

TIGERTEC

Sino-US joint venture

**Your
one-stop
solution**

Manufacturer of CNC Router



TIGERTEC

TigerTec China: # 6 CaoFan Industrial Park, Zhangqiu, Shandong Province, China 250221

TigerTec USA: # 1406 Lowater R.d, Chippewa Falls, WI 54729, United States

TigerTec China: +86 18560168105; +86 18668930359; +86 17157263100

TigerTec USA: +1 (715) 456-1919

Email: info@tigertecnc.com.cn

[Http://www.tigertecus.com](http://www.tigertecus.com)



We Are TigerTec

TigerTec was founded in 2003 in the United States. TigerTec Inc.(China) is a Sino-US joint venture and professional manufacturer of CNC machines founded in 2010. We focus on high-quality CNC machines and aim at middle and high-end markets.

Our products range from metalworking CNC machines, woodworking CNC routers, sign-making CNC routers, pattern-making CNC machines to stone-working CNC machines, etc. We do customized machines for OEM customers and have already worked with some top brands from United States, Italy, Korea, Germany, Russia, Canada, Argentina and Taiwan.

We have welding workshop, painting house (sand polishing and powder coating), metal working indoor. We manufacture all the machinery parts by VMC and 5-side machining center in-house to control the quality and delivery time.

We forged a closed partnership with HSD spindle, Yaskawa servo driving system, Siemens driving system, Igus cabling, Syntec controller, Becker pump, Delta inverter, Raycus/Maxphotonics/IPG laser source, Raytools cutting head and Cypcut controller.

TigerTec has a full understanding of quality, service and customer value. We supply global installation, training and service for our customers.

Honesty Moulds The Quality, Quality Wins The Market!

Where We Are



- +Make machinery parts in-house
- +Use Hamar Laser, VMC, and 5-side machining center to conduct strict quality control
- +Aim at the middle and high-end market for more than 20 years
- +2 Direct subsidiaries (USA and China)
- +Strong and wide service team

AD Series

TigerTec CNC router AD series was designed in 2017 and we got the patent. We use a strong lathe bed, gantry and gantry support for this machine to guarantee accuracy. All the mechanical parts are done by VMC in the TigerTec factory. We use the cast steel for the gantry support. You can get a stable machine and run at a fast speed when operating.

Outstanding Features

- Electronics: We use all world branded components for TigerTec CNC routers, such as Siemens, Schneider, Igus and Phoenix
- Electronic spindle: 3.0KW/6.0KW/7.0KW spindle from Italy
- DSP controller with USB connection, a magnetic hand-held manual controller(Extremely Easy Functions)
- Massive gantry rides on extremely accurate TigerTec rack and pinion and HIWIN linear guide ways for each of X/Y/Z-movements
- Powered by stepper driving system with planetary reducer
- Work surface constructed bakelite with T-slot tracks ensure plenty of options for holding down materials

Applications

- Sign Making

·Metal Working

·Wood Working

·Plastics

·Foam

·Prototyping
- Model Making

·Education

·General Fabrication

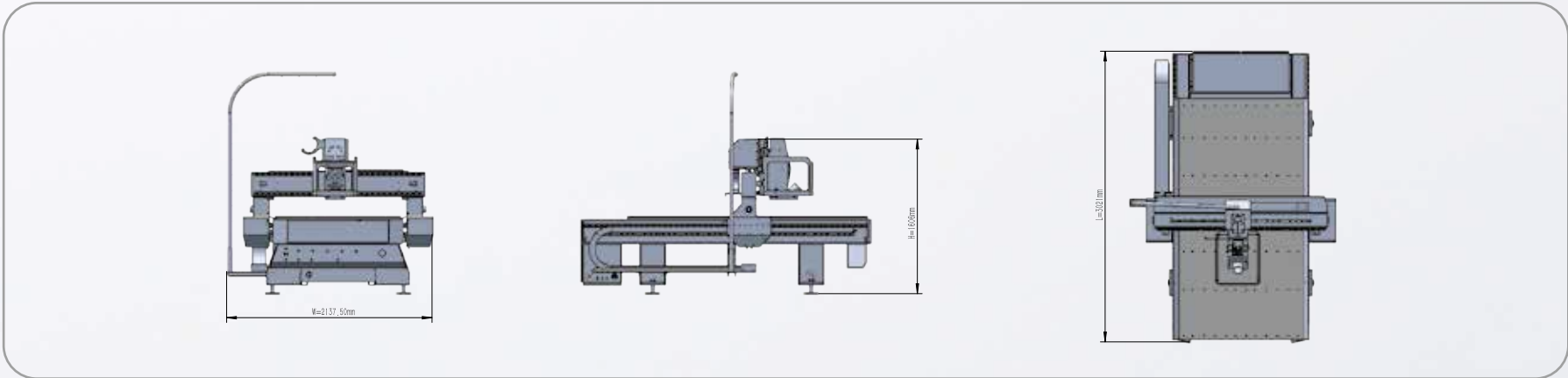
·Furniture Making

·Craft Making

·Musical Instrument

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD	1240mm 48.8"	2460mm 96.9"	200mm 7.9"	± 0.05mm/m	1500KGS	2024mm 79.7"	3300mm 129.9"	1950mm 77"
TR510AD	1550mm 61.0"	3050mm 120.1"	200mm 7.9"	± 0.05mm/m	1800KGS	2224mm 87.6"	3800mm 149.6"	1950mm 77"
TR710AD	2100mm 82.7"	3050mm 120.1"	200mm 7.9"	± 0.05mm/m	2200KGS	2724mm 107.2"	3800mm 149.6"	1950mm 77"
TR712AD	2100mm 82.7"	4050mm 159.4"	200mm 7.9"	± 0.05mm/m	2500KGS	2724mm 107.2"	4800mm 189"	1950mm 77"



ATC Series

A Great Fit for Valuable Buyers Who Wants High-Performance

TigerTec AD ATC series was designed for efficient working with speed and reliability. 12 programmable CNC knives allow you to cut a wide range of materials (such as plastic, wood, foam and composite materials) and it can also mill and drill materials accurately and efficiently. The automatic tool changer system speeds up production exponentially as it moves with the gantry. We use a servo motor system for the tool changer to increase the speed and accuracy.

