

# OMNITECH SYSTEMS

## CNC ROUTERS

Excellence in CNC ROUTER performance at affordable cost!



**SELEXX**  
CNC ROUTER SERIES  
**BUILT TO LAST!**

Engineered for the CNC processing needs of the WOODWORKING, PLASTIC and COMPOSITE materials industries.

The SELEXX Series consists of the following models:  
**ECO** 4' x 8' • **MATE** 4' x 8' • **PAL** 5' x 10' • **CHIEF** 5' x 12' • **PRIMO** 5' x 20'

# MATE 4' x 8'



## CNC Routers with FANUC Controller and full table coverage of both machining heads

The small footprint of the SELEXX Series allows even the smallest shop to consider the incorporation of a CNC Router - to boost production, lower manufacturing costs and to produce quality parts in the shortest time possible.





The SELEXX Series offers today's CNC Router buyer a unique product for today's demands in a high performance, quality machining center at an affordable cost, by utilizing 28 years of experience from the worlds leading CNC Router

supplier, ANDERSON (ANDI).

ANDERSON has incorporated the Know-how and experience of a world leader in industrial CNC Routers to reflect on the SELEXX Series from OMNITECH.



Maintenance free air cooled spindle, with permanently lubricated ceramic ball bearings. (1.000 ~ 24.000 RPM)

**Rack & Pinion:**

The Y-axis Drive consists of a FANUC TWIN SERVO Rack & Pinion System. Standard on models MATE, PAL, CHIEF and PRIMO.

- Belt & Pulley Drive system is connected directly to the FANUC drive motor
- Spring loaded for quick and simple backlash adjustment
- Smoother arc interpolations
- No possibility of racking
- Maintenance friendly



Rack & Pinion



The Tool Touch-Off device for automatic tool length calibration, is a standard feature on SELEXX models MATE, PAL, CHIEF and PRIMO.

**Technical Specifications: MATE**

Stroke	X Axis Y Axis Z Axis	1720 mm (5.643 ft) 2630 mm (8.628 ft) 250 mm (0.82 ft)
Table Size		1300 x 2500 mm (4.265 x 8.202 ft)
Max. Feed Speed	X, Y Axis Z Axis	50 M/min (164.04 ft)/min) 10 M/min (32.2 ft/min)
ATC Head With	NO.1 of Spindles Tool Holder Shank Number of Tools Speed	1 HSK63F, Air Cooled 8 1.000~24.000 RPM
Boring Block	NO.2 Block (5x5)	4800 RPM
Tool Dia	For Router Bit (O.D.)	Max. Ø 25 mm (Ø 0.984 inch)
Shank	For Boring	Ø 10 mm (Ø 0.394 inch)
Power	ATC Head Boring Vacuum Pump	7.5 KW x 1 (10 HP) 1.5 KW x 1 (2 HP) 1 x 10 HP
Air Pressure		6 KG/cm <sup>2</sup> (85 lb/in <sup>2</sup> )
Nc Controller		<b>FANUC</b>
Dimensions	Floor Area Height Weight	4000x4400 mm (13.123x14.435 ft) 2450 mm (8.038 ft) 2450KG (5397 lb)
Air Consumption		450 L/min (15.9 cfm)
Suction Capacity For Main Spindle		2965 M <sup>3</sup> /HR (1745 cfm)



Models MATE and PAL are pre-wired and pre-plumbed for future addition of second vacuum pump.

# PAL 5' x 10'



## Excellence in CNC Router Performance at affordable cost

In today's challenging market, the **SELEXX/PAL** has positioned itself as a bestseller! The popular 5' x 10' table format provides opportunities for a variety of application needs, in particular in volume oriented enterprises, needing of sheet sizes, individual parts and solid wood products. The SELEXX Series qualifies with above average up-times, low maintenance requirements and ease of operation.

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**Main Router Spindle:**  
Anderson (ANDI) designed and manufactured 7.5KW (10HP) spindle, with the following features:

- 1.000 ~ 24.000 RPM CW or CCW rotation
- Permanently lubricated ceramic Ball Bearings
- HSK 63F System
- Maintenance free air cooled spindle
- Available C-axis



**Automatic Toolchanger:**

- No. of Positions: 8 (eight)
- Type: indexing rotating carousel changer, travels with router spindle, saving time and excessive wear
- Dust cover over toolchanger to protect sensors and tool holders from dust contamination
- Air Blow Nozzle to clean tool holders before tool change operation
- Brass alloy tool clamps for added security and longevity



The SELEXX MATE, PAL, CHIEF and PRIMO provide for Automatic Dust Extraction Dampers on both Router Spindle and Drilling Head.



