HYDROMAT CORPORATE PROFILE







COMPANY PROFILE

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OUR MISSION CUSTOMER SATISFACTION

hen the first Hydromats were produced here in 1979, the fact that they represented gamechanging technology was not enough to ensure their widespread success. This new technology deserved an organization that became and still remains the heart and soul of our machines.

Hydromat is a team of professionals who embrace our culture of quality, precision, and order, all channeled to one goal: understanding and meeting our customer's production needs with innovative and flexible transfer solutions, and to do it in a way that achieves high customer satisfaction.

The Hydromat Way puts the customer first and does so by demanding excellence from our team and providing the facilities and resources to achieve it. It didn't take long for our first few groups of apprentices and associates in the early 80's to understand that Hydromat wasn't just another company. More was expected of them and they responded. Many of them and the groups that followed in the 90's and 2000's are still with us in expanded roles and they carry on our principles to our current class of apprentices and others new to the company.

Over the years our embrace of TQM, ISO 9001:2015, 6S, and Lean Manufacturing have all been about incremental improvement and unleashing the power of teamwork in creating the finest transfer and mill/turn machines on the market today. Our team shown below is made up of highly skilled individuals, who are dedicated to the Hydromat mission to offer precision machining solutions which provide our customers with unsurpassed quality, reliability, and productivity. We have the experience and the mind set to be your trusted partner. Come visit us and see for yourself that we're a different kind of machine tool company – the kind that can deliver on its promises.

Committed to Excellence,

Your Hydromat Team



OUR LEADERSHIP

LEADERSHIP MEET OUR TEAM

Bruno Schmitter CEO / COB

"I am the "promise keeper" of our organization. I stand behind every piece of equipment we build and I make sure it exceeds our customers' expectations. I ensure that our team has the tools to do the job right and to set ourselves apart from the competition."



Matthias Walter President / CSO

"As your sales professional, I pride myself in my ability to assess your machining needs and then create the best solution for your future production. I strive to offer you the finest machine tool for your needs, the one that will make you competitive in your marketplace."



Dylan Schmitter Vice President of Operations

"I believe the company must continually invest in its people and provide them the technologies that drive innovation, productivity, and cost containment. I'm focused on developing Lean thinkers and doers because great processes result in satisfied customers".



Rob Luth Chief Technical Officer

"Hydromat provides expert engineering, design, and build capabilities, developing great machines and processes for our customers. We continue to stay on the leading edge of new technologies, allowing us to provide our customers some of the most productive machine tools available."



Joe Skorcz Vice President of Customer Service

"Here at Hydromat, Customer Service goes well beyond the walls of a "Customer Service Department". Service is an ingrained culture which is embraced organization wide. Being the OEM, we pride ourselves in delivering quick, reliable solutions from our many years of experience. When you contact Hydromat's Customer Service, know you have the whole company's support"













The Hydromat Campus

We are proud of our products, our people, and our position as the industry leader in precision transfer machine technology.

Come visit us. See why Hydromat is your Flexible Solutions Partner.

Visit us. See firsthand the quality that is built into every machine. Tour our modern, 6S inspired plant and meet the skilled craftsmen as they apply their trade.

We're located just 10 minutes from the Lambert-St. Louis International Airport. Call ahead for our private airport shuttle service. We can also make reservations on your behalf at any one of several fine hotels in the immediate area.







committed to Excellence. You see these words everywhere on the Hydromat campus. Emblazoned on the wall in the assembly area, on letterhead, in our sales literature...it's everywhere. But it's not something we take for granted or take lightly. Striving to do the job right the first time is at the very core of everything we do at Hydromat.

From the way we answer the phone, to the engineer's drawing, to the welder's arc, to a meeting with the president of the company...everyone pulls together for a common goal.

That common goal is to maintain our position as the world's finest manufacturer of precision transfer machines, period.

Hydromat's Competitive Advantage

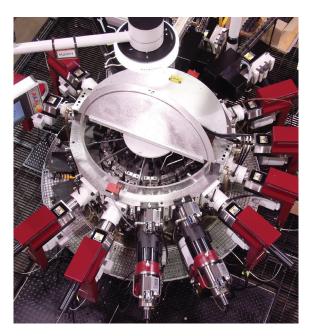
lobal production supply chains demand reliability, flexibility, and, most of all, productivity. Hydromat embraces these principles with their ICON line of CNC multi-station machining centers and the renowned EPIC II & EPIC HF rotary transfer machines.

How does Hydromat equipment achieve unparalleled cycle times and quality consistency? Multi-tasking and the flexibility of multiple stations give us the ability to finish a complex part in one chucking or one presentation to the machine.

