

# FRONT RANGE CNC

Real Shops. Real Production. Real Results



See how Front Range CNC can help @ [www.frontrangecnc.com](http://www.frontrangecnc.com)

Front Range CNC is proudly based in Colorado Springs, CO.  
800-627-0892

# FRONT RANGE CNC

## Engineered for Cost-Effective Efficiency and Reliable Performance



At the heart of all our machines is the dedication to industrial, heavy frames, providing a solid foundation for accuracy in every cut. Meticulously engineered to meet the demands of diverse applications, every CNC router in our line boasts high-grade components fine-tuned for reliable precision. Coupled with sophisticated control systems, our routers ensure detailed execution across the entire machine frame, delivering exceptional accuracy essential for a broad spectrum of production needs.

Carefully selected components are the standard in our machines

Our CNC routers combine quality with affordability. Selectable HSD spindles and Becker vacuum pumps further enhance the machine's already industrial capabilities, providing tailored solutions for diverse professional needs. Robust electrical parts ensure durability, making our machines a wise investment for professionals who value dependable performance at a competitive price.



Our CNC router is so user-friendly your employees will actually look forward to using it every day!



Our CNC routers are designed with your ease of use in mind. At the heart of user interaction is a 21-inch touchscreen interface, offering intuitive control and effortless file management. This cohesive system prioritizes user-friendliness and reliability, setting our machines apart in a field often dominated by less integrated solutions. An advanced industrial controller setup, complete with matching drives and motors, ensures smooth and precise operations.

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## Industrial controller options that are *actually industrial...*

Our CNC routers set a new standard for CNC performance. Featuring a full Syntec system, high-speed M3 connections that significantly enhance data transfer compared to traditional 37-pin connectors. These connections enable quicker and more reliable communication between the machine's components, contributing to increased efficiency and precision.

Our Elite version introduces EtherCAT technology, a cutting-edge industrial Ethernet protocol that offers even faster data transfer speeds and deterministic real-time communication. EtherCAT enables seamless integration with a wide range of peripherals and automation components, empowering users to build highly efficient and flexible manufacturing systems.

Complementing the advanced connectivity is a user-friendly 21-inch touchscreen interface, making operation and file management intuitive and efficient. The Pioneer series also boasts powerful 1000 Watt servo motors and precise absolute encoder packages, ensuring stability, accuracy, and exceptional performance across a wide range of applications.

By combining a robust Syntec system with advanced connectivity options like EtherCAT, we deliver a comprehensive and reliable CNC solution. Whether you choose the standard M3 connections or the high performance EtherCAT on the Elite version, you're investing in a machine that is designed to meet the evolving demands of modern manufacturing.



## Taking quality control to a new level

At Front Range CNC, we go above and beyond for quality. Every CNC router undergoes an exhaustive 30-hour direct machine time testing to ensure peak performance under real-world conditions. This rigorous process, a hallmark of our commitment to quality, guarantees that each machine leaves our facility not just ready, but perfected.

We meticulously calibrate every component, from the precision of our spindles to the efficiency of our motors and the responsiveness of our controllers. This dedication to precision ensures that your machine delivers consistent, high-quality results cut after cut.

Beyond rigorous testing, we emphasize craftsmanship and operational excellence in every detail. The assembly and finish of each router reflect the high standards synonymous with Front Range CNC, resulting in a machine that is not only a testament to our dedication but also a valuable asset to your production environment.

When you choose a Front Range CNC router, you're choosing a machine that's built to last, designed to deliver unwavering quality, and engineered for enduring performance. Experience the difference of a machine crafted with precision and backed by our commitment to excellence.

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## What makes Front Range CNC Different?

At Front Range CNC, we're not just another manufacturer. We're challenging the status quo in the manufacturing industry, bringing a fresh perspective and a commitment to excellence that sets us apart.

We understand that every manufacturing operation is unique. That's why we don't believe in a one-size-fits-all approach. Our team of experienced engineers works closely with you to understand your specific needs and challenges. We then leverage our expertise to design and deliver custom CNC solutions that perfectly align with your production goals.

