

FRONT RANGE CNC

ELITE CNC ROUTER QUOTE



Ultimate Manufacturing - Production Performance
4x8 / 5x10 / 5x12 / 7x10 / Custom

OPEN OR ENCLOSED CONFIGURATION

CHOOSE YOUR MACHINE SETUP

OPEN CONFIGURATION



ENCLOSED CONFIGURATION



At Front Range CNC, we believe every shop is unique — and your machine should fit the way you work. That's why we offer both an enclosed model and an open-frame model at the same price. Whether you prioritize full access and visibility or a sealed, clean, and controlled cutting environment, you choose the configuration that best fits your workflow, floor plan, and dust/noise requirements. Same machine. Same performance. Same price. You decide what's best for your shop.





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Elite Pricing

Engineered for High Production, Efficiency and Reliable Performance

Paired with premium-grade motion components, high-resolution servo systems, and advanced CNC controls, the Elite delivers flawless repeatability across the entire work envelope. Whether you're pushing high-volume cabinet production or cutting aerospace-level contours, the Elite maintains accuracy, surface quality, and speed without breaking a sweat.



Production Components

Every Front Range CNC starts with industrial components

Each part is selected because it holds up where others don't — consistent power, clean cutting, low maintenance, and long service life. It's the difference between a machine that works hard and a machine that wears out.

And because we stand behind every component we use, every Elite comes with an industry-best 3-year parts warranty. When you invest in a Front Range CNC, you're getting more than premium components — you're getting three full years of guaranteed performance.



Built for Operators Easy to Use

The interface is intentionally simple and highly responsive, giving operators instant access to programs, tooling, offsets, vacuum controls, and machine status. No clutter, no hidden menus, no frustration — just fast navigation and clear information.

With high-resolution graphics, real-time diagnostics, and logical workflows, operators spend less time searching through screens and more time running parts. Training is faster. Mistakes are reduced. Changeovers move quicker.



The Most *STANDARD* Features Anywhere

Paired with the most standard features anywhere — from intuitive HMI workflows to automated tool calibration, precision ball screws, and integrated dust management — the Elite gives you production power without the learning curve. Every core function a modern shop depends on is built in, dialed in, and ready to run at full capacity from day one. Whether you're upgrading from a basic router or scaling into true production, the Elite keeps your process simple, reliable, and relentlessly consistent.

STANDARD FEATURE



16HP HSK Spindle



16HP HSK Spindle

The 16HP HSK spindle is built for shops that demand both speed and reliability. With its rigid HSK taper and high-torque motor, it delivers exceptional power for aggressive cutting while maintaining the precision needed for fine detail work. The dual-contact HSK interface increases stiffness at the tool holder, reducing deflection and improving surface finish—especially important in hardwoods, composites, and nested-based manufacturing.

Beyond raw power, the HSK system enables faster, safer tool changes and better balance at high RPM, making it a key component for consistent production throughput. Whether you're pushing deep cuts, driving large tooling, or running high-volume cycles, the 16HP HSK spindle keeps performance stable, accurate, and repeatable across every shift.

STANDARD FEATURE



5+4 Drill Bank

5+4 Drill Bank

A 5+4 drill bank is all about cutting cycle times without complicating your workflow. With five vertical spindles and four horizontal spindles arranged for common cabinet and casework patterns, the machine can drill shelf pins, construction holes, and horizontal dowels in one setup—no tool changes, no repositioning, no wasted motion. This configuration delivers instant drilling capability for the most-used patterns in production shops, dramatically reducing machining time on every sheet.

The result is simple: faster processing, cleaner holes, and less wear on your main spindle. For high-volume cabinet work or any operation that relies on consistent hole patterns, a 5+4 drill bank transforms efficiency and helps your router keep pace with real production demands.

