

VTX Series

Vertical Turning Lathe Machining
Center

MODELS AVAILABLE: VTX 1600 | VTX 2000 | VTX 2500 | VTX
3500 | VTX 4000 | VTX 5000

Crafting innovation on a grand scale.

For 34 years, Racer Machinery International has been a wholly Canadian-owned company standing tall as a pillar of innovation and excellence in manufacturing. We're more than just a manufacturer of machines; we're a team dedicated to building a stronger future for the industry as a whole.

Trusted Partner, Proven Track Record

Racer's expertise spans across a wide range of industries. From the classic engine lathe to the cutting-edge world of additive manufacturing, we deliver state-of-the-art solutions that cater to the specific needs of our clients. Our diverse clientele includes those in the automotive, aerospace, defense, and academic sectors, among many others. This versatility is a testament to our adaptability and commitment to staying at the forefront of technological advancements. Our success in supplying critical systems to esteemed institutions like the Canadian Armed Forces and the U.S. Navy underlines our unwavering commitment to reliability.

Innovation at Our Core

At Racer, a core value is prioritizing research and development (R&D). We understand that continuous investment in innovation is crucial to staying ahead of the curve. Our team is constantly pushing the boundaries of advanced manufacturing technologies, ensuring that the solutions we develop meet the evolving demands of various sectors. This dedication to R&D guarantees that our clients remain competitive in their respective fields, equipped with the latest and most effective machinery available.

Growth Through Collaboration

Racer actively supports domestic supplier development. We believe in fostering a strong and collaborative ecosystem within Canada's manufacturing landscape.

This commitment extends to fostering university R&D alliances, where we work alongside academic institutions to push the boundaries of what's possible.

Diversity and inclusion are also core values at Racer. We champion these principles within our team, promoting a skilled and future-proof workforce that reflects the rich diversity of Canada. Additionally, we actively support Industrial Technology Benefits (ITBs), strengthening the Canadian manufacturing ecosystem as a whole.

**Manufacturing turnkey solution
CNC machine tools providing North
American built products to
production operations worldwide.**

A Force for the Future

Racer's commitment to growth is evident in our ongoing facility expansion. This massive project encompasses a staggering 40,000+ square feet, and upon completion, will create a hub for innovation and production excellence.

The expansion will not only benefit Racer itself but also contribute significantly to the economic growth of our communities. By creating new Canadian jobs and fostering partnerships with local suppliers, the positive impact will be far-reaching.

Finally, Racer plays a critical role in supporting Canada's Key Industrial Capabilities (KICs) for emerging technologies. Our expertise in advanced materials and production processes aligns perfectly with the needs of critical industries like aerospace, defense, and shipbuilding. By supporting these KICs, Racer ensures that Canada remains a leader in the ever-evolving landscape of advanced manufacturing.

