

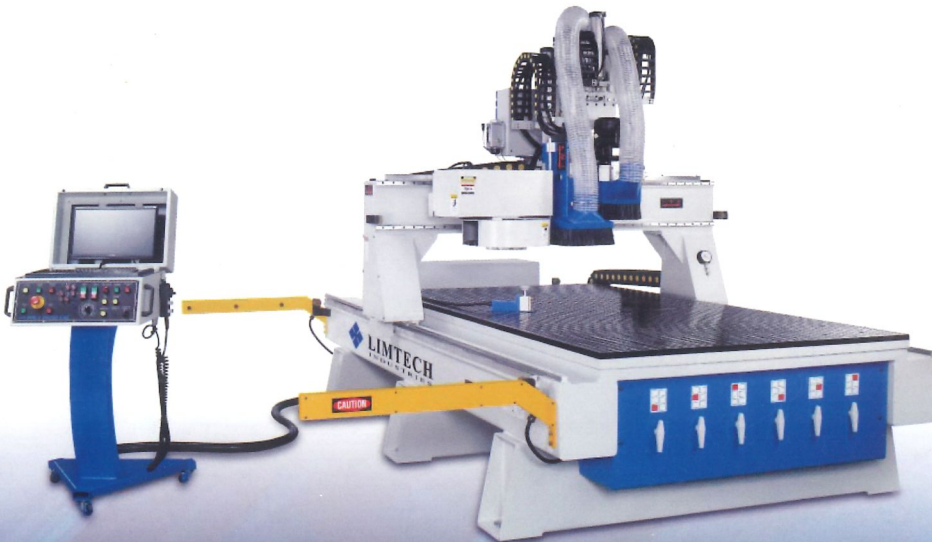
Industrial CNC Routers Specifications

ORION CNC Series



Model	Table Size
Orion 48	4'x8'
Orion 510	5'x10'
Orion 512	5'x12'
Other custom sizes available	

PEGASUS CNC Series



Model	Table Size
Pegasus 48	4'x8'
Pegasus 510	5'x10'
Pegasus 512	5'x12'
Pegasus 523	5'x23'
Other custom sizes available	

Orion CNC Router Series

The **Orion** Series is our mid range 3-axis moving gantry type cnc routers for panel processing of wood, plastic, foam core, composite, and other non-ferrous metal materials. Standard and custom parts that require up to 8 (eight) automatic tool change capacity to perform vertical machining and drilling per program cycle.



Mobile industrial controller configured with PC Front-End for ease of operations within the Operator's safety zone. Quickly switch vacuum zone for standard material sizes for NBM.



8 (eight) position automatic tool change capacity, equipped with automatic tool length calibration.



Excellent moisture-temperature resistance phenolic table top offers precision machining.

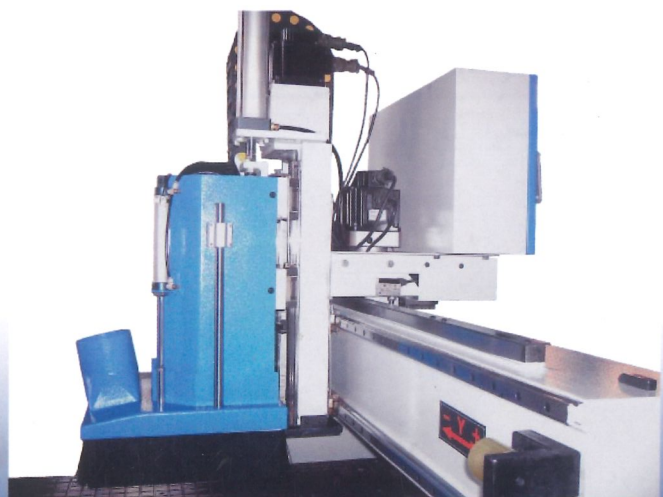
Orion CNC Router Series



Heavy-duty, welded, structural steel frame construction provides rigidity and stability.



Built-in electrical cabinet for space saving and easy maintenance access.



Heavy gantry and Z-axis construction with pneumatic counter balance.