The Most *STANDARD* Features Anywhere

LARGER THAN
5x10 ft
MACHINE SIZE

INCLUDES:



2 VACUUM PUMPS

4x8 ft
MACHINE SIZE

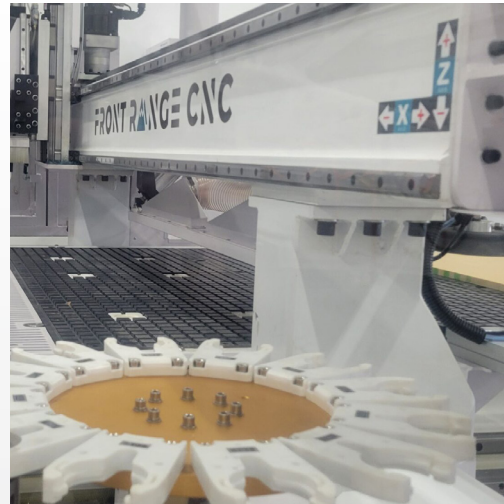
INCLUDES:



1 VACUUM PUMP

10HP Rotary Vane Vacuum Pumps

Every Elite Series machine comes equipped with industrial rotary vane vacuum pumps—one on the 4x8 and a dual-pump system on the 5x10 and larger models. Rotary vane technology delivers stronger, more consistent hold-down, allowing the Elite to secure full sheets and small parts even during high-speed, high-torque cutting. The result is cleaner edges, fewer part shifts, and the confidence to run aggressive nesting strategies with true production-level stability.



12 Position Carousel Tool Changer

Every Elite Series machine is equipped with a 12-position automatic tool carousel engineered for fast, reliable tool changes in real production environments. With tool-to-tool change times of roughly 7 seconds, the system minimizes non-cutting time and keeps programs moving efficiently—especially in nested-based manufacturing, cabinet production, and multi-tool workflows.

By including a high-capacity tool carousel as standard, we remove one of the biggest bottlenecks in CNC production and eliminate the need for future upgrades or workarounds. Whether you're running simple jobs or complex, multi-tool programs, the 12-position carousel ensures your Elite stays focused on cutting—not waiting—so it's truly production ready from the first cycle.



The Most *STANDARD* Features Anywhere



Included VCarve Pro & Mozaik

Every Elite Series machine comes with Mozaik and VCarve Pro, giving your shop a complete design-to-production workflow from day one. Mozaik handles fast, parametric cabinet design and automated nesting, while VCarve Pro adds powerful tooling control and flexibility for custom work, signs, and specialty machining. We also provide fully tested post processors for both programs, ensuring clean, reliable G-code output tailored specifically to your machine.

The result is a streamlined, professional workflow that's easy for new operators to learn yet deep enough for advanced users—so your machine arrives ready to cut, without extra software costs or setup headaches.



Included Tooling
HSK63F Tool Holders & Carbide Router Bits



Tooling Included

Your machine arrives fully outfitted with the tooling you need to start cutting on day one. We include a complete set of 12 HSK63F toolholders along with a versatile selection of router bits chosen to support a wide range of applications—whether you're machining wood, plastics, composites, or specialty materials. Each tool is picked to cover common operations like profiling, pocketing, drilling, and finishing, so you can run real production immediately.

Everything ships installed, organized, and ready to load into your tool library. No guessing, no scrambling for gear—just drop in your files and start cutting with a tooling package built to help you hit the ground running in whatever workflow you operate.



The Most *STANDARD* Features Anywhere



3 Year Parts Warranty

Every machine comes backed by a full 3-year parts warranty, giving you long-term confidence in the components that keep your production moving. From motion systems to electronics, we cover the critical hardware you rely on every day so you're never left guessing about support or replacement costs. It's a commitment to reliability and partnership—because when you invest in a Front Range CNC, we stand behind it for the long haul.

Our warranty is designed for real-world shops, with fast parts availability and responsive technical support to minimize downtime. If something fails, we make the replacement process simple and straightforward—no runaround, no hidden conditions. The goal is to keep your machine cutting, your schedule on track, and your business moving forward with total peace of mind.



