



Building exceptional People-Products-Place-Partners

yorkpmh.com

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NEWS

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“Golf is a game of precision, not strength.”—Jack Nicklaus

This Quarter's theme:
Products and Precision

Around YPMH Highlights

- Employee Activities and Outreach
- Team Member Updates

Our Products and Services

- Hydrovision
- Key Points on the BearLoc®

Supplier Highlights & Quality Corner

- Shout-out to Our Vendor of the Quarter
- Quality Corner Feature



Hydro-Control

Superior Safety & Performance

York PMH and Waterpower **Hydrovision 2022**

By Michele Baker-Thomas, Business Manager

It was a privilege and pleasure to be invited presenters at Hydrovision 2022 in Denver, July 13-14.

Safety and performance are vital in this industry. Rest assured, like golf legend Jack Nicklaus, this crowd knows and appreciates precision in design and execution.

Serving the waterpower community, *HYDROVISION* International is the largest gathering of hydropower and marine energy professionals in the world. We met with engineers from utilities, design firms and related services as well as government programs, including the US Army Corps of Engineers. We are not as well known in this sector as we'd like to be, so we welcomed feedback and questions.

Our display featured a poster speaking to challenges this sector faces, and the ways that our Bear-Loc® fail-safe load holding and locking for hydraulic systems could solve those challenges.

Here's a recap from the attendees' perspective.

CHALLENGE: *Cost of aging equipment, water surge risks, maintenance downtime*

These are costly issues. Moreover, many dams and hydro-control systems have reached an age that is making replacement or refurbishment a necessity. These systems were built with older technologies that can be replaced with newer technologies and designs to provide higher safety and performance.

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One such design aspect is hydraulic load holding. Many attendees acknowledged the need for safer alternatives. They were intrigued with Bear-Loc's unique design. Once they understood how it functioned—instantly locking when hydraulic pressure is removed, and freely operating when pressure is applied—they appreciated how [Bear-Loc®](#) could optimize generation control system performance, reduce turbine maintenance costs, prevent revenue losses due to maintenance downtimes, and extend service life of equipment investments. More dollars saved, more dollars earned!

CHALLENGE: *Lost generation potential and revenue due to limited control of gates and valves in managing water flow rates for electric generation.*

As power plants modernize control systems, they have the potential to rapid flex due to the demand for power. But what if their physical infrastructure—gates, for example—have limited positioning capability? Bear-Loc® allows for infinite positioning, so that gates can be held securely in any position.

CHALLENGE: Hydraulic system failure in a water control system has the potential to cause injury and catastrophic damage to human lives, entire communities, infrastructure and equipment. Debris strikes create further risk. Engineers have a vested interest in developing safe, reliable hydraulic systems with fail-safe locking devices to minimize adverse effects in daily operations or during natural disasters and emergencies.

Attendees appreciated the way [Bear-Loc®](#) can prevent sudden and excess flow that can be caused by hydraulic pressure loss to prevent flooding. For example, crest gates control water flow rates. Bear-Loc® ensures that the actuator can remain locked even if debris compromises pressure, damages hydraulic fluid lines, load holding valves, fittings or other fluid power parts. Instant automatic locking maintains gate position, ensuring that no flooding is introduced due to equipment failure or pressure loss that could cause gates to lower unexpectedly. In short, Bear-Loc® adds a fail-safe measure that load holding valves cannot provide.

CHALLENGE: *In hydraulic systems controlling Movable Bridges, Canal Locks and Lift Safety Locks, a system failure could cause unexpected motion, potentially leading to catastrophic loss of life and property damage.*

[Bear-Loc®](#) is a fail-safe, efficient and durable rod locking device that can prevent unplanned movement, help protect property and save lives.

During the conference we had the opportunity to meet other partners in some upcoming dam-related projects that have already specified Bear-Locs in their designs.

In addition to presenting, YorkPMH President Dan Baker also provided a technical paper titled "Assessing Hydraulic Load Holding Solutions for Hydro Control Applications". If you would like a copy of Dan's paper, email me at mbaker@yorkpmh.com.

Learn more about our hydrocontrol capabilities



Quality Corner

By Jeff Shellenberger, Quality Manager

Who ya gonna call?

We recently received an extremely urgent order concerning public exigency from the U.S. Air Force. We needed to deliver, and we needed to do it fast! One of the many great things about York Precision is that we have strong partners that put us on top. So, who did we call? The Flinchbaugh Company, Inc. A company built on a reputation for quality and precision, as well as an unwavering commitment to exceeding the expectations of its customers. We value happy customers and vendors, sharing in meaningful *communication, appreciation, and success*. This is how we deliver quality products.

products.



44 Years of Service

Dennis Goulden started as a Shipping Manager at YPMH in 1978 and eventually worked his way up to vice president. In 1993, Dennis became co-owner of the company. He eventually decided to step down to the position of General Manager in 2011.

Dan Baker, owner of York Precision Machining and Hydraulics, is pictured with Dennis. Dan bought the company in 2018 and Dennis played a crucial role in showing Dan the ins and outs of the company, including details on products and jobs in the works.

Dennis is a problem solver that loves to help people and share his knowledge. Having been in nearly every position at the company throughout his career, he is fondly known as "the legend". He is a teacher, a mentor, and the go-to fix-it guy.



(Dennis Goulden holds a recognition plaque signed by all the employees. Dan Baker holds the cake that we shared during the recognition event.)

Even though he is only very part time with us now, he made sure to let us know that he is only a phone call away should we need his help. Thanks, Dennis, you're the best!