Our machines are built to last. Engineered with precision and crafted from high-quality materials, our CNC equipment is designed to withstand the rigors of demanding production environments. We prioritize reliability and durability, ensuring that your operations run smoothly and efficiently, minimizing downtime and maximizing productivity.

But our commitment to you goes beyond providing exceptional machinery. We believe in building long-term partnerships. Our dedicated support team is always available to assist you, whether you need technical guidance, troubleshooting assistance, or operator training. We're committed to your success, and we'll be there every step of the way to ensure you achieve your manufacturing goals.

At Front Range CNC, we're not just selling machines; we're empowering your business. We're investing in your success, providing you with the tools, the knowledge, and the support you need to thrive in today's competitive landscape. Join the Front Range CNC revolution and experience the difference.

### Technical Specs

Rapid Speed	2,500 IPM
Cutting Speed	1,600 IPM
Tolerance	+-.005"
Repeatability	+-.001"

### Cutting Envelope

4x8	49"x97"
5x10	61"x121"
5x12	61"x145"
7x10	85"x121"

### Frame

Table	Phenolic/Hard PVC
Bridge	Precision Milled Steel
Rails	25mm-30mm
Drives	Syntec
Encoders	Absolute
Spindle	ISO30/HSK 63F
4x8 Weight	4,500lbs
5x10 Weight	5,00lbs
5x12 Weight	6,000lbs
7x10 Weight	6,750lbs

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## Exclusive AI Driven CNC Companion



### Features and Benefits:

- Instant Technical Support 24/7
- Immediate answers to technical questions.
- Step-by-step troubleshooting guides.
- Professional maintenance tips.

### Enhanced Cutting and Finishing:

- Personalized cutting recommendations.
- Expert advice for top-notch finishes.
- Advanced vacuum fixturing techniques.

### Multilingual Communication:

- Communicates in virtually any language.
- Easy-to-understand instructions for diverse teams.

### Benefits for Small Shops:

- Reduce Training Time: New employees quickly get up to speed with AI-driven support.
- Minimize Downtime: Swift resolution of issues keeps machines running.
- Increase Efficiency: Expert cutting and fixturing advice streamline operations.
- Ensure Consistent Quality: Maintain high production standards despite staff changes.
- User-Friendly: Designed for operators with varying levels of technical skills.

## Eliminate Your Learning Curve

Running a small shop often means dealing with high employee turnover and constant training. CNC Companion is here to help. This AI assistant provides instant technical support, expert cutting advice, and advanced vacuum fixturing techniques—all at the touch of a button. With CNC Companion, even your newest employees can confidently operate CNC machines, reducing downtime and boosting productivity. Say goodbye to long training sessions and hello to consistent, high-quality results.

Imagine the time and resources saved when new employees can access a wealth of knowledge and support instantly. CNC Companion empowers your team to achieve the best results possible with every project. Whether it's tackling a technical issue, selecting the best settings for a new material, or ensuring the perfect finish, CNC Companion has you covered.

With multilingual capabilities, CNC Companion breaks down language barriers, making it an invaluable tool for diverse teams. Ensure continuity in your CNC operations, reduce the risk of errors, and enhance overall efficiency. It's like having an expert on call 24/7, ready to assist whenever needed.

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## Customer Service That Breaks the Mold



Remote Diagnostic



Phone Support



Chat Support



Next Generation AI

### Standard 3 Day Installation

While the rest of the industry is dialing back on on-site support—pulling customers out of their own workshops and into distant conference rooms for static, classroom-style training—we refuse to follow suit. In a market where remote sessions and mass seminars have become the new standard, we're committed to delivering a hands-on, personalized installation experience that meets you where you are. After all, your shop isn't just a building; it's your production hub, your business environment, and the space where real work gets done.

At Front Range CNC, we believe that you learn best by doing, not by sitting through slideshows. That's why our expert technicians come straight to your facility to guide you through every step of setting up and running your new CNC router. Instead of rushing through theory in a neutral venue, we focus on practical, machine-specific knowledge—answering your team's questions on the spot, showing them the ropes in real time, and ensuring they feel fully comfortable with the equipment in the very environment they'll use it.

