in small displacement because the lifetime in small displacement is higher. With the new dual technology, all pistons and all cams stay active in the small displacement mode, thus allowing the torque load to be distributed between more mechanical parts compared to Poclair's standard torque module architecture.

Fig.1 Efficiency gains



Likewise the power that can be supplied by the motor stays high in small displacement. These two gains in lifetime and power in small displacement are emphasized in figures 2 and 3.

Fig.2 Lifetime gains

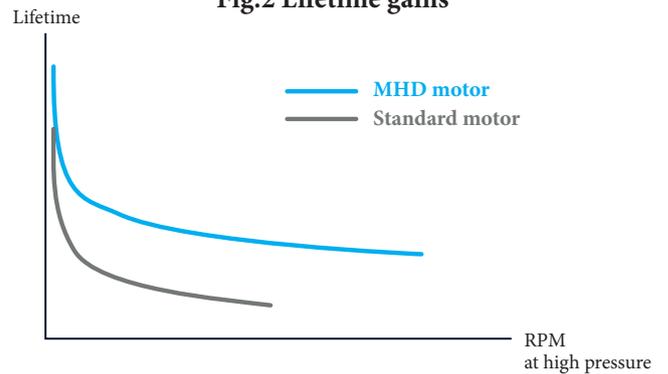
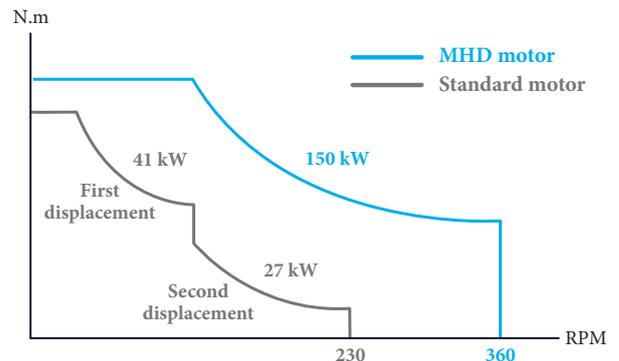


Fig.3 Peak power and speed gains



The MHD09 with a displacement range of 36.7 to 59.7 cu.in/rev. (602 to 978 cc per rev.) will be in series production in the third quarter of 2026 and it is qualified for 150 kW power. It is the first model of a series that should cover more displacements and provide various ratios between large and small displacements.

POCLAIN NEW VALVE GENERATION BOOSTS MACHINE PERFORMANCE

For OEMs aiming to elevate productivity, operator control, and energy efficiency, the valve system is no longer just a component. It is a strategic performance enabler.

Advanced valve design directly impacts efficiency, controllability, and safety in mobile hydraulic systems

In mobile construction equipment, hydraulic valves are far more than mechanical components—they are the intelligent control core of the entire power transmission system. Positioned between the pump that generates hydraulic energy and the actuators that transform it into motion, valves dictate how every kilowatt of power is delivered, managed, and optimized.

While pumps and motors often get the spotlight for output and performance, it is the valve architecture that ultimately defines the machine's behavior: precision of movements, responsiveness under varying loads, multi-function capability, braking quality, and overall energy efficiency. In essence, valves determine how the machine feels to the operator and how effectively it performs on the jobsite.

Today, valves have evolved from standardized parts into high value, application-engineered solutions. As construction machines demand higher power density while facing tighter packaging constraints, valve design has become a decisive lever for system performance and differentiation.

High performance hydraulic valves unlock the full potential of pumps and motors. They ensure the machine delivers smooth, safe, and efficient operation, exactly when and where it matters.

Valve Solutions Engineered for Construction Applications

Poclain Hydraulics offers a dedicated valve portfolio developed specifically for mobile construction machinery, structured around two primary functional areas:

Motion Control Valves

Designed to manage propulsion and tool functions, this portfolio includes traction control valves, freewheeling valves, selector valves, directional control valves, swing drive valves and multifunction valves.

These solutions support smooth motion control, predictable machine behaviour, and efficient power distribution across wheel drives and hydraulic work functions.

Brake Valves

The brake valve range addresses reliable and proven control safety-critical braking requirements of mobile machines. The range of brake valves includes service and parking brake valves, accumulator charging valves, steering assist and trailer braking valves. All those braking related functions are available either in conventional hydraulic configuration or combined with electro proportional controls. These valves are engineered to deliver reliable braking performance, system redundancy, and stable operation under most demanding duty cycles.