Our Newest Team Member

Welcome to YPMH! Please welcome our newest intern-turned-employee, Lakota! As our newest machinist, Lakota graduated from York County Technology for this study. His schooling provided him the background knowledge needed to thrive in our workplace. He enjoys learning how to make different parts at YPMH, and he likes the people he works with in our shop. As a machinist, Lakota makes sure that the parts are quality, the measurements are good, and he checks the blueprints to ensure the parts are on spec. In his spare time Lakota works on his family's farm. He also enjoys fishing largemouth bass and trout, sprint car races and hunting. Thanks to CareerLink/Equus for introducing us to Lakota through their internship program!

Employee Activities and Outreach

We Value the People in Our Workplace!

Our mission emphasizes trust and respect. We are also a work hard play hard culture, as these fun photos clearly illustrate!



Pizza Party from Sahd Metal

Sahd Metal Recycling threw us a pizza party last month!



Sand metal recycling threw us a pizza party last month! We participated in their "Comfortable Being Uncomfortable" contest, and won a special pizza party! This was so much fun and we are so thankful to Sahd for taking good care of their customers, like us!

Name that Plane

Our Engineering Manager, Robert Tafel, entered a contest called "Name that Plane" in Aerospace Manufacturing and Design Magazine. As the first correct name chosen in their contest drawing, he was the recipient of this beautiful model of the Grumman F-14A. Rob became interested in aircrafts because his father and uncle served in the military during World War II, and as a child he became interested in the aircrafts used during this time. Rob's favorite aircraft is the Lockheed SR-71 Blackbird. He notes this plane and its abilities were a unique engineering achievement when the plane was originally designed and developed.



Cinco De Mayo at YPMH

We had a great Cinco De Mayo Celebration this past May! We learned about the history of Cinco De Mayo, ate tacos, and played games! Some of our team members got together for a photo during the event. It was a beautiful day for a team celebration outdoors!

Cinnamon Buns for Everyone

One of our Project Managers, Marcel van Niekerk, brought us Cinnamon Buns from his wife's coffee shop called Ikigai Coffee in Hanover, PA! These were the perfect breakfast for our team. Little things like this make our work days special. We appreciate you, Marcel! Teamwork is one of our core values, and sometimes it is the little things that make a difference overall.





US Navy Pilot Project

We were pleased to participate in the US Navy's pilot project for our region, the PA Talent Pipeline. YorkPMH was among over 20 manufacturers participating. We were represented by our business manager, Michele Baker-Thomas (seated second row, second from left).

YPMH Backpacks and Apparel

Our branded YPMH logo-wear is very popular amongst our team members as you can see from this photo: one of our employees fishing with his grandson. This photo speaks volumes, doesn't it? At YPMH, we value work life balance. We know it is immensely important for our employees to have time with their families, vacations, and time off when needed. We also have a 4-day work week (Monday through Thursday) which our employees enjoy. A 3-day weekend is something great, that's for sure! Employees are proud to wear these items and say they work at YPMH. We love to show off YPMH and everything that makes it special, whether at work or at home (or on vacation)!





Bear-Loc® video - superior hydrocontrol

Important key points on our Bear-Loc®:

(Pictured above are four BearLocs on the hydraulic actuators shown in the US Army's new hypersonic missile launcher.)

Bear-Loc® offers a unique set of benefits that translates into game-changing safety and revenue-enhancing performance:

Fail-safe Load Hold Indefinitely — No Drift

- Ø Prevents catastrophe: Pressure loss = locks/holds load instantly
- Ø Infinite positioning: hold in any position as long as required; no drift
- Ø Longer life cycles, higher revenues: Prevent equipment damage, costly downtime

No Human Intervention Required

- Ø Real time power balancing: precisely adjust single, multiple turbines—any flow rate
- Ø Fail-safe & long-lived in environments inaccessible or unsafe for humans

Marine and Subsea Performance and Reliability

- Ø Durable in harsh marine, subsea environments
- Ø Long-lived and reliable: minimal wear, moves freely when pressure is applied
- Ø High system stiffness

Enormous Load Capacity: 4 million pounds+

Ø Bi-directional locking

Ø Versatile design options

[CONTACT US](#)

Using **Bear-Loc in Hydro Control Systems** provides precise control of turbine speeds and the rate of power generation.



Supplier Highlights

This quarter we highlight a supplier who went above and beyond requirements to provide excellent service. Thank you! We value your partnership!





It is always refreshing when our suppliers align company values with us, and this is certainly the case with our highlighted supplier this quarter, Sahd Metal Recycling, located in Columbia, PA. Both of our companies share the same core values that focus on people, workplace culture and excellent service.

Scrap is formed as we do precision machining of metals (e.g. aluminum, bronze, copper and steel), especially on large parts. Sahd picks up and recycles the scrap metal shavings created from grinding and machining these parts .

Sahd Metal's three customer promises include: service within 24 hours of notification, upfront formula pricing, and interactions with integrity and honesty. We always know the value of our metal with Sahd, and payment is prompt. The process of dropping metal is straightforward and convenient. They have a wonderfully clean and neat facility, so our trucks don't ever have to worry about their tires being punctured with metal during a drop off. We have tried various other metal recycling providers throughout our years as a company, but our partnership with Sahd has truly stood out and we couldn't be happier.

Lastly, they treat their customers with special contests, events and prizes, which of course, we appreciate as one of their customers. They focus on fostering relationships and partnerships that are meaningful and have a truly positive impact for all involved.

It is our pleasure to spotlight Sahd Metal Recycling! Frankly, they are something special. Check them out online at <https://recycleyourmetal.com/about/> or visit them at [1045 Lancaster Ave, Columbia, PA 17512!](#)

Wishing you and yours a fun and safe vacation season!



- The York PMH Team



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