Outstanding Features

- Syntec controller with USB connection and a magnetic hand-held manual controller (Extremely Easy Functions)
- With Italy 9.5KW (12HP) high-frequency automatic tool changer spindle
- TigerTec helical rack and pinion and linear guide ways for each of X/Y/Z -movements
- Powered by servo driving system
- Work surface is constructed bakelite with T-slot tracks
- Carrousel automatic tool changer, 12 holder positions for the ISO30 chucks driven by servo system
- Automatic tool length calibration device < tool touches off >

Applications

- Sign Making

·Musical Instruments

·Wood Working

·Plastics

·Foam

·Prototyping
- Model Making

·Education

·General Fabrication

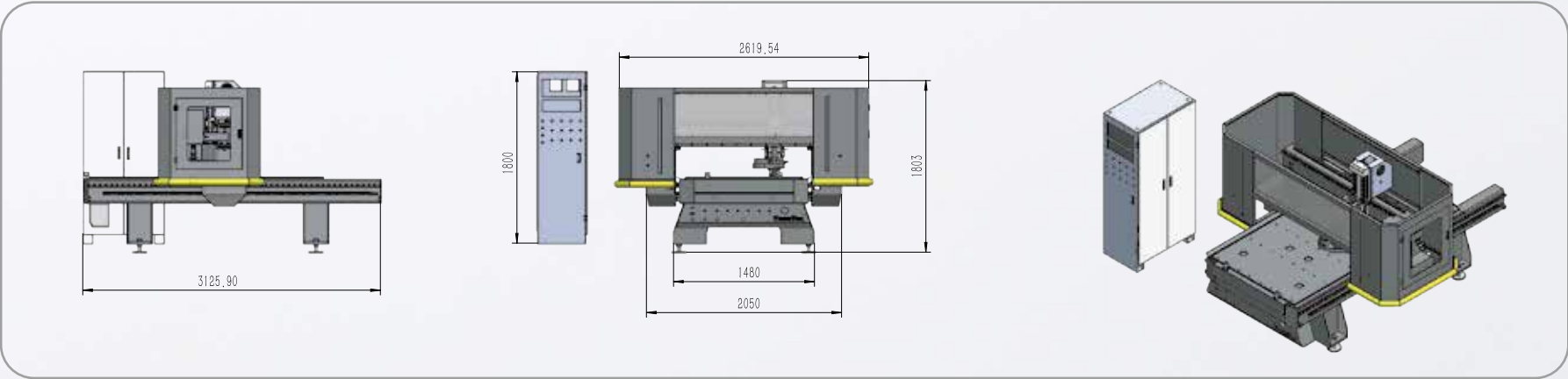
·Furniture Making

·Craft Making

·Metal Working

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD ATC	1240mm 48.8"	2460mm 96.9"	200mm 7.9"	±0.05mm/m	1700KGS	2024mm 79.7"	3300mm 129.9"	1950mm 77"
TR510AD ATC	1550mm 61.0"	3050mm 120.1"	200mm 7.9"	±0.05mm/m	2000KGS	2224mm 87.6"	3800mm 149.6"	1950mm 77"
TR710AD ATC	2100mm 82.7"	3050mm 120.1"	200mm 7.9"	±0.05mm/m	2500KGS	2724mm 107.2"	3800mm 149.6"	1950mm 77"
TR712AD ATC	2100mm 82.7"	4050mm 159.4"	200mm 7.9"	±0.05mm/m	2800KGS	2724mm 107.2"	4800mm 189"	1950mm 77"



SHOP Series Economical Cutting Solution

Are you looking for high-value and cost-effective machines to make cuts? Our CNC Router SHOP series is the perfect solution for you. It is designed to be simple and easy to use. Additionally, it comes with an optional vacuum working table that can help you to hold down your projects securely.

Outstanding Features

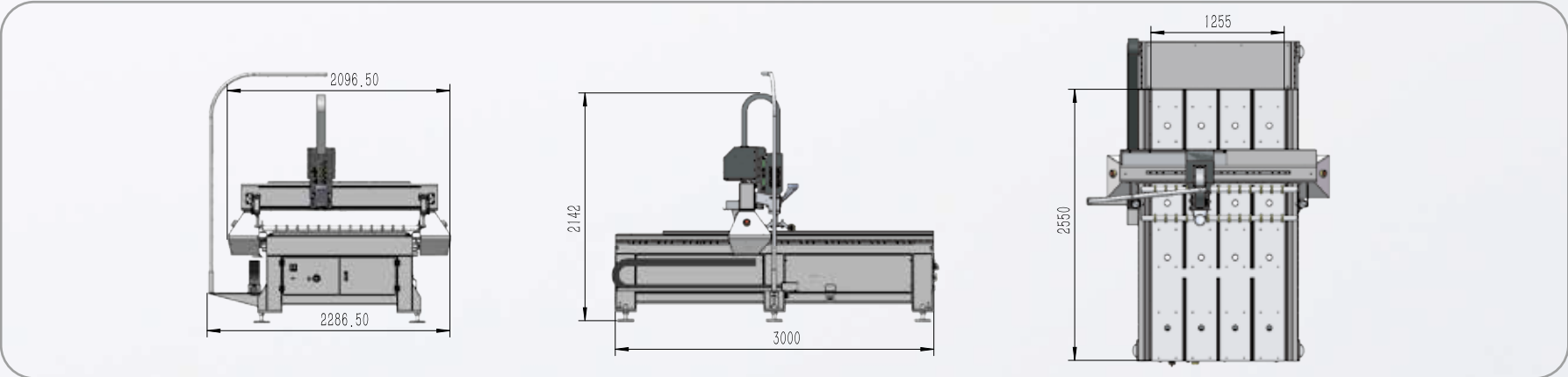
- 1240X2460mm (4'X 8') process area
- Easy to use hand-held controller
- High frequency spindle:3.0KW/6.0KW/7.0KW spindle from Ttaly
- TigerTec rack pinion and linear rails on all 3-axis
- Maintenance-free brushless stepper drive motors
- T-slot working table with clamp for fixing the processing materials

Applications

This machine is ideal for a variety uses such as sign-making, prototyping, model-making, engraving, woodworking, metal engraving, plastics, foam educational applications, and general fabrication. It is designed to cut a wide range of materials including composite materials, foam, plastic, solid wood, softwood, acrylic, MDF, bamboo, PVC, double-color board, brass, copper, aluminum and ACP.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408SHOP	1240mm	2460mm	200mm	±0.05mm/m	1200KGS	2000mm	3000mm	1950mm
	48.8"	96.9"	7.9"			78.7"	118.1"	77"
TR510SHOP	1550mm	3050mm	200mm	±0.05mm/m	1500KGS	2250mm	3500mm	1950mm
	61.0"	120.1"	7.9"			88.6"	137.8"	77"
TR710SHOP	2100mm	3050mm	200mm	±0.05mm/m	1800KGS	2724mm	3800mm	1950mm
	82.7"	120.1"	7.9"			107.2"	149.6"	77"



Foundry Pattern Machine

TigerTec PT710 is a versatile CNC machine that can be used for various projects in the foundry industry. We have used durable parts in the entire machine to ensure high accuracy and speed while keeping the price affordable. Additionally, we offer customization options such as varying power spindles, motors and sizes upon request.

