

2

HIGH PERFORMANCE MACHINING CENTERS

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Miao-Li Factory

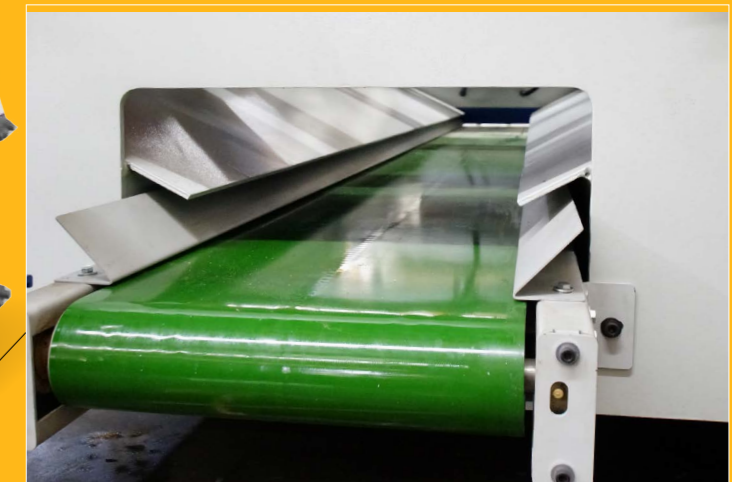
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PTP Series