Orion CNC Router Series

Configuration:

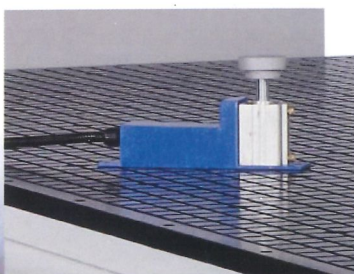
- ◆ Welded structural steel frame construction, stressed relieved prior to precision machining
- ◆ Phenolic tabletop with multiple vacuum zones
- ◆ X-axis: Servo motors & Gearbox with Rack-Pinion on 30MM guide rails
- ◆ Y-axis: Servo motor & Gearbox with Rack-Pinion on 25MM guide rails
- ◆ Z-axis: Ball screw on 25MM guide rails
- ◆ Closed-loop AC Servo motor on each axis
- ◆ Compact footprint

The X-axis has two servo motors, one on each side of the gantry in a dual drive system.

Primary Operating Features:

- ◆ One 7.5HP primary spindle with ER-32 collet quick change system
- ◆ Automatic spindle dust brush
- ◆ 8-position static or linear tool change capacity
- ◆ Automatic tool length calibration
- ◆ 3 (three) table top reference pins
- ◆ Safety light barrier for operator's work zone
- ◆ Centralized lubrication system
- ◆ Max. speed of up to 2,165 Inches/Min.
- ◆ Mobile Intek industrial cnc controller with MPG, configured with user-friendly PC Front-End
- ◆ Accepts any CAD/CAM or Design software system that generates standard G-codes
- ◆ LIMTECH Industries' common size vacuum zones for nested-base manufacturing applications. Quickly and easily switch vacuum zone for standard material sizes without having to mess with table gaskets and plugs!

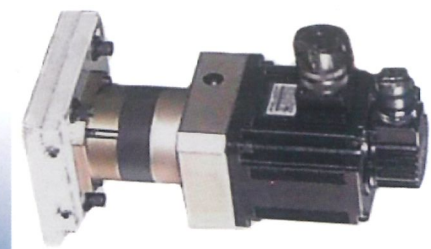
Model	Table Size	Common Size Vacuum Zones
Orion 48	4'x8'	4'x4', 4'x8', other custom sizes
Orion 510	5'x10'	5'x5', 4'x8', 5'x8', 5'x10', other custom sizes
Orion 512	5'x12'	5'x5', 4'x8', 5'x8', 5'x10', 5'x12', other custom sizes
Other custom table sizes available		



Automatic tool length calibration and registration.



