





TECHNICAL SPECIFICATIONS

OUICK LINKS



See the PHYTHON XPR in action on Youtube

SEE THE PYTHON IN 360°

SEE FINANCING OPTIONS

GET A QUOTE

- www.CNCfactory.com
- 714-581-5999
- sales@cncfactory.com

5G CNC Inclusions:

- Robotic CNC Machine Center with automatic loading & unloading tables
- 12HP ATC HSD air-cooled spindle
- Driverless servo system with helical rack & pinion
- No machine homing or calibration
- 12-tool rotary carousel with rapid 8-second tool change
- Driverless mobile control center with 21" touch screen, wireless remote & HD Camera
- Automatic material alignment pins, loading arm & wheels
- Robotic cleaning & unloading
- Zoned dual-layer, high-flow vacuum table
- Automatic vacuum communication
- Auto tool length, pressurized lubrication & robotic material sensing dust hood
- Space-saving integrated robotic wiring
- On-board air-conditionig
- 12 ISO-30 tool holders & 1 ISO tool changer
- Pre-wired for Plug & Play add-ons

Support & Warranty

- Lifetime machine support
- 18-month parts and components warranty
- 5-year advanced exchange program
- CNC University training

Pre-installed software option:









TECHNICAL SPECS

Speeds	1500 inches per minute cutting, 2500 inches per minute rapid movements
Spindle	12HP HSD (9kw) ISO-30 air cooled ATC spindle with manual release
Carousel ATC	 12-position ISO-30 servo controlled rotary carousel ride-along ATC tool changer (8 seconds) Twelve (12) ISO ER-30 tool holders and ER wrench included Auto tool length measurement sensor included
CNC Controller	 5th generation 21" touch screen industrial control center with handheld controller and easy button operation Syntec electrical control with PC front end Built-in continuous operation file saving and production override with speed control G-Code compatible with virtually every CAD and woodworking software. Tool wear history with built-in alarm stops, USB, WiFi, ethernet, work coordinates and on-screen programming
Cooling	On-board integrated air conditioner
Network Communications	Windows 10 front end with ethernet ready connection and WiFi compatible
Software Installed	KCD Software option. The Python is compatible with virtually all G-code
Servo System	Yaskawa 5G encoding system with self-adjusting servo operations
Repositioning	Acceleration and deceleration working and repositioning within +/001"



FOOTPRINT

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

Z-Axis Clearance Up to 4.5" clearance Custom size tables and configurations available with unloading arm

Up to 7" clearance without unloading arm

Footprint

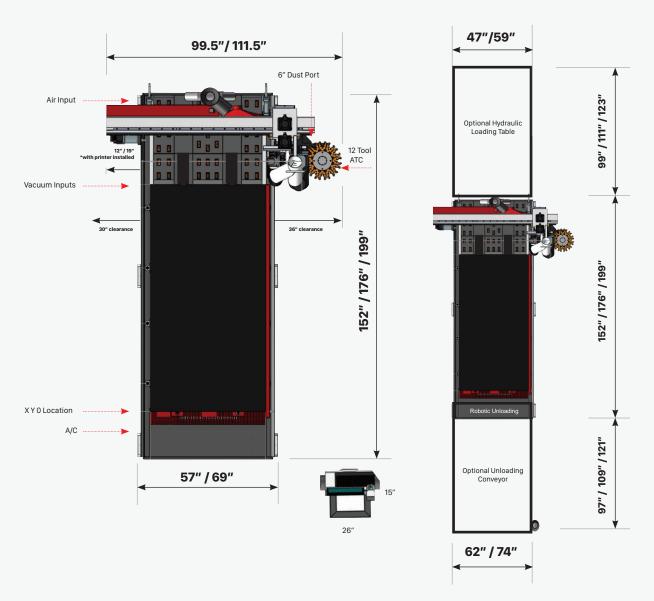
4' x 8' Table 99.5" x 152" x 101"H

7200lbs.

4' x 10' Table 99.5" x 176" x 101"H 7600lbs. **5' x 10' Table** 111.5" x 176" x 101"H 7800lbs.

5' x 12' Table 111.5" x 199" x 101"H 8500lbs.

4'X8', 5'X10' AND 5'X12' TOP VIEW





MECHANICAL/ELECTRICAL INSTALLAITON

AC - CNC Machine: • 208-240 volts, 3 phase. 30amps.

• Single phase option available for additional charge.

AC - Vacuum Pump: • 208-240 volts, 3 phase. 50amps.

• 208-240 volts, single phase. 70amps.