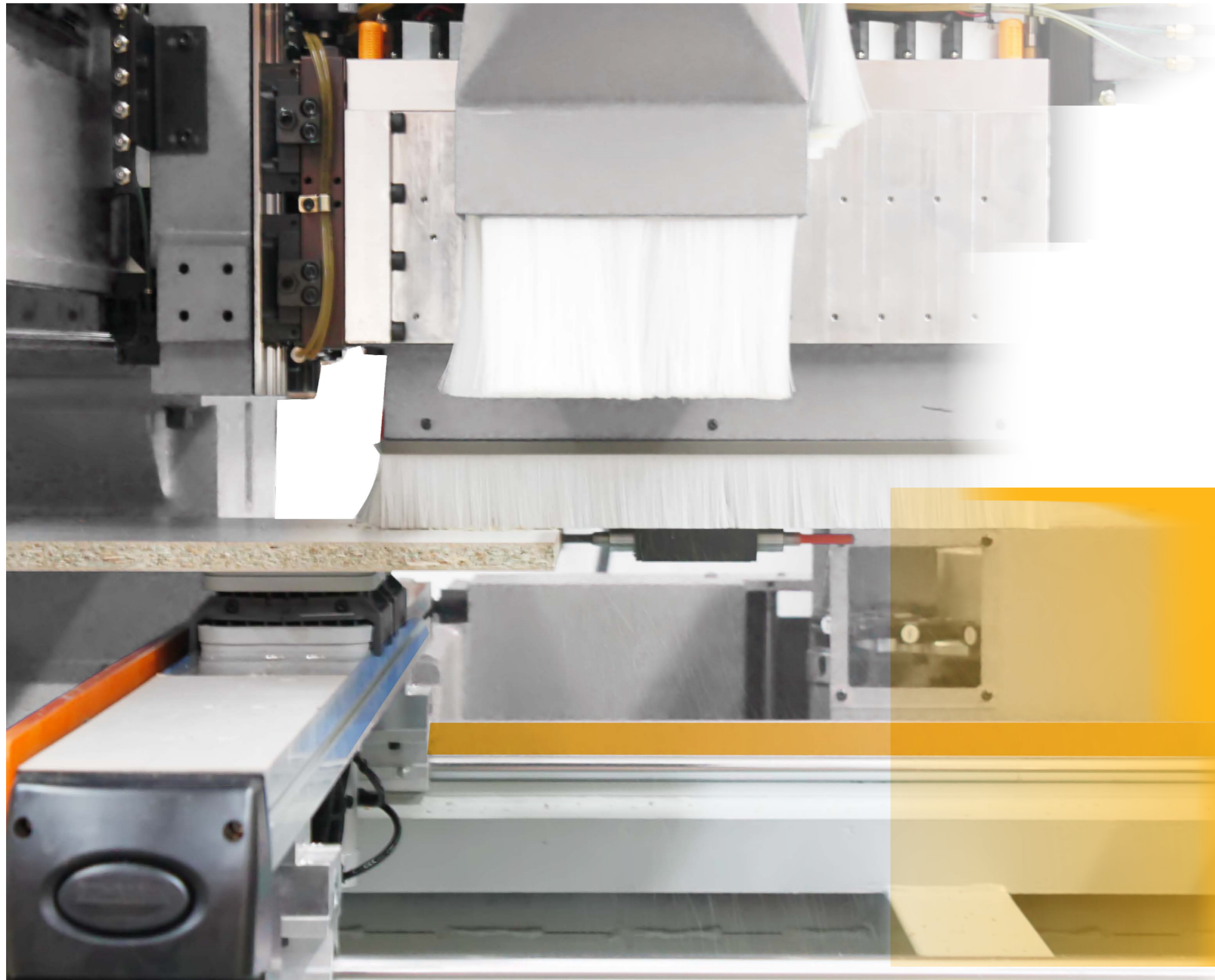
Point-To-Point Drilling Machine



Waste material conveyor system

PTP Series

Point-To-Point Drilling Machine



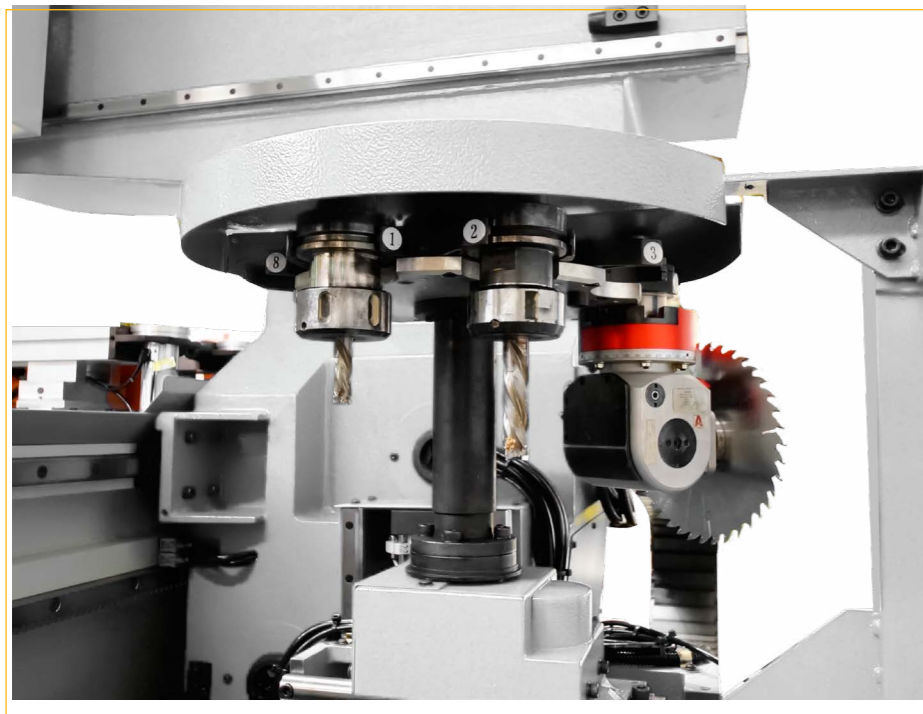
The helical rack & pinnion drive allows fast and accurate positioning. Furthermore, this design is possible to extend the table dimensions in X-direction to match the customer's needs. With over 40 years of experience in machine engineering and production, Anderson has developed into a world leader of CNC processing machinery for heavy duty and high-accuracy applications.

This is the basis for an internationally successful product range, fulfilling the highest demands of today's manufacturing companies, including aerospace industries around the world.

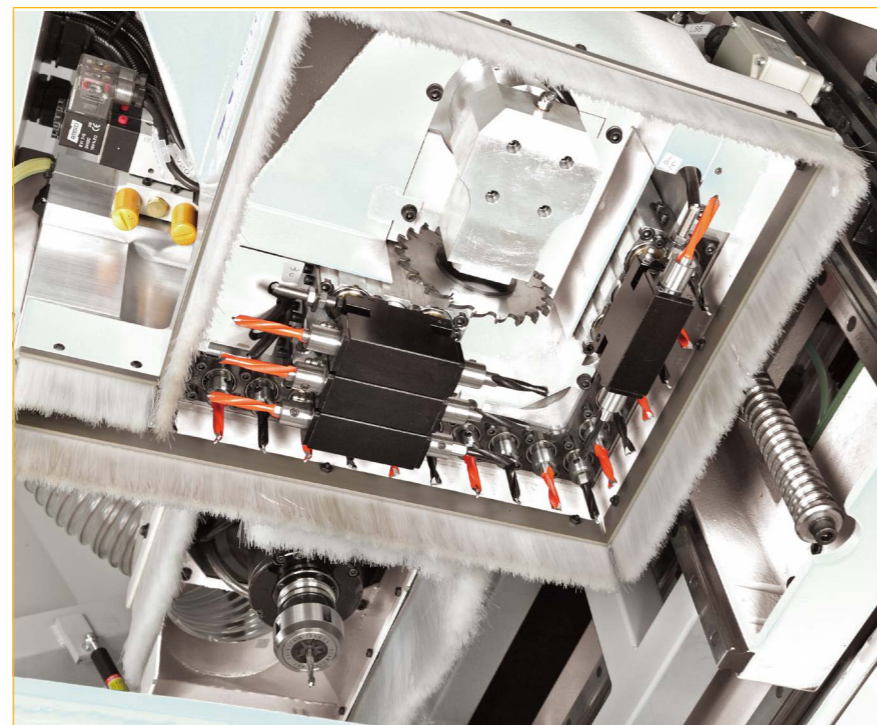
The PTP series is especially designed for furniture manufacturers who require high production in panel processes.