Phenolic table top

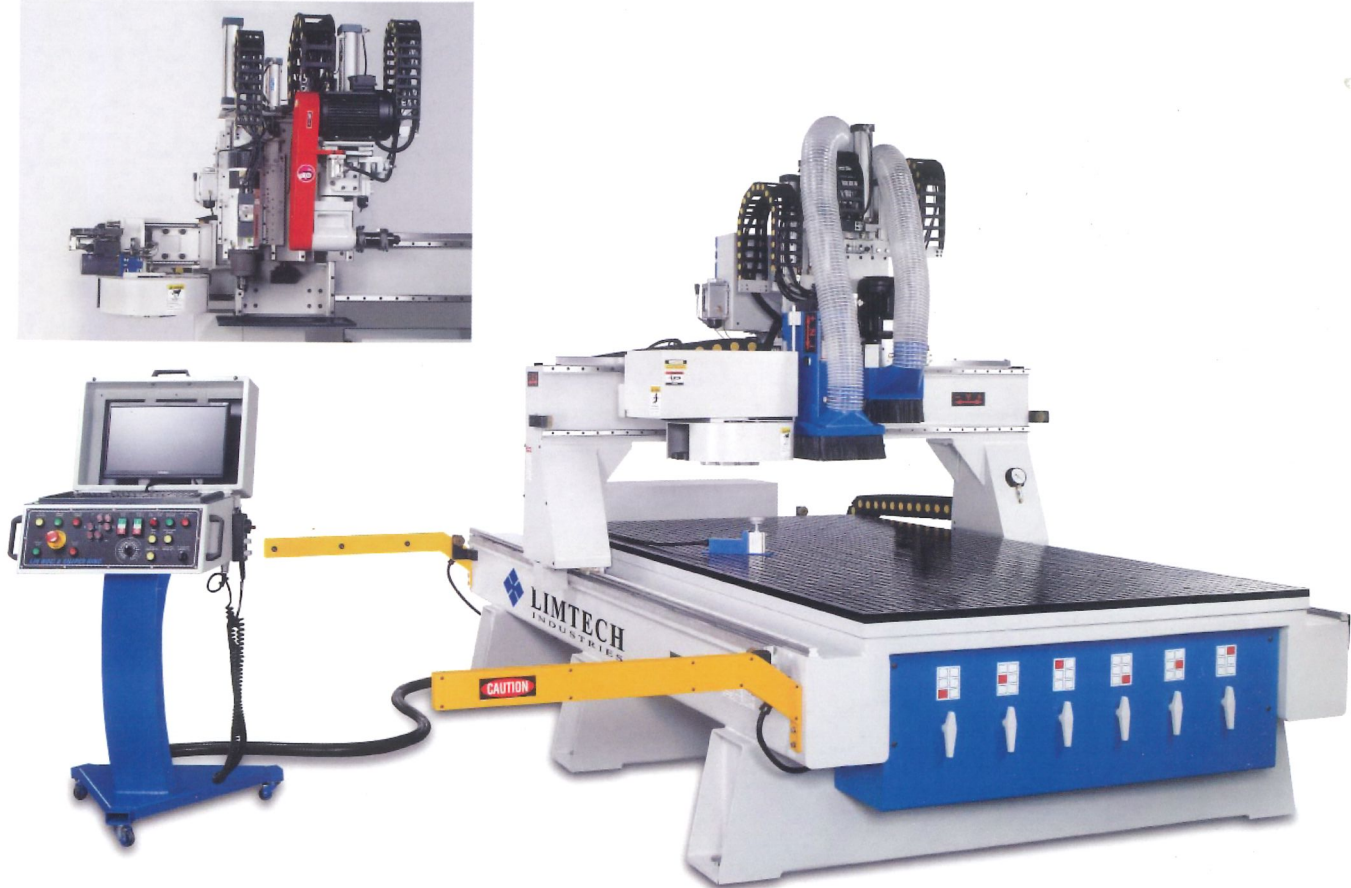


Servo motor & Gearbox configuration offers maintenance-free solution.

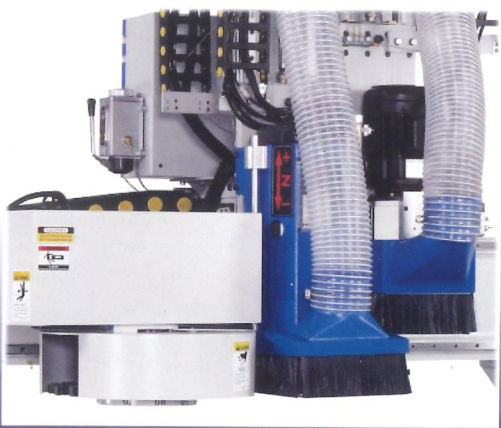
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Pegasus CNC Router Series

The **Pegasus** Series is our premium 3-axis moving gantry type cnc routers for panel processing of wood, plastic, foam core, composite, and other non-ferrous metal materials. Standard and custom parts that require up to 10 (ten) automatic tool change capacity on-the-fly to perform vertical machining and drilling per program cycle. The secondary spindle head is equipped with a 9 (nine) vertical drill spindles on 32MM system for woodworking professionals.



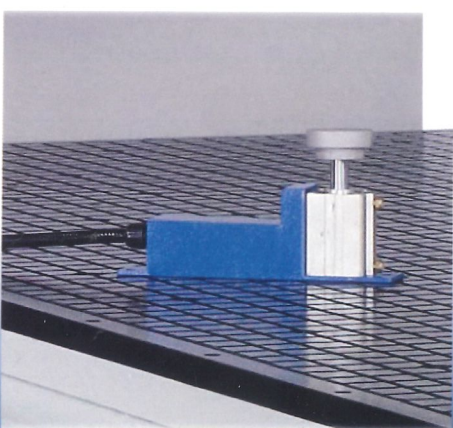
Mobile industrial controller configured with PC Front-End for ease of operations within the Operator's safety zone. Quickly switch vacuum zone for standard material sizes for NBM.



10-Position automatic rotary tool changer, 11HP Spindle, 9-vertical drill spindles.

