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Collaborate with peers for innovation
and win-win outcomes



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博罗县昶丰精密机械设备有限公司

Boluo County Changfeng Precision Machinery and Equipment Co.,Ltd

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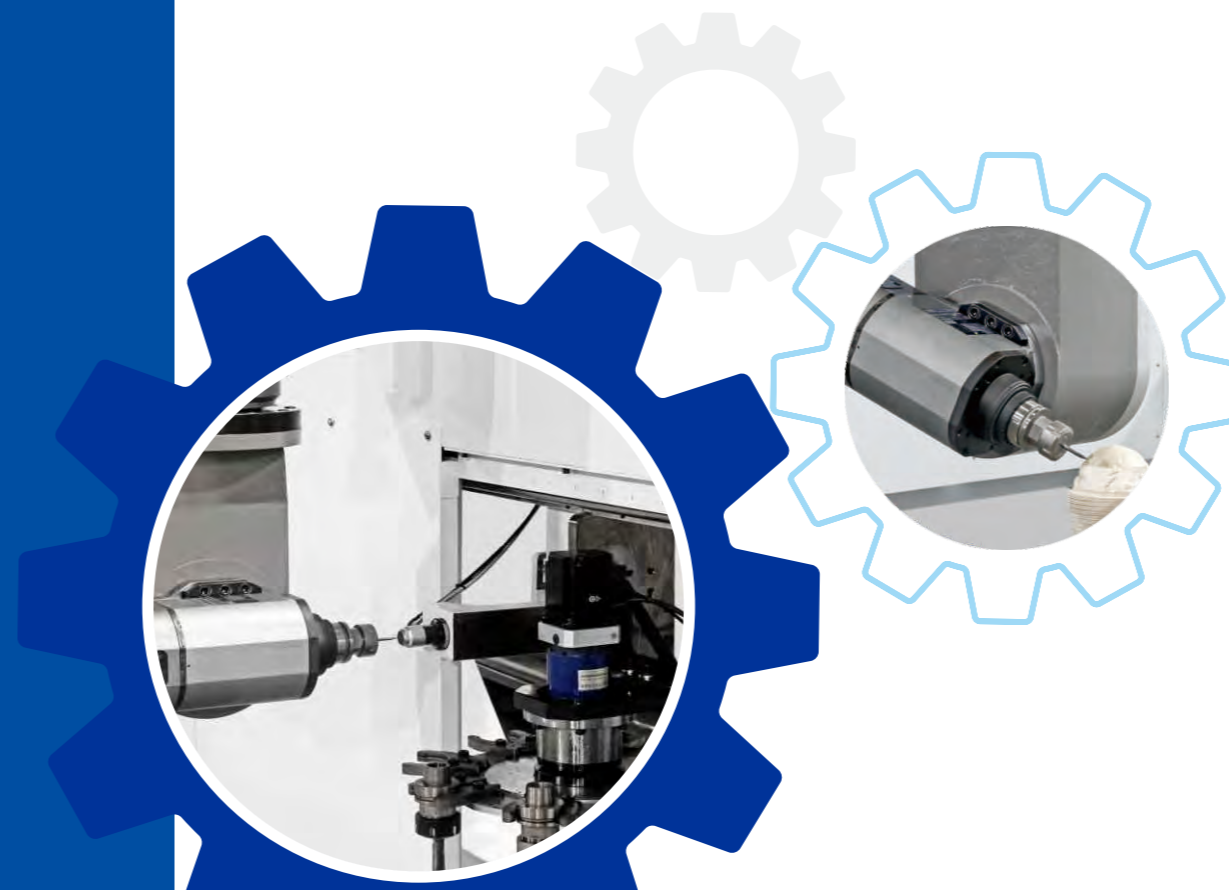


昶丰精密机械

CHANG FENG PRECISION MACHINERY

昶丰精密机械·CHANG FENG
专注五轴CNC设计、制造、销售

ChangFeng Precision Machinery · CHANG FENG
Dedicated to 5-axis cnc R&D,manufacturing and sales



CHANG FENG

合力同行·创新共赢

Collaborate with peers for innovation and win-win outcomes

本公司引进了行业领先的激光切割设备、数控折弯设备、德国五轴联动加工设备、日本卧式加工中心、日本龙门五面体加工中心等高端数控加工设备,从而实现品质上的控制及产能的优化。

The company has introduced leading laser cutting equipment, CNC bending equipment, German five-axis linkage processing equipment, Japanese horizontal processing center, Japanese gantry pentahedron processing center and other high-end CNC processing equipment, so as to achieve quality control and production capacity optimization.



激光切割机
Laser cutting machine



精密激光切割机
Precision laser cutting machine



高温回火处理
High temperature tempering treatment



数控定梁龙门五面加工中心
CNC fixed beam gantry five face machining center



大型龙门铣床
Large gantry milling machine



进口立式加工中心
Imported vertical machining center



数控车床
CNC lathe



精密加工车间
Precision machining workshop



静电粉末喷塑机
Electrostatic powder spraying machine



大型烤漆房
Large paint baking room



部分装配车间
Some assembly workshops



部分装配车间
Some assembly workshops



铲花工艺
Spading process



铲花工艺
Spading process



精度校正
Accuracy correction



精度校正
Accuracy correction



激光干涉仪
Laser interferometer



激光干涉仪
Laser interferometer



激光干涉仪
Laser interferometer



球杆仪
Ballbar



博罗县昶丰精密机械设备有限公司创建于1999年,坐落于惠州市博罗县高新技术开发区,是“国家级高新技术企业”,一家专注于木工机械设计、研发、制造、销售及服务于一体的企业。

公司始终实施科技领先战略,坚持技术创新,积极引进融合国内外先进技术,在材料技术、自动控制、木材加工、特种加工等多方面研发创新。

公司配备大型全自动CNC加工中心,数控车床、数控磨床等多种先进的加工设备,所生产的机械设备广泛应用装饰材料、机械重工、家具建材、木屋、高铁等多个领域,并标配全球顶尖零部件为用户提供长期工业化稳定可靠的木工机械设备。

我公司秉承“合力同行,创新共赢”的企业理念,致力于为客户创造价值,追求为客户提供整体解决方案,不仅提供多种自主研发生产的设备,还为用户提供从配套机型选择、安装调试、人员培训、工艺流程设计、运行跟踪、售后维修等一系列的一体化全方位服务。

面向未来,我公司将持续发挥自身独有的专业研发优势,不断提升质量和服务,赢得更多客户的信赖,并为国内外木工机械行业的发展做出更杰出的贡献。

BOLUO Changfeng Precision Machinery Equipment Co., Ltd. founded in 1999 and located in Boluo County high tech Development Zone, Huizhou City, it is a "national high-tech enterorise". t is an enterorise focusing on woodworking machinery desian, research and devel ooment, manufacturing.sales and service.

The company has always implemented the strategy of leading science and technology, adhered to technological innovation, actively introduced and integrated advanced technologies at home and abroad, and developed and innovated in material technology, automatic control, wood processing, special processing and other aspects.

The company is equipped with large-scale full-automatic CNC processing centers, CNC lathes, CNC grinding machines and other advanced processing equipment. The mechanical equipment produced by the company is widely used in decoration materials, mechanical heavy industry, furniture and building materials, wooden houses, high-speed railways and other fields. The company also provides users with long-term industrialized, stable and reliable woodworking machinery and equipment with top parts in the world.

Our company adheres to the enterprise philosophy of "joint efforts, innovation and win-win". We are committed to creating value for customers and seeking to provide customers with overall solutions. We not only provide a variety of independently developed and produced equipment, but also provide users with a series of integrated and comprehensive services from supporting model selection, installation and commissioning, personnel training, process flow design, operation tracking, after-sales maintenance and so on.

Facing the future, our company will continue to give play to its unique professional R & D advantages, constantly improve quality and service, win the trust of more customers, and make more outstanding contributions to the development of the woodworking machinery industry at home and abroad.

