

TOMORROW'S TECHNOLOGY TODAY.

SINCE 1947.



MODIG
MACHINE TOOL SWEDEN



“We believe that true bravery inspires us to innovate, embrace cutting-edge technology, and strive for unparalleled standards of excellence.”

David Modig, President, Modig Machine Tool

WELCOME TO THE MODIG WAY

Modig was founded in 1947 by brothers Harry, Arne, Sture, and Erik Modig in Virserum, Sweden.

According to David Modig, the current president and third-generation family member to lead the company, Modig began in a tiny workshop measuring just five by ten meters (16 ft by 32 ft). With no heating and only a second-hand lathe, a used milling machine, and a drill, the Modig brothers' determination, skills, and innovation set them on a path to becoming a high-tech machine development company serving customers worldwide.

“What set Modig apart from the beginning was the brothers' dedication to not only providing machines that got the job done, but also their determination to find solutions that would positively impact their customers' bottom line.”

Unlike the tools made by the first generation of Modig, today's Modig specializes in designing and building CNC machines using high-speed machining technology. This enables clients to enhance the speed and accuracy of their production units. Modig Machine Tool is now a world-leading developer and manufacturer of machines for the

aerospace and automotive industries. The company is headquartered in Kalmar, Sweden, with a North American division based in Wichita, Kansas.

A FAMILY TRADITION

I am proud of my heritage, says David Modig. It's incredible to think that my grandfather and his brothers started this company. They were followed by Percy Modig, David's father.

My father spent his life building, dismantling, repairing, and improving machines, David continues. His determination to learn, understand, and do better drove him. He recognized that to compete both nationally and internationally, we needed to be at the forefront of the machining industry. David shares his father's love of machines.

There is plenty to love about Modig machines. In the early 80s, Modig began developing high-speed machining centers, leading to the production of the first HSM in 1987. Today, Modig's vertical machining center, RigiMill, delivers outstanding time savings. In 2017, the RigiMill MG set a world record for chip removal: 1,001 cubic inches of aluminum per minute (16.4 liters per minute), David proudly notes. At Modig, we believe we've continuously redefined the world's machining standards.

This sentiment is shared by Modig's suppliers and customers, as the company has now sold over 11,000 products worldwide. "My family's determination and professionalism, along with our dedicated employees, suppliers, and partners, continue to drive us to create machine centers optimized for best-in-class technology and speed."

We offer unique, flexible solutions and focus on quality to give our customers a competitive advantage in a wide range of industries, says David. "No matter the challenge, customers can rely on Modig to find the best solution to

shorten production times, reduce manufacturing costs, and future-proof their business."

In Swedish, Modig means brave, David explains. "We believe that bravery inspires us to innovate, embrace cutting-edge technology, and strive for unmatched standards of excellence."

We're a family business, David concludes, and we're confident that every new customer or supplier will discover they're an integral part of the family. Together, we can all succeed.

[Watch our film here!](#)



INNOVATION FOR TODAY AND TOMORROW

With over forty years working in the industry, Patrik Ling has seen the machine tool industry undergo radical change.

We've come a long, long way since Modig was founded. Technology, in particular, has driven innovation and the scope to find new solutions, says Patrik. Here at Modig our primary goal has been to create robust and solid machinery that exceeds client expectations and impacts their bottom line. Our continual investment in technology, exploring what it can help us achieve, has been a big part of that.

Working initially as a supplier, Patrik partnered with Modig for twenty years.

"I saw firsthand just how Modig strives to do better, investing in the very best technology to help them find solutions that drive our industry forwards."

Having experienced what the benefit of partnering with Modig was as a supplier, I was attracted to working for Modig because it's so rare to find a company in this industry that has a unique combination of outstanding employees, machines, and clients who require modern, highly sophisticated technical solutions. We always say we are a family at Modig, says Patrik. Because we have such a good relationship across the team, we can challenge each other and push ourselves to develop something special.

Patrik is proud of what the company is doing. At Modig we believe that it's the precision, speed and reliability of our machines that make them capable of running day in, day out. With control systems that can be likened to the brain of the machine, the company makes ongoing investment into developing smart and reliable solutions so customers can rely on us.

Working closely alongside the design and support team where he handles technical questions and RFQ, Patrik also liaises with clients and supplier requests. This gives him the opportunity to explore whether Modig has an existing solution that fits or whether the company needs to design something new.