Design Priorities for Demanding Duty Cycles

Valve development at Poclain Hydraulics is driven by the operational requirements of construction equipment and focused on three key engineering priorities:

- Low pressure drop, reducing hydraulic losses and supporting higher machine efficiency
- Heavy-duty design, ensuring durability and consistent performance in harsh operating environments
- Compact and modular architecture, enabling flexible system integration and optimized machine packaging

Through application-driven design and close alignment with OEM requirements, valves become an active contributor to machine efficiency, controllability, and reliability.

Explore our Valve Solutions at ConExpo

ConExpo is a great opportunity to review Poclain Hydraulics' valve portfolios and discuss recent developments for construction machinery.

Our engineering and application specialists will be available to support system-level discussions.



Aleš NOVAK
Motion control valves
portfolio manager



Primož PANGERŠIČ
Brake valves
portfolio manager



VB3-00E brake valves

Next-generation brake valve delivering reliable service and parking brake control for safety-critical mobile applications. Reliable and proven VB3 generation products now also with integrated override braking options, increased braking reliability and additional energy efficient EH controls. Another example is the extended performance of our proportionally controlled Parklock, which now also supports secondary braking functions.



High-flow VDF-H15 freewheeling

New higher-flow freewheeling valve H15 with upgraded performance enabling on-the-fly motor (dis) engagement resulting in the most efficient solution.

KV-6/2-25 selector (diverter) valve

Low pressure drop selector valve designed for efficient flow routing and compact integration in multifunction hydraulic circuits (e.g. diverting the flow between track drive and tool drive).



Combo Valve

Single valve block with integrated functions for compact machines: traction control flow dividers, freewheeling, flushing and pilot valve for park brake control.



POCLAIN EXPANDS COMPACT TRACK LOADER OFFERING WITH NEW MT10 MOTOR

As demand for compact track loaders (CTLs) continues to rise, Poclain releases its third purpose-built track motor, the MT10. Integrating Poclain's exclusive duo-cone seal, the motor caters to one of the harshest ground drive environments: tracks.

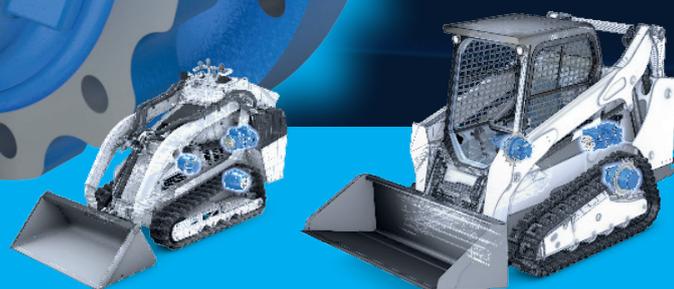
At the heart of the MT motor is a patented duo cone seal setup. Its unique design enables the motor to operate maintenance-free inside the track's highly aggressive environment, while competitor technologies mandate stringent servicing to stay in working condition. Another purpose-built feature of the MT motor is its continuous internal flushing, which regulates its internal temperature. CTLs, with their compact architecture, tend to induce hydrostatic transmission overheating, which results in running in derated mode. With the MT motor, the transmission temperature stays under control and the machine runs consistently at peak performance, without resorting to the derated mode.

Since its development in 2020, the MT motor has gone through rigorous bench and field testing, testifying that it is fit for the CTLs' demanding environment.

With a displacement of 85 cu.in per rev (1,400 cc), the MT10 motor targets the largest CTL models weighing over 10,000 lbs (4,535 kgs). It completes Poclain's CTL motor lineup, which now includes three sizes:

- MT02: 24 cu. in./rev (398 cc)
- MT07: 56 cu. in./rev (920 cc)
- MT10: 85 cu. in./rev (1,400 cc)

The MT07 motor is available in series production, while sizes 02 and 10 are available for customer prototyping.



Key features of the MT series include:

- Outstanding power density with the Poclain High Performance motor configuration
- 1.5 speed ratio that matches work and travel speed requirements
- High bearing capacity
- Perfectly balanced design, with track and chassis mounts positioned close to the centre of gravity
- Compact envelope
- Equal performance in forward and reverse
- High-capacity brake, capable of withstanding 100 dynamic brake applications
- One single part number for left and right setups
- Choice of axial or radial ports

With the MT series, OEMs can provide compact track loaders that stand out in the market, offering contractors and operators a high-performance, maintenance-free, and reliable ground drive solution.

