

Professor **CNC**

The Ultimate Bench Top CNC Router



Professor V4.4

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Standard Features



Solid Construction

All Professor CNC Routers feature a machined cast iron base frame and 1" thick cast aluminum support arms and gantry for extreme robustness and accuracy.

These machines feature unmatched stability for use on a work bench or one of our optional stands. Every machine has a gantry clearance of at least 8" and up to 9" on the M Series.

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Easy Operation

All Professor CNC routers use a NC Studio model NK105 G3 hand held controller. Simply download your work program from your computer to a memory stick, slide it into the USB port on the control panel and the hand held controller works everything from there.

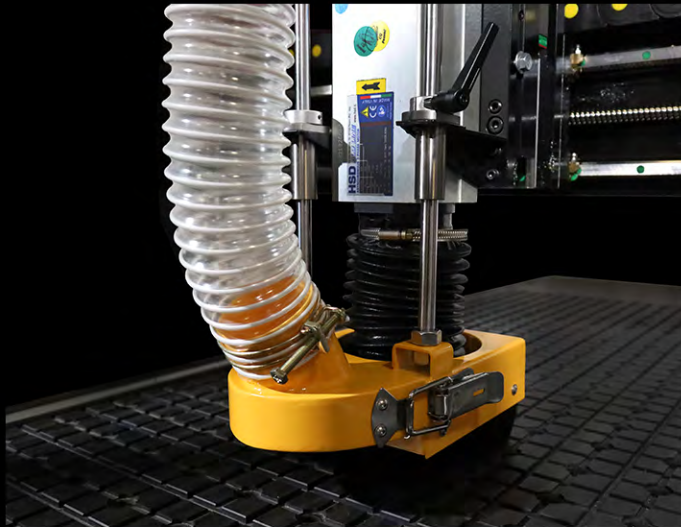
The control cabinet is full of Schneider CSA contactors, fuses and holders, motor controls and NC Studio control boxes. We use Omron micro limit switches for controlling stops and movements of the home positioning. The Professor is fully CSA certified for use in Canadian and American schools and commercial applications.



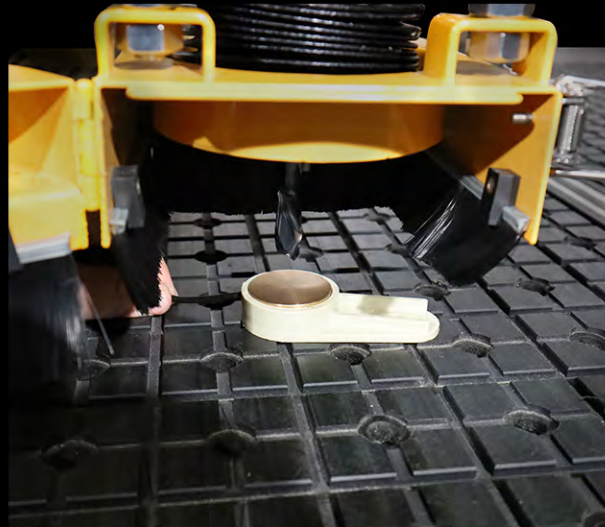
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Standard Features



Newly designed dust hood w/2.5" port



Movable Tool touch off device



THK Linear guides rails on all 3 axis

Additional Enhanced Features

- 3 High torque NEMA 34 stepper drive motors
- Direct gear reducers
- 16mm \varnothing Precision ball screw on Y, X & Z axis
- 3 Limit sensors (1 per axis)

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Optional 4th Axis Capabilities

Unique to the Professor V & Q series bench top CNC is the ability to add an optional fourth axis attachment for working projects in the round. The Professor V & Q series machines are all pre-wired, so simply purchase the fourth axis attachment and plug it into the CNC.