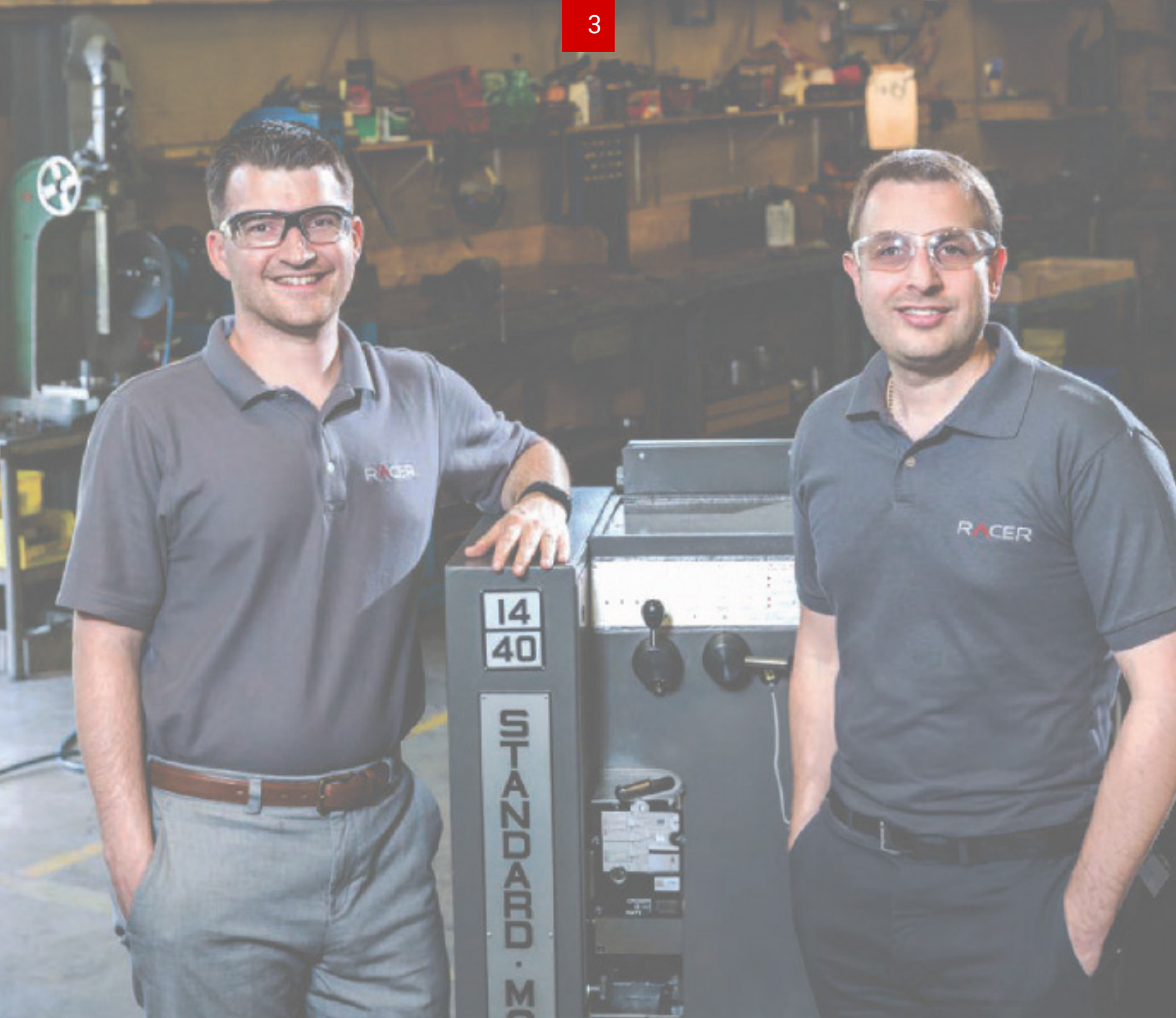


Photo courtesy of Canadaina Metalworking Magazine (2018)

Racer Machinery International's story is one of continuous advancement, fueled by both technological innovation and a global vision. The company's pioneering spirit took flight in the 1990s with the introduction of the Megatronic PC-CNC Controller, solidifying their position at the forefront of CNC machinery development.

This spirit of innovation was coupled with a strategic move towards global competitiveness in 2003, symbolized by the transformation of Racer Machinery Company Ltd. into Racer Machinery International Inc. Racer's dedication to quality and craftsmanship was further bolstered in 2014 with the integration of the esteemed Standard Modern™ brand, adding over 80 years of manufacturing excellence to their portfolio.

A landmark moment unfolded in 2020 as the Federal Economic Development Agency invested nearly \$1.4 million in Racer, propelling the company towards aerospace excellence. This government-supported investment signifies a strategic move for Racer's future growth and innovation in this demanding sector. Racer Machinery International's commitment extends beyond borders.

Securing a contract to supply the U.S. Army underscores their role as a reliable provider of high-quality North American-built machinery, further cementing their position as a trusted partner delivering dependable solutions for defense applications on a global scale.

Skilled workforce and industry expertise



Our industry experience extends beyond mere project execution – it encompasses a deep understanding of market trends, regulatory requirements, and customer needs.

By staying abreast of industry developments and actively engaging with clients, suppliers, and industry stakeholders, we continuously adapt and evolve to deliver cutting-edge solutions that drive our clients' success.

Skilled Workforce

At Racer Machinery International, our greatest asset is our skilled workforce, whose expertise and dedication drive our success in meeting and exceeding production demands. Our team members (50 in Canada, and 120 internationally) possess a wealth of knowledge and experience, honed through years of hands-on training and a commitment to excellence.

Whether it's operating cutting-edge machinery or troubleshooting complex production challenges, our workforce demonstrates unwavering professionalism and proficiency, ensuring that every task is completed to the highest standards.

Industry Experience

In addition to our skilled workforce, Racer boasts extensive industry experience that sets us apart as a leader in automotive manufacturing solutions. Over the years, we have forged strong partnerships and executed successful projects across the automotive sector, delivering innovative solutions that enhance efficiency, quality, and profitability for our clients.

From designing custom machining solutions to optimizing production workflows, our track record speaks volumes about our ability to understand and address the unique challenges of the automotive industry.

Canada invests \$1.4 million in advanced CNC solutions

Cambridge-based Racer Machinery International Inc. (RACER) is on the cusp of an exciting development in its journey within the aerospace industry.

The Federal Economic Development Agency for Southern Ontario (FedDev Ontario) has announced a substantial investment of nearly \$1.4 million in RACER. This investment is poised to enhance the company's productivity, global competitiveness, and pave the way for over 30 new jobs.