Outstanding Features

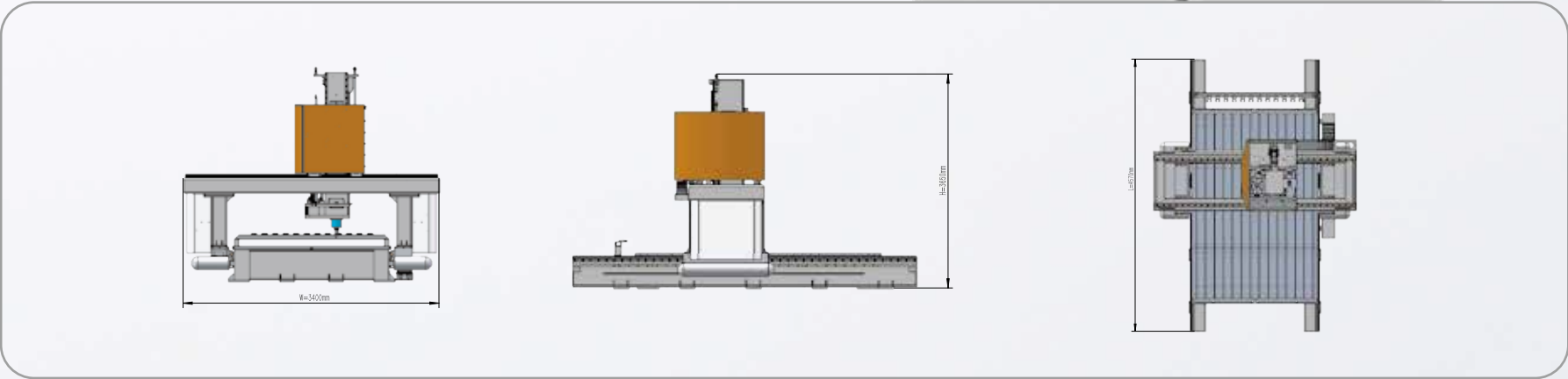
- High precision and reliability over time
- High-speed absolute servo drives on all axes
- Rack and pinon on X and Y using planetary gear boxes, ball screw on Z-axis
- Installation of linear rail for X-Y-axis with metal block is designed to increase precision and reliability standards for the execution of machining operations
- A wide range of table sizes available covers all the standard panel sizes in the nesting industry and customers can choose the most suitable machine for their needs

Applications

Solid wood, styrofoam, wax, plaster of Paris, aluminum, and foam patterns are ideal materials for high-speed milling. 3-axis CNC machines are particularly suitable for creating foam molds for the automotive industry, wooden ship models, model aviation, trains and other wooden molds. The size of the machine allows for minimal setup times and the ability to cut patterns larger than the industry standard.

Technical Parameters

Model No	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
PT510	1550mm	3050mm	800mm	±0.03mm/m	7500KGS	2800mm	4700mm	2500mm
	61.0"	120.1"	31.5"			110.2"	185"	99"
PT710	2100mm	3050mm	800mm	±0.03mm/m	8500KGS	3400mm	4700mm	2500mm
	82.7"	120.1"	31.5"			133.9"	185"	99"
PT712	2100mm	4050mm	800mm	±0.03mm/m	9500KGS	3400mm	5700mm	2500mm
	82.7"	159.4"	31.5"			133.9"	224.4"	99"



CNC Nesting Process Center

CNC-Machining center routing nesting drilling is the gantry machining center with a robust, well-balanced structure, designed for nesting applications of wood and wood-based materials, but also plastic-based and non-ferrous materials machining to handle demanding machining requirements without compromising product quality by quick and reliable delivery times.

CNC Labeling Machine

With the ability labels on the router table before nesting has helped boost panel processing capability.