公司简介

COMPANY INTRODUCTION

核心零部件合作供应商

CORE PARTS COOPERATIVE SUPPLIER

数控系统 CNC System

FANUC

OSAI

SYNTEC

WEIHONG

LNC
寶元科技

HUST

SIEMENS

高速主轴电机 High Speed Spindle Motor

HSD
MECHATRONICS

hiteco
海铁克

伺服控制器 Servo Controller

FANUC

YASKAWA
安川電機

DELTA 台达

Inovance

传动及驱动 Driving and Driving

Rexroth
Bosch Group

HIWIN®
Linear Motion Products & Technology

PMI
Linear Motion Systems

拖链电缆 Towline cable

igus

真空吸附泵 Vacuum Adsorption Pump

BECKER

EUROVAC
vacuum pumps & system

轴承类 Bearing class

SKF

NACHI

MOTION CONTROL
NSK

气动类 Pneumatics

亞德客
AIRTAC

SMC

FESTO

开关电器 Switchgear

Schneider
Electric
施耐德电气

OMRON
欧姆龙

大型综合五轴加工中心

CRANE TYPE HIGH-SPEED FIVE AXISMACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviati on industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom



细节展示 | Detail display



特点 | Characteristic

采用五轴联动控制系统,带RTCP功能(真正五轴插补)适合三维立体的曲面加工。独特的硬件平台模块化设计,功能强大。该机器是一台高精度,五面加工,五轴连动的性能,五轴400°旋转加工,能够一次上夹后,多工序一次性加工完成。自动换刀系统设计先进,大大提高工作效率。

机器结构合理,各部件均采用国际一流品牌。优异的加工性能,极高的可靠性,功能强大,偏于维护集合深浮雕、钻孔、锯割、磨边、倒角、铣底、镂空、抛光等工序于一体。

Use the five axis linkage control system is adopted, with RTCP function (real five axis interpolaion, which is suitable for three-dimensional surface machining. The unique modular design of the hardware platform has powerful functions.The machine is a high-precision, five side processing, five axis linked performance, five axis 400 ° rotation processing, and can beclamped at one time, and multi process processing can be completed at one time. The design of automatic tool changing system isadvanced,which greatlyimproves the work efficiency.The structure of the machine is reasonable, and all components are ofinternational first-class brands, Excellent processing performancehigh reliability, powerful function, and maintenance oriented.It integrates deep relief, drilling, sawing, edging, chamfering, bottom milling, hollowing, polishing and other processes.

加工实例 | Process instance



天车式五轴加工中心

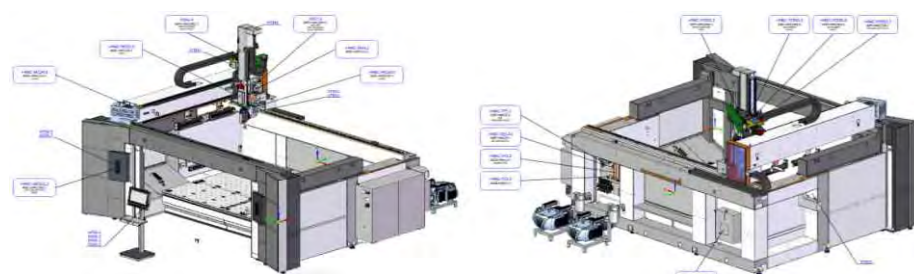
CRANE TYPE HIGH-SPEED FIVE AXISMACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

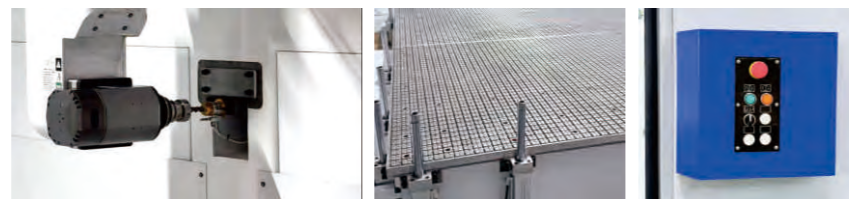
Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-NC3626/X5



细节展示 | Detail display



特点 | Characteristic

桥式龙门五轴功能强大, 操作简便, 控制精度高;
五轴五联动, 适合超大型三维立体曲面加工, 结构非常稳定;
完成大型、重型、复杂零件及各种异型工件的加工。

Bridge gantry 5-axis powerful, easy to operate, high control accuracy;
5-axis 5-linkage, suitable for ultra-large three-dimensional three-dimensional curved surface machining, the structure is very stable;
Completes the machining of large-scale, heavy-duty, complex parts and a variety of shaped workpieces.



箱中箱式五轴加工中心

CRANE TYPE HIGH-SPEED FIVE AXISMACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

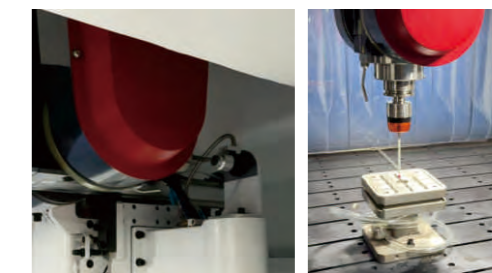
Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-NC3015/X5



细节展示 | Detail display



木结构五轴加工中心系列

WOODEN STRUCTURE 5-AXIS MACHINING CENTER SERIES

适用行业 | 建筑与景观工程, 航天业, 能源装备, 模具制造.....

Applicable Industries | Architecture and landscape engineering, aerospace industry, energy equipment, mold making

※ 该款设备接受特殊定制 This device accepts special custom

细节展示 | Detail display



特点 | Characteristic

五轴加工中心加工空间曲面、异型加工都可以完成实现,能够完成复杂工件机械化加工的任务,且还能够快速提高加工效率,缩短加工流程。

龙门双五轴头,五轴联动加工各种回转表面,控制系统带RTCP功能(真正五轴插补)。

可一次完成五个面加工,独特的硬件平台模块化设计,功能强大。

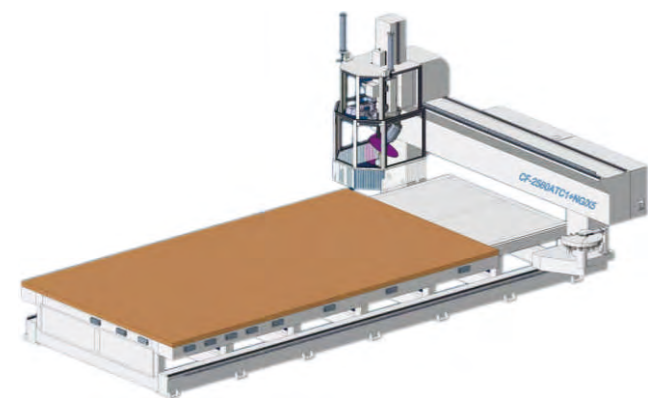
避免刀具干涉,加工普通三坐机床难以加工的复杂零件,加工适应性广。

The machining of spatial surfaces and irregular shapes on a five axis machining center can be achieved, which can complete the task of mechanized machining of complex workpieces and quickly improve machining efficiency and shorten the machining process.

Gantry dual five axis head, five axis linkage processing of various rotating surfaces, control system with RTCP function (true five axis interpolation).

Capable of processing five surfaces at once, with unique hardware platform modular design and powerful functions.

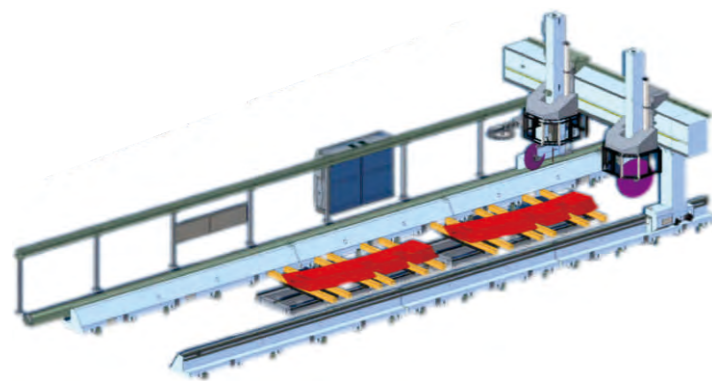
Avoiding tool interference and processing complex parts that are difficult to machine with ordinary three seat machine tools, with wide processing adaptability.



CF-NC25060ATC1+G/X5



CF-CLT/X5



CF-NC24035ATC1+G-X5

加工单元细节 | Processing unit details



直梁加工中心

Da Longmen 5-axis machining center for ancient buildings

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

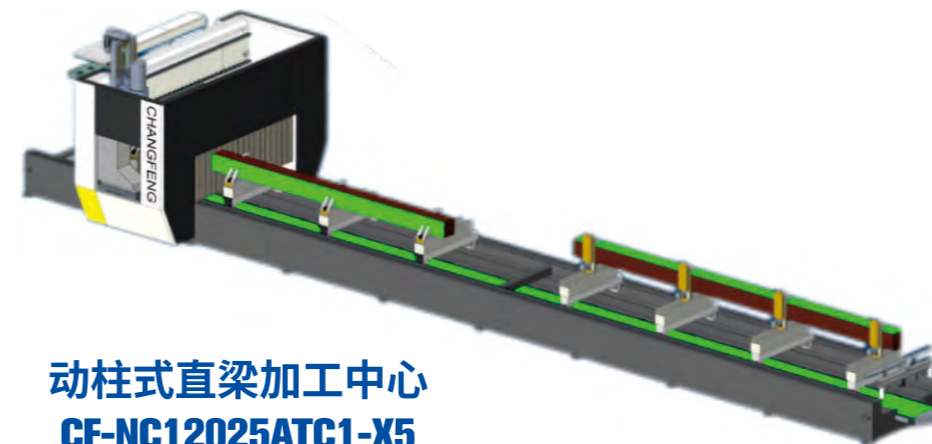
特点 | Characteristic

CLT木结构零配件加工、异型弯曲结构木梁、CLT、木制复合墙体等五轴加工;自动换刀,智能化加工,可完成各种角度的锯切、铣型、钻孔、开槽等加工;多轴联动无极变角、快速直线、任意角度斜切加工,多角度的全方位加工。