It's a significant move that reaffirms the company's commitment to innovation and growth within the global supply chain.

FedDev Ontario's Support for Racer Machinery International

On October 13, 2022, in a press release from Cambridge, Ontario, Valerie Bradford, Member of Parliament for Kitchener South–Hespeler, made a significant announcement on behalf of the Honourable Filomena Tassi, Minister



FedDev visiting Racer Machinery International Facility (2022)

responsible for the Federal Economic Development Agency for Southern Ontario. The government has allocated nearly \$1.4 million in support of Racer Machinery International Inc., a family-owned aerospace manufacturer located in Cambridge, Ontario.

With this repayable investment, the company is set to revolutionize its manufacturing processes, reducing

material waste and ultimately boosting productivity. As a result, this project will create and sustain up to 31 jobs and increase annual domestic and international sales by as much as \$7 million.

This investment is a testament to the ongoing collaboration between government, businesses, and the aerospace sector in southern Ontario.



“Today’s investment in Racer Machinery International Inc. is great news for Cambridge and Canada’s aerospace sector. The project will help the company boost global competitiveness and support 31 local jobs while contributing to the growth of the aerospace sector here in southern Ontario.”

– Valerie Bradford, Member of Parliament for Kitchener South–Hespeler.

Investing in the future through collaboration

At Racer Machinery, we're driven by a constant desire to push the limits of what's possible. We believe that by working together with the best minds in the industry, we can achieve incredible things. That's why we've partnered with leading organizations and academic institutions to leverage their expertise and accelerate our progress.

In Collaboration With:

- Commonwealth Center for Advanced Manufacturing (CCAM)
- Canadian Manufacturers & Exporters (CME)
- Automotive Parts Manufacturers Association (APMA)
- McMaster University
- University of Virginia

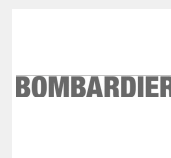
Members of:

- Advanced Manufacturing Technology Association (AMT)
- Ontario Aerospace Council (OAC)
- Ontario Made (program)

By working alongside these esteemed partners and organizations, Racer Machinery is positioned to make significant contributions to the future of manufacturing. Through collaboration, knowledge sharing, and a shared vision for excellence, we're building the future of innovation, together.

We're proud to collaborate with some of the biggest names in the manufacturing industry, leveraging our expertise to deliver tailored solutions that meet the exacting standards of our esteemed partners.

Key Partnerships



GENERAL DYNAMICS

Strength in meeting comprehensive support demands

Beyond repairs, we offer comprehensive solutions to empower your team.

- Expert programming services to optimize your machines.
- Comprehensive machine service and maintenance plans.
- Operator training to maximize machine efficiency and safety.
- Customer training to keep your team informed and empowered.
- Maximize uptime with expert troubleshooting and repairs.
- Prevent breakdowns with proactive maintenance plans.
- Boost productivity with machine optimization and performance tuning.
- Eliminate programming errors with our skilled technicians.
- Get the parts you need fast with our extensive inventory.

RACER provides the highest level of training service, and support in the industry. Training includes three days of programming/applications training at a local university.

Additionally, the customer's maintenance personnel are invited for the last week of assembly and run off at our plant. After installation at the customer's facility,

RACER service personnel and engineers, work with three groups of customer personnel, namely, maintenance, operators and highlevel engineers to ensure understanding of the equipment to make in house support as effective as possible.



Customer Support



Installation



Training



Applications

Technical specifications and features

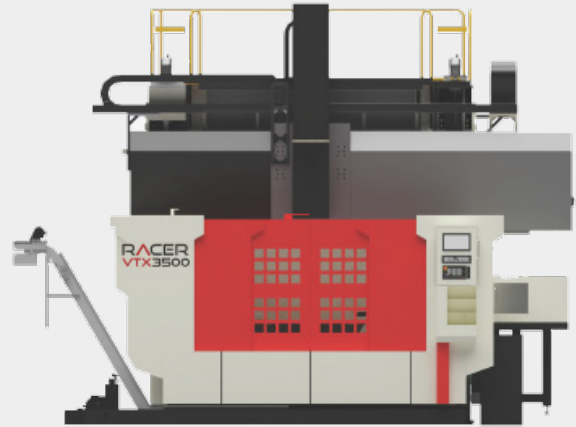
VTX series of vertical turning lathes, boasting a cross rail meticulously engineered for full ram travel. This cutting-edge design, featuring dual guidance on both ends, not only ensures heightened accuracy but also facilitates the simultaneous use of two tools per holder, enabling seamless turning of both internal and external diameters. With programmable indexing capabilities in the Y-axis, the VTX series offers extended height capacity, effortlessly accommodating taller workpieces with precision.