By the end of our three-day on-site training, you won't just understand how your CNC router works—you'll have the hands-on confidence to put it to immediate, profitable use. From dialing in precision cuts and performing routine maintenance to optimizing workflows and troubleshooting common issues, your team will emerge empowered to hit the ground running. In a landscape where others are stepping away, we're stepping forward to ensure you get the support, expertise, and results you deserve.

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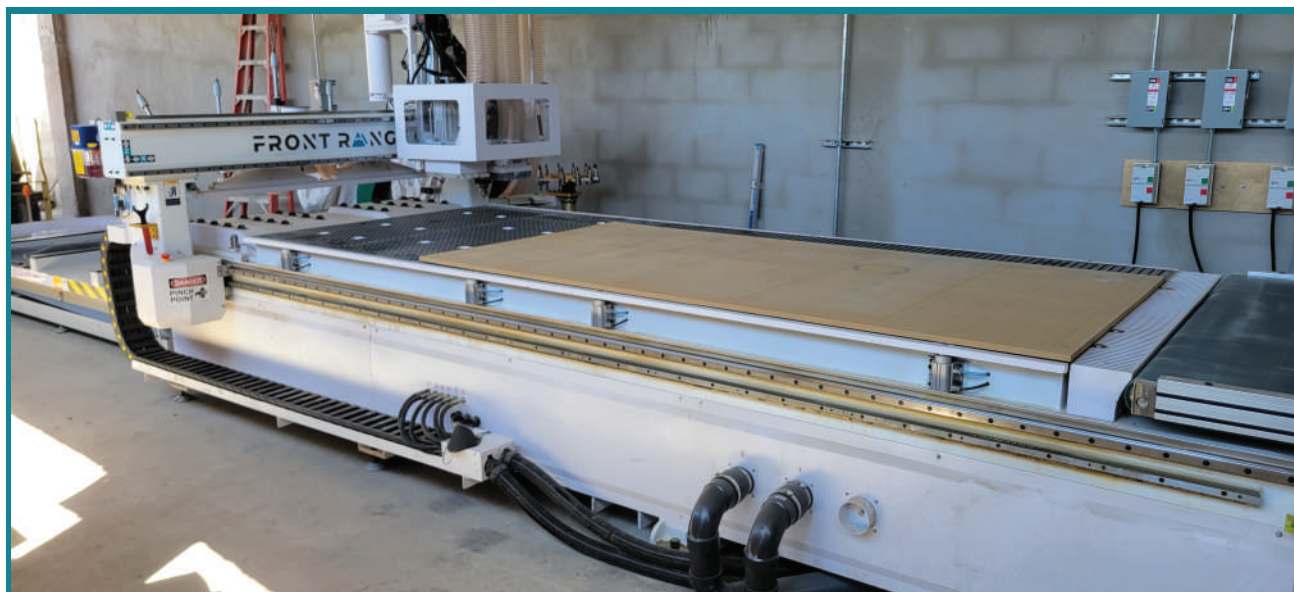
# FRONT RANGE CNC

## Where Tomorrow's CNC Innovations Take Shape Today

We're forging a new path in an industry that's been treading water for too long. While others are content with the same old designs and incremental improvements, we're out to break the mold. Our team is driven by genuine passion for machinery—an enthusiasm that fuels our pursuit of transformative solutions, not just minor tweaks.

At Front Range CNC, we reject the notion that the status quo is good enough. We embrace cutting-edge methodologies and emerging technologies, including the powers of AI, to push performance and precision further than ever. Our experience integrating advanced machine learning algorithms into CNC workflows has resulted in smarter tooling choices, predictive maintenance schedules, and dynamic adjustments that optimize every cut. By asking “What if?” and “Why not?” at every turn, we're making innovation a constant, not a campaign.

This isn't about following trends; it's about setting them. As we combine hands-on expertise with relentless R&D, we're not only delivering solid, reliable machinery—we're shaping the future of CNC router technology. For shops looking to do more, go further, and achieve the extraordinary, we're here to open new doors and push the limits of what's possible. With AI-driven insights and human ingenuity working side by side, tomorrow's breakthroughs are already taking shape today.