Hydromat's famous EPIC platform offers excellent flexibility due to the modularity of equipment and the ease at which the machine can be re-configured for similar parts or part families.

Multi-tasking in most machines means two tools in the cut with two stations, a main and a sub-spindle. With an EPIC II or EPIC HF Platform, it's *extreme multi-tasking*, employing up to 16 horizontal stations and as many as eight vertical spindles to achieve up to 24 tools in the cut simultaneously. That's the ultimate in multi-tasking.

The ICON machining centers are the epitome of the term "total flexibility", each of the four or six machining stations operates like single-spindle machines, but with the ability to transfer the work piece from station to station. In-process operations such as robotic A/B loading and gauging are easily integrated.













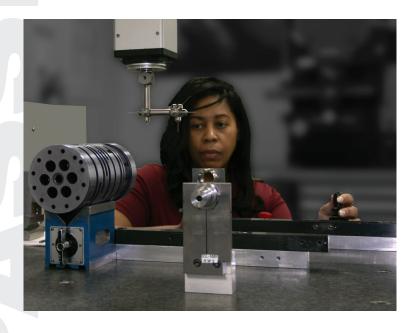
The Hydromat "Heart"

The heart of every EPIC, ECLIPSE or ICON machine is not cast iron and tool steel. It's not hydraulics or state-of-the-art CNC controls.

At the heart of every machine is Hydromat's people. Engineers, Technicians, Administrators, Apprentices, Welders, Shipping & Receiving... everyone with a job to do to ensure that every Hydromat machine will function beyond the expectations of the customer.



UNSURPASSED QUALITY



Since we were first certified in 1997, ISO 9001:2015 continues to serve as our standard of operation. It is, however, lean manufacturing's process driven approach to continuous improvement and 6S's emphasis on cleanliness, order, and front line ideas that differentiate us from other machine tool builders.

vehicle to make quality a habit.

Aristotle once said "Quality is not an act. It is a habit." We live by these words at Hydromat and use the principles of 6S and Lean Manufacturing as our primary

With 40+ years of success at Hydromat, quality is not simply the act of establishing or directing standards; it's our way of life.

Our focus on building the highest quality machines in the industry culminates in the machine qualification procedure. First we perform a twelve-hour coolant-on dry run testing of basic machine function. Then we tool the machine, prove out the first piece, and follow with an internal four-hour simulated customer runoff and capability study. The final step is to perform the actual customer runoff to their exact criteria and satisfaction.

The greatest quality system in the world is useless without skilled people to do the work. That is why we put so much emphasis on training and retention of top technical talent, as well as our commitment to the finest and longest ongoing machine tool apprentice program in the U.S.

Accredited by the U.S. Department of Labor in 1983, our three and four year apprentice programs are recognized and singled out by the National Tooling and Machining Association (NTMA) and why we are a credentialing body of the National Institute of Machining Standards (NIMS). The bottom line is that Hydromat is committed long term to North American manufacturing and maintaining a world class workforce to support its customers.







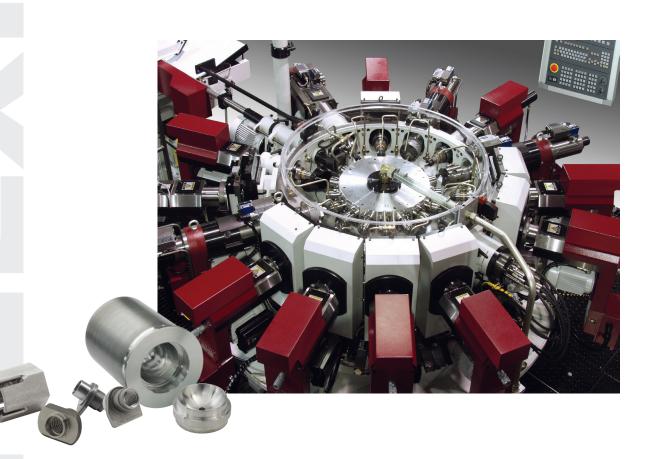


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The Hydromat Principle

Hydromat integrates simplicity, modularity, flexibility, and efficiency into turnkey machining solutions. The results are superior productivity, measurable consistency, exceptional quality, and uncompromising reliability.





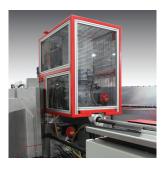
he new Eclipse 12-100 is a ground-up redesign of the famous Hydromat concept with all new components. It features a heavy duty cast iron machine frame that is 2m in diameter, nearly twice as large as the traditional 12 station Hydromat machine.

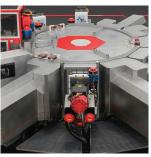
This machine platform offers multiple tool spindles in a single footprint integrated with one chip management & coolant system.