Outstanding Features

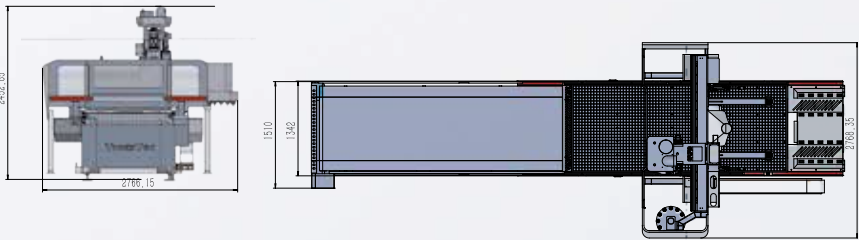
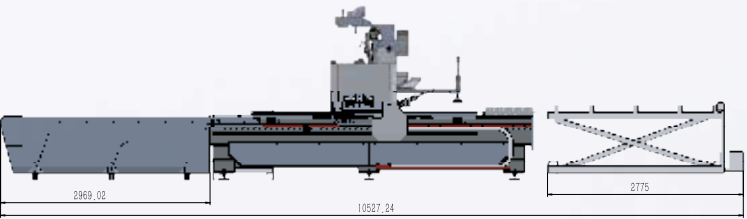
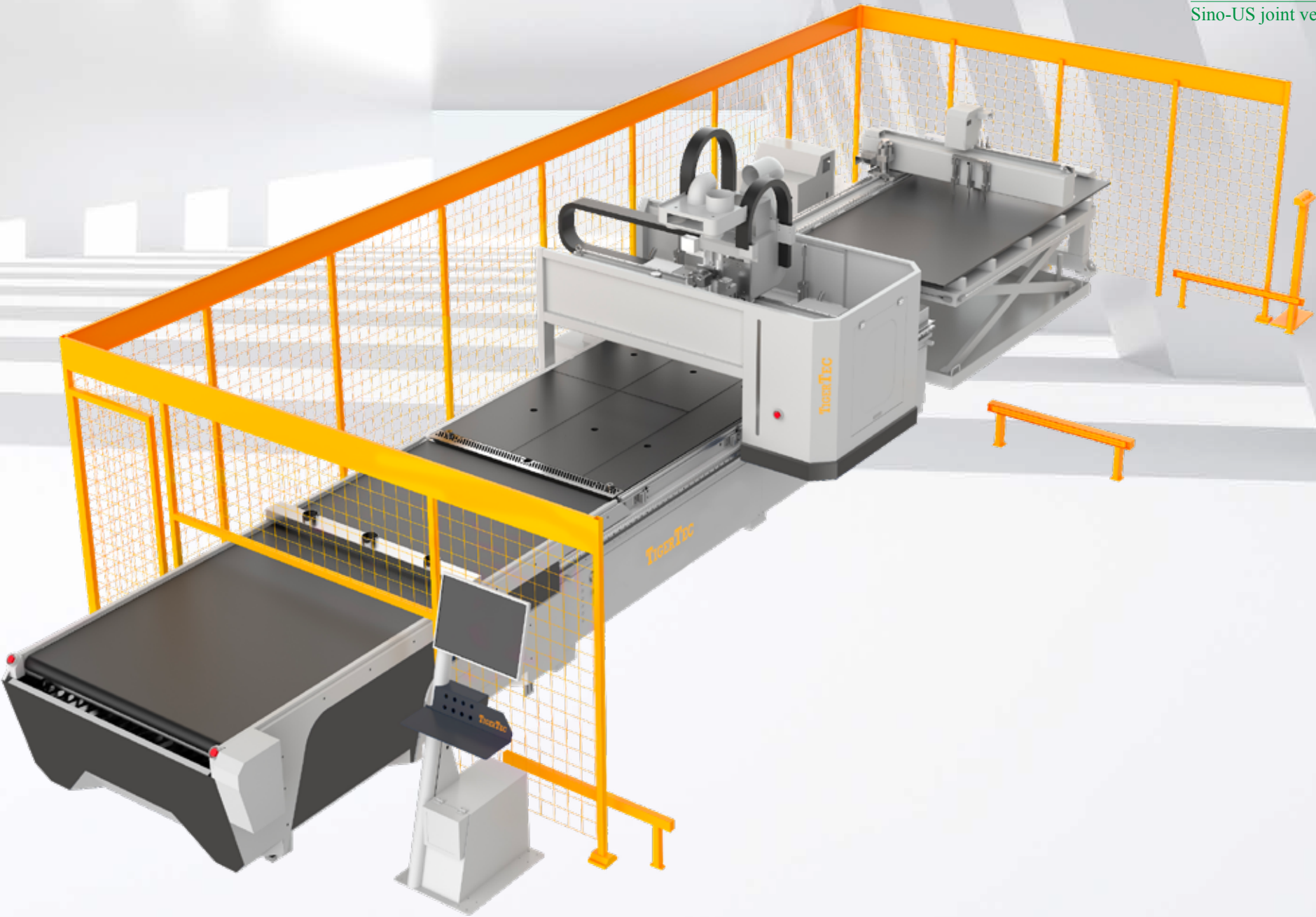
- High precision and reliability over time
- High processing flexibility
- Maximum productivity, minimum footprint
- Full production at a competitive price
- Machine customization depending on different production requirements

Applications

Wooden doors, kitchen cabinets, wine cabinets, game cabinets, panel furniture, office furniture, closet, customized furniture, table, chair, voice box, cupboard doors, stereo wave board, etc. Suitable for standard or bespoke production.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TZ408-12-9A	1240mm	2460mm	200mm	±0.05mm/m	3500KGS	2768mm	4025mm	2300mm
	51.2"	98.4"	7.9"			109"	158.5"	91"
TZ612-12-9A	1800mm	3600mm	200mm	±0.05mm/m	4500KGS	3770mm	5350mm	2300mm
	70.8"	141.7"	7.9"			150"	210"	91"
TZ710-12-9A	2100mm	3100mm	200mm	±0.05mm/m	4200KGS	4150mm	5850mm	2300mm
	82.7"	122.0"	7.9"			163.38"	230.31"	91"



CNC Router Dual Heads

CNC Router Dual heads is an economical and practical model, with two spindles, the bigger one is for cutting and grooving, the smaller one 1.5KW spindle for drilling, saving time for changing different tools It is the economic choice for cabinet marking.

Outstanding Features

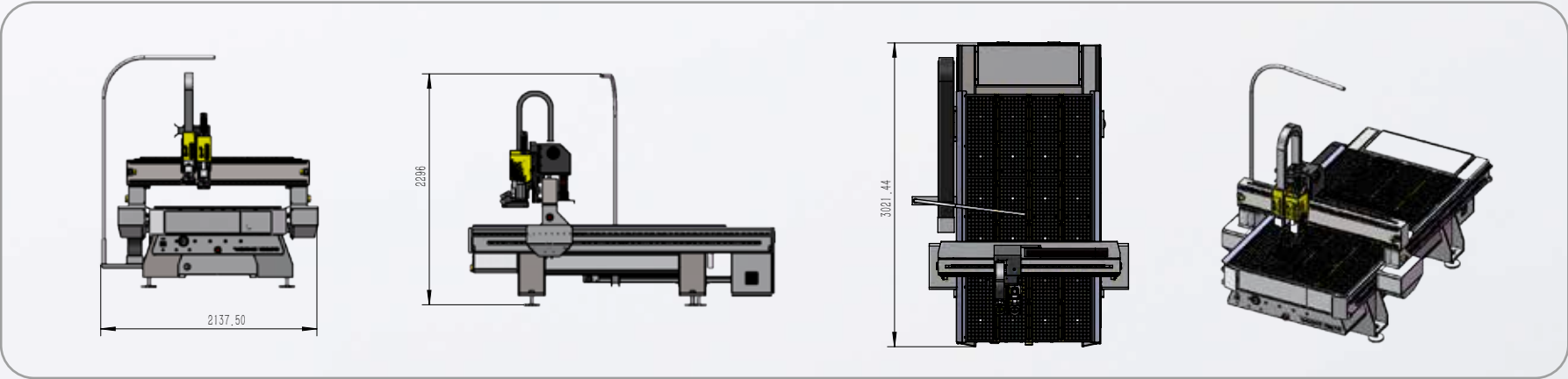
- Italian HSD air-cooled spindle with electric fan, powerful and quiet
- Makes your industries high-tech at an affordable cost with DSP off-line control system useful for high speed and accurate cutting in furniture & door industries
- Eradicate the need for outsourcing, saving time and money
- Improve turnaround with TigerTec products offering up to 70% faster production capabilities than manual processes
- Improve bottom line, reduce human error and material wastage by up to 30% by getting it right on the first pass