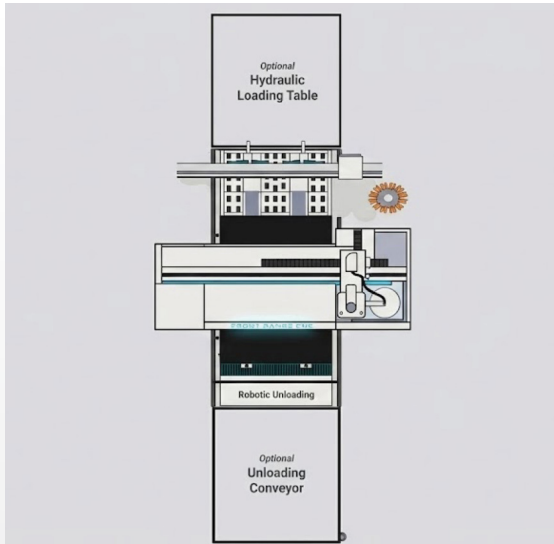
Automatic Machine Lubrication

Your machine comes equipped with a fully automatic lubrication system that keeps critical motion components consistently maintained without operator effort. By delivering precise amounts of lubricant to bearings, rails, and drive assemblies, it reduces wear, improves accuracy, and extends the life of your machine. It's one of the simplest ways to protect your investment while keeping production smooth and predictable.

The system monitors its own cycles and distributes lubrication at optimal intervals, ensuring consistent performance even in heavy-duty, all-day workflows. No manual greasing, no forgotten maintenance—just reliable, automated care that supports uptime and long-term precision. It's one more way we make sure your machine works as hard and as consistently as you do.



The Most *STANDARD* Features Anywhere



Grow as You Need

Your machine is built on a platform that lets you add automatic loading or unloading systems whenever the timing is right for your shop. Start with a standard workflow today, then scale into higher throughput as your production grows—without replacing your core machine. The frame, control, and motion architecture are all designed to accept these upgrades seamlessly, making automation a simple, future-ready step instead of a full rebuild.

Whether you need faster sheet handling, reduced labor, or more consistent cycle times, the system is ready when you are. Add the components you want, when you need them, and expand your workflow at your own pace.

3 Day Onsite Installation

Every machine includes a comprehensive 3-day onsite installation and training package to ensure you're fully up and running from day one. Our technician handles the complete setup, calibration, and verification of your system, followed by hands-on operator training tailored to your workflow. We cover everything from machine operation and tooling to maintenance routines and best production practices, so your team feels confident, safe, and ready to run real jobs immediately.

The goal isn't just to install a router—it's to set you up for long-term success. By the time we leave, your machine is dialed in, your operators are trained, and your shop is ready to produce with speed, accuracy, and consistency.



What Makes Front Range CNC Different

Front Range CNC was founded to challenge the industry. Instead of cutting corners, we doubled down on what production shops actually need: rigidity, accuracy, uptime, and support you can count on. No shortcuts. No surprises.

Every Elite starts with your workflow — the materials you cut, the cycle times you're targeting, the output your business demands. Our team tunes each build around real production goals. The result is a router that feels purpose-built for your operation, not just your price point.

Durability, precision, and fast support aren't upgrades — they're the standard. We test every machine, train every team, and stand behind every Elite with the industry's best warranty and customer service. Because we're not just selling a router. We're helping you build a production line you can depend on..

Table Specs

4' x 8'

Cutting Envelope

49" x 97"

Frame Weight

5,000lbs

5' x 10'

Cutting Envelope

61" x 121"

Frame Weight

7,000lbs

5' x 12'

Cutting Envelope

61" x 145"

Frame Weight

8,400lbs

7' x 10'

Cutting Envelope

85" x 121"

Frame Weight

9,800lbs

Frame Specs

Table

Phenolic/Hard PVC

Bridge

Precision Milled Steel

Rails

25mm - 30mm HiWin

Drives

High Speed Syntec

Encoders

Absolute

Spindle

16HP HSK 63F

Technical Specs

Rapid Speed

2,500 IPM

Cutting Speed

1,600 IPM

Tolerance

+ -.005"