Crafted with precision in mind, the VTX series boasts a rail that spans the full length of the machine, empowering operators to perform comprehensive machining tasks. Supported and driven on both ends, this rail guarantees unparalleled rigidity and accuracy during machining operations. Utilizing Racer's patented Phantom Machine Design process, the frame of the VTX series excels in absorbing vibrations, promoting enhanced stability and superior surface finish.



Product Feature

Modern
Machine
Shop



Key Features

- **Massive Turning Capacity:** Up to 5000mm diameter & swing for giant workpieces.
- **Heavy Duty Build:** Handles table loads up to 88,000kg for tough jobs.
- **Powerful & Speedy:** Fast table drives and rapid traverse for efficient machining.
- **Large Ram & Tooling:** Big rams & up to 32-tool ATCs for power & flexibility.

Ideal Applications



Aerospace



Shipbuilding



Armed Forces

VTX Series Models Available

VTX 1600 | VTX 2000 | VTX 2500 | VTX 3500
| VTX 4000 | VTX 5000



VTX3500 installed at leading Canadian forge company



VTX3500 installation at local forging company (2024)

Racer Machinery International Partnering for Precision

Racer Machinery International is proud to announce a successful partnership with a leading Canadian custom open-die forging company, a key player in the armed defense industry and various other sectors. This collaboration underscores Racer's commitment to supporting domestic manufacturing and fostering long-term success for its partners. The centerpiece of this partnership is the installation of our innovative VTX3500 vertical turning lathe.

The VTX3500 is a game-changer, boasting features designed to revolutionize production for the Canadian forge shop. The innovative dual guidance cross rail allows for simultaneous use of two tools, facilitating efficient turning of both internal and external diameters in a single operation. This significantly reduces production times and optimizes resource utilization.

Additionally, programmable Y-axis indexing tackles taller workpieces, expanding the range of projects they can undertake and strengthening their market competitiveness.





Alex Vojinovich (Racer Machinery International COO) standing on vertical turning lathe machined flange part (2024)

Racer's commitment extends beyond just supplying equipment. The VTX3500 is designed for unwavering precision, featuring a full-length, supported rail for stability during machining and Racer's patented Phantom Machine Design to minimize vibration, leading to superior surface finishes on forged products – critical aspects for the demanding applications in the armed defense industry.

Furthermore, the VTX3500's exceptional versatility allows the company to tackle diverse projects with a single machine, eliminating the need for multiple setups and maximizing productivity across various sectors they serve.

This partnership is built on a shared vision for a thriving domestic manufacturing sector. Racer provided in-depth training for the forge shop's CNC machinists and programmers to ensure they maximize the VTX3500's potential. Additionally, ongoing technical support and a dedicated partnership approach ensure the forge shop has the resources and communication channels needed for long-term success.

By equipping this Canadian leader with cutting-edge technology and ongoing support, Racer empowers them to excel in the armed defense industry and various other sectors, ultimately contributing to a more innovative and efficient Canadian manufacturing landscape.

\$2.67M vertical turning lathe CNC machine contract with U.S. Army

Racer Machinery International, a leading manufacturer of CNC machines with over 60 years of experience, has secured a significant contract with the U.S. Army Contracting Command (ACC). The contract, valued at \$2.67 million USD, involves supplying the U.S. Army with two high-performance CNC vertical turning lathes.

The Challenge

The U.S. Army is renowned for its commitment to cutting-edge technology and unwavering operational excellence.

Their reliance on CNC machines for critical tasks underscores the importance of precision, reliability, and durability. These machines are tasked with the heavy-duty machining of medium to large parts for defense vehicles and other crucial military equipment.

Ensuring these parts meet stringent specifications necessitates CNC machines that can consistently deliver exceptional results under demanding workloads.

The Racer Solution

Racer Machinery rose to the challenge by providing the U.S. Army with CNC vertical turning lathes equipped with advanced features to meet their specific needs.

These features include:

- Renishaw part and tool probe system for superior accuracy and automated tool calibration.
- Live spindle and through spindle coolant for efficient and precise machining operations.
- C-axis rotary table to enable complex multi-axis machining capabilities.
- Automatic tool changer and automatic pallet changer for increased productivity and reduced downtime.
- Linear pallet system with a 12-pallet capacity for high-volume production runs.
- Remote pendants for enhanced operator safety and control.

By incorporating these features, Racer's CNC vertical turning lathes provide the U.S. Army with a robust and efficient solution for their demanding machining requirements.

The Result

This \$2.67 million contract win reaffirms Racer Machinery's position as a leading supplier of high-quality CNC machines for critical applications. Their commitment to innovation and engineering excellence ensures they can deliver solutions that meet the needs of even the most discerning customers.