Applications

Wood cabinets and wood furniture, sign making and carving, musical instruments, plastic and foam, marble and stone engraving, prototyping, and 3D modeling, exhibits, scene/prop shops, architectural millwork, aluminum and brass machining.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD	1240mm	2460mm	200mm	± 0.05mm/m	1500KGS	2024mm	3300mm	1950mm
	48.8"	96.9"	7.9"			79.7"	129.9"	77"
TR510AD	1550mm	3050mm	200mm	± 0.05mm/m	1800KGS	2224mm	3800mm	1950mm
	61.0"	120.1"	7.9"			87.6"	149.6"	77"
TR710AD	2100mm	3050mm	200mm	± 0.05mm/m	2200KGS	2724mm	3800mm	1950mm
	82.7"	120.1"	7.9"			107.2"	149.6"	77"
TR712AD	2100mm	4050mm	200mm	± 0.05mm/m	2500KGS	2724mm	4800mm	1950mm
	82.7"	159.4"	7.9"			107.2"	189"	77"



CNC Router TR203E

TigerTec is proud to introduce our new model TR203E tabletop CNC Router. A compact version of a full-scale CNC system designed for smaller-sized business or production environments or educational settings.

Outstanding Features

- 600*900mm(23.6"×35.4")process area, with 150mm(5.9") Z-axis stroke
- With a 1.5KW(2HP) air coolant spindle
- Precision TBI ball screws and HIWIN linear rail and bearing on all 3-axis Micro stepper motors and Mach3 controllers
- T- slot table for easy parts fixturing
- All the mechanical parts done by the CNC machine tools in TigerTec factory

Options

- Steel base with casters

Servo driving system

Vacuum pump from China or Germany for your choice
- 1.5HP dust collector

Coolant system

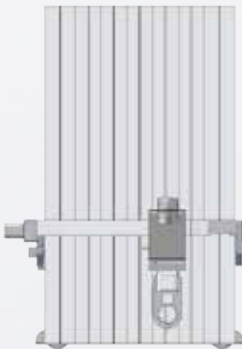
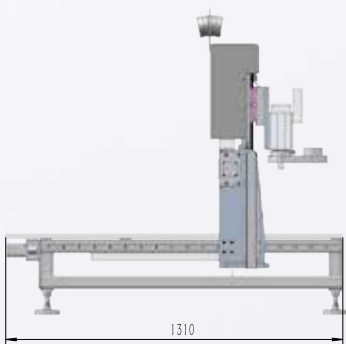
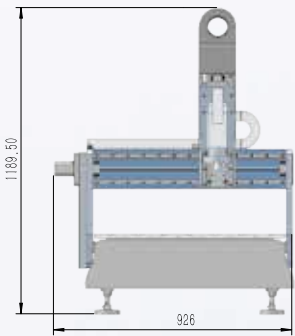
4th axis rotary table with tail stock

Applications

Ideal for small-part production, prototyping, model making, Metal engraving, woodworking, signage, educational applications, and very advanced hobby applications. Designed to cut a multitude of materials such as composite materials, foam, plastic, wood, acrylic, MDF, bamboo, PVC, double color board, copper, aluminum ACP and so on.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR203E	600mm	900mm	150mm	± 0.05mm/m	250KGS	926mm	1310mm	1189.5mm
	23.6"	35.4"	5.9"			36.5"	51.6"	46.8"



CNC Router with oscillating knife and CCD

TigerTec CNC Router with oscillating knife is a multi-functional engraving machine. The CNC router completes the engraving and cutting of the plate. The oscillating knife can cut soft materials such as cardboard, leather, foam panel, mat board, carpet or rubber, special-shaped sponge, corrugated paper, adhesive sticker, KT board, etc. One machine for multiple purposes not only improves work efficiency also saves the cost of adding other equipment.

Outstanding Features

- Machine can use different size of the cutting blades for the different designs and materials
- Machine can work on the standard materials with the normal CNC Router works
- Machine equipped with CCD camera, which has a good positioning effect for cutting complex patterns

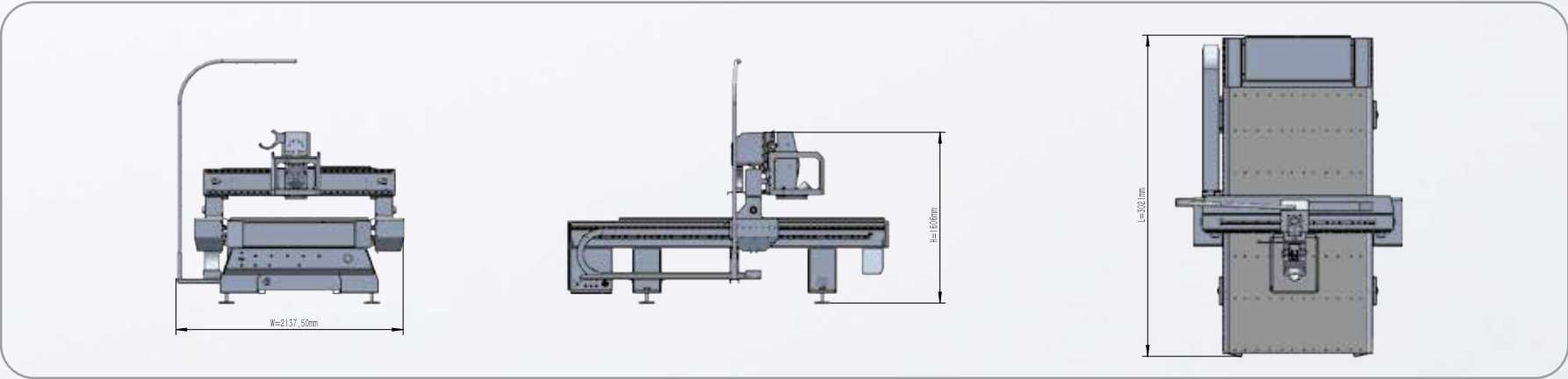
Applications

Applied industry: Wood furniture industry, advertising industry, crafts, and many other industries.