Our competitors work with advanced technology too, says Patrik, but what sets Modig apart is the way we go about using this technology. Our research and development teams have a proven track record of developing best-in-class solutions.

My focus is as much on today's solutions but also the machines of the future, says Patrik. I get excited when we start to develop something that others haven't thought of something special that will really impact our clients' lives.

Patrik is particularly proud of RigiMill Moving Gantry, which was developed to produce the fastest chip removal rates in the world. This is an incredible machine, says Patrik. Chip removal is so important to our customers and this solution is best-in-class with the most compact gantry for drilling and milling.



Patrik Ling, CTO Modig Machine Tool

Furthermore, Modig's Mill-Ex machine, with its key benefit of machining parts in a single setup with two or four spindles, facilitates a higher part throughput at the lowest cost per part, says Patrik

As Patrik says, Modig's investment in technology, research and development, and the right team of people, has created something special.



Inverted Machining Center, IM-8



WELCOME TO OUR FAMILY

Keith Lopez, President North/South America at Modig, says there were three things that persuaded him to join Modig after a successful career in the aerospace industry.

“Modig’s potential, its products, and its people.”

Eight years after having made the move, Keith doesn’t regret it for an instant. I get to collaborate on a daily basis with people who dedicate their lives to machining centers that best serve the automotive and aerospace industries, says Keith.

Before joining Modig, Keith was one of Modig’s customers. Even as a customer, I felt part of the Modig family. They were a team that listened to our specific needs and were inclusive, he says. It was incredible to see David Modig sketch out ideas for a machine on a napkin, chuckles Keith. Here was someone brought up on a tradition of pulling machines apart, understanding their complexities and utility, and determined to build something new, something better.

David’s approach is something that lies at the very heart of the company.

Although Keith appreciated working alongside Modig’s team, what really impressed him before joining the company was not just creativity: it was the performance benefit clients got when using Modig machinery. If you have the right machine – something that outperforms your competitors – you have a competitive advantage in the market, says Keith.

Now firmly part of the Modig family, heading up the company’s North/South America division, Keith says: The family feel of the business, the supportive environment and work culture where everyone’s ideas are important – tested, challenged and developed for the better – is an essential part of the process. At Modig, the impressive machinery and solutions come about because of the company’s focus on working with the right people with the right skills-, and the right attitude.

“Whether it’s our employees, our suppliers, or customers, Modig truly values people. Through dialogue, support, and a genuine passion for technology and business, Modig’s culture and approach to business is a win for everyone involved.”

When I was a customer, Keith says, I had a continual ongoing dialogue with Modig, looking to innovate, learn, and grow. Personal contact is important at Modig. Now, I’m regularly on the phone talking to suppliers and customers.

Like David, Keith puts a lot of time in building real relationships with customers and suppliers. We don’t hesitate to pick up the phone to talk to customers and suppliers. Our relationship with the customer doesn’t stop at the point of sale. That’s just the beginning, says Keith.

At Modig, the mindset is different. Yes, the company delivers cutting edge machine solutions but, as Keith say, quality of the solution we provide is determined by the quality of the relationship we have.

Unlike other companies, we don’t talk about transparency at Modig, we just do it. Sure, we sometimes make mistakes or get something wrong. But that’s the real world. That’s business. Our network of dedicated suppliers, and the relationship we have with them, helps us push the boundaries of technology and innovation with absolute positivity, says Keith.

We compete with some of the biggest players in the industry – on a global stage, Keith says. To be best-in-class we know it’s important to maintain a continual feedback loop with our customers.

It is the time and effort that goes into developing a positive collaboration between Modig, suppliers, and customers that benefits the creation and development of great products like the HHV, RigiMill, FlexiMill, as well as the exciting new machines currently on the drawing board.

MODIG TECHNOLOGY FOR THE WIN

Among the many companies supplying the aerospace and automotive industries with machining centers, Modig Machine Tool stands out. Blending technical ingenuity, best-in-class machinery, and outstanding customer service, Modig has established itself as a world-leading manufacturer of premium performance machining centers.

“Modig is different because we offer the aerospace and automotive industries an integrated solution encompassing problem-solving, need-based configuration, testing, training, and technical and customer support,” says Dan Green, Technical Sales Director, Americas.

Produced with the latest technology and remarkable quality, Modig’s machining centers are built to last. “We still have customers using machining solutions that have been up and running for over thirty years,” says Gavin Cowap, Director of Program Management, Automotive Division.