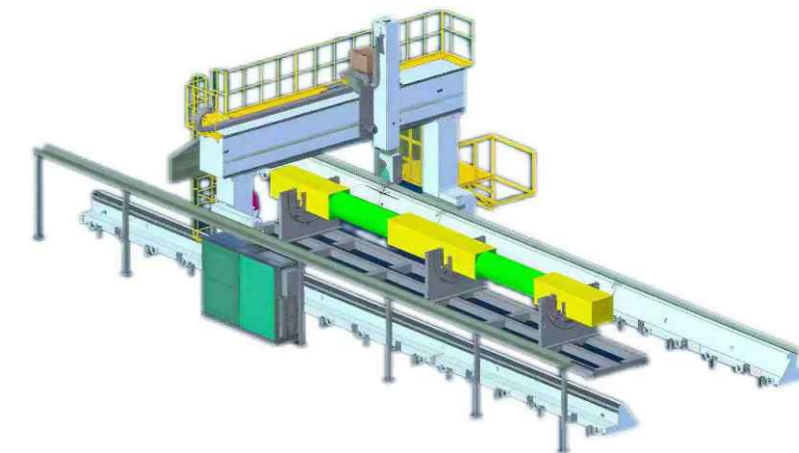
Five-axis processing of CLT wood structure spare parts processing, shaped bending structure wood beams, CLT, wood composite walls and so on; Automatic tool change, intelligent processing, can complete various angles of sawing, milling, drilling, slotting and other processing; Multi-axis linkage infinitely variable angle, fast straight line, any angle oblique cutting processing, multi-angle all-round processing.



通过式直梁加工中心
CF-ZL3060



动柱式直梁加工中心
CF-NC12025ATC1-X5



大龙门古建筑五轴加工中心
CF-NC12060

重型自动换刀五轴加工中心

HEAVY DUTY AUTOMATIC TOOL CHANGER 5-AXIS MACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviati on industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-MASTERT3CU-28

CF-MASTERT3CU-32

CF-MASTERT3CU-42



特点 | Characteristic

双工作台可实现单一工作台加工,另一工作台上下料的不断生产加工,也可双工作台同动组合加工大型工件。更换刀具时,能够快速测量刀长,提高对刀精度。

工作台台面配有气缸夹具+方形真空吸盘,达成快速固定工作的目的,保证所加工物料的吸附可靠和稳定性。

五轴加工中心让一切的空间曲面、实现异型加工,完成复杂工件加工的任务,快速提高加工效率。

五轴联动可加工各种回转表面,一次完成五个面加工,独特的硬件平台模块化设计,功能强大保证工件各加工面的位置精度。

可对平面、曲面、斜面、斜孔、二三维曲面及三维线条进行加工,具备工件毛坯一次装卡定位,在五维空间各方向实现五轴联动铣、镗、钻、锯等功能。

The double worktable can realize the continuous production and processing of a single worktable and the loading and unloading of another worktable.It can also process large workpieces with the simultaneous combination of two worktables, When changing the tool. it can quickly measure the tool length and improve the tool setting accuracy.

The worktable top is equipped with cylinder clamp + square vacuum suction cup to achieve the purpose of fast ixing work and ensure the reliable and stable adsorption of processed materials.

The five axis machining center enables all spatial curved surfaces to realize special-shaped machining, complete the task of complex workpiece machining, and quickly improve the machining efficiency.

The five axis inkage can process various rotating surfaces, and complete the processing of five surfaces at one time. The unique hardware platform is designed in a modular way,with powerful functions to ensure the position accuracy of each processing surface of the workpiece.

It can process plane, curved surface, inclined plane, inclined hole, two-dimensional and three-dimensional curved surface and three-dimensional line. it has the functions of one-time clamping and positioning of workpiece blank, and realizing five axis linkage miling,carving, drilling and sawing in all directions offive-dimensional space.

机器参数 | Machine Parameters

型号/Model	CF-MASTERT3CU-28	CF-MASTERT3CU-32	CF-MASTERT3CU-42
真空工作台尺寸 Vacuum table size	1200×1500mm	1400X1500mm 1400X2000mm 1400X2400mm	1800X2000mm
真空工作台数量 Vacuum table quantity	2Nr		
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 TAIWAN LNC/OPTIONAL: ITALY OSAI		
加工主轴 Machining spindle	①12KW自动换刀1个(转速:24000RPM) ①One12KWautomatic tool change(Revolution:24000RPM) ②9.5KW手动换刀2个 ②Two 9.5KW manual tool changers		
刀库 Tool magazine	伺服刀库(9位) Servo magazine (9 bits)	双层伺服刀库(9位x2)数量:8位 Double layer servo magazine (9 bits x2)Quantity: 8 bits	
真空泵 Vacuum pump	5.5HPx2旋片干式 5.5HPx2 rotary vane dry type		

加工实例 | Process instance



重型五轴加工中心

HEAVY DUTY 5-AXIS MACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....**Applicable Industries** | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-MASTERT4-28

CF-MASTERT4-32



特点 | Characteristic

双工作台可实现单一工作台加工,另一工作台上下料的不间断生产加工,也可双工作台同时组合加工大型工件。

工作台台面配有气缸夹具+方形真空吸盘,达成快速固定工作的目的,保证所加工物料的吸附可靠和稳定性。

五轴加工中心让一切的空间曲面、实现异型加工,完成复杂工件加工的任务,快速提高加工效率。

五轴联动可加工各种回转表面,一次完成五个面加工,独特的硬件平台模块化设计,功能强大保证工件各加工面的位置精度。

可对平面、曲面、斜面、斜孔、二三维曲面及三维线条进行加工,具备工件毛坯一次装卡定位,在五维空间各方向实现五轴联动铣、钻、锯等功能。

The double worktable can realize the continuous production and processing of a single worktable and the loading and unloading of another worktable. It can also process large workpieces with the simultaneous combination of two worktables.

The worktable top is equipped with cylinder clamp + square vacuum suction cup to achieve the purpose of fast fixing work and ensure the reliable and stable adsorption of processed materials.

The five axis machining center enables all spatial curved surfaces to realize special-shaped machining, complete the task of complex workpiece machining, and quickly improve the machining efficiency.

The five axis linkage can process various rotating surfaces, and complete the processing of five surfaces at one time. The unique hardware platform is designed in a modular way, with powerful functions to ensure the position accuracy of each processing surface of the workpiece.

It can process plane, curved surface, inclined plane, inclined hole, two-dimensional and three-dimensional curved surface and three-dimensional line. It has the functions of one-time clamping and positioning of workpiece blank, and realizing five axis linkage milling, carving, drilling and sawing in all directions of five-dimensional space.

机器参数 | Machine Parameters

型号/Model	CF-MASTERT4-28	CF-MASTERT4-32
真空工作台尺寸 Vacuum table size	1200mm×1500mm	1400X1500mm 1400X2000mm
真空工作台数量 Vacuum table quantity	2Nr	
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 TAIWAN LNC/OPTIONAL: ITALY OSAI	
加工主轴 Machining spindle	独立主轴:9.5KW手动换刀×4 转速:18000RPM Independent spindle: 9.5KW manual tool change × 4 Speed: 18000RPM	
真空泵 Vacuum pump	5.5HP×2旋片干式 5.5HP×2 rotary vane dry type	