PTP Series

Point-To-Point Drilling Machine



The automatic tool change system provides a 8 positions magazine



The Boring unit is equipped with 16 vertical spindles and 8 horizontal spindles. Additional this unit provides a grooving saw as standard.



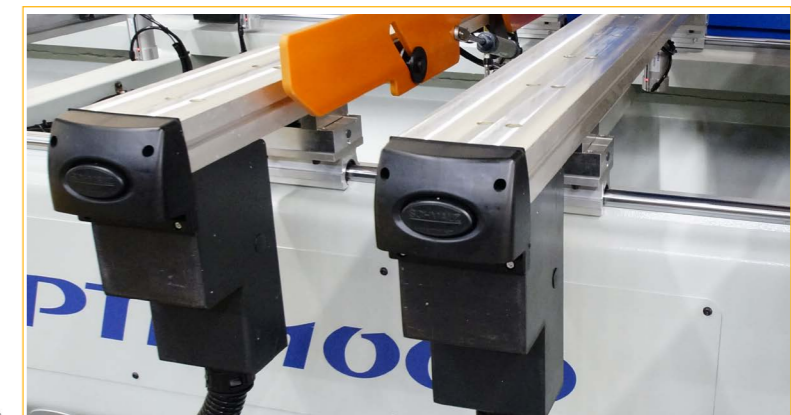
Panel Beam

The fastest and most efficient way for positioning beams and cups.

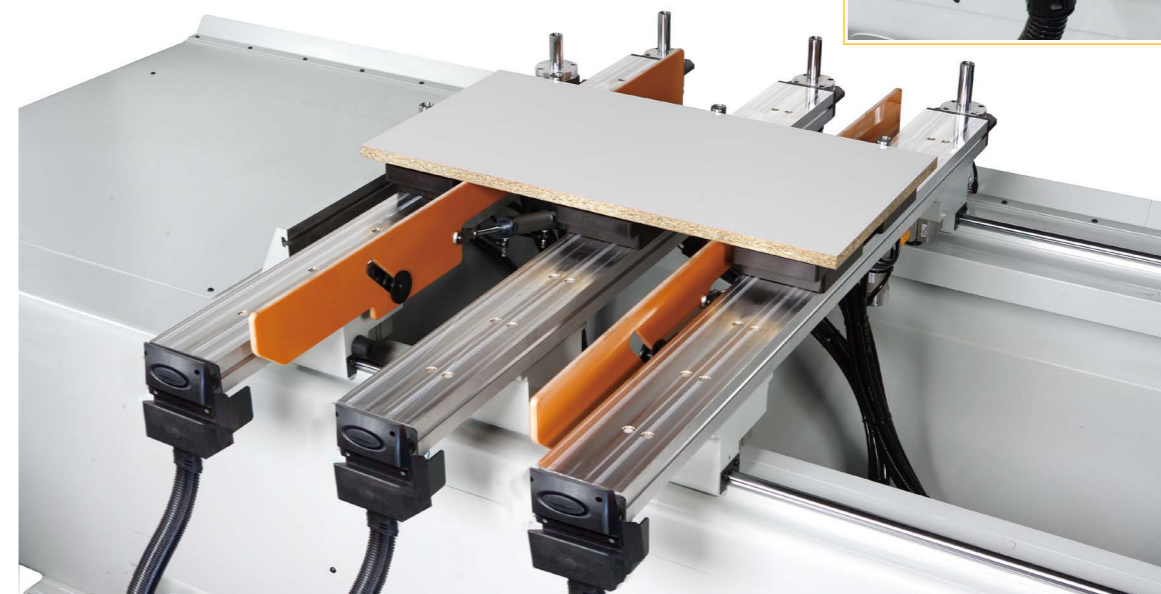
The movable beams and suction cups allow you to manufacture different kinds of work pieces by utilizing different processing procedure.

A laser-pointer system is applied for positioning panel beams and suction cups automatically.

The operator can drag and position the beams and cups on the monitor and generate CNC program automatically. By pressing cycle start, the laser-pointer will move to the specified position for locating the beam and cup.