Each SELEXX model is equipped with an 8 position Automatic Toolchanger.



6 automatic steel pop-up pins on table for referencing sheet stock on models MATE, PAL and CHIEF. 12 steel pins on PRIMO.

**Technical Specifications: PAL**

Stroke	X Axis Y Axis Z Axis	1835 mm (6.02 ft) 3180 mm (10.43 ft) 250 mm (0.82 ft)
Table Size		1550 x 3050 mm (5.085 x 10.006 ft)
Max. Feed Speed	X, Y Axis Z Axis	50 M/min (164.04 ft/min) 10 M/min (32.2 ft/min)
ATC Head With	NO.1 of Spindles Tool Holder Shank Number of Tools Speed	1 HSK63F, Air Cooled 8 1.000~24.000 RPM
Boring Block	NO.2 Block (5x5)	4800 RPM
Tool Dia	For Router Bit (O.D.)	Max. Ø 25 mm (Ø 0.984 inch)
Shank	For Boring	Ø 10 mm (Ø 0.394 inch)
Power	ATC Head Boring Vacuum Pump	7.5 KW x 1 (10 HP) 1.5 KW x 1 (2 HP) 1 x 10 HP
Air Pressure		6 KG/cm <sup>2</sup> (85 lb/in <sup>2</sup> )
Nc Controller		<b>FANUC</b>
Dimensions	Floor Area Height Weight	4800x4250 mm (15.748x 13.943 ft) 2450 mm (8.038 ft) 2850KG (6300 lb)
Air Consumption		450 L/min (15.9 cfm)
Suction Capacity For Main Spindle		2965 M <sup>3</sup> /HR (1745 cfm)



Models MATE, PAL, CHIEF and PRIMO are equipped with the FANUC Oi PC front end industrial controller. FANUC Servo Drive Motors on all axis.

# CHIEF 5' x 12'



## SELEXX Series: Truly industrial CNC Routers

The **SELEXX/CHIEF** is the ideal machining center for those companies requiring a larger machining table. The 5' x 12' table size allows the machining of oversized parts in panel, solid wood, plastics and composite materials. Equipped with 2 (two) BECKER Vacuum Pumps as standard, providing a total vacuum capacity of 20HP, the **SELEXX/CHIEF** offers a truly unique CNC Router for a multitude of applications.



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**The Z-Axis:**

The Z-Axis Drive on the SELEXX Series consists of an independent FANUC Servo Drive Motor coupled directly to the Z-Axis Ball Screw.

**Available options on MATE, PAL, CHIEF and PRIMO:**

- C-axis: 0-360 deg. rotating axis (FANUC 21i Controller is applied for this option)
- Drilling Head with horizontal drill and grooving saw (90 deg. X&Y)
- Vacuum Pump upgrades - available 10HP up to 31HP
- Additional Light Safety Barriers
- FlexPod Vacuum System



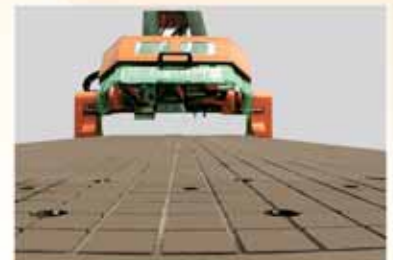
The 9 Spindle Vertical Drill is ideal for line hole drilling and individual point-to-point drilling for various applications. The Drill Head has Full Table Coverage.



2x 10HP vacuum pumps are standard on the SELEXX/CHIEF. (Pump options available).



The massive - heavy duty gantry construction - supported on both sides of the table ensures vibration free processing of your materials.



Phenolic Table Top with vacuum grid suitable for a variety of vacuum hold down possibilities from spoil-board jigs to vacuum pods.