细节展示 | Detail display



加工实例 | Process instance



五轴加工中心

FIVE AXIS MACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

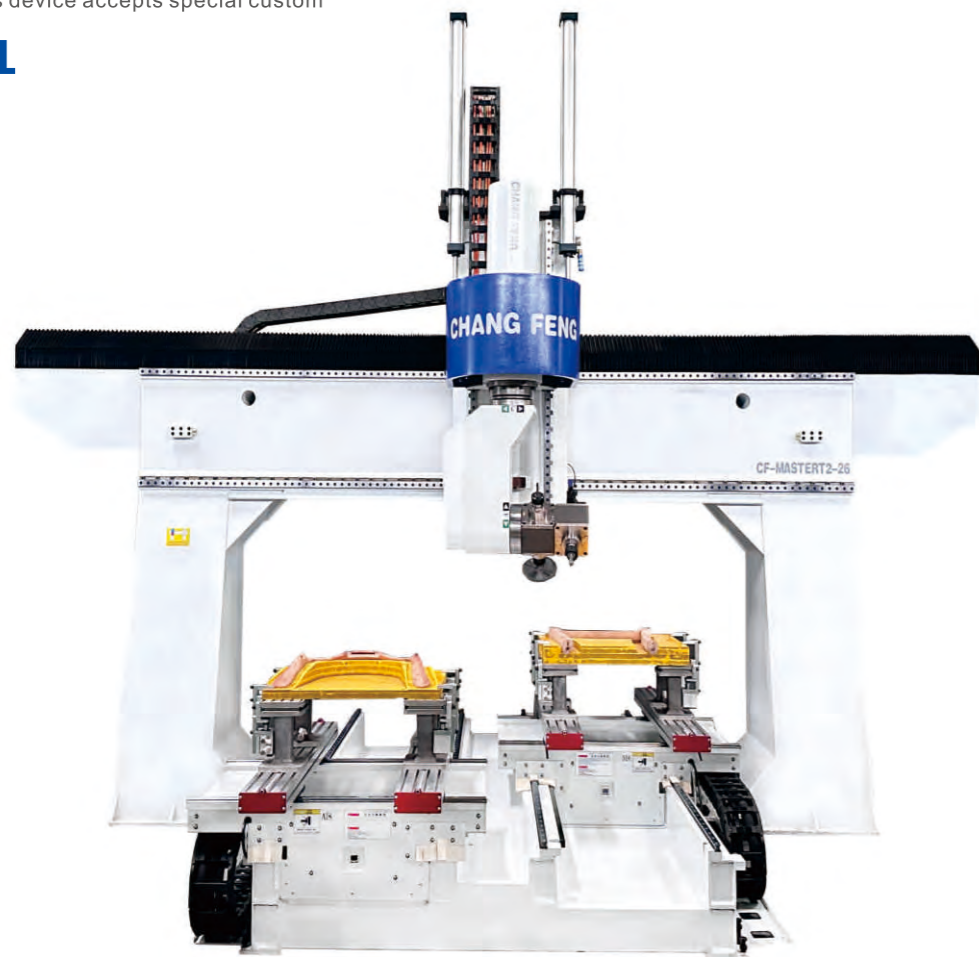
Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-MASTERT2-16L

CF-MASTERT2-28

CF-MASTERT2-32



细节展示 | Detail display



特点 | Characteristic

双工作台可实现单一工作台加工,另一工作台上下料的不断生产加工,也可双工作台同动组合加工大型工件。

工作台面配有气缸夹具+方形真空吸盘,达成快速固定工作的目的,保证所加工物料的吸附可靠和稳定性。

五轴加工中心让一切的空间曲面、实现异型加工,完成复杂工件加工的任务,快速提高加工效率。

五轴联动可加工各种回转表面,一次完成五个面加工,独特的硬件平台模块化设计,功能强大保证工件各加工面的位置精度。

可对平面、曲面、斜面、斜孔、二三维曲面及三维线条进行加工,具备工件毛坯一次装卡定位,在五维空间各方向实现五轴联动铣、钻、锯等功能。

The double worktable can realize the continuous production and processing of a single worktable and the loading and unloading of another worktable. It can also process large workpieces with the simultaneous combination of two worktables.

The worktable top is equipped with cylinder clamp + square vacuum suction cup to achieve the purpose of fast fixing work and ensure the reliable and stable adsorption of processed materials.

The five axis machining center enables all spatial curved surfaces to realize special-shaped machining, complete the task of complex workpiece machining, and quickly improve the machining efficiency.

The five axis linkage can process various rotating surfaces, and complete the processing of five surfaces at one time. The unique hardware platform is designed in a modular way, with powerful functions to ensure the position accuracy of each processing surface of the workpiece.

It can process plane, curved surface, inclined plane, inclined hole, two-dimensional and three-dimensional curved surface and three-dimensional line. It has the functions of one-time clamping and positioning of workpiece blank, and realizing five axis linkage milling, carving, drilling and sawing in all directions of five-dimensional space.

机器参数 | Machine Parameters

型号/Model	CF-MASTERT2-16L	CF-MASTERT2-28
真空工作台尺寸 Vacuum table size	1200×1500mm	1200mm×1500mm
真空工作台数量 Vacuum table quantity	2Nr	
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 TAIWAN LNC/OPTIONAL: ITALY OSAI	
加工主轴 Machining spindle	独立主轴,单主轴双头装刀,7.4KW手动换刀x2 转速:18000RPM Independent spindle, single spindle with two heads for tool loading, 7.4KW manual tool changer.x2 Speed: 18000RPM	
真空泵 Vacuum pump	5.5HPx2旋片干式 5.5HPx2 rotary vane dry type	

加工实例 | Process instance



五轴加工中心

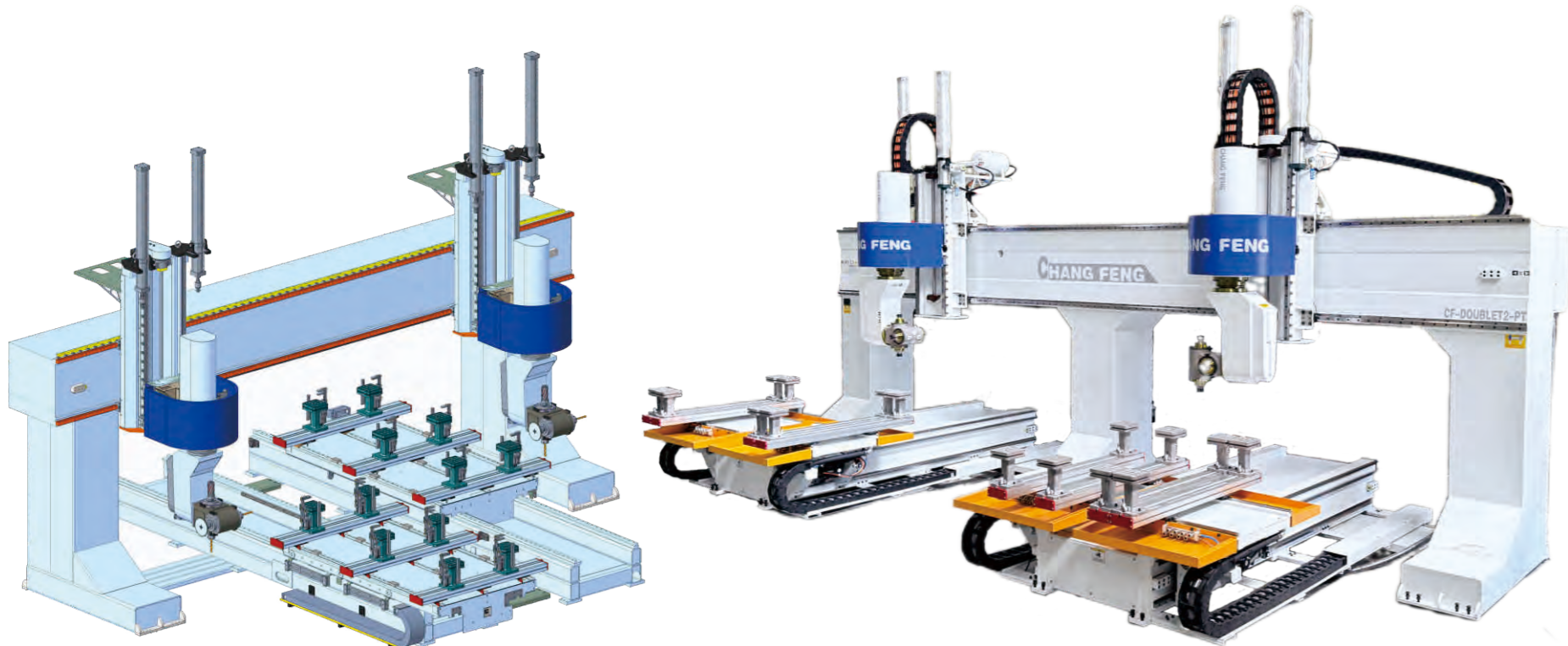
FIVE AXIS MACHINING CENTER

适用行业 | 轻金属加工、复合式材料、木工业、塑料业、航太业、造船业.....

Applicable Industries | light metal processing, composite material, wood industry, plastic industry, aviation industry, shipbuilding, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-DOUBLET2-PT CF-DOUBLET2M



特点 | Characteristic

五轴加工中心可以加工空间曲面、异型、复杂工件机械化加工的任务，快速提高加工效率，缩短加工流程。

五轴联动可以加工各种回转表面，适合大型三维立体曲面加工造型；秒数换刀（刀头与刀头之间切换小于1秒）提供加工产品的质量及加工效率；

可对平面、曲面、斜面、斜孔、二三维曲面及三维线条进行加工，工件毛坯一次装卡定位，在五维空间各方向实现五轴联动铣、镗、钻、锯等功能；用于实木、异型等复杂工件粗、精加工。

Five-axis machining center can be processed space curved surfaces, shaped, complex workpiece mechanized machining tasks, quickly improve processing efficiency, shorten the processing process.