MT02 and MT07 motors



POCLAIN DATA SCIENCE TEAM ENHANCES DRILL TO HORIZONTAL DIRECTIONAL DRILL PERFORMANCE

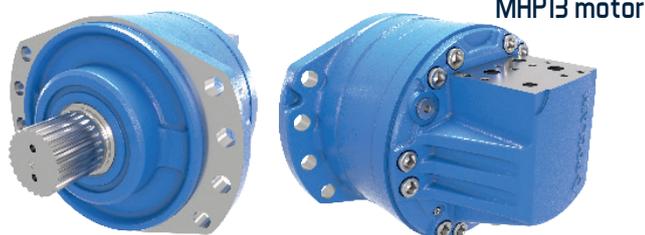


At a time when component sizing and fuel efficiency are under close scrutiny, instrumenting a machine transmission with sensors to analyze its inner workings is an eye opener. Drillto, a China-based horizontal directional drill manufacturer using Poclairn motors, set out to resolve the vibrations and noise that occurred during gear shifts and at motor startup. They turned to the Poclairn Data Science & IoT team - and the results were striking.

Diving into the intricacies of horizontal drilling

Horizontal directional drilling is a particularly challenging application, as each phase - thrust, pull back and rod fastening/unfastening - affects the drill head motors differently. Drillto knows this well. With 25 years of trenchless expertise and a machine offering ranging from 6 to 1200 tons, the OEM has integrated hundreds of Poclairn motors into their drillheads. With the goal to optimize their power transmission, Drillto chose to instrument one of their machines, the ZT42, equipped with two-speed MHP 13 motors for drill head rotation.

To ensure an accurate and comprehensive diagnosis, speed, temperature, pressure and position sensors were installed at strategic points on the machine, alongside a databox which collected and sent the data in real time to Poclairn's Data Science Team.



Off the radar issues revealed

Data was collected over three months, then cleaned up of irrelevant readings, and broken down to identify patterns for each drilling phase. The Data Science Team's analysis revealed that there were pressure and temperature peaks when the machine was operating in extreme conditions.

Armed with these insights, Poclairn's Data Science team traced the root cause of the vibrations and noise. These findings are now enabling Drillto to fine-tune its transmission components and settings—boosting efficiency and reducing the drill's carbon footprint. Poclairn's Data Science & IoT team can support OEMs in their transition to e-vehicles, pre-production troubleshooting and performance enhancing developments.

POCLAIN AND CHUANGYUAN HIGH-TECH CO-DEVELOP GROUNDBREAKING INTELLIGENT MINING EQUIPMENT



On the map of China's intelligent mining equipment sector, Hunan Chuangyuan High-Tech Co., Ltd. has established itself as a recognized leader, investing heavily in research and development and selling overseas. Chuangyuan High-Tech recently launched a blasthole drill specifically designed for intelligent mining. Achieving a 50% efficiency increase at an altitude of over 5,000 meters on a snowy plateau, it has reached a new milestone in China's mining equipment market.

Beyond providing the components to drive Chuangyuan High-Tech's intelligent blasthole drill, Poclain took part in the machine's cutting-edge design and enabled it to soar above the competition.

Their collaboration began in 2015 with a raise boring machine project and has moved on to overcoming the technical challenges of the blasthole drill. A decade of common projects has fostered trust and enabled both companies to build on each other's technical expertise. Together they have set new standards for Chinese mining equipment in terms of reliability, intelligence, and adaptability to extreme working conditions.

Mr WANG
Vice-President of Technology
at Chuangyuan



A decade of joint development

In 2015, addressing the stringent requirements of raise boring machines with high-torque motors, Poclain provided a solution involving customized hydraulic motors and freewheeling valves. This solution was successfully applied across Chuangyuan's full range of raise-boring machines, with diameters from 1 to 8 meters. The motors have proven to be extremely reliable over the years. Thus, Poclain evolved from an international brand into a trusted engineering partner for Chuangyuan's technical team.

Strategic breakthrough: co-creating the benchmark blasthole drill for intelligent mining

When Chuangyuan, drawing on its extensive retrofit experience, resolved to develop a new generation of blasthole drills, working with Poclain motors was a given.

"For the key rotary drive, reliability and technical synergy capability were our primary considerations," states Wang Feng, Vice-President of Technology at Chuangyuan. "Poclain's motors not only have a high-performance baseline, but more importantly, their engineering team engaged in deep collaboration with us to maximize efficiency, reviewing and optimizing the solution from the design phase."

Poclair hydraulic motors offer significant advantages in structural design. Their high power density and compact design provide greater flexibility in equipment layout, enabling the rotary system to deliver high power output in a compact envelope. Simultaneously, the motor employs a direct drive solution without a gearbox, which not only offers higher transmission efficiency but also achieves maintenance-free operation, significantly reducing the total lifecycle maintenance costs. Its unique cam lobe structure can handle demanding conditions such as rapid change of rotation direction and high-impact loads.