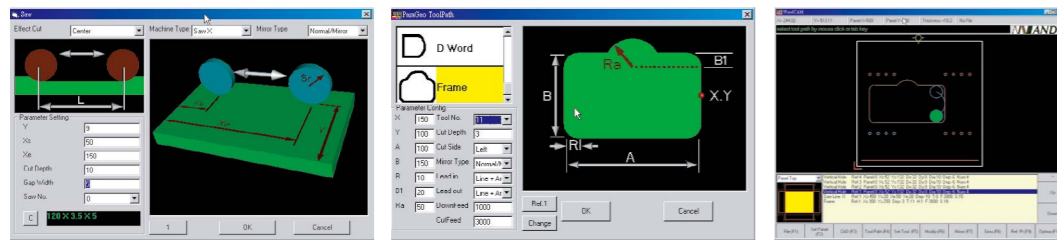


Ergonomic auxiliary vacuum outlet for customized jigs.

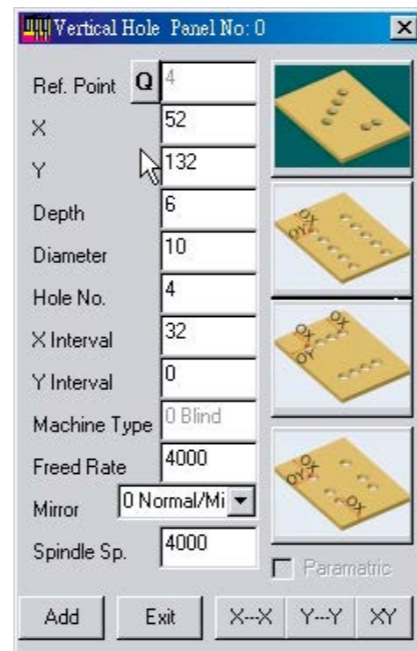


Programming

ANDERSON-FANUC controller with PC front end feature are equipped in this machine. A conversational programming system, WoodCAM(created by Anderson), is built in the system. The operator can easily arrange production by selecting different applications and entering the variables.