**Technical Specifications: CHIEF**

Stroke	X Axis Y Axis Z Axis	1835 mm (6.02 ft) 3880 mm (12.729 ft) 250 mm (0.82 ft)
Table Size		1550 x 3750 mm (5.085 x 12.303 ft)
Max. Feed Speed	X, Y Axis Z Axis	50 M/min (164.04 ft)/min 10 M/min (32.2 ft/min)
ATC Head With	NO.1 of Spindles Tool Holder Shank Number of Tools Speed	1 HSK63F, Air Cooled 8 1.000~24.000 RPM
Boring Block	NO.2 Block (5x5)	4800 RPM
Tool Dia	For Router Bit (O.D.)	Max. Ø 25 mm (Ø 0.984 inch)
Shank	For Boring	Ø 10 mm (Ø 0.394 inch)
Power	ATC Head Boring Vacuum Pump	7.5 KW x 1 (10 HP) 1.5 KW x 1 (2 HP) 2 x 10 HP
Air Pressure		6 KG/cm <sup>2</sup> (85 lb/in <sup>2</sup> )
Nc Controller		<b>FANUC</b>
Dimensions	Floor Area Height Weight	5400x4300 mm (17.716 x 14.107 ft) 2450 mm (8.038 ft) 3050 KG (6718 lb)
Air Consumption		450 L/min (15.9 cfm)
Suction Capacity For Main Spindle		2965 M <sup>3</sup> /HR (1745 cfm)

# PRIMO 5' x 20'

(dual 5' x 10' or single 5' x 20' vacuum-zone)



## Continuous Production Run

The **SELEXX/PRIMO** has two 5' x 10' tables for dual zone operation convertible to one single zone up to 20' with 12-automatic pop-up pins for locating sheet stock. This allows the operator to load on one table, while the machine is processing on the other table and alternating back and forth for a continuous machining operation, maximizing output!



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**OPTIONAL FEATURE:**

The OMNITECH FlexPod Vacuum System allows for infinite vacuum hold down options, which can be located at any position of your vacuum table.



OMNITECH FlexPod Vacuum System - available for all SELEXX models.

This System allows the creation of a variety of Vacuum Zones via pneumatic controls. Please inquire for available sizes.



The SELEXX Series is equipped with HSK 63F Toolholder System on all models.



Tool Measuring (touch-off) device for effortless tool calibration. Also standard on models MATE, PAL and CHIEF.



2x 10HP vacuum pumps are standard on the PRIMO. (Pump options available).



The SELEXX MATE, PAL, CHIEF and PRIMO provide for Automatic Dust Extraction Dampers on both Router Spindle and Drilling Head.

**Technical Specifications: PRIMO**

Stroke	X Axis Y Axis Z Axis	1835 mm (6.02 ft) 6180 mm (20.112 ft) 250 mm (0.82 ft)
Table Size		1550 x 6000 mm (5.085 x 19.6856 ft)
Max. Feed Speed	X, Y Axis Z Axis	50 M/min (164.04 ft)/min) 10 M/min (32.2 ft/min)
ATC Head With	NO.1 of Spindles Tool Holder Shank Number of Tools Speed	1 HSK63F, Air Cooled 8 1.000~24.000 RPM
Boring Block	NO.2 Block (5x5)	4800 RPM
Tool Dia	For Router Bit (O.D.)	Max. Ø 25 mm (Ø 0.984 inch)
Shank	For Boring	Ø 10 mm (Ø 0.394 inch)
Power	ATC Head Boring Vacuum Pump	7.5 KW x 1 (10 HP) 1.5 KW x 1 (2 HP) 2 x 10 HP
Air Pressure		6 KG/cm <sup>2</sup> (85 lb/in <sup>2</sup> )
Nc Controller		<b>FANUC</b>
Dimensions	Floor Area Height Weight	10000x4250 mm (32.808x 13.943 ft) 2450 mm (8.038 ft) 7500KG (16500 lb)
Air Consumption		450 L/min (15.9 cfm)
Suction Capacity For Main Spindle		2965 M <sup>3</sup> /HR (1745 cfm)

# ECO 4' x 8'



## High Production Runs at Economical Cost!

Offered with 4' x 8' table, the machine base is constructed of heavy duty industrial grade welded steel with multiple reinforcements throughout to provide added stability. The heavy duty gantry construction, supported on both sides of the table, ensures vibration free and precision processing of a variety of materials. The **SELEXX/ECO** offers truly industrial features at a very affordable price.