Repeatability

+ -.001"

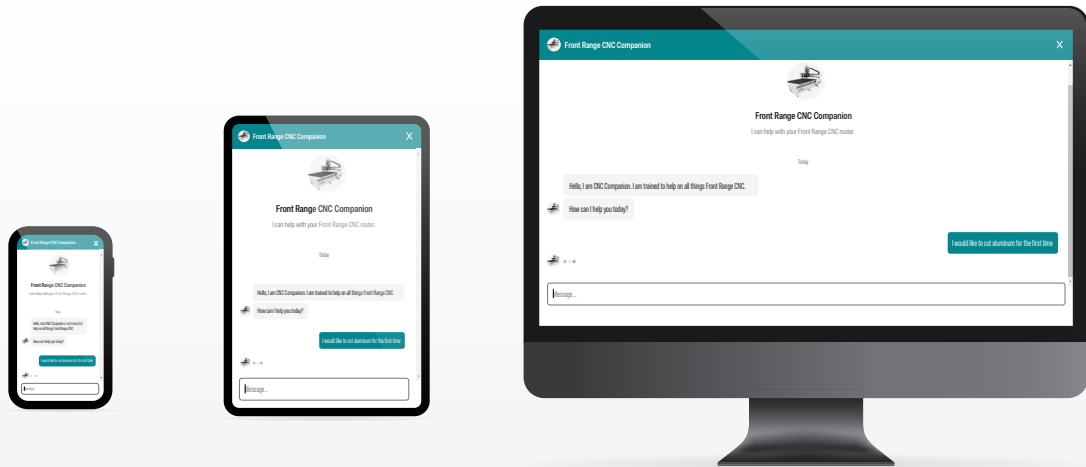
Tool Magazine Size

12 Positions

Tool Change Speed

7 Seconds

Exclusive AI Driven CNC Companion



CNC Companion puts real-world expertise at your fingertips. Running a business means juggling training, turnover, and time. This built-in AI assistant bridges that gap — offering instant answers, cutting advice, and fixturing guidance right on the controller screen.

New operators learn faster, seasoned ones work smarter, and downtime drops across the board. No long training sessions. No guessing. Just results. With multilingual support and 24/7 availability, CNC Companion keeps every operator connected, confident, and consistent — like having an expert on call, anytime you need it.

FEATURES & 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.
- 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.