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Optional Stands

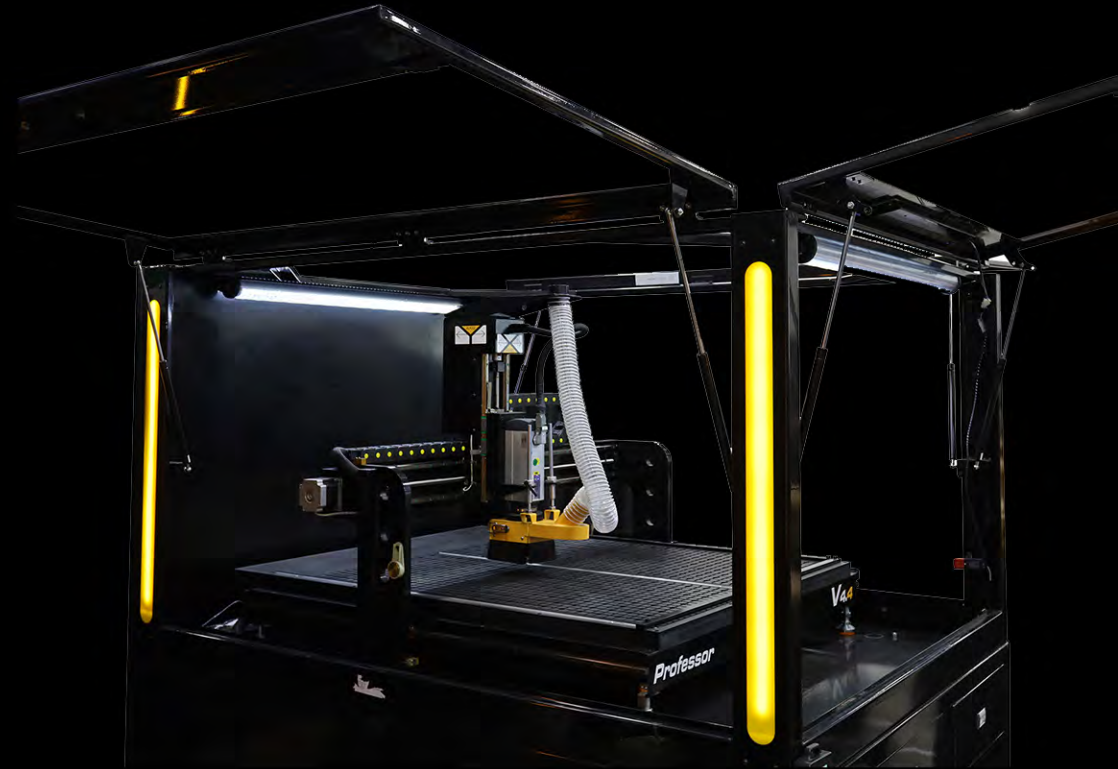
An optional heavy duty steel stand with 5mm thick support legs are available for most models. These stands are specifically designed to handle the weight of the solidly-built Professor CNC Routers.



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Optional Safety Enclosures



Enclosures feature interior & exterior illumination, electronic safety switches on all 3 doors, convenient storage drawers & mobility casters.

Available for all Professor 2.2, 2.3, 2.4 & 4.4 CNC models.

M Series



Professor

M^{SERIES}
2.3

M Series

The M Series is the gateway into the world of Professor CNC Routers.

All M Series products feature a Bosch 2.25HP Router Spindle, a black anodized aluminum T-Slot table with optional hard rubber spoil board strips and run on 110v power.

Model Name	Professor M2.2	Professor M2.3
Working Capacity	23½" x 23½" x 9"	23½" x 35½" x 9"
Machine Bed	Anodized Aluminum-Track	Anodized Aluminum-Track
Rapid Travel Speed	8 m/m - 315 in/m	8 m/m - 315 in/m
Spindle Size	2¼ HP Bosch Router Spindle	2¼ HP Bosch Router Spindle
Collet Type and Capacity	¼" & ½"	¼" & ½"
Driver	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis
Controller	NK105 G3 Handheld Controller USB File Transfer	NK105 G3 Handheld Controller USB File Transfer
Features	Movable Tool Touch off Device 2½" Dust Collection Boot Incl.	Movable Tool Touch off Device 2½" Dust Collection Boot Incl.
CAD List Price	\$6,499.95 (Bosch router sold separately)	\$6,999.95 (Bosch router sold separately)

V Series



Professor

V SERIES
2.4

V Series

All V Series CNC Routers are designed with premium features including an air cooled Italian-made electrospindle and a combination T-Track & vacuum bed. All V Series models run on 220v power and are rotary axis ready, including the 4th driver and quick connection.