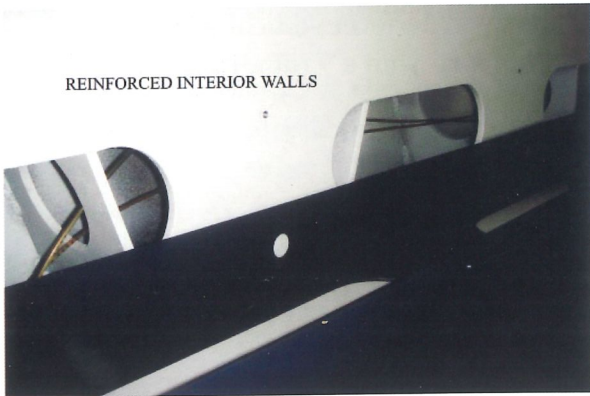


Individual pneumatic valve for each drill



Automatic tool length calibration and registration.

Pegasus CNC Router Series

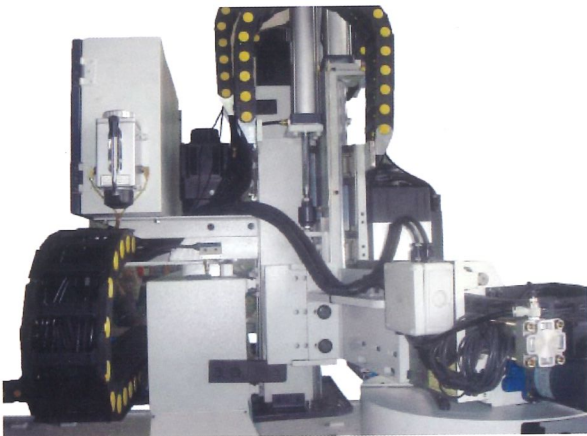


REINFORCED INTERIOR WALLS

The interior walls of the entire frame for the Pegasus cnc series are reinforced for rigidity and stability during high speed operations.



Vertical rack position with dust cover for compact design and easy maintenance.



Heavy gantry and Z-axis construction with pneumatic counter balance.



Servo motor & Gearbox configuration offers maintenance-free solution.

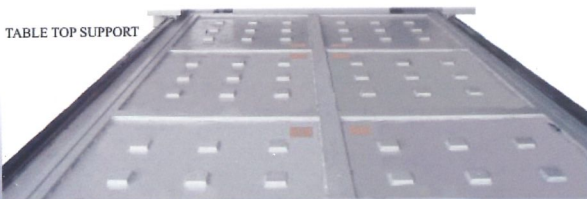
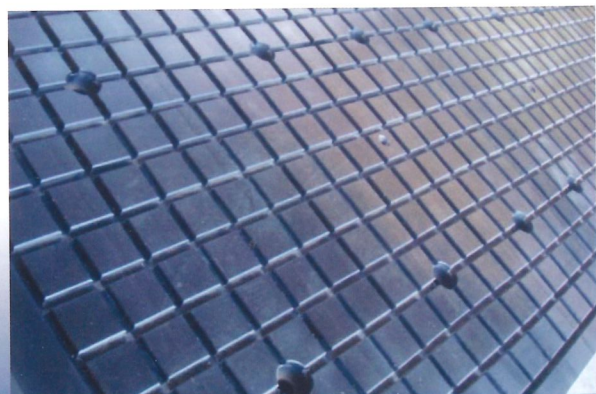


TABLE TOP SUPPORT

Our phenolic table top support and securing system provides zero work surface fluctuation during vacuum hold-down and release.



Phenolic offers excellent resistance to moisture and temperature - providing smooth and accurate working surface every single time.

Pegasus CNC Router Series

Configuration:

- ◆ Welded structural steel frame construction, stressed relieved prior to precision machining
- ◆ The steel frame is mended, then reinforcements are welded throughout the interior walls to reduce noise and vibration during high speed operations
- ◆ Phenolic tabletop with multiple vacuum zones depending on table size
- ◆ X-axis: Servo motors & Gearbox with Rack-Pinion on 30MM guide rails
- ◆ Y-axis: Servo motor & Gearbox with Rack-Pinion on 25MM guide rails
- ◆ Z-axis: Ball screw on 25MM guide rails
- ◆ Closed-loop AC Servo motor on each axis
- ◆ Compact footprint

The X-axis has two servo motors, one on each side of the gantry in a dual drive system.