Elite CNC Processing Area and Footprint

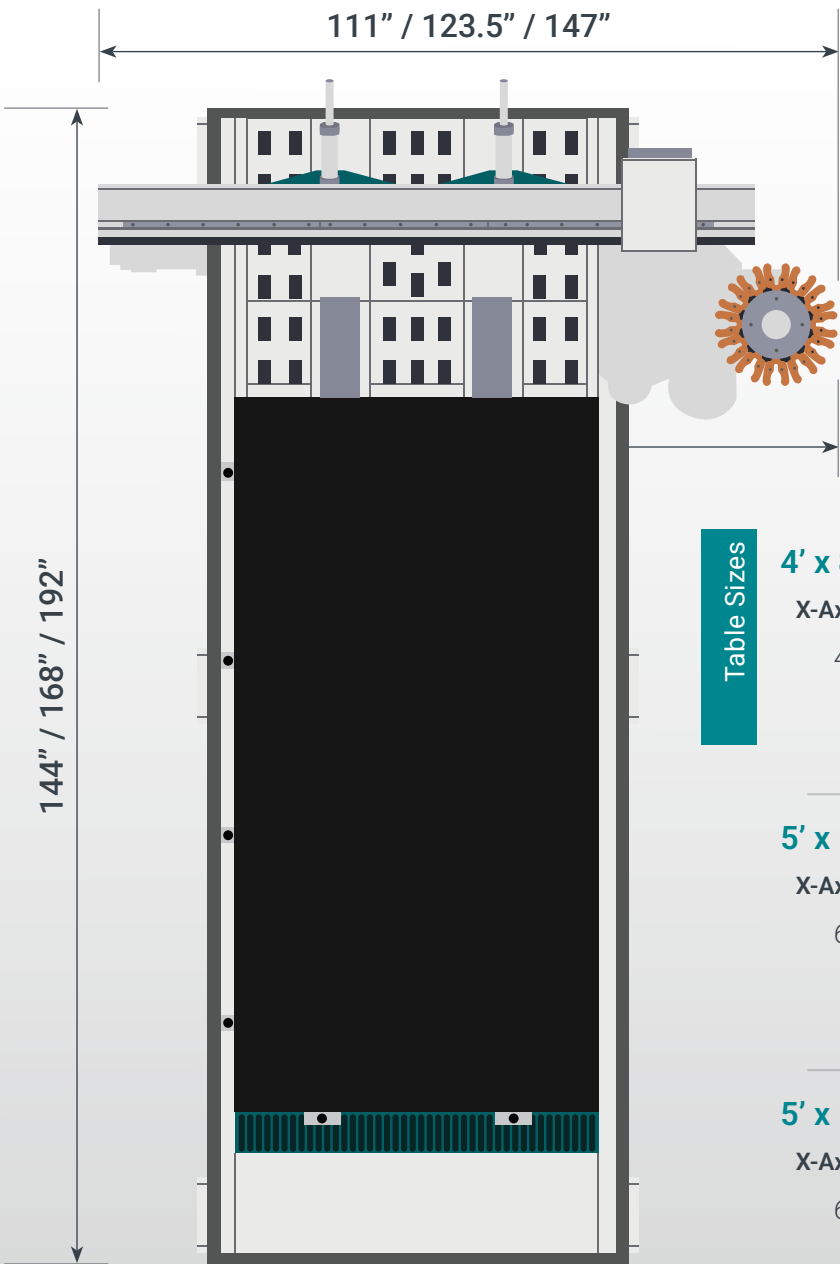


Table Sizes

4' x 8'		
X-Axis (W)	Y-Axis (L)	Z-Axis (W)
49"	97"	10"
Footprint		
111" x 144" x 101"H		

5' x 10'		
X-Axis (W)	Y-Axis (L)	Z-Axis (W)
61"	121"	10"
Footprint		
111.5" x 176" x 101"H		

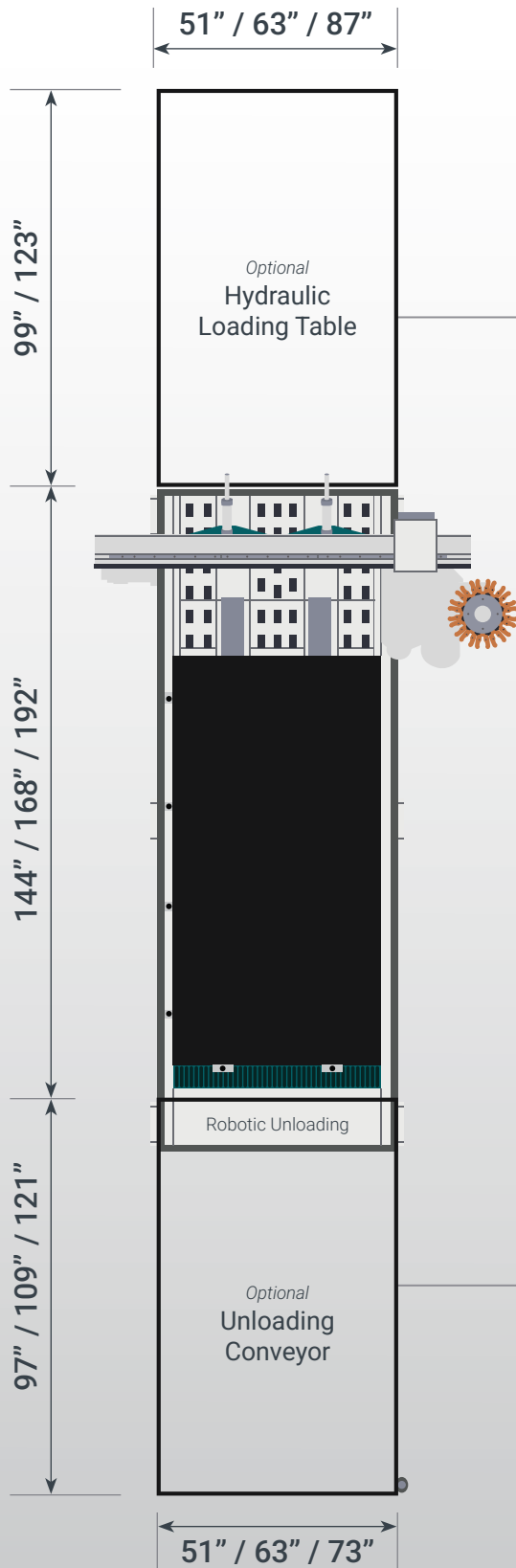
5' x 12'		
X-Axis (W)	Y-Axis (L)	Z-Axis (W)
61"	145"	10"
Footprint		
111.5" x 199" x 101"H		