DO BETTER, BE BETTER

A company with over seventy-five years of history knows never to rest on its laurels. Modig continually strives to improve. With the rise of electric vehicles gaining more market share, the demand for large, extruded aluminum components is increasing, says Gavin. Modig’s long bed machines, such as the HHV and Mill-Ex, are modern, state-of-the-art technologies that address the current changing market.

The HHV processes bars and extrusions of aluminum and composite materials. Details are machined in a single process without the operator needing to reset and realign the machine when milling at different rates, explains Gavin. Neither the aluminum nor composite bars need to be cut to the correct length in advance because the machine feeds and processes continuously.

The RigiMill, Gavin notes, is suitable for either aluminum or hard metal processing. Both variants of RigiMill have the highest measured material removal rates without loss of quality or precision. Compared to competing milling machines, RigiMill is at least 40 percent faster than equivalent four-spindle units.

“By partnering with customers to deliver exceptional solutions that drive growth and enhance competitive advantage, Modig ensures superior ROI and overall cost of ownership through efficiencies in labor, footprint, and cycle time. This enables our customers to compete at the highest attainable levels.”

– Dan Green, Technical Sales Director, Americas

“The quality of Modig’s products stems from the philosophy that every machine leaving the plant is the result of seamless collaboration between R&D and the production team. ‘We have complete control over the manufacture of our machines,’ says Dan. ‘This attention to every detail, from design to development to customer implementation, ensures success for the end item user.’”

A COMPETITIVE ADVANTAGE

“My number one priority,” says Gavin, “is end user success. At Modig, we offer total solutions for machining, automation, and maintenance to ensure our customers can always perform at their best. By partnering with Modig, customers choose exceptional machine and automation solutions designed to enhance competitive advantage and drive growth.”



Dan Green, Technical Sales Director, Americas, Modig Machine Tool



Gavin Cowap, Director Program Management, Automotive Division, Modig Machine Tool



Olof Ståhl, Director, Technical Management, Modig Automation Systems



ALL FROM ONE SOURCE

For Olof Ståhl, Director of Technical Management at Modig Automation Systems, the key to Modig's customers' success lies not just in best-in-class machining centers, but in the competitive advantage gained from choosing a single source for machine and automation solutions.

It doesn't matter if you have a machine with the highest precision if your automation system isn't optimized to work with it, says Olof. Single-source solutions for high-performance machining and automation, like those available from Modig, ensure perfect alignment and enable more efficient workflows.

The benefit for our customers is that we provide efficient and reliable automation equipment, which improves workpiece handling, Olof explains. The aerospace and automotive industries are highly competitive. Automation, together with precision machines, gives customers a competitive advantage, enabling them to maintain an upward trajectory.

At Modig, we know that efficiency is key. That's why we have taken every step to develop and implement cutting-edge automation systems for part loading/unloading, bar feeding, pallet changing, robotics, and complete cells.

“Our automation solution is based on a modular concept. This provides greater flexibility, higher quality, and increased productivity. We offer customers a complete production cell for workpiece handling from a single source.”

TOP ENTRY ROBOTS

Modig Automation offers a complete range of top-entry robots based on 2-axis linear systems and 3-axis gantry systems. These robots provide several advantages for optimized automated production, as they are placed above the machines to load and unload, which reduces the need of floorspace. Modig Automation has solutions based on top-tier 6-axis robot brands, says Olof.

These can be implemented in various configurations: floor-mounted 6-axis robots for handling single or multiple machines, and 6-axis robots with Modig Automation linear track motion axes (7th axis).

The result for customers is increased efficiency and flexibility, explains Olof. Every automation solution we deliver is thoroughly examined and validated using simulation tools to ensure it operates and performs as intended, providing process descriptions and cycle time evaluations.

Modig Automation has developed an optimal solution to extend the reach of 6-axis robots. 'The 7th axis solution can easily be adapted to the robot and the controller,' says Olof. 'It expands the possibility to use two robots for more operations or even add a second machine in the same automation, using Modig's track motion.'

For Olof, the benefits are clear.

"Our single-source solution for machining and automation reduces downtime and improves overall equipment uptime. Customers benefit from having a single point of contact for all their support and maintenance needs."

In a competitive market, this is essential because your machines must continue to perform at the highest level. Nonetheless, Olof warns that unforeseen stoppages in production and performance disruptions can have devastating consequences. However, Modig Care aftermarket service packages give customers the assurance that machine performance is maximized, prolonging the life cycle and maintaining productivity, says Olof.

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