Applied materials of the oscillating knife cutting machine: Leather, flexible materials, car stickers, photo frame paper, corrugated paper, rubber, gasket, carpet and mat.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD	1240mm	2460mm	200mm	± 0.05mm/m	1500KGS	2024mm	3300mm	1950mm
	48.8"	96.9"	7.9"			79.7"	129.9"	77"
TR510AD	1550mm	3050mm	200mm	± 0.05mm/m	1800KGS	2224mm	3800mm	1950mm
	61.0"	120.1"	7.9"			87.6"	149.6"	77"
TR710AD	2100mm	3050mm	200mm	± 0.05mm/m	2200KGS	2724mm	3800mm	1950mm
	82.7"	120.1"	7.9"			107.2"	149.6"	77"
TR712AD	2100mm	4050mm	200mm	± 0.05mm/m	2500KGS	2724mm	4800mm	1950mm
	82.7"	159.4"	7.9"			107.2"	189"	77"



Axis Rotary

TigerTec CNC router TR408AD-R with rotary axis is one of the most popular models for many applications. We offer many options for this model for different industries. Besides, the machine with a rotary axis is one of the state of art CNC machines designed and developed for the carving industry focusing on cylindrical as well as flat engraving/carving and cutting applications with its 4th axis in place making 3D carving on the cylindrical surface on any wood. The machine has easy to use, you will be achieving basic routing tasks and producing your pieces in time.

Outstanding Features

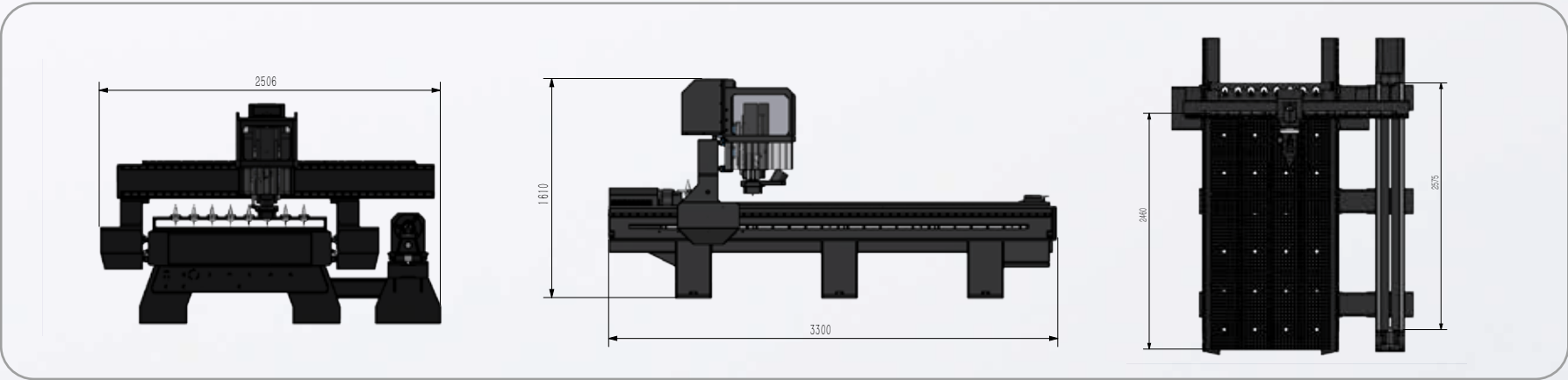
- Electronic spindle: We use Italy spindle which is the top brand in the world
- Powered by stepper driving system with planetary reducer
- Work surface constructed bakelite with T-slot tracks ensure plenty of options for holding down materials
- Side rotary device for cylinder processing: diameter 400mm with length 2200mm
- Adopt new advantage motion control technique user-friendly interface design, stronger functions and stability for operation with a longer service life. The operation is simple and convenient and can meet the requirements of 4-axis processing

Applications

This machine in multiple uses, keep in mind the diversity in the wood carving and cutting industry for carving doors, windows, table legs, chair legs, staircase columns, 3D god relief and many more interior decorative purposes. Our CNC router with rotary axis is an all-in-one machine that serves all.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD-R	1240mm	2460mm	200mm	± 0.05mm/m	1700KGS	2024mm	3300mm	1950mm
	48.8"	96.9"	7.9"			79.7"	129.9"	77"
TR510AD-R	1550mm	3050mm	200mm	± 0.05mm/m	2000KGS	2224mm	3800mm	1950mm
	61.0"	120.1"	7.9"			87.6"	149.6"	77"
TR710AD-R	2100mm	3050mm	200mm	± 0.05mm/m	2400KGS	2724mm	3800mm	1950mm
	82.7"	120.1"	7.9"			107.2"	149.6"	77"
TR712AD-R	2100mm	4050mm	200mm	± 0.05mm/m	2700KGS	2724mm	4800mm	1950mm
	82.7"	159.4"	7.9"			107.2"	189"	77"



Customized Machines-Styrofoam CNC Router

Specially designed to cater to a wide range of industries, including architectural modeling, signage creation, various large non-metallic molds, and custom packaging production. With its exceptional precision and versatility, it would be your ultimate tool for transforming the EPS foam into stunning, quality designs and prototypes used in statue, relief, exhibition,and decoration lines.