Yin Qianshen, Dean of the Research Institute, sees additional benefits: *"the sustained reliability of Poclair motors under extreme conditions, along with flexible designs like modularity and hollow shafts, provided strong support for our rapid machine iteration, truly achieving seamless integration of technological innovation."*



Mr YIN
Dean of the Research Institute

The co-creation yielded remarkable results: Poclair MS83 and MS50 motors are standard in the rotation systems of all Chuangyuan blasthole drills. From project launch in 2024 to series production, the two engineering teams collaborated closely, taking only eighteen months to successfully introduce the CY-IDR series, available in multiple power configurations including electric, diesel, and hybrid. The rotation system of the series delivers outstanding performance, with a maximum speed of 145 rpm, an output torque of up to 35,000 N.m, and a rated power of 220 kW.



MS50 and MS83 motors

With a machine weight range of 40 to 178 metric tons, the equipment operates in extreme temperatures from -40°C to 50°C and easily handles Protodyakonov rock hardness levels F4 to F20 (UCS 40 MPa to 200 MPa). This makes it a reliable and powerful solution for complex mining conditions in China and around the world.

A Milestone Achievement on the Roof of the World

The first benchmark project for Chuangyuan's blasthole drill was chosen at the Tibet Julong Copper Mine, situated over 5,000 meters above sea level. Here, the equipment faced multiple challenges: high-altitude hypoxia, extreme temperature variations, and complex geology. Relying on the stable hydraulic drive system co-developed with Poclair, along with core technologies such as the world's first hybrid infinite travel and AI intelligent drilling, the Chuangyuan drill not only operated reliably but also carried out unmanned high-altitude operations. The miners were able to remote control from the plains away from the mine's extreme conditions, improving efficiency by 50% compared to traditional equipment.

"This is not only a victory for technology but also a victory for our operator-centric philosophy of moving miners from the plateau to the plains," said Mr. Wang, Chairman of Chuangyuan. *"It is because we have trustworthy partners like Poclair that we can operate our machines in extreme working conditions with full confidence in the reliability of our drive components."*



Mr WANG
Chairman of Chuangyuan

Beyond the supply chain: strategic alignment centered on the customer

The deeply ingrained customer-first philosophy is another crucial cornerstone of the partnership. Chuangyuan established a unique Chairman's Hotline to ensure the most urgent customer voices reach the decision-making level directly. This philosophy aligns with Poclair's customer-centric vision.

In order to fulfill one of Chuangyuan's urgent orders, Poclair's China and France teams coordinated to optimize production and logistics, ensuring the critical motors arrived on time. This goes far beyond a simple buyer-seller relationship, highlighting Poclair's supply chain resilience and rapid response.

From customized support to strategic co-creation, from product empowerment to ecosystem building, the collaboration between Poclair and Chuangyuan is a model of global technology and localized innovation. On the journey of Chinese mining equipment running on the world's highest peaks, Poclair always proceeds with product excellence as the engine and customer success as the coordinate, marching forward shoulder to shoulder with like-minded partners.

POCLAIN PROPEL SOLUTIONS POWER THE NEW GENERATION OF COMPACT FIRE FIGHTING ROBOTS



Fire fighting and emergency robots have moved from pilot projects into mainstream deployment, accelerated by policy support and the rising frequency of high risk events. Rugged, nimble and dependable in the most extreme conditions, they can supplement or fully replace human work in hazardous environments. Known for their reliability, precision and compact envelope, Poclair transmissions have already been chosen to equip fire fighting robots around the world.

Compact Power, Precise Control, Continuous Duty

The Poclair PM10/PM20 tandem pump and the MS high-torque radial piston motor are the perfect match for fire fighting robots - a combination engineered for tracked mobility, precise speed control, and reliability.

- High mechanical and volumetric efficiency improves system efficiency and reduces heat, a key benefit for long missions in confined and high temperature environments.
- High working pressure and torque density provide tractive effort for climbing, debris pushing, and hose towing on steep, rubblestrewn sites.
- Wide speed range with dual displacement supports creep for reconnaissance and transit speed between work zones, with integrated parking for safe operation.
- PM pumps (PM10: 7–21 cc; PM20: 21–28 cc) offer electroproportional control for autonomy and teleoperation, tandem configurations, and integrated charge circuits for cavitation-free closed loops. proportional free closed loops.