Read the entire article here:

<https://www.ccc.ca/en/announcements/ccc-racer-machinery-international-to-provide-cnc-machines-to-u-s-army/>



"CCC is pleased to work with Racer Machinery International and support Canadian manufacturing through the Canada-U.S. Defence Production Sharing Agreement (DPSA)"

– Diane Montambault, VP of Operations, CCC.



Providing solutions across diverse industries



Aerospace Industry

Racer Machinery International is a leading provider of precision CNC machine tools, serving a wide range of industries, including the aerospace sector. The company's machines are ideal for various applications in the aerospace manufacturing process.

Racer's CNC machines are used to produce a variety of aerospace components, including:

- Aircraft parts: Fuselage sections, wings, tail assemblies, landing gear components, and engine parts
- Rocket components: Motor cases, nozzles, and structural components
- Satellite components: Antennas, solar panels, and structural elements

Providing solutions across diverse industries



Armed Forces & Defense Industry

Racer Machinery International has proudly served as a critical supplier to the U.S. Navy's nuclear shipbuilding enterprise for over six decades. They've played a vital role not just in recent years, but throughout the history of modern naval lathe technology.

Their commitment to providing Standard Modern lathes has ensured the continued success of American shipbuilding efforts, from the mightiest nuclear carriers to essential supply vessels.

In addition:

- Weapons components: Barrels, receivers, triggers, and other firearm parts
- Naval equipment: Components for ships, submarines, and other naval vessels



The future of machining is collaborative

Command your machines with confidence.

At Racer Machinery International, we understand the colossal impact of collaboration. That's why we've strategically aligned ourselves with industry titans – Siemens and FANUC – to forge a powerhouse of CNC control for our machines.

FANUC

FANUC elevates your machining game with the powerful Series 0i-F CNC, a versatile workhorse for diverse applications.

Master Complex Machining: The 0i-F boasts increased control with more axes and program paths, allowing you to conquer intricate parts and multi-tasking workflows.

Boost Efficiency: High-speed auxiliary functions and an expanded standard feature set streamline your operation, maximizing productivity and minimizing downtime.

Effortless User Experience: The operator-friendly design features a large 15-inch display and a familiar QWERTY keyboard, minimizing training time and maximizing comfort.

SIEMENS

Siemens, a global leader in automation and digitalization, brings cutting-edge control technology to the table. Their innovative solutions seamlessly integrate with our machines, prioritizing user-friendly interfaces and robust capabilities to tackle any machining challenge.

Siemens offers a dynamic CNC duo: SINUMERIK ONE and 828D. These advanced control systems cater to various applications, ensuring optimal performance for your specific requirements.

SINUMERIK ONE- The next-generation powerhouse, ideal for complex, multi-axis machining and future-proof scalability.

Digital Native: Optimizes production with real-time data analysis for Industry 4.0 integration.

Advanced Performance: Delivers exceptional precision with the PPU 1740 control unit. Modular

Design: Easily adapts to changing needs with customizable axes, spindles, and software.

SINUMERIK 828D- A versatile option for basic to mid-complexity machining tasks.

User-Friendly: The intuitive interface simplifies operation and minimizes training time. **Reliable Performance:** Delivers consistent accuracy and control for various applications.

Phantom Machine Technology

Racer Machinery International Inc. and its team of innovative engineers have developed a groundbreaking technology that is revolutionizing the machine tool industry. Phantom Machine Technology™ represents a significant advancement in every aspect of machine tool production, from manufacturing processes to end-user operations.

This patented process revolutionizes manufacturing by reducing pollutants, creating a safer and healthier workplace. Machine operators also benefit from significantly lower noise levels, reducing health hazards associated with constant exposure to loud equipment.

Machines equipped with Phantom Machine Technology™ deliver exceptional results. Cutting times are drastically reduced, tooling lasts longer, and setup is incredibly easy. The technology's versatility allows for customization to meet your specific needs. Our machines are designed for minimal maintenance, reducing downtime and maximizing productivity. This translates to lower operating costs and increased efficiency.

Phantom Machine Technology™ ensures exceptional precision and accuracy in your manufacturing processes. This means you can produce high-quality components that meet even the most stringent standards.

Our machines are built to last, designed to withstand the rigors of demanding industrial environments. This durability translates to long-term reliability and minimal downtime. Our team of experts can tailor our machines to meet your specific needs and requirements. Whether you need a machine for high-volume production or a specialized application, we can provide a solution that fits your exact needs.

Benefit from our dedicated customer service and technical support team, available to assist you throughout your partnership. Our team is committed to providing prompt and efficient support, ensuring that you get the most out of your investment in Racer Machinery International.