Model Name	Professor V2.3	Professor V2.4	Professor V4.4
Working Capacity	23½" x 35½" x 8"	23½" x 51" x 8"	47½" x 47½" x 8"
Machine Bed	Combination T-Track & Vacuum Bed	Combination T-Track & Vacuum Bed	Combination T-Track & Vacuum Bed
Rapid Travel Speed	8 m/m - 315 in/m	8 m/m - 315 in/m	8 m/m - 315 in/m
Spindle Size	2HP HSD Italian Electrospindle	2HP HSD Italian Electrospindle	4HP HSD Italian Electrospindle
Collet Type and Capacity	ER25 (up to 5/8" collets)	ER25 (up to 5/8" collets)	ER25 (up to 5/8" collets)
Driver	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis
Controller	NK105 G3 Handheld Controller USB File Transfer	NK105 G3 Handheld Controller USB File Transfer	NK105 G3 Handheld Controller USB File Transfer
Features	Movable Tool Touch off Device 2½" Dust Collection Boot Incl. Rotary Axis Ready	Movable Tool Touch off Device 2½" Dust Collection Boot Incl. Rotary Axis Ready	Movable Tool Touch off Device 2½" Dust Collection Boot Incl. Rotary Axis Ready
CAD List Price	\$11,499.95	\$12,299.95	\$16,499.95

Q Series



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Q4.4 SERIES

Q Series

Q Series CNC Routers are loaded with advanced features, including a water-cooled automatic tool change spindle, 4 position linear tool changer, fixed tool touch-off device, and a combination T-Track & vacuum bed. Q Series models are rotary axis ready and have the 4th driver and quick connection ready. All Q Series models run on 220v power.

Model Name	Professor Q2.3	Professor Q2.4	Professor Q4.4
Working Capacity	23½" x 35½" x 8"	23½" x 51" x 8"	47½" x 47½" x 8"
Machine Bed	Combination T-Track & Vacuum Bed	Combination T-Track & Vacuum Bed	Combination T-Track & Vacuum Bed
Rapid Travel Speed	8 m/m - 315 in/m	8 m/m - 315 in/m	8 m/m - 315 in/m
Spindle Size	3.4HP Water Cooled Auto Tool Change	3.4HP Water Cooled Auto Tool Change	3.4HP Water Cooled Auto Tool Change
Collet Type and Capacity	ER20 (up to ½" collets)	ER20 (up to ½" collets)	ER20 (up to ½" collets)
Driver	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis	3 Stepper Motors 16mm Ball Screw on all 3 Axis THK Linear Guides all 3 Axis
Controller	NK105 G3 Handheld Controller USB File Transfer	NK105 G3 Handheld Controller USB File Transfer	NK105 G3 Handheld Controller USB File Transfer
Features	Movable Tool Touch off Device Fixed Tool Touch off Device 2½" Dust Collection Boot Incl. 4 Position Linear Tool Tray Water Cooler Included Rotary Axis Ready	Movable Tool Touch off Device Fixed Tool Touch off Device 2½" Dust Collection Boot Incl. 4 Position Linear Tool Tray Water Cooler Included Rotary Axis Ready	Movable Tool Touch off Device Fixed Tool Touch off Device 2½" Dust Collection Boot Incl. 4 Position Linear Tool Tray Water Cooler Included Rotary Axis Ready
CAD List Price	\$15,499.95	\$16,999.95	\$21,999.95

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