A rugged Fire Fighting Robot with Integrated Poclair Transmission

In 2023, a North American fire fighting robot OEM sought to reduce size and improve efficiency on a dieselpowered tracked platform capable of stair climbing, door breaching, zero-turn maneuvering in tight stairways, and delivering high water flow equivalent to multiple operators on a hose line. A more compact, integrated transmission was essential.

The OEM chose Poclair's solution:

- PM10 tandem pump to optimize package size and deliver precise closed-loop control;
- Two maintenance-free MS02 two-speed motors with integrated brakes, replacing an in-house braking concept and simplifying manufacturing and upkeep.

Performance gains: Lower circuit temperatures through high volumetric efficiency, improved low speed manoeuvrability, integrated hydraulic braking, and robust two-speed capability for versatility.

Outcome: The integrated Poclair transmission made the robot more robust, simplified production and maintenance, and improved operational performance, while keeping the system compact and mission-ready.

Autonomous agricultural robot project

A recent autonomous agricultural robot project demonstrated that the Poclair transmission was the ideal to preserve terrain, drive precisely in narrow crop rows, and climb 45% slopes at controlled speeds. The transmission and its benefits relate directly to compact fire fighting robots where light weight, precision, and autonomy are critical.

Solving Track Drive Synchronization Reliably

Left/right synchronization can be an issue on tracked robots, causing the vehicle to drive erratically and increase thermal load. The Poclairn transmission addresses this at three levels:

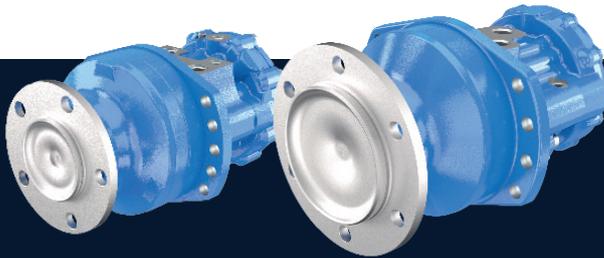
1. Hydraulic symmetry: Matched PM pump sections with equivalent control maps and balanced charge circuits reduce drift and differential pressure.
2. Motor valving: Motor dual displacement is synchronized to mission mode (low/high) and the integrated brakes stabilize transients during stop/start cycles.
3. Smooth braking: with electronically controlled pumps, brake application and release is smooth, preventing rebound, jerks and rollbacks on slopes.
4. Electronic control layer: Electroproportional control of each loop, closed loop speed sensing on motor and software bias/trim ensure straight tracking under load, with failsafe braking if energy is lost. This is key for autonomous and teleoperated robots proportional loop speed sensing motor safe.

Why chose Poclairn for fire fighting and emergency robots

- All-terrain precision: The transmission enables to drive in confined spaces and slopes above 45% at consistent speeds; it preserves ground integrity and enables precise path following.
- Efficiency at scale: Our camlobe radial piston design delivers high efficiency and smooth low speed operation, limiting heat during extended missions.
- Control flexibility: the PM pump supports mechanical, servohydraulic, and electroproportional controls, plus a tandem setup for tools and ancillaries.
- Global support network: Operations across three continents with research and development, plants, and sales subsidiaries—ensuring technical support and rapid supply wherever you operate.

Whether you build smoke exhaust robots for tunnels, fire suppression units for petrochemical plants, dewatering robots for flood control, or wildland firebreak robots for mountainous terrain, Poclairn's compact transmissions deliver the torque, controllability, and endurance your mission requires—from 2 ton microplatforms to 5 ton heavyduty robots.

MS02 and MS05 motors



PM10 and PM20 pumps

Our specific offer: complete propel solutions for robots up to 5 tons

We cover the full range of small to mid-size fire fighting robots with a transmission offering that adapts to your chassis, control type, and duty cycles.

	WEIGHT CLASS			
	Up to 2 tons	Up to 2 tons 4WD	1.5-3 tons	3-5 tons
Typical use	Reconnaissance / fire fighting robots	Fire fighting robots / microcarriers and multitool platforms	Pumping, dewatering and smoke exhaust robots	Wildland firebreak robots
Pumps	PM10 tandem configurations for fine control and autonomy-ready closed loop circuits	PM20 tandem set for higher flow on small carriers	PM10 tandem configuration for fine control and autonomy-ready closed loop circuits	PM20 tandem pumps with flushing option for continuous duty
Motors	MS02/MSE02 with integrated brakes and dual displacement		MSE02 with integrated brakes and dual displacement	MS05/MSE05 for high tractive loads and endurance

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