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# FRONT RANGE CNC




 Customer Support




 Machine Options




 Rack and Pinion vs Ballscrew




 About FRCNC




 Customer Success Story




 Easy to Use Controller




 Frameless Cabinet Cut



 Laser Frame Compensation



 Installation and Training

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## FOOTPRINT

Processing Area	Table Size	4' x 8'	5' x 10'	5' x 12'
	X-Axis Width	49"	61"	61"
	Y-Axis Length	97"	121"	145"
	Z-Axis Height	11.5"	11.5"	11.5"

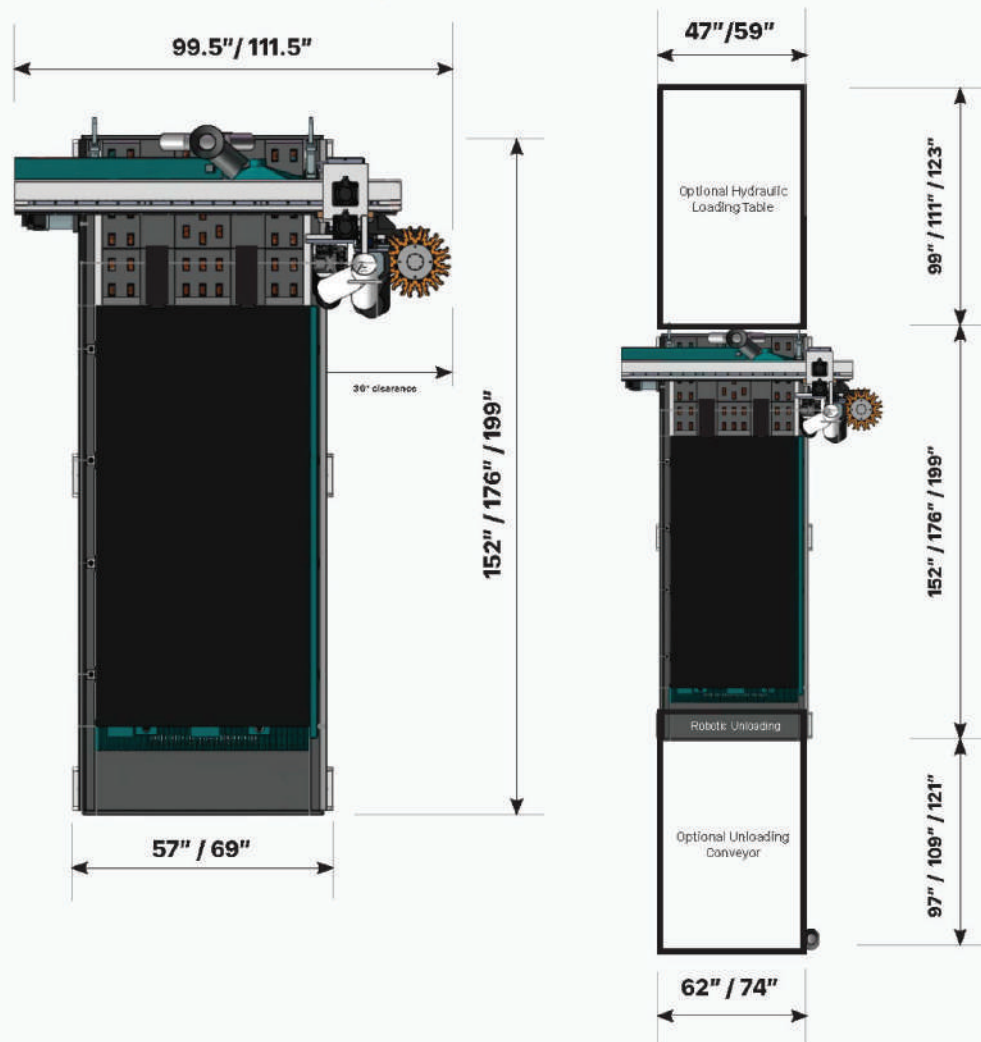
### Footprint

**4' x 8' Table**  
99.5" x 152" x 101"H

**5' x 10' Table**  
111.5" x 176" x 101"H

**5' x 12' Table**  
111.5" x 199" x 101"H

### 4x8, 5x10 and 5x12 Aerial Footprint





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## Make it Happen



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