Air Pressure: (3/8" inlet) 8 bar, 120 psi, 9 cfm

Dust Collection: • 2800 cfm for main 6" port

Gravity for the secondary 4" port

• Gravity for the unloading table 4" port

UPGRADE OPTIONS

Production Upgrades: • Custom table size

Custom gantry height

• Single-phase power conversion

Aggregate head rotary on spindle

Plug & Play Upgrades: 9-Position drill block

4-Port marking block

V300 Vacuum pump

Mister kit

Robotic label printing & application

• Robotic arm to handle post production

Tooling: • Deluche Vision Marking Tool

Cabinet Startup tooling kit

· Cabinet & drill block tooling kit

INSTALLATION

Installation, when purchased, will be performed by a CNC Factory-trained service technician or Certified Dealer Technician. Installation is to be understood as the assembly of the machine to the "ready to run" state. It does not include floor, masonry work, machine leveling, the running of electrical, pneumatic or dust extraction services to the site. Training will be on the machine operations only. Software training, if any, can be done before or after installation by CNC Factory University training services. Training will be conducted on site by the service technician after installation has been completed.

Options:

- 2-day on-site installation and training by certified CNC Factory technician. Flat rate for any location in the continental USA. Inclusive of travel & incidental expenses.
- Extra training day on top of standard 2-day installation. Must be purchased together with standard 2-day installation.



CNC FACTORY 5G CNC ROUTERS

	VIDER	SIDEWINDER	PYTHON
5th Generation CNC Features			
ATC Air-Cooled Spindle	10HP	12HP	12HP
No Homing or Alignment Servo System	√	√ ·	<u>√</u>
Axis Motor Size (X&Y)	Servo 750W	Servo 750W	Servo 850W
Axis Motor Size (XX)	Servo 1300W	Servo 1300W	Servo 1300W
Oriverless Mobile Touch Screen & Remote Controller	✓	✓	✓
Cutting Speed	1000 IPM	1200 IPM	1500 IPM
Travel Speed	2000 IPM	2200 IPM	2500 IPM
Auto Tool Measuring	2000 II W	2200 II W	2300 II W
ATC Tool Changer Setup	on gantry bar	rotary carousel	rotary carousel
ATC Tool Changer Setup	8 tools, upgradable to 12	8 tools, upgradable to 12	12 tools
Fool Change Time	8 seconds	8 seconds	8 seconds
	o seconds	o securius	o seconds
GG Helical Rack & Pinion (X & Y axes)	· · _	· ,	· ,
Network, WiFi, USB Connectivity	√	√	√
Onboard Air-conditioning & Cooling	√	√	√
ressurized Automatic Oil Lubrication	√	√	√
G Servo System	√	√	√
ompatiblilty with popular CAD/CAM software	√	√	√
ervo Gear Reduction	✓	✓	√
ntelligent Zoned High-flow Vacuum System	single layer	dual layer	dual layer
Material Position Pins & Guide Rails	✓	✓	✓
obotic Material Alignment	X	upgradable	\checkmark
obotic Cleaning & Unloading	X	✓	\checkmark
obotic Material Sensing for Dust Extraction	X	upgradable	✓
Peluche Vision Marking Tool	sold separately	sold separately	sold separately
300 Intelligent Vacuum Pump	sold separately	sold separately	sold separately
obotic Label Printing & Application	X	X	upgradable
Built-in Software & Tool Holders			
CCD (if pre-qualified for KCD 6-month CNC Commander Trial)	✓	✓	√
/Carve Pro	•	•	
SO-30 Tool Holder	8 Tools	8 Tools	12 Tools
Duadratian Unavada			
Production Upgrades			
Custom-sized tables	√	√	√
Custom gantry height	✓	✓	✓
Single-phase power conversion	√	√	✓
Anytime Upgrades			
Spindle	to 12HP	X	Х
- I-Position Drill Block	✓	✓	✓
TC tool	up to 12	up to 12	X
- Port Marking block	√ ·	√	√
/300 Vacuum Pump	→	V	<u> </u>
Peluche vision marking tool	→	▼	
Mister	▼	▼	
obotic Material Alignment	X	V	included
Robotic Material Alignment	X	Y	included
		V	
lydraulic Automated Loading Table	X	√	included
Inloading Conveyor with Material Sensing	X	√	included
obotic Label Printing & Application	X	X	✓
raining			
ifetime Technical Support	✓	\checkmark	✓
NC University Certification	· /	√	
n-Site Support	sold separately	sold separately	1 year
Warranty			
Avarranty dvance Exchange Program on Major Components	F.12225	Evenue	F
	5 years	5 years	5 years
Warranty	18 months	18 months	18 months