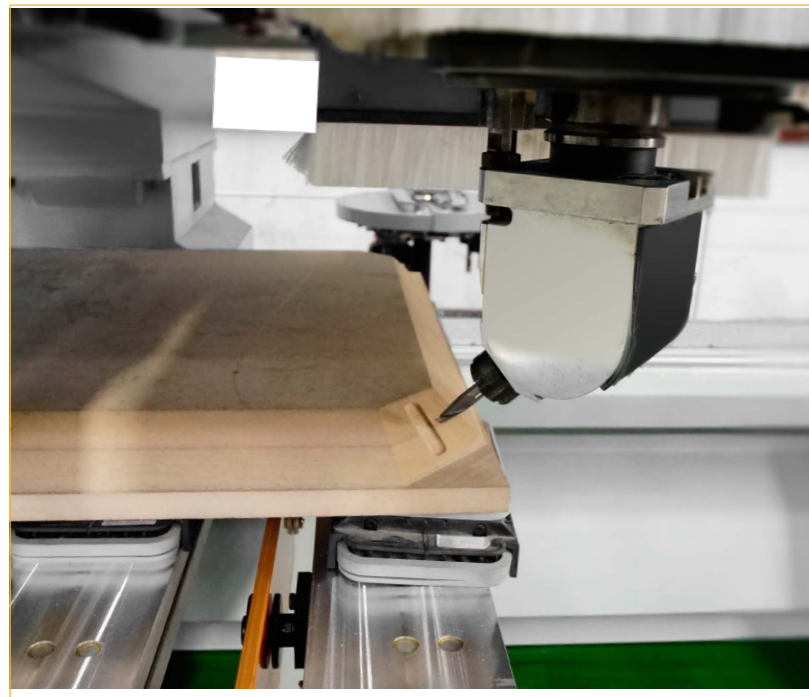


Horizontal Drilling Drilling & Routing Vertical Drilling

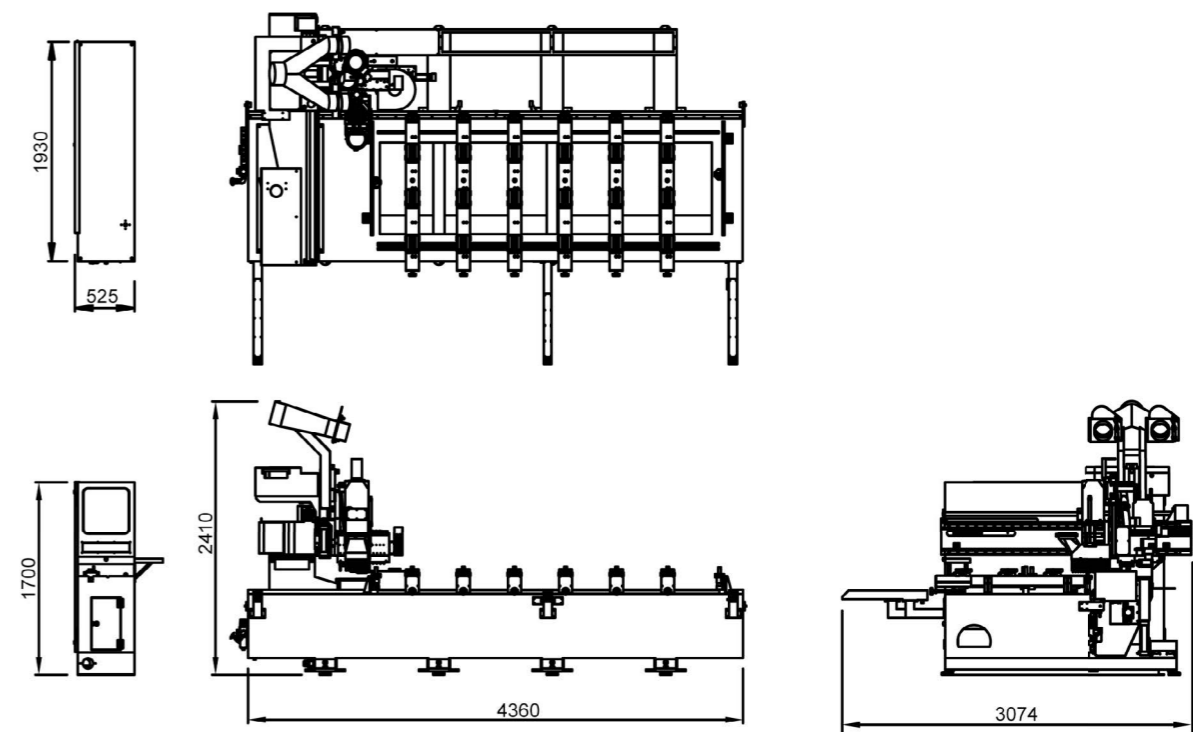


Technical Specification

		PTP-3013	PTP-3214
STROKE	X AXIS	3340mm	3525mm
	Y AXIS	1420mm	1570mm
	Z AXIS	150mm	250mm
WORKING AREA	WORKING LENGTH	3000mm	3200mm
	WORKING WIDTH	1300mm	1400mm
MAX FEED SPEED	X AXIS	80 M/min	
	Y AXIS	60 M/min	
	Z AXIS	20 M/min	
SUCTION BEAM	6 UNITS(3 VACUUM CUPS FOR EACH BEAM)		
NO.1 ATC WITH DISK MAWGAZINE	TOOL HOLDER	SK-30	HSK-63F
	SPEED	1000-18000RPM	1000-24000RPM
	POWER	10HP (7.5kW)	
	SHANK OF TOOL	MAX.25mm	
NO. 2 BORING HEAD & GROOVING SAW	NUMBER OF TOOL	8	
	VERTICAL SPINDLES	19(7x13)	
HORIZONTAL SPINDLES		X:3+3 Y:1+1	
MOTOR POWER		3HP(2.25kW)	
SPEED		4800RPM	
CHANGEABLE ANGLE OF SAW		0 & 90°	
I.D. OF GROOVING SAW		30mm	
MAX.O.D. OF GROOVING SAW		120mm	
		4500RPM	
AIR PRESSURE		6 Kgs/cm ²	
VACUUM PUMP		90M ³ / Hr 3.0kW	
WEIGHT		3500Kgs	4000Kgs
CONTROLLER		SYNTEC	