7' x 10'		
X-Axis (W)	Y-Axis (L)	Z-Axis (W)
84"	121"	10"
Footprint		
147" x 168" x 101"H		

SEE HOW FRONT RANGE CNC CAN HELP BY VISITING US AT FRONTRANGECNC.COM



Production Addons and Footprint



Hydraulic Loading Table



Table Sizes

4' x 8'

Footprint 51" x 99"

5' x 10'

Footprint 63" x 123"

7' x 10'

Footprint 87" x 123"

Unloading Conveyor



Table Sizes

4' x 8'

Footprint 51" x 100" x ?"H

5' x 10'

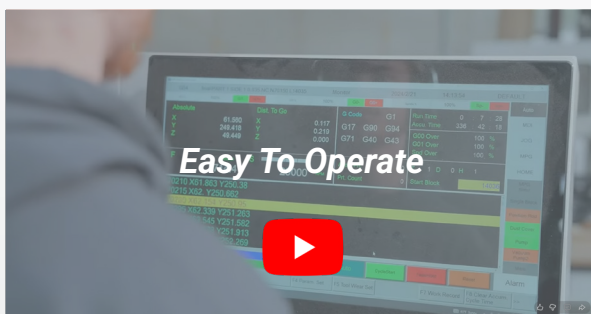
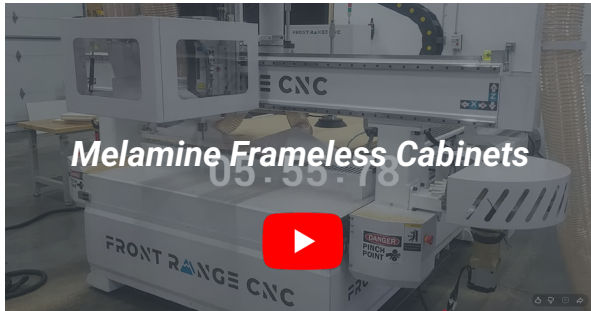
Footprint 63" x 123" x ?"H

7' x 10'

Footprint 73" x 123" x ?"H

SEE HOW FRONT RANGE CNC CAN HELP BY VISITING US AT FRONTRANGECNC.COM

See *FRCNC* in Action



SEE HOW FRONT RANGE CNC CAN HELP BY VISITING US AT FRONTRANGECNC.COM



Elite - Pricing and Options

Elite Pricing

4x8 Elite \$81,000

5x10 Elite \$85,000

5x12 Elite \$87,000

7x10 Elite \$89,000



Optional Add-Ons

**Loading + Unloading System
\$9,000**

Add automated material flow at any time. Designed to grow with your production needs.



**10HP 4-in-1 Compressor
\$7,999**

Exclusive Buy With Machine Pricing



Quote Reference

Date:

Customer Name:

