

# FRONT RANGE CNC

## The Foundation

Industrial Components. Mighty Footprint



See how Front Range CNC can help @ [www.fronrangepnc.com](http://www.fronrangepnc.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 The perfect entry point into CNC machining, the Foundation model combines industrial-grade performance with a streamlined design tailored for cost-conscious users. Ideal for new shops starting their CNC journey or seasoned professionals seeking a reliable, no-frills machine, the Foundation offers the same trusted components as our Pioneer model. By opting for a user-friendly self-installation process, you enjoy significant cost savings without compromising on quality. Built to be dependable and accessible, the Foundation is your first step toward precision and productivity.

Carefully selected components are the  
standard in our machines

Our CNC routers combine quality with affordability, featuring reliable Syntec controllers that deliver precision and efficiency. Paired with Altura Precision vacuum pumps, these machines provide exceptional hold-down performance for demanding applications.

Equipped with robust HQD spindles and ceramic bearing, they offer industrial-grade capabilities tailored to diverse professional needs. With durable Syntec components ensuring long-term reliability, our machines are a smart investment for professionals who prioritize dependable performance at a competitive price.



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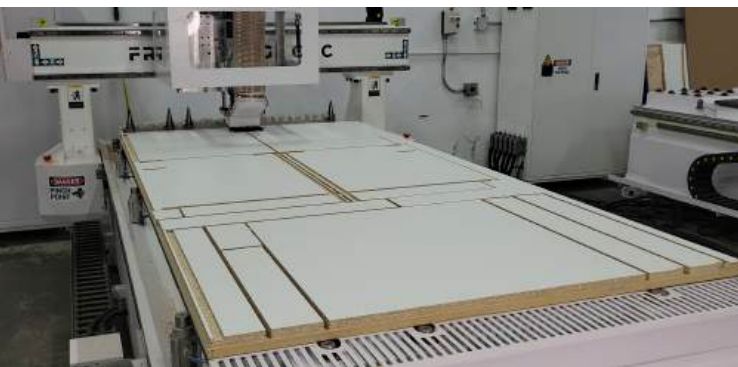
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## Industrial controller options that are *actually industrial...*

The Foundation CNC Router delivers industrial-grade performance in a streamlined and accessible package. Equipped with a robust Syntec industrial controller, it provides the reliability and precision required for professional machining applications. The user-friendly 21-inch touchscreen interface makes operation intuitive, allowing for seamless file management and efficient workflow.

The Foundation model features powerful 1000-watt servo motors, with dual motors on the Y-axis for added stability and precision during operation. These high-performance motors ensure smooth, accurate movement across a wide range of applications, making the Foundation a dependable choice for both new shops and seasoned professionals seeking a no-frills, high-value machine.

By focusing on essential industrial components and offering user-friendly self-installation, the Foundation CNC Router combines quality and affordability 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"

### Frame

Table	Phenolic/Hard PVC
Bridge	Precision Milled Steel
Rails	25mm-30mm
Drives	Syntec
Encoders	Absolute
Spindle	ISO30
4x8 Weight	4,500lbs
5x10 Weight	5,200lbs

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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

### Easy Installation



Remote Diagnostic



Phone Support



Chat Support



Next Generation AI

While many in the industry are scaling back on hands-on support, pushing customers into conference rooms for classroom-style training, Front Range CNC is doing things differently. We believe that setting up your CNC router should be simple, cost-effective, and empowering. That's why our Foundation CNC Router is designed for an easy self-installation process that saves you money while keeping you fully supported every step of the way.

Self-installation isn't just about convenience—it's about real cost savings. By eliminating the need for on-site installation, you can invest more in your shop and your business while still getting the same high-quality industrial-grade machine. And we don't leave you to figure it out alone. We provide clear, step-by-step instructions, detailed support materials, and access to our team of experts via phone or video calls whenever you need assistance.


What sets us apart even further is the built-in AI integration that makes operating your machine easier than ever. Our AI-powered assistant is there to guide you through setup, answer questions, and help troubleshoot in real time. Whether you're dialing in precision cuts, learning maintenance routines, or optimizing your workflow, the AI is your 24/7 resource for ensuring everything runs smoothly.

By the time your machine is up and running, you'll have the confidence and knowledge to put it to work immediately. At Front Range CNC, we're redefining self-installation by combining cost savings, cutting-edge AI technology, and expert support. It's CNC made simple, efficient, and accessible—without sacrificing the expertise and results you deserve.

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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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