The ECO is designed and built for the demanding CNC Router client, who wants a reliable and performance oriented, yet AFFORDABLE

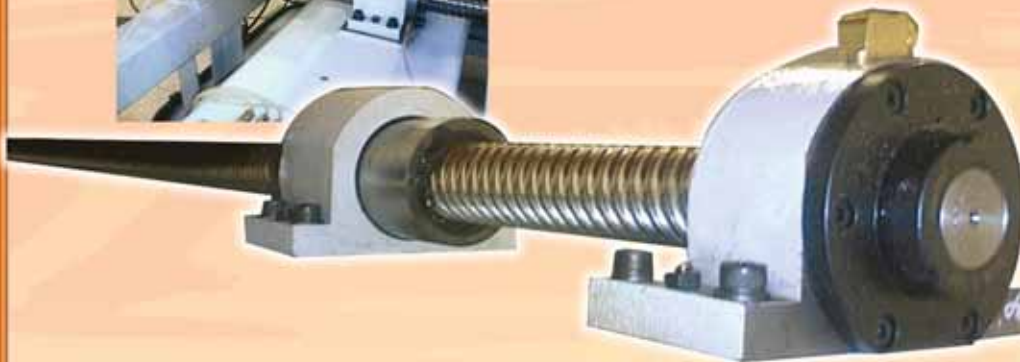
CNC Machining Center, which offers uncompromising quality and features, uncommon in a router in this price range.



8 position Automatic Toolchanger with HSK 63F tool system - standard on all SELEX models.

**BALLSCREW:**

Image of the Y-axis Ball Screw standard on the SELEX/ECO.



The ECO is equipped with a 0.25HP single spindle vertical drill head. Fixed rotation speed: 3.600 RPM

**Technical Specifications: ECO**

Stroke	X Axis Y Axis Z Axis	1300 mm (4.265 ft) 2500 mm (8.202 ft) 250 mm (0.82 ft)
Table Size		1300 x 2500 mm (4.265 x 8.202 ft)
Max. Feed Speed	X, Y Axis Z Axis	30 M/min (98.425 ft/min) 10 M/min (32.2 ft/min)
ATC Head With	NO.1 of Spindles Tool Holder Shank Number of Tools Speed	1 HSK63F, Air Cooled 8 1.000~24.000 RPM
Boring Block	NO.2 Block (1)	3600 RPM
Tool Dia	For Router Bit (O.D.)	Max. $\varnothing$ 25 mm ( $\varnothing$ 0.984 inch)
Shank	For Boring	up to 0.625 inch
Power	ATC Head Boring Vacuum Pump	7.5 KW x 1 (10 HP) 1 x 0.25 HP 1 x 10 HP
Air Pressure		6 KG/cm <sup>2</sup> (85 lb/in <sup>2</sup> )
Nc Controller		<b>FANUC</b>
Footprint	Floor Area Height Weight	2400x4540 mm (7.874x14.895 ft) 2950 mm (9.678 ft) 2300 KG (4800 lb)
Air Consumption		450 L/min (15.9 cfm)
Suction Capacity For Main Spindle		2965 M <sup>3</sup> /HR (1745 cfm)



The standard controller on the ECO is the proven FANUC Oi Mate - MC.



All SELEX models are equipped with precision linear guides on all axis.

# Why settle for anything else, when you can SELEXX!



## THE COMPANY:



Our spacious and modern facility, located directly off I-77 is only 20 min. from the Charlotte, NC International Airport.



We offer a modern CNC Application Center, a first class software and machine training facility and a well stocked spare parts inventory to serve all your support and service requirements.

Our professional CNC Technicians are available to take your phonecalls and provide online phone support.

OMNITECH cooperates with all leading CAD/CAM Software providers to assist our clients in determining the best solution for their needs.

For further information or to speak to one of our professional CNC application specialists, PLEASE CONTACT US or VISIT OUR HOMEPAGE: [www.omnitech-systems.com](http://www.omnitech-systems.com)

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Our Homepage is a unique and highly developed source of information on our company, products and services.

## APPLICATIONS & MATERIALS:

### Applications:

Doors  
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Frames  
Custom Parts  
and others

### Materials processed:

MDF  
Melamine  
Plastics  
Solid woods  
Solid surface  
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