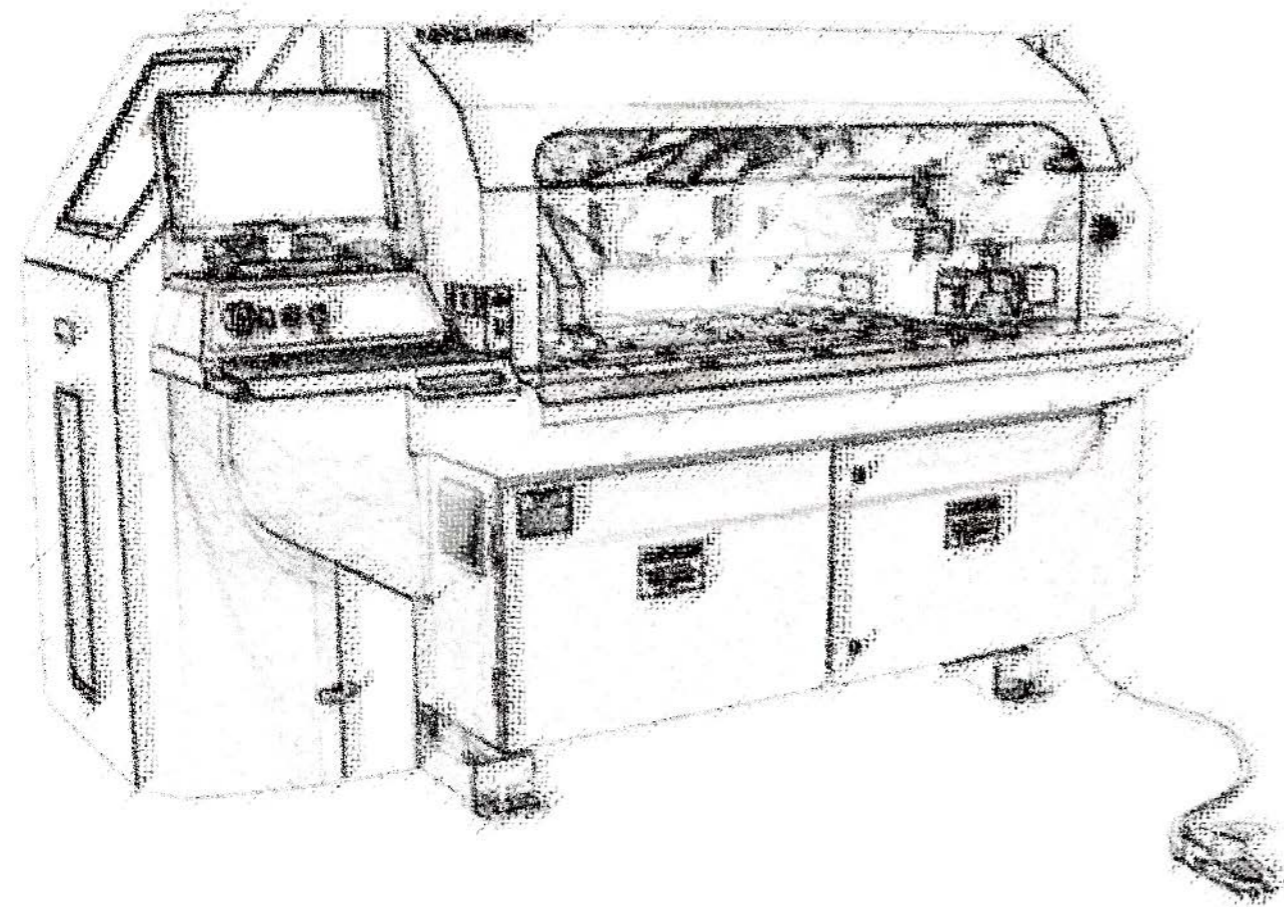


Aggregates to satisfy various needs



STRYKER-5

THROUGH FEED POINT TO POINT MACHINE



The POINT to POINT through feed machining line has revolutionized the field of boring, grooving and routing thanks to its innovative technology and maximum flexibility and productivity.

This series has been designed to obtain the maximum flexibility possible while maintaining a high volume output.

No machine setup time therefore greatly increased part to part throughput and overall productivity.

Exclusive optical part reading for perfect edge referencing and boring without depending on the operator's accuracy.

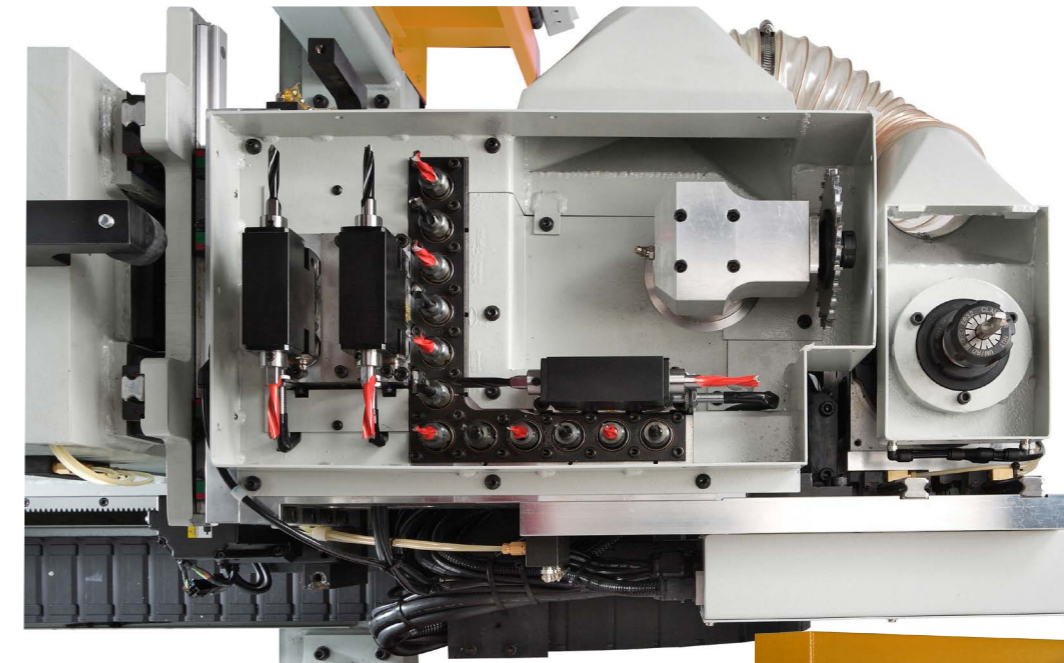
Fully automatic parts positioning by the machine therefore operator misfeeds are no longer an issue.