Five-axis linkage can process a variety of rotary surfaces, suitable for large-scale three-dimensional three-dimensional surface machining modeling; seconds to change the tool (head and head switching less than 1 second) to provide the quality of the processed products and processing efficiency; can be on the plane, curved surfaces, bevels, slanted holes, two-three-dimensional surfaces and three-dimensional lines for processing, workpiece blanks once the loading and positioning in the five-dimensional space in all directions to achieve five-axis linkage milling, skeletonization, drilling, sawing and other functions;

It is used for rough and finish machining of complex workpieces such as solid wood and shapes.

配备两套加工头电主轴

设备配备2个双头加工头；

该加工头沿着两个轴旋转(A轴+C轴)，配备2个独立电主轴，安装在一个旋转头上；

这个特殊的设计使得在加工工件时减少了加工头空间的需求；加工头的双变频器控制确保了从一个刀头变换到另一个刀头时间小于1秒；

同时集成2个双头加工头，支持4个电主轴协同工作，既可独立运行，也可联动加工，在保证高精度加工的同时，显著提高生产节拍和空间利用率。

Equipped with two sets of machining head spindles

The machine is equipped with 2 double-head machining heads; The heads rotate along two axes (A+C) and are equipped with 2 independent motorized spindles mounted on a rotary head; This special design allows for a reduction of the machining head space required when machining workpieces;

The dual inverter control of the machining heads ensures that the changeover from one head to the other occurs in less than 1 second; Simultaneous integration of the 2 double-head machining heads supports the 4 motorized spindles The simultaneous integration of two double-head machining heads supports four electric spindles, which can operate independently or in conjunction with each other, significantly improving the production tempo and space utilization while ensuring high-precision machining.

机器参数 | Machine Parameters

型号/Model	CF-DOUBLET2-PT	CF-DOUBLET2M
工作台数量 Number of worktables	4Nr	2Nr
工作台尺寸 Number of worktables	1200x1500mmx2	1350x1500mm
加工主轴 Machining spindle	两个独立主轴,单主轴双头装刀,7.4KW手动换刀x2转速:18000RPM Two independent spindles, single spindle and double-head tool loading, 7.4KW manual tool changer x2 speed:18000RPM	
真空泵 Vacuum pump	5.5HP干式旋片×2台 5.5HP dry rotary vane×2 sets	

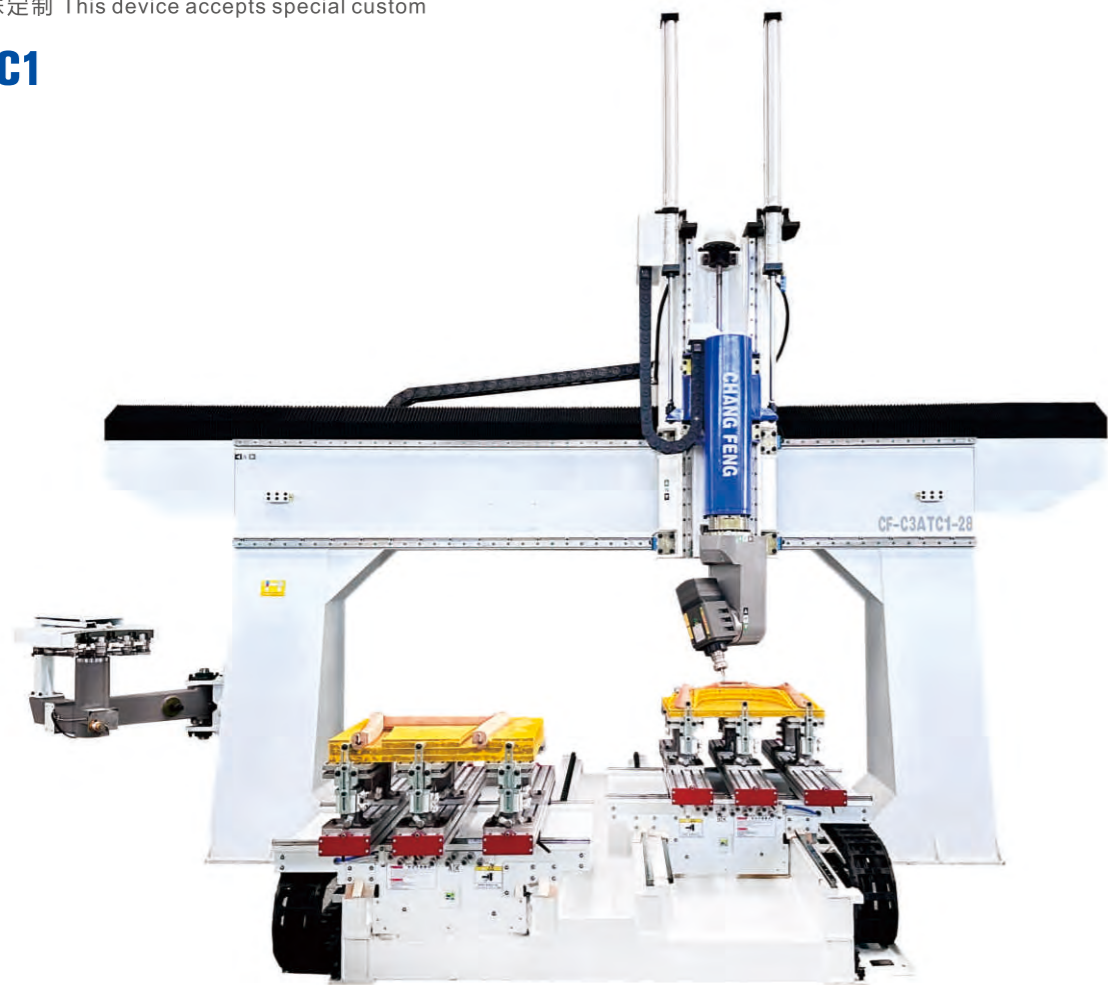
五轴加工中心—C3系列

5-AXIS MACHINING CENTER-C3 SERIES

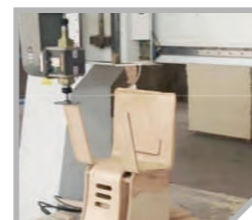
适用行业 | 各类贴木皮异形弯板、酒店、医疗、办公椅子等。
Applicable Industries | Various types of veneer shaped curved boards, hotel, medical, office chairs, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-C3-28ATC1
CF-C3-28T1



细节展示 | Detail display



特点 | Characteristic

擅长空间弯曲木加工, 可对平面、曲面、斜面、斜孔、二三维曲面及三维线条进行加工;
工件毛坯一次装卡定位, 在五维空间各方向实现五轴联动铣、镗、钻、锯等功能;
"五面体曲目加工中心"它可以同做五个面的加工。

加工实例 | Process instance



Proficient in spatial curved wood processing, capable of processing flat surfaces, curved surfaces, incined surfaces, inclined holes, 2D and 3D curved surfaces, and 3D lines;
The workpiece blank can be mounted and positioned in one go, achieving five axis linkage milling, engraving, drilling, sawing and other functions in all directions of the five dimensional space;
The "pentahedral music processing center" can process five surfaces simultaneously.

机器参数 | Machine Parameters

型号/Model	CF-C3-28ATC1	CF-C3-28T1
铝合金型材全铺台面 Aluminum alloy profilefully laid countertop	1200mm × 1500mm	
工作台数量 Number of worktables	2Nr	
Z轴行程 Z-axis travel	1200mm	
A轴(旋转头) Axis A (rotating head)	连续旋转 / Continuous rotation	
C轴(旋转头) Axis C (rotating head)	± 380°	
数控系统 Numerical control system	台湾宝元 Taiwan LNC	
加工电主轴 Processing electric spindle	12KW自动换刀1个 刀库容量为6位 One 12KW automatic tool changer The capacity of the knife magazine is 6 bits	9KW手动换刀主轴 双头装刀ER40+ER32 9KW manual tool changing spindle Double headed knife ER40+ER32
伺服控制器 Servo controller	总线绝对值, 高解析 Highway absolute value, high resolution	
真空泵 Vacuum pump	台湾欧乐霸 KVE80 旋片式 欧乐霸2.2KW × 2 Taiwan Ouleba KVE80 rotary type Ouleba 2.2KW × 2	
传动配制 Transmission configuration	精密直线导轨 (台湾品牌) Precision linear guide rail (Taiwanese brand)	
驱动方式 Driving mode	X/Y/U轴研磨级斜齿齿条, 合金钢材质 (BBOSIICH) Z轴精密滚珠丝杆 (台湾品牌) X/Y/U axis grinding grade helical gear rack, made of alloy steel material (BBOSIICH) Z axis precision ball screw (Taiwanese brand)	
气动 Pneumatic	台湾亚德克AIRTAC AIRTAC Taiwan	
电缆及拖链 Cable and drag chain	高柔性高速电缆线及拖链 High flexibility high-speed cable and drag chain	
开关/继电器 Switch/Relay	法国施耐德SCHNEIDER SCHNEIDER, France	
夹具系统 Fixture system	3300L × 4000W × 3270H mm	
夹具系统 Fixture system	约/About 6T	

五轴加工中心

FIVE AXIS MACHINING CENTER

适用行业

Applicable Industries

实木餐桌椅、实木卧房组、实木门框、乐器，塑料和复合材料的锯切、铣型、指接、钻孔、公母集、雕刻等加工。
Solid wood table chair, solid wood bedroom group, solid wood door frame, musical instrument, sawing, milling, finger joint, drilling, male and female falcons, carving and other processing of plastic and composite materials.