Robot load/unload with auto inverting offers six-sided machining capability on both bar and blank loading applications.

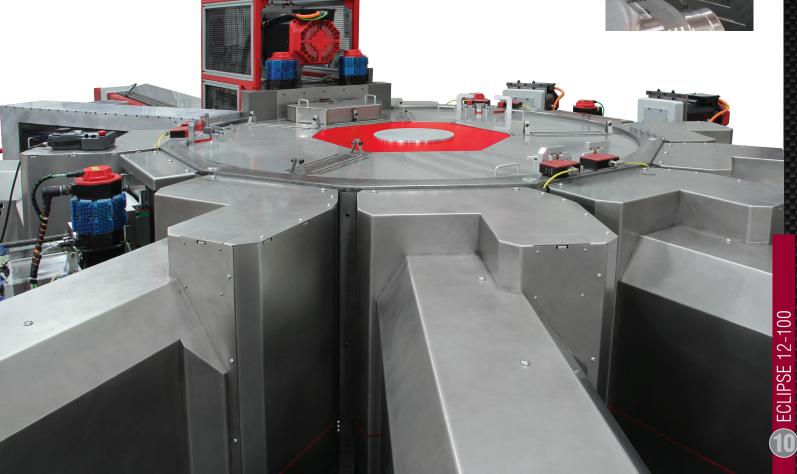
Each of the 12 tool spindle modules features 3-axis or 4-axis capability with all electric servo spindles and high-tech components such as heavy-duty linear guideways for high accuracy, and large bearing diameters for extra stability, that yield smoother cutting at higher speeds. The Eclipse CNC control has fixture mapping capability for exceptional station to station accuracy. Designed to be exceptionally rigid, these modules were designed with hefty castings for superior vibration dampening properties and maximum precision.

The Eclipse offers a high degree of machining flexibility derived through engineering expertise coupled with a visionary concept, the type of creative thinking that has produced this superior Rotary Machining Center for small to large batch production.













ydromat's objective was to develop a full CNC technology to meet lean manufacturing objectives with outstanding productivity. With these requirements in mind, a team of Hydromat design engineers developed a line of machines that provide full CNC capabilities for short or long production runs.

This new iteration of the EPIC platform boasts advancements such as enhanced operations, production reporting, down time analysis, trouble shooting, and preventative maintenance interval scheduling. features, These others, will yield improved part setups, changeovers, process tooling development, integrated and tool monitoring. An upgraded servo control features absolute positioning, and a more efficient architecture that reduces failure points.

The EPIC II is a rotary transfer solution specifically made for advanced production solutions in the future.

Control Benefits & Operational Features

- Improved accuracy with absolute positioning which eliminates need for unit home prox
- Replacement servo valves can be locally configured and programmed on the machine and does not require Hydromat assistance



- Expanded canned cycle selections to generate programs faster and easier
- Enhanced operation, trouble shooting, and pm intervals
- More standard CNC controls for improved part set-up, change-overs, and process tooling development
- Integrated tool monitoring



FLAGSHIP MACHINE SERIES

The Hydromat EPIC HF FANUC line of rotary transfer machines can be equipped with collets or chucks for precision metal cutting. This exceptional design is a modular system consisting of horizontal and vertical toolspindles mounted around a precision cast base.

All machines use the FANUC 30i-B as a controller option. A control known, used, and trusted industry-wide by many bestin-class machine manufacturers.

FANUC Control Benefits & Operational Features

EPIC HF FANUC machines utilize 12 or 16 horizontal machining stations and have the available capacity of six vertical tool spindles on a 12-station machine and eight vertical tool spindles on a 16-station machine.

EPIC HF FANUC Trunnion machines consists of 8 or 12 hydraulic-actuated, self-centering chuck-jaws.

Fanuc G-code programming – the most widely-used control language in the world.

- Hydromat HMI software provides maximum ease-of-use & reliability for daily operations.
- Uses Fanuc servo motors with optional Hydromat Thread-Advantage and Shred-Advantage deep machine learning technology.
- No plugs on command or feedback cables Mil-Spec connectors.
- No valve programming.
- No junction boxes attached to spindle.
- Hydromat is an AUTHORIZED FANUC CNC SYSTEM INTEGRATOR.





The ICON Principle

ICON Technologies designs the ultimate in productivity and flexibility combining the most advanced Mill/Turn centers with multi-station transfer productivity. These versatile systems are engineered for maximum production output in a small footprint.







TECHNOLOGIES MACHINING CENTERS





The ICON Mill/Turn machining centers combine space-saving design with unparalleled flexibility to create a highly innovative solution to produce parts complete, in one chucking, with fast cycle times and unsurpassed relational tolerances.