Small batch random part processing is as effective as large run processing.

STRYKER-5

THROUGH FEED POINT TO POINT MACHINE

The speed of a through feed.....
The flexibility of a point to point



Spindle # 1 :
Vertical drilling:
-12 vertical drilling spindles.
-7X6 L Shape
Horizontal drilling:
-2+ 2 horizontal top and bottom drilling spindles.
-1+1 horizontal side drilling spindles.
Spindle # 2:
1 grooving saw.
fixed in X-axis direction
Spindle # 3 :
1 router head with exclusive X axis
head movement for proper routing
of static clamped parts.

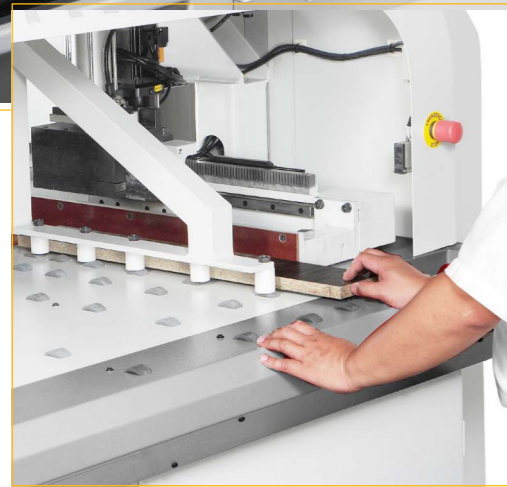
Easy access to head and tooling

The boring head carriage is designed with heat-treated steel that is built heavier and over-sized to provide more rigidity and precision over a long period of time.



STRYKER-5

THROUGH FEED POINT TO POINT MACHINE



Set up time=0

Machine operator can change panel sizes, panel processing requirements with zero time lost when making these changes.



Programming

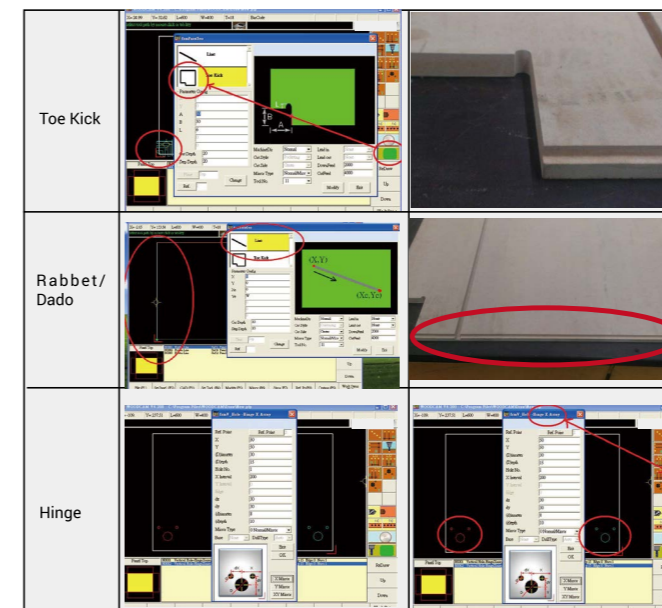


New Application functions

-Toe Kick The operator can specify if over cutting is needed, for squareness purpose. The maximum processing dimension : 200 x 200mm (the working panel must be larger than 400x400mm) Any of these four(4) corners can be processed.

-Rabbit/Dado The operator can specify the width and tool radius compensation (G41/G42). This application can be set in either U-axis or Y-axis direction.

-Hinge There is conversational programming function. The operator can enter the size of the hinge and relationship between holes.