Key Features of Phantom Machine Technology



Environmentally Friendly

The manufacturing process behind the weldment frame generates less waste compared to traditional casting methods.



Lower Cost

The innovative weldment frame design offers a more cost-effective manufacturing alternative to cast iron frames.



Vibration Dampening

The weldment construction effectively absorbs vibrations that can mar surface finishes and reduce tool life.

All-round machine for various fields



High-Precision Ram & Live Spindle

The robust square ram, constructed from forged steel, houses a high-performance live spindle (electro-spindle for travel exceeding 2500mm). This spindle, featuring NSK (Japan) and INA (Germany) bearings, is driven by a Siemens/Fanuc servo motor for powerful machining. Optional features include an optical linear grating scale for X and Z axes, enabling closed-loop control and exceptional accuracy.

Additionally, a manual 90-degree milling head can be selected for expanded functionality.

The Crossbeam

The crossbeam, vital for precision and rigidity, utilizes a linear guideway system for smooth, wear-resistant movement. Automatic lubrication and a wear-resistant coating ensure smooth operation and extended life. Hydraulic clamping secures the crossbeam for stable machining.

Optional Auto-Clamping Milling Head

For enhanced versatility, an optional auto-clamping milling head is available. This innovative design utilizes a German hydraulic cylinder and Hirth coupling to ensure exceptional positioning accuracy and rigidity, surpassing the traditional CAT50 clamping method in strength.

Hydraulic System

This machine boasts a high-performance hydraulic system that serves as the backbone for its precise and efficient operation. The system utilizes a combination of high-quality hydraulic components and an optimized circuit design with an integrated manifold module. This advanced design ensures reliable functioning, smooth operation, and simplified maintenance.

The system powers several critical functions:

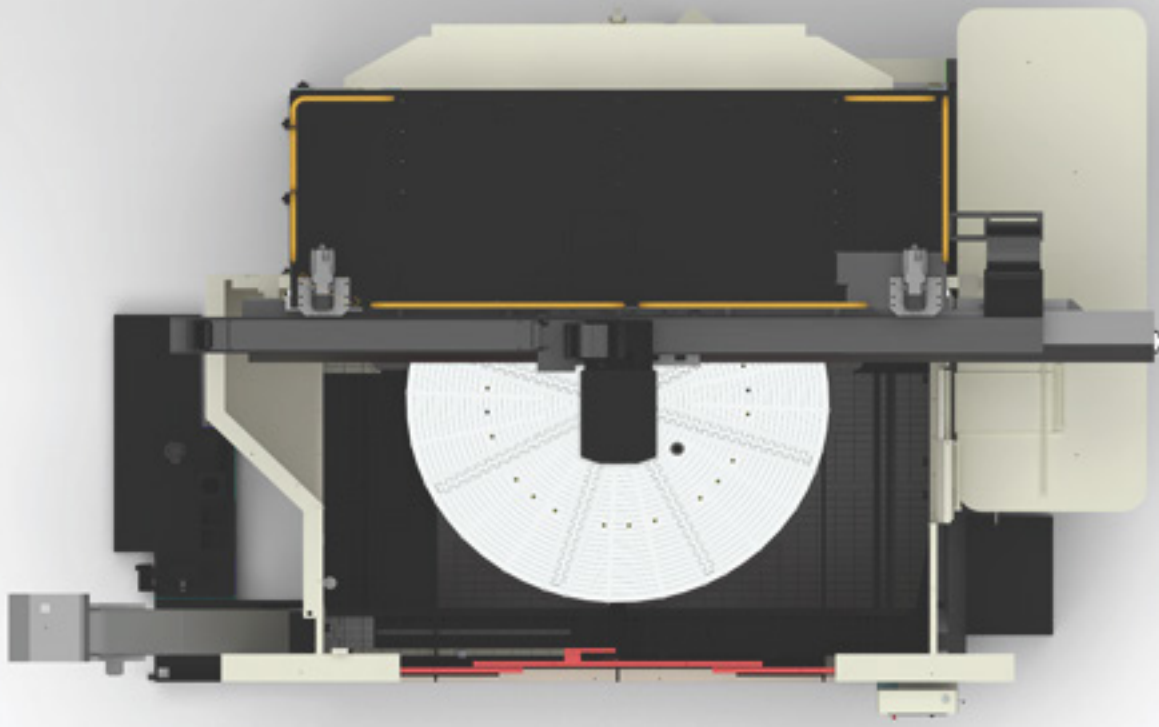
Hydrostatic Table: A film of pressurized oil supports the worktable, minimizing friction and guaranteeing exceptional stability and precision during machining.

Variable Table Speed Control: Precise control over the worktable's movement allows for optimal cutting speeds for various tasks.