※ 该款设备接受特殊定制 This device accepts special custom

CF-MASTERJET-32



特点 | Characteristic

双工作台可实现单一工作台加工，另一工作台上料的不间断生产加工，也可双工作台联动加工。
气夹装夹的方式达成快速固定目的，夹具上下支撑可调整，适应不同形状的工件，保证加工可靠和稳定性。
带自动夹具调整功能，不需人工调整操作更方便。
五轴联动可加工各种回转表面，具备工件毛坯一次装卡定位，在三维空间各方向实现五轴联动铣、镗、钻、锯等功能。
一次完成五个面加工，独特的硬件平台模块化设计，功能强大保证工件各加工面的位置精度。
可选择自动上下料双工位带料仓或手动上下料的装置。

The dual worktable can realize the processing of a single worktable, the uninterrupted production and processing of loading and unloading of another worktable, or the linkage processing of dual worktables.

The air clamp clamping method achieves the purpose of rapid fixation. The upper and lower supports of the clamp can be adjusted to adapt to different shapes of workpieces, so as to ensure the reliability and stability of the machined parts.

With automatic fixture adjustment function, it is more convenient to operate without manual adjustment.

The five axis linkage can process various rotating surfaces, with one-time clamping and positioning of workpiece blanks, and realize the functions of five axis linkage milling, carving, drilling and sawing in all directions of the five-dimensional space.

Five surfaces can be machined at one time, The unique modular design of the hardware platform has powerful functions to ensure the position accuracy of each machined surface of the workpiece.

You can select the automatic loading and unloading double position device with silo or the manual loading and unloading device.

机器参数 | Machine Parameters

型号/Model	CF-MASTERJET-32	CF-MASTERJET-32
真空工作台数量 Vacuum table quantity	2Nr	2Nr+ 自动上下料双工位料仓 2Nr+ automatic loading and unloading duplex position silo
加工范围 Processing range	单台面最大加工长度: 1800mm Maximum machining length of single table: 1800mm 双台面联动最大加工长度: 3600mm Maximum machining length of double table linkage: 3600mm 最大加工高度/Maximum machining height: 100mm 有效加工宽度/Effective machining width: A.自动上料时最大加工宽度:140mm A.Maximum machining width during automatic feeding:140mm B.手动上料时最大加工宽度:200mm B.Maximum machining width during manual feeding:200mm	单台面最大加工长度: 1800mm Maximum machining length of single table 双台面联动最大加工长度: 3600mm Maximum machining length of double table linkage 最大加工高度/Maximum machining height: 100mm 有效加工宽度/Effective machining width: 手动上料时最大加工宽度:200mm Maximum machining width during manual feeding
最高移位速度 Maximum shift speed	X轴/X axis: 75 m/min Y轴/Y axis: 75 m/min Z轴/Z axis: 75 m/min C轴(旋转头): ±220° /Axis C (rotating head): ± 220° A轴(旋转头): 连续旋转/Axis A (rotating head): continuous rotation	
数控系统 Numerical control system	OSAI(意大利)/台湾宝元 OSAI (Italy) / Taiwan Baoyuan	
加工主轴 Machining spindle	2个(独立主轴, 单主轴双端手动装刀) 7.4KW × 2, 24000 rpm, 4 × ER40 2 (independent spindle, single spindle, double end manual tool mounting) 7.4KW × 2, 24000 rpm, 4 × ER40	
工作组件 Working components	气缸夹具/Cylinder clamp: 6Nr (装夹方式: 气夹) (clamping method: air clamp)	
外型尺寸 Overall dimension	6100W × 3500L × 3200H mm	

细节展示 | Detail display



双摆头五轴加工中心

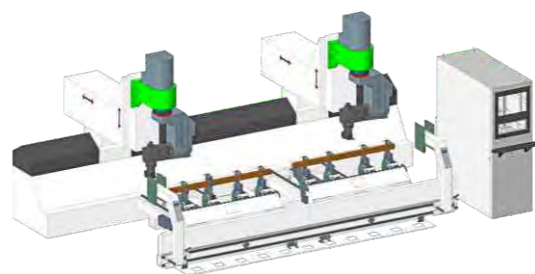
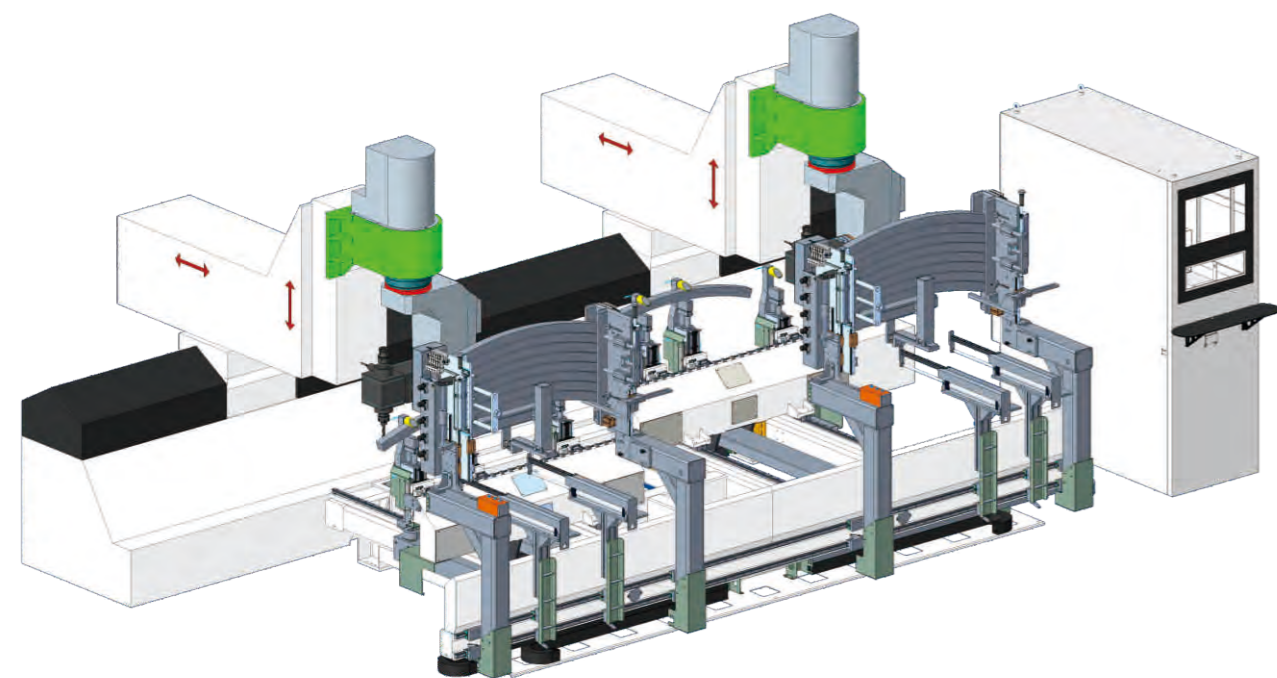
DOUBLE SWING HEAD FIVE AXIS MACHINING CENTER

适用行业 双工作头16轴联动加工CNC用于实木门、衣柜、厨房门框边条等加工。

Applicable Industries Double working head 16 axis linkage processing CNC is used for processing solid wood doors, wardrobe, kitchen door frame and edge strips.

※ 该款设备接受特殊定制 This device accepts special custom

CF-DOUBLE JET



选配 | Optional



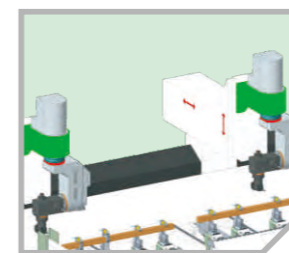
选装: 直角头

特点 | Characteristic

双工作台可实现单一工作台加工,另一工作台上下料的不间断生产加工;
双工作头Z1/Z2轴垂直方向上下滑动,刀头部分可以绕A1/A2轴 C1/C2轴
旋转,机械具有高刚性及稳定性,保证了Z1/Z2轴滑座和刀头部分快速稳定的
移动而不失精度。

The double worktable can realize the continuous production and processing of the single worktable and the loading and unloading of the other worktable;
The double working head Z1 /Z2 axis slides up and down in the vertical direction, and the cutter head part can rotate around the A1/A2 axis C1/C2 axis. The machine has high rigidity and stability, which ensures that the Z1 /Z2 axis slide seat and the cutter head part move quickly and stably without losing accuracy.