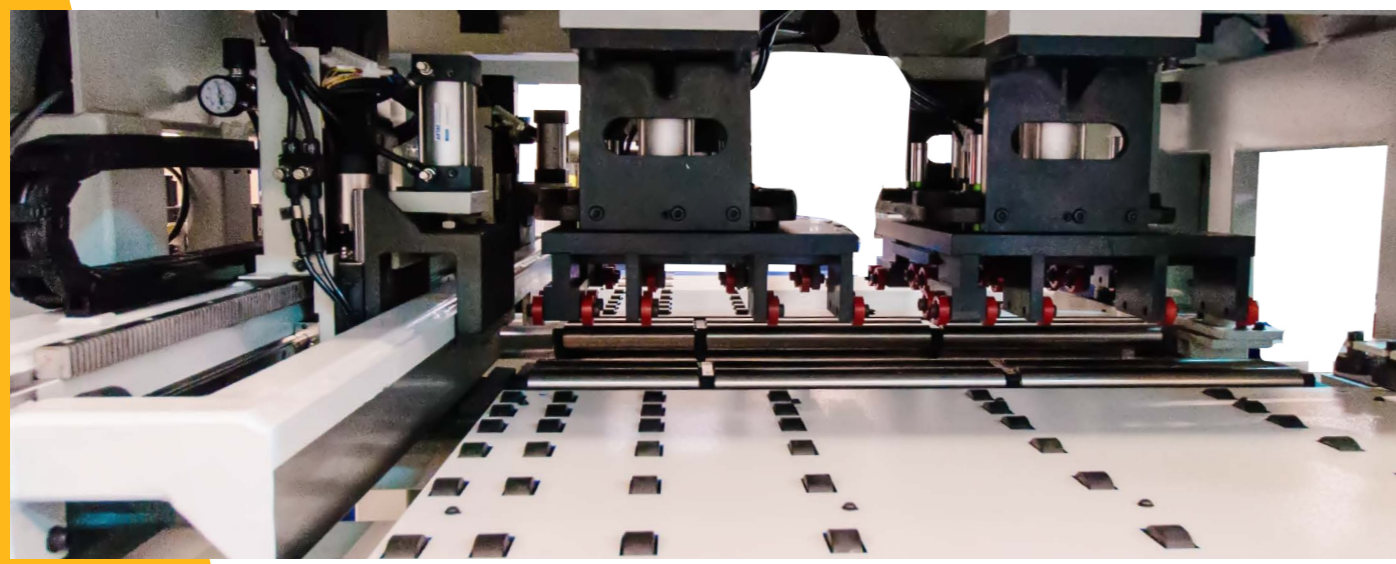
Numerically Controlled with a PC

Color LCD 17" display with independent keyboard, mouse, integrated network card & USB device. Friendly and intuitive software with macro as help for the operator and integrated CAD.



Option

Technical Specification



Automatic loading&unloading system

STRYKER-5	
NC Controller	PC office/Color LCD display
Boring Range	800 mm
Quantity of controlled axis	4
X axis speed	60m/min.
Y axis speed	60m/min.
U axis speed	60m/min.
Z axis speed	15m/min
Minimum part width	50mm
Maximum part width	1,000mm
Minimum part length	250mm
Minimum part thickness	10 mm
Maximum part thickness	50 mm
Boring Unit	
vertical spindles	7(X axis) x 6(Y axis)
horizontal spindles : top/bottom	2+2
horizontal spindles : sides	1+1
horse power	1.5 KW(2HP)
rotation speed	4,800 RPM
SPINDLE	
Router taper	ER32
Tool Shank Diameter	2 mm- 20mm
Router HP	3.75 KW(5HP)
Rotation speed	1,000-18,000 RPM
Grooving Saw Unit	
Grooving Saw Unit Hp	1.5KW(2HP)
Grooving saw diameter	120 mm
Maximum blade thickness	5 mm
Rotation speed	4,200 RPM
Automatic Side pusher	Standard
Pusher contact surface	Rollers
Optical Material Sensor	standard

TWO OPPOSITE METHODS/DRILLING OF 10 LOTS OF 20 PANELS EACH	
Through Feed Point to Point	Point to Point with manual pod and rail positioning with two working zones
SET UP time per lot = 3 seconds	SET UP time per lot = 40 seconds
Number of lots =10(total 200 panels)	
Total SET UP time(10 x3)=30 seconds	Total SET UP time(10 x3)=400 seconds
Loading/unloading time =3 sec.	Loading/unloading time =30sec.
Total loading/unloading time	
(200 pc.x3sec.)=600 seconds	(200 pc.x3sec.)=6,000 seconds
Total working times:	
Total SET UP time (30 seconds)+	TOTAL WORKING TIMES :10 min 30 sec.
Total loading /unloading time(600 seconds)	Total SET UP time (40 seconds)+
30 sec.+600 sec.=600 sec. TOTAL	Total loading /unloading time(6,000 seconds)
	400 sec.+6,000 sec.=6,400 sec. TOTAL
	Total working time :1hr 46min 40 sec..

Anderson 4 IN 1 Solution

Panel-Type Furniture automatic Line Integration System

Anderson prepare a total solution featuring full information from design to production and automated production .



Operational instruction

1. Interior design software (such as Autowork) draw interior design>material valuation>produce quote
2. Generate from the interior design drawing:
 - a. list of CSV materials to be machined and b. machining program in XML format.
3. Input the following through the optimization software Campro Hybrid Nest:
 - a. CSV materials list and b.XML format processing program for optimizing and producing the processing information required for CNC cutting machine:
4. Except for using CNC cutting machine to cut the board, the customer can also input the material list into the optimization software of the panel saw (such as GPLAN) to produce the program for cutting and synchronously printing the labels. And then the operators stick the labels.
5. The board processing material list can be inputted into PDA for shipment check.
6. The customer can also use other software for interior design and material demolition and export the board processing material list and XML processing program.