Outstanding Features

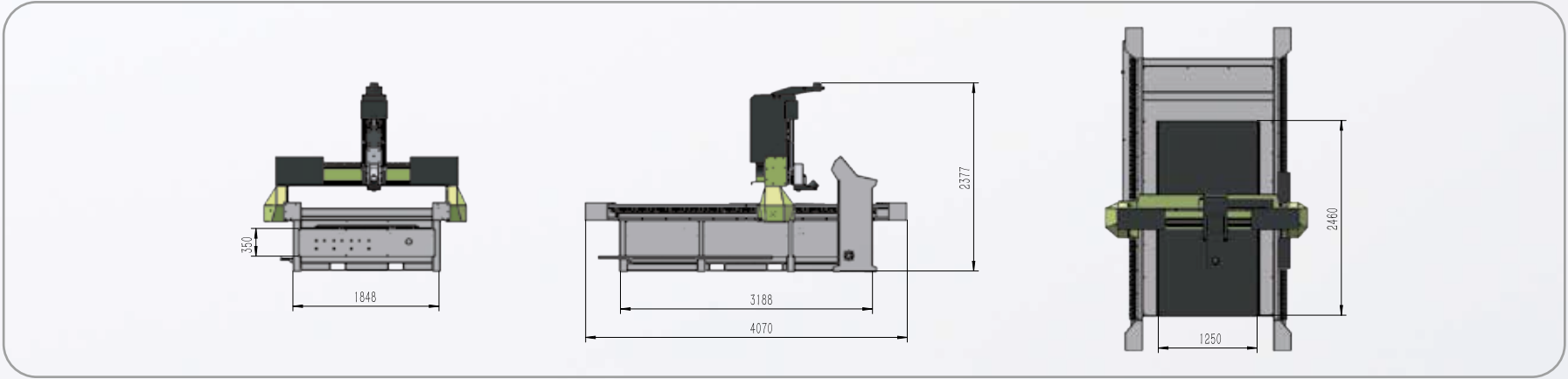
- The Z-axis clearance could be heightened according to your special requirements
- Using dust-proof system to ensure good lubrication performance of guide rail and screw
- Support customized functions to meet diverse processing needs
- ATC system, 4-axis spindle, rotary axis are also available if you need

Applications

Widely applied in die and mold industries, building industry, sign&advertising, relief sculpture and 3D engraving and cylindrical projects. Suitable for wood, plastic and rubber, stone, soft metal and composite processing materials.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408	1240mm	2460mm	200mm	±0.05mm/m	1500KGS	2548mm	4070mm	2377mm
	48.8"	96.9"	7.9"			100.3"	160.2"	94"
TR510	1550mm	3050mm	200mm	±0.05mm/m	1800KGS	2748mm	4570mm	2377mm
	61.0"	120.1"	7.9"			108.2"	179.9"	94"
TR710	2100mm	3050mm	200mm	±0.05mm/m	2200KGS	3248mm	4570mm	2377mm
	82.7"	120.1"	7.9"			127.8"	179.9"	94"



Customized Machines-Large-format CNC Router

Customized solutions for every need. We understand that every business has unique needs. That’s why we offer customizable CNC solutions. From different sizes to varying capabilities, you can find the perfect large-scale CNC that suits your operational requirements.

Outstanding Features

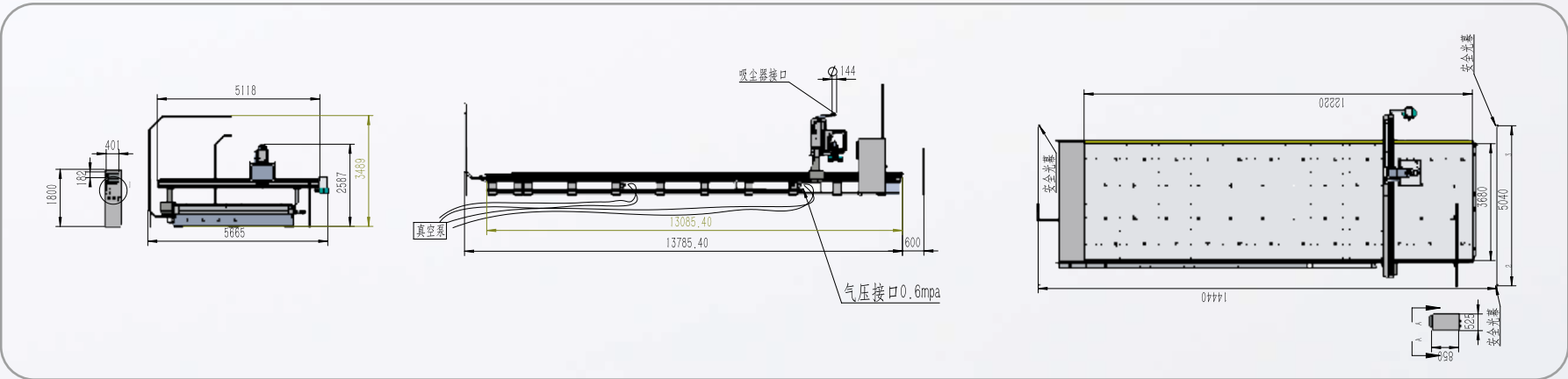
- Fully welded steel frames, heavy-duty steel gantry and column supports, over-spec bearings,and heavy-duty drive systems all combine to provide the machinery with outstanding capabilities and reliabilities
- Easily accommodating large format sheets, it is possible to machine a variety of substrates in one single pass
- With rotating spindle that can swing by 180 degrees. It can engrave 3D patterns and drill holes on side surfaces of processing materials

Applications

Widely applied in woodworking industries, advertising industries and die industries. Popular choice for aluminium fabricators, signmakers and plastic fabricators.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR3612	3660mm	12220mm	500mm	±0.05mm/m	12000KGS	6066mm	14385.4mm	3489mm
	144.1"	481.1"	19.7"			238.8"	566.4"	137.4"



ATC Series Economical Cutting Solutions

TigerTec flat table of CNC Router with ATC spindl and the position automatic tool changer is designed for modern workshops with flexibility in mind. They are ideal for all manner of industries needing CNC speed and accuracy.