The ICON line combines Hydromat's superior production technology with the flexibility of a horizontal or vertical machining center. The result is an innovative solution to lower production requirements in medical, industrial, defense, and automotive applications.



















Innovative Solutions

Hydromat creates turnkey machining solutions. The results are superior productivity on statistically capable machines of exceptional quality and uncompromising reliability.

The Hydromat Engineering Group consists of a team of dedicated individuals whose backgrounds run deep in the tradition of high-precision metalworking.

The expertise of this group is available to manufacturers who, like yourself, appreciate the concept of the "smarter design" ideal. They are just as passionate about productive solutions as you are.

Leading edge software like Autodesk Inventor and Finite Element allow us to design and simulate your machine and its automation before we assemble it, thus speeding the build process and improving the final product.















hether you have an EPIC or a NT style CNC Hydromat machine that needs to be re-built, upgraded with newer CNC technology, or if you need to re-tool any Hydromat CNC machine for a new family of parts, there is only one place on this side of the planet to get factory authorized rebuild expertise...that is at Hydromat Inc. in St. Louis, Missouri, USA.

If costly secondary operations are killing your profitability and you need an edge to win those quotes then maybe a re-build will put you in the winning category on that next project. We will thoroughly evaluate the situation and advise you on the best options to cut cycle times and maximize productivity and and your return on investment. As always, a true partnership.

A T G Advanced Tooling Group

ydromat's Advanced Tooling Group (ATG) are experts in the art and science of cutting tools. ATG has the expertise, experience, and capabilities to create custom tools for complex geometries and hard-to-machine materials. No other organization can supply better tools for a Hydromat machine than Hydromat Inc. The group of experts in our shop have developed the finest custom tooling designs for the owners and operators of these exceptional machines. The minds that have created the Hydromat machines that now reside in North and South America are the same that are directly focused on creating the tool that will do the best job for you.

The Advanced Tooling Group is dedicated to supplying the highest quality tooling at exceptional price points. Our knowledge and skill that gives us the edge. Who would know best how to make tools for a Hydromat machine? Hydromat Incorporated. With four decades of experience, our tooling specialists live and breathe rotary transfer tooling day in and day out. The ATG shop is supplied with the latest CNC tool and cutter grinders, tool inspection equipment, and other machines for the creation of tooling in a wide range of lengths and diameters.





EXCEPTIONAL CUSTOMER SERVICE



Parts & Inventory

arts orders are still taken over the phone by our knowledgeable Customer Service Representatives or you can take advantage of HSLdirect, our online catalog & order desk website at www.hsldirect.hydromat.com

HSLdirect allows you to check inventory and track your order. With Quick List, customers can establish a list of all maintenance items and frequently ordered parts for ease of ordering.

A fully automated inventory retrieval system with more than 7,000 part numbers support our overall service commitment.



Technical Support

The true measure of Hydromat's dedication to its customers can be seen in our unwavering after-sale support of every machine we build.

Our help desk provides the first line of support for minor issues and basic troubleshooting assistance. Experienced technicians will help solve your issues right on the spot or quickly organize the needed parts and schedule a service trip.

For after hours support, use our web based 24/7/365 to reach an on-call technician who will help you get your machine up and running that night or over a weekend.

Training

As a valued customer, Hydromat will provide you with extensive hands-on and classroom training either in our St. Louis facility or at your place of business.

- · Operations & Maintenance Training
- Custom Training Programs
- · Transferring the Knowledge





ince 1979, we've been building the world's finest precision transfer machines at our manufacturing facility in St. Louis, Missouri. Teams of highly skilled craftsmen, working in close cooperation with our business partners, merge Swiss-precision machine elements with locally sourced components.

Our goal is to offer unique and innovative manufacturing solutions to our customers that provide high quality and cost effective machining capabilities. These solutions give our customers the unsurpassed quality, reliability and performance they have come to expect from Hydromat. Our experience shows that superior metalworking solutions are the direct result of diligence, discipline, and meticulous attention to details.

We also emphasize continued after-sale support in the form of engineering service, a vast parts inventory and comprehensive customer service and training. Furthermore, our quality and 6S programs are ongoing improvement initiatives designed to ensure that the job is done right the first time.

Total Customer Satisfaction is not just a phrase at Hydromat; it's a way of life. Our customers will remain our primary focus and we will always be attuned to their needs.

Precision. Quality. Diligence. Support. Improvements. Customer Satisfaction. In today's business climate, these are the keys to providing our customers a true competitive advantage.

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Rruno Schmitter CEO/COB

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