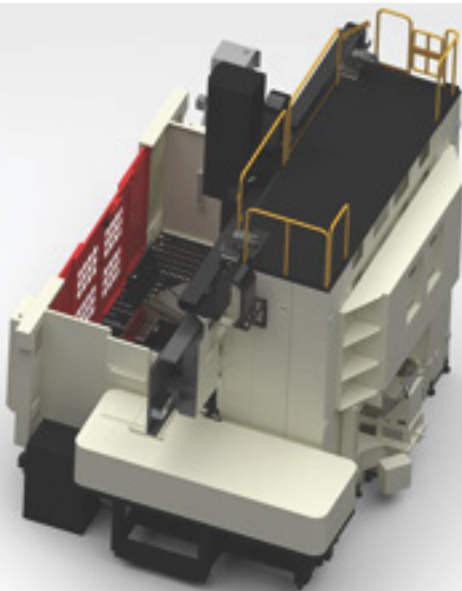
Secure Crossbeam Clamping: Powerful hydraulics ensure the crossbeam is securely clamped to the column during machining, preventing movement and maintaining accuracy.

Automatic Lubrication: An integrated system continuously supplies oil to critical components, minimizing wear and tear and extending the machine's lifespan.

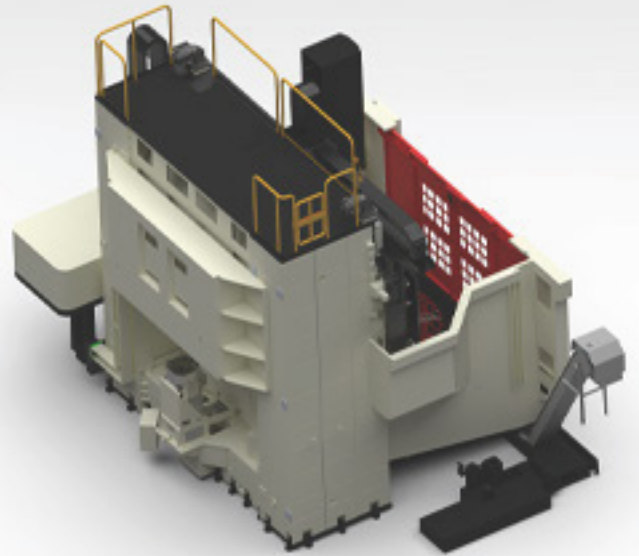
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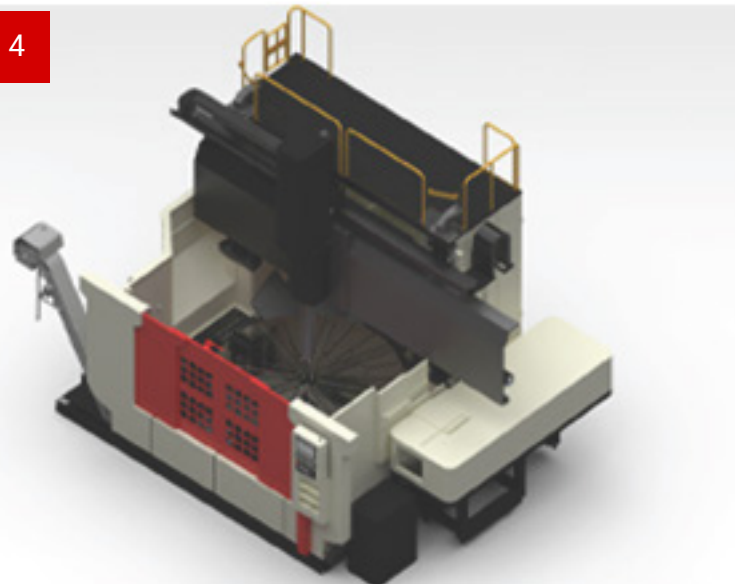
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1. VTX 3500 top view
2. VTX 3500 isometric side view, left side
3. VTX 3500 isometric side view, right side
4. VTX 3500 isometric machine view

	Unit	VTX1250	VTX1250M	VTX1600	VTX1600M	VTX2000	VTX2000M
Capacity							
Table diameter	mm	1,250		1,600		2000	
Max. swing	mm	1,600		2,000		2500	
Max. turning diameter	mm	1,500		1,900		2400	
Distance from RAM to table	mm	700 ~ 1,500		1,065 ~ 1,865		1,075 ~ 1,875	
Max. turning height	mm	1,250			1,600		
Max. workpiece weight	kg	6,000		10,000		13,000	
RAM size	mm	230x240			240x270		
Min. ID for RAM pass	mm	285			310		

Spindle

Table speed (2 steps)	rpm	1 ~ 120 , 1 ~ 300		1 ~ 70 , 1 ~ 250		1 ~ 50 , 1 ~ 200	
Max. torque of table	N.m	10,655		18,790		23,270	
Live spindle speed	rpm	-	24 ~ 6,000	-	50 ~ 6,000	-	50 ~ 6,000