细节展示 | Detail display



机器参数 | Machine Parameters

型号/Model	CF-DOUBLE JET	
加工范围 Processing range	单台面交替最大加工长度:2200mm+1400mm Maximum processing length of single table:2200mm+1400mm 双台面联动最大加工长度:3400mm Maximum processing length of double table linkage:3400mm 最小尺寸长度:200mm Minimum dimension length:200mm	
工作台数量 Number of worktables	2Nr	
夹具系统 Fixture system	单台面4Nrx2(8组)装夹方式:气夹 Single table 4nr x2(8 groups) clamping method: air clamp	
最高移位速度 Maximum shift speed	①X/Y/U轴速度:75m/min ②Z1/Z2轴速度:75m/min ③C1/C2轴(工作头旋转头):±220° ④A1/A2轴(电主轴旋转头):连续旋转(无角度限制)	①X/Y/U axis speed:75m/min ②Z1/Z2 axis speed:75m/min ③C1/C2 axis (rotating head of working head):±220° ④A1/A2 axis (electric spindle rotary head):continuous rotation(no angle limit)
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 Taiwan Po-Yuan/Options Italy Osei	
加工主轴 Machining spindle	2个“2+2”型工作头(2个7.4KWx2双头装刀),转速:24000RPM.刀具夹:8xER40 2pcs "2 + 2" working heads (2cs 7.4KW x 2 double head mounting), rotating speed: 24000RPM, tool holder: 8 x ER40	
变频器 Frequency converter	高性能11KWx4 High performance 11KW x4	
旋转轴 Rotating shaft	A1/A2轴和C1/C2轴(日本住友) A1/A2 axis and C1/C2 axis(Sumitomo, Japan)	
外型尺寸 Overall dimension	5300Lx4200Wx2600Hmm	

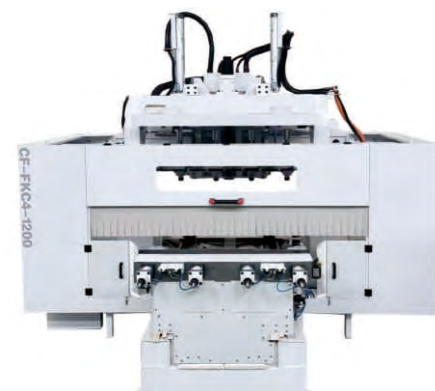
加工实例 | Process instance



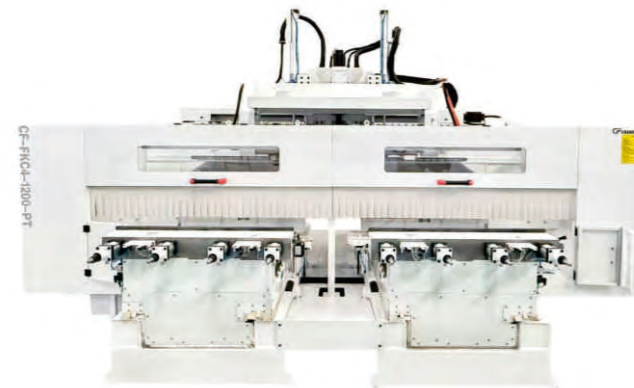
多工位五轴四工序加工中心

MULTI-STATION 5-AXIS 4-PROCESS MACHINING CENTER

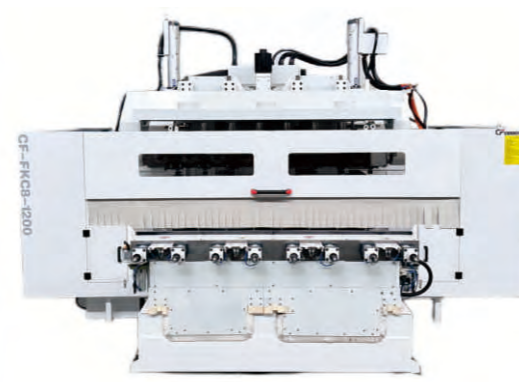
※ 该款设备接受特殊定制 This device accepts special custom



CF-FKC4-1200



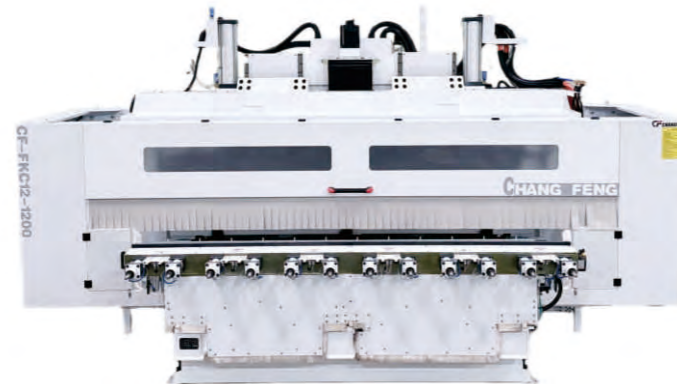
CF-FKC4-1200-PT



CF-FKC8-1200



CF-FKC10-1200



CF-FKC12-1200

特点 | Characteristic

- ◆ 高效可选:32把刀8工位加工,40把刀10个工位加工,48把刀12个工位加工。刀具ER32夹头系统,旋转换刀机构装置,可装夹多排不同刀具,实现异形桌脚一次装夹8根,完成车型、铣型、镂铣、打孔、等工序的复合加工每排刀具具备360°任意角度定位加工。
- ◆ 配套C轴(车铣轴)可带动工件连续旋转及角度定位。
- ◆ 五轴联动控制系统实现车削+铣型+圆雕+平雕+异形加工多种加工功能,一次性完成八工序加工。
- ◆ 加工车削和铣型的柱类家具零件及木工零件,中柱、楼梯、椅子、桌子、沙发等腿类产品均可加工。
- ◆ 可安装多种特殊刀具,新型的刀具排布,减少换刀时间,提高加工效率,可经过一次装夹完成对批头一端的车削、铣削等多道工序。
- ◆ 五轴联动,同时加工多个产品,具有加工精度高、效率高、可靠性强等特点。

Efficient options: 32 knives with 8 workstations for processing, 40 knives with 10 workstations for processing, and 48 knives with 12 workstations for processing.

The tool ER32 chuck system, a rotating tool changing mechanism device, can clamp multiple rows of diferent tools, achieving a single clamping of 8 iregular table legs, and completing composite processing of vehicle models, milling, routing, punching, and other processes.Each rowoftools has 360° positioning processing at any angle.

The supporting C-axis (turning and milling axis) can drive the continuous rotation and angular positioning of the workpiece.

The five axis linkage control system achieves multiple processing functions of turning, milling, circular carving, flat carving, and regular machining,completing eight processes at once.

Processing column furniture parts and woodworking parts for turning and milling, as well as leg products such as pillars, tairs, shairs,tables,sofas,etc.can be processed.

Multiple special cutting tools can be installed, and a new type of tool arrangement can reduce tool replacement time and improve processing efficiency. It can complete multiple processes such as turning and milling on one end of the batch head through one clamping process.

Five axis linkage, processing multiple products simultaneously, has the characteristics of high processing accuracy, high efficiency, and strong reliability.

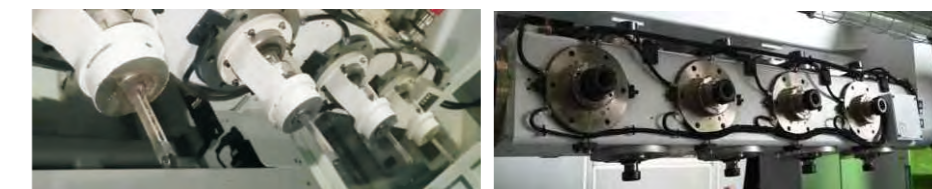
机器参数 | Machine Parameters

型号/Model	CF-FKC4-1200-PT	CF-FKC4-1200	CF-FKC8-1200	CF-FKC10-1200	CF-FKC12-1200
工作台数量 Number of workstations	2Nr	1Nr			
最大加工长度 Maximum processing length	1200mm				
加工主轴 Machining spindle	双头装刀 5.5KW×8 Double-head loading knife 5.5KW×8	双头装刀 5.5KW×16 Double-head loading knife 5.5KW×16	双头装刀 5.5KW×20 Double-head loading knife 5.5KW×20	双头装刀 5.5KW×24 Double-head loading knife 5.5KW×24	
装刀数量 Number of knives installed	16把刀 16knives	32把刀 32 knives	40把刀 40 knives	48把刀 48 knives	
顶针间距 Ejector Pitch	270mm				260mm
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 TAIWAN LNC/OPTIONAL: ITALY OSAI				
台面活动顶针 Table top movable thimble	4组工位 4 groups of workstations	8组工位 8 groups of workstations	10组工位 10 groups of workstations	12组工位 12 groups of workstations	

细节展示 | Detail display



选配 | Optional



可选装方孔钻

高速双头装刀: 5.5KW×8
装刀外径: ER32
最高18000RPM/min

重型高速双头装刀: 7.5KW×8
装刀外径: ER40+ER32
最高18000RPM/min

摇篮式五轴加工中心

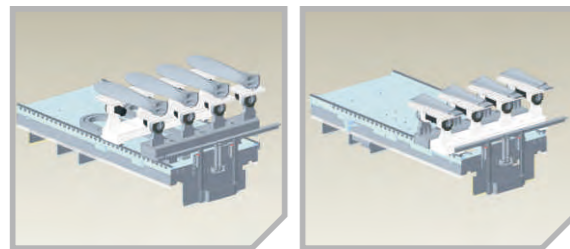
CRADLE TYPE 5-AXIS MACHINING CENTER

适用行业 | 多种榫槽加工控制，满足不同种类、尺寸的榫卯结构的自动榫槽，完成工件的切割、铣槽等各种铣刀精准加工。

Applicable Industries | A variety of tenon and groove processing control, to meet the automatic tenon and groove of different types and sizes of tenon and tenon structures, and to complete the precise processing of workpiece cutting, slot milling and other milling cutters.