Primary Operating Features:

- ◆ One 11HP primary spindle with ER-32 collet quick change system
- ◆ 10-Position rotary type automatic tool changer, spindle-mount type for efficiency
- ◆ Automatic tool length calibration - saves time from manual calibrations and inputs!
- ◆ One 9-vertical drills spindle head on 32MM centers in L-shape configuration (5 on X-axis, 5 on Y-axis) independently selectable or in combinations via programming
The drill spindle has full table coverage without gantry extension
- ◆ Safety light barrier for operator's work zone
- ◆ 3 (three) tabletop reference pins
- ◆ Centralized lubrication system
- ◆ Spindles dust shrouds that operate automatically!
- ◆ Max. speed of up to 2,165 Inches/Min
- ◆ Mobile Intek industrial cnc controller with MPG, configured with user-friendly PC Front-End
- ◆ Accepts any CAD/CAM or Design software program that generates standard G-codes.
- ◆ LIMTECH Industries' common size vacuum zones for nested-base manufacturing applications. Quickly and easily switch vacuum zone for standard material sizes without having to mess with table gaskets and plugs!

Model	Table Size	Common Size Vacuum Zones
Pegasus 48	4'x8'	4'x4', 4'x8', other custom sizes
Pegasus 510	5'x10'	5'x5', 4'x8', 5'x8', 5'x10', other custom sizes
Pegasus 512	5'x12'	5'x5', 4'x8', 5'x8', 5'x10', 5'x12', other custom sizes
Pegasus 523	5'x23'	Duplicate of Pegasus 510 model with 3' in between
Other custom table sizes available		

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Series	Orion			Pegasus			
Model	Orion 48	Orion 510	Orion 512	Pegasus 48	Pegasus 510	Pegasus 512	Pegasus 523
Table size	4'x8'	5'x10'	5'x12'	4'x8'	5'x10'	5'x12'	5'x23'
No. of servo motor	4	4	4	4	4	4	4
Axis configuration							
X-axis	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion
Y-axis	Servo Motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion	Servo motor Gearbox Rack-Pinion
Z-axis	Servo motor Ball screw	Servo motor Ball screw	Servo motor Ball screw	Servo motor Ball screw	Servo motor Ball screw	Servo motor Ball screw	Servo motor Ball screw
Guide rail size							
X-axis	30 MM	30 MM	30 MM	30 MM	30 MM	30 MM	30 MM
Y-axis	25 MM	25 MM	25 MM	25 MM	25 MM	25 MM	25 MM
Z-axis	25 MM	25 MM	25 MM	25 MM	25 MM	25 MM	25 MM
Max. speed (IPM)	2,165	2,165	2,165	2,165	2,165	2,165	2,165
Power: 220VAC 3-phase	30A	30A	30A	45A	45A	45A	45A
Air pressure: PSI/CFM	90/16	90/16	90/16	90/16	90/16	90/16	90/16
Dust port / CFM	6"/2,000	6"/2,000	6"/2,000	6"/2,000	6"/2,000	6"/2,000	6"/2,000
Features							
Spindle No. 1	7.5 HP	7.5 HP	7.5 HP	11 HP	11 HP	11 HP	11 HP
No. ATC position	8-Linear	8-Liner	8-Linear	10-Rotary	10-Rotary	10-Rotary	10-Rotary
Auto tool calibration	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spindle No. 2 (32mm sys)	NA	NA	NA	9-drills	9-drills	9-drills	9-drills
Working tabletop	Phenolic	Phenolic	Phenolic	Phenolic	Phenolic	Phenolic	Phenolic
Vacuum zone	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple
Tabletop ref. pins	3	3	3	3	3	3	6
Centralized lubrication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operator safety zone	Light barrier	Light barrier	Light barrier	Light barrier	Light barrier	Light barrier	Light barrier
Intek industrial controller	PC-Front	PC-Front	PC-Front	PC-Front	PC-Front	PC-Front	PC-Front
Accessories							
Toolbox	Included	Included	Included	Included	Included	Included	Included
Tool holder-collet	Included	Included	Included	Included	Included	Included	Included
PC monitor-keyboard	Included	Included	Included	Included	Included	Included	Included
Specifications, Design & Operating Features are subject to change without notice.							

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