Outstanding Features

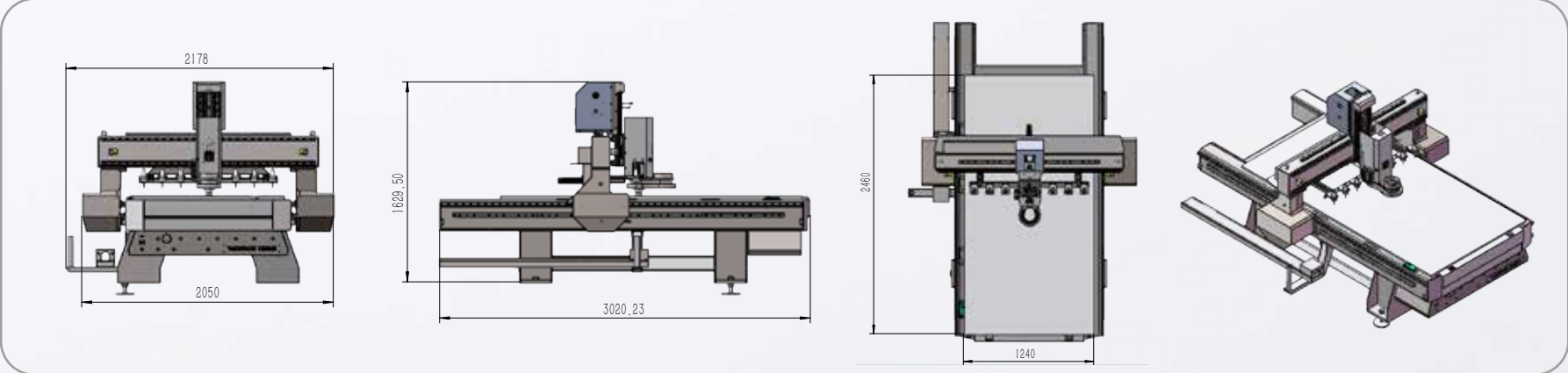
- Quality spindle, world famous Italy router head for long life and service ability.
- Advanced DSP control system with USB connection, user-friendly interface, easy operation and fast response.
- Linear type tool magazine with 8 tools, automatic tool change without waiting
- Multifunctional table, prepared for mechanical clamping or vacuum working with separate work zones and a choice of Becker vacuum pump
- TigerTec helical rack and pinion transmission, high precision linear rails for 3-axis movements.

Applications

Sign making, door making, cabinet making, furniture making, crafts making, furniture decoration, decorative partition making, musical instrument making, advertising boards, screen making.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408ADATC-L	1240mm	2460mm	200mm	± 0.05mm/m	1700KGS	2024mm	3300mm	1950mm
	48.8"	96.9"	7.9"			79.7"	129.9"	77"
TR510AD ATC-L	1550mm	3050mm	200mm	± 0.05mm/m	2000KGS	2224mm	3800mm	1950mm
	61.0"	120.1"	7.9"			87.6"	149.6"	77"
TR710AD ATC-L	2100mm	3050mm	200mm	± 0.05mm/m	2500KGS	2724mm	3800mm	1950mm
	82.7"	120.1"	7.9"			107.2"	149.6"	77"
TR712AD ATC-L	2100mm	4050mm	200mm	± 0.05mm/m	2800KGS	2724mm	4800mm	1950mm
	82.7"	159.4"	7.9"			107.2"	189"	77"



4th Axis Series-Rotating Spindle

ATC series are equipped with ATC spindle which can rotate 180 degrees (left and right 90 degrees), mainly designed for curved surface processing, such as curved chairs, and also for milling the lock hole and hinge hole of wood door.

Outstanding Features

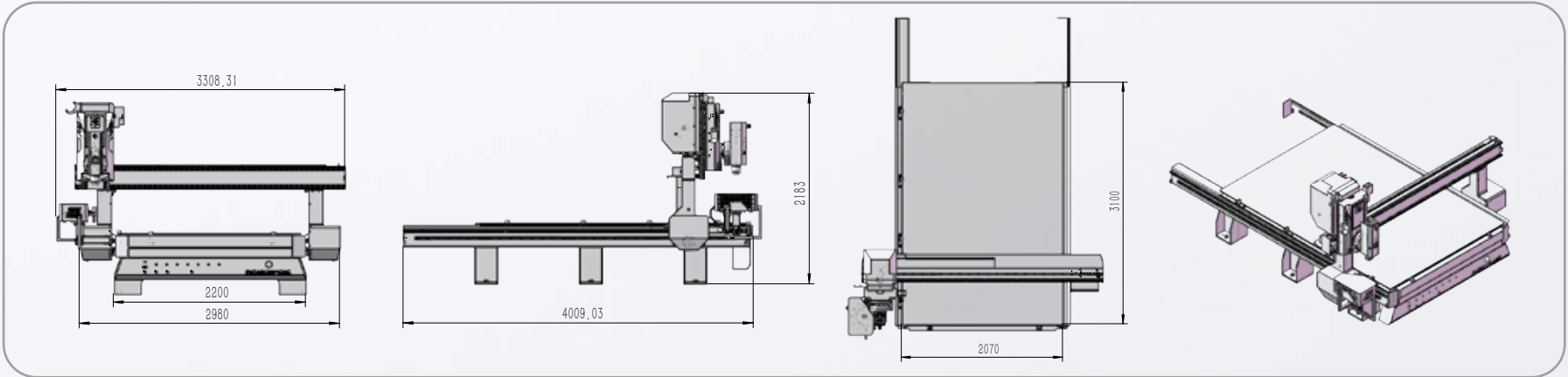
- Spindle can rotate 180 degrees (right and left 90 degrees), which enables the machine to process 3D molds, statues and other objects
- Professional 4-axis control system Syntec, multi-functional, stable and easy to learn and operate
- Linear type tool magazine with 8 tools, automatic tool change without waiting
- Multifunctional table, prepared for mechanical clamping or vacuum working with separate work zones and a choice of Becker vacuum pump
- All the specifications can be customized according to customer’s actual processing needs

Applications

Widely used in casting molds, foam molds, automotive molds, train molds, aviation molds, ship molds, and more applications.

Technical Parameters

Model No.	Process Area			Accuracy	Weight	Foot Print (W*L*H)		
	X	Y	Z					
TR408AD-4h axis	1240mm	2460mm	200mm	± 0.05mm/m	1500KGS	2024mm	3300mm	1600mm
	48.8"	96.9"	7.9"			79.7"	129.9"	63"
TR510AD-4th axis	1550mm	3050mm	200mm	± 0.05mm/m	1800KGS	2224mm	3800mm	1600mm
	61.0"	120.1"	7.9"			87.6"	149.6"	63"
TR710AD-4th axis	2100mm	3050mm	200mm	± 0.05mm/m	2100KGS	2724mm	3800mm	1600mm
	82.7"	120.1"	7.9"			107.2"	149.6"	63"
TR712AD-4th axis	2100mm	4050mm	200mm	± 0.05mm/m	2300KGS	2724mm	4800mm	1600mm
	82.7"	159.4"	7.9"			107.2"	189"	63"



We Do In-door