Travel / Rapid Traverse

X-axis travel	mm	-200 ~ +950		-200 ~ +1,125		-250 ~ +1,380	
Z-axis travel	mm	900			1,000		
Crossrail travel	mm	800					
Crossrail step	mm x step	200 x 5					
X-axis rapid traverse	m/min	12					
Z-axis rapid traverse	m/min	10					

ATC

ATC capacity	-	12	18	12	18	12	18
Max. tool length	mm	400					
Max. weight of tool holder	kg	50					
Max. weight of magazine	kg	450	550	450	550	450	550
Type of tool shank	-	CAT50				BT50	
Tool shank size	mm	25 or 32					

Motor

Spindle motor	kW	AC 30/37			AC 37/45		
Total power capacity	kVA	50			60		
X/Z-axis servo motor	kW	6					
Live spindle motor	kW	-	AC 7.5 / 11	-	AC 11 / 15	-	AC 11 / 15
CF-axis servo motor	kW	-	7	-	7	-	7

Machine Dimension

Floor space (LxW)	mm	5,900 x 3,800		6,500 x 4,600		7,800 x 5,100	
Machine height (H)	mm	5,020	5,360	5,690	5,880	5,740	5,930

Unit VTX1250 VTX1250M VTX1600 VTX1600M VTX2000 VTX2000M

Capacity

Table diameter	mm	1,250		1,600		2000	
Max. swing	mm	1,600		2,000		2500	
Max. turning diameter	mm	1,500		1,900		2400	
Distance from RAM to table	mm	700 ~ 1,500		1,065 ~ 1,865		1,075 ~ 1,875	
Max. turning height	mm	1,250				1,600	
Max. workpiece weight	kg	6,000		10,000		13,000	
RAM size	mm	230x240				240x270	
Min. ID for RAM pass	mm	285				310	

Spindle

Table speed (2 steps)	rpm	1 ~ 120 , 1 ~ 300		1 ~ 70 , 1 ~ 250		1 ~ 50 , 1 ~ 200	
Max. torque of table	N.m	10,655		18,790		23,270	
Live spindle speed	rpm	-	24 ~ 6,000	-	50 ~ 6,000	-	50 ~ 6,000

Travel / Rapid Traverse

X-axis travel	mm	-200 ~ +950		-200 ~ +1,125		-250 ~ +1,380	
Z-axis travel	mm	900				1,000	
Crossrail travel	mm			800			
Crossrail step	mm x step			200 x 5			
X-axis rapid traverse	m/min			12			
Z-axis rapid traverse	m/min			10			

ATC

ATC capacity	-	12	18	12	18	12	18
Max. tool length	mm			400			
Max. weight of tool holder	kg			50			
Max. weight of magazine	kg	450	550	450	550	450	550
Type of tool shank	-			CAT50		BT50	
Tool shank size	mm			25 or 32			

Motor

Spindle motor	kW	AC 30/37		AC 37/45			
Total power capacity	kVA	50		60			
X/Z-axis servo motor	kW			6			
Live spindle motor	kW	-	AC 7.5 / 11	-	AC 11 / 15	-	AC 11 / 15
CF-axis servo motor	kW	-	7	-	7	-	7

Machine Dimension

Floor space (LxW)	mm	5,900 x 3,800		6,500 x 4,600		7,800 x 5,100	
Machine height (H)	mm	5,020	5,360	5,690	5,880	5,740	5,930

	VTX 2500	VTX 3500	VTX 4000	VTX 5000
Capacity				
Max turning diameter	2700	3500	4000	5000
Table diameter	2500	3500	4000	5000
Max turning height	1600/2000		2500/3200	2500/3200/3600
Max table load kg	25000	35000	60000	80000
Table Spindle				
Max speed	200	120	80	60
Power	60	60	120	120
Gear box	2 speed			
Torque nm	74000	80000	200000	250000
Ram size	254x254		305x305	
Max cutting force	50000		60000	
Milling Spindle				
Power max	22/30.		30/37.	
Speed	3000			
Gear box	2 speed			
C Axis				
Power kw	5.5		7.7	
Speed rpm	6			
ATC				
ATC positions	16/32			
Taper	CAT 50			
Max weight	96kg			
Distance to table to ram	1600/2100			
Ram travel Z axis	1300/1600		1600/2100	5200
X axis travel	2600	3400	4000	1600/2600/3000
Cross rail travel W axis	1200/1600		1600/2600	
Number of cross rail positions	6			
X and Z rapid	10000			
X and Z feed	5000			
W axis rapid	300			



Get in Touch.



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