※ 该款设备接受特殊定制 This device accepts special custom

细节展示 | Detail display



CF-SRT4*4-PT

特点 | Characteristic

双台面移动式四工位五轴加工中心，双工作台交替生产；
四个工位五面榫槽加工，五面钻孔、拉槽、铣等卯结构；
摇篮型台面可以一次实现自动翻面加工，180°范围内任意角度加工；
五轴联动，同时加工多个产品，具有加工精度高、效率高、可靠性强等特点。

Double table mobile four station five axis machining center, double worktables alternate production;
Four stations for five sided tenon and groove processing, five sided drilling, slotting, tenon milling and other tenon and groove structures,
The cradle type table can realize automatic turning processing at one time, and can be processed at any angle within 180°;
Five axis linkage, processing multiple products at the sametime, with high processing accuracy, high efficiency and strong reliability.

机器参数 | Machine Parameters

型号/Model	CF-SRT4X4-PT
工作台数量 Number of workstations	双台面 Two-topped table
加工工作台数量 Number of machining tables	伺服翻转料夹:单台面2组x2 Servo tilting clamps: 2 sets for single table x 2
最大加工尺寸 Maximum processing size	400x1600mm
数控系统 Numerical control system	台湾亿图 Taiwan Yitua
加工主轴 Machining spindle	7.5KWx8

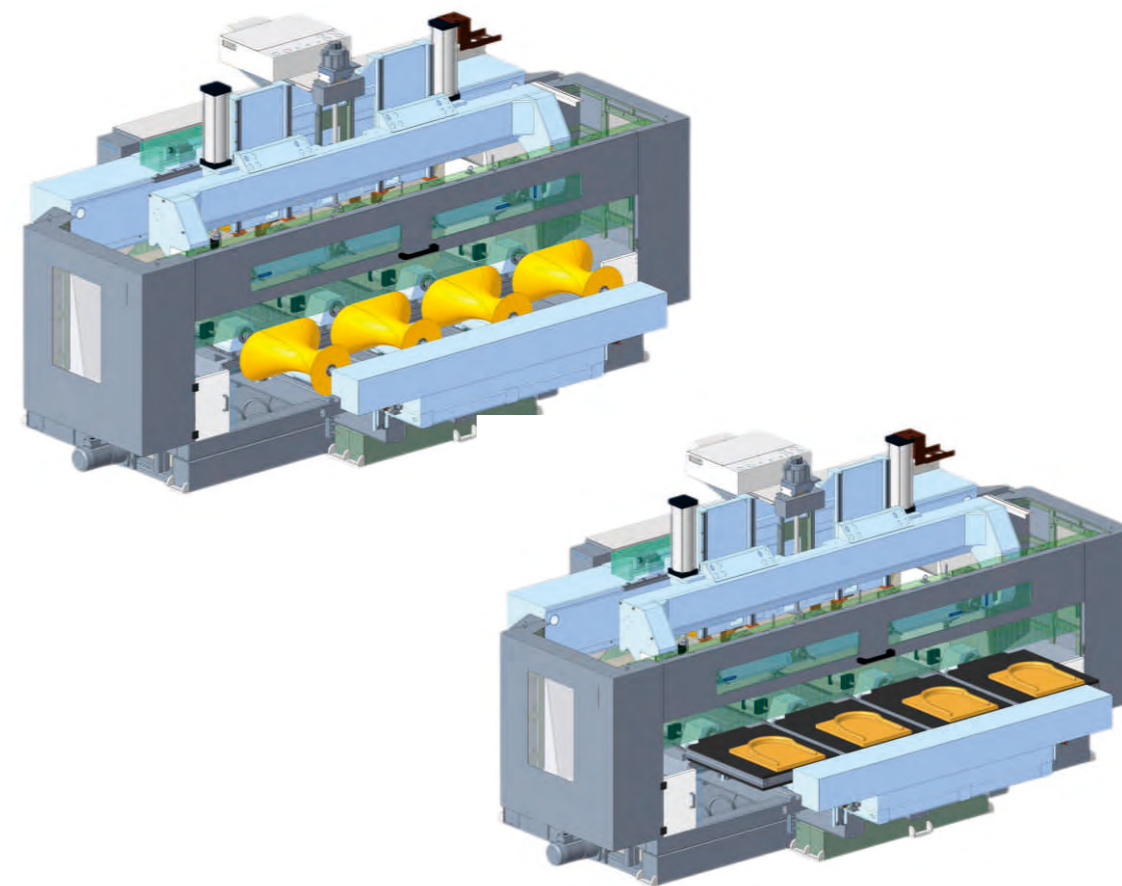
摇篮车铣互换五轴加工中心

CRADLE TURNING AND MILLING INTERCHANGEABLE 5-AXIS MACHINING CENTER

适用行业 | 多种榫槽加工控制，满足不同种类、尺寸的榫卯结构的自动榫槽，完成工件的切割、铣槽等各种铣刀精准加工。

Applicable Industries | A variety of tenon and groove processing control, to meet the automatic tenon and groove of different types and sizes of tenon and tenon structures, and to complete the precise processing of workpiece cutting, slot milling and other milling cutters.

※ 该款设备接受特殊定制 This device accepts special custom



特点 | Characteristic

采用单台面移动式四工位五轴加工中心；
集成车削与铣削主轴，实现自动切换，工作台180°任意角度定位；
支持五轴联动曲面加工，一次装夹完成车削、铣型、雕刻等多工序；
可摇篮式与车铣式加工模式转换。

Adopting single table mobile four-station five-axis machining center;
Integrating turning and milling spindles, realizing automatic switching and 180° arbitrary angle positioning of the worktable;
Supporting five-axis linkage surface machining, completing turning, milling, engraving and other multi-processes in a single setup;
Can be converted to cradle and lathe-type machining modes.

机器参数 | Machine Parameters

型号/Model	CF-HFKC4x4-80100
工作台数量 Number of workstations	双台面 Two-topped table
加工工作台数量 Number of machining tables	摇篮形态:真空吸附台4个,车铣形态:1Nr Cradle form: Vacuum table 4pcs, Turning form: 1Nr
最大加工尺寸 Maximum processing size	800x1000mm
数控系统 Numerical control system	台湾宝元/选配意大利欧赛 Taiwan Po-Yuan/Options Italy Osei
加工主轴 Machining spindle	7.5KWx8
车铣形态顶针间距 Turning and milling form ejector pin spacing	900mm

龙门动柱式五轴加工中心—MASTER款

GANTRY MOVING COLUMN FIVE AXIS MACHINING CENTER-MASTER

适用行业

适用各实木家具、板实家具、板木结合家具、木制工艺品、橱柜门板等加工。

Applicable Industries

The application of solid wood furniture, furniture, wooden board with furniture, wooden handicrafts, such as processing cabinet door.

※ 该款设备接受特殊定制 This device accepts special custom

CF-MASTER-4013

CF-MASTER-4018

CF-MASTER-5516

CF-MASTER-6013



细节展示 | Detail display



特点 | Characteristic

引进国外高端PTP五轴数控加工中心技术,适用于定制家具、木门、实木家具等的加工制造,一机多用高效加工实现铣削、切割、铣槽、开槽、锯切、钻孔、斜切、水平铣、拉米诺、圆弧加工等满足多元化复杂性产品加工,五轴联动多力能化一次成型。

The introduction of high-end PTP five axis CNC machining center technology from abroad is suitable for the processing and manufacturing of customized furniture, wooden doors, solid wood furniture, etc. It can achieve efficient processing with multiple machines to achieve fully diversified and complex product processing, such as router milling, cutting, milling groove, slotting, sawing, drilling, oblique cutting, horizontal milling, Lamino, arc machining, etc. The five axis linkage is multifunctional and formed in one go.



标准真空吸盘:
Standard vacuum cups
165Lx110Wx100H
(平板类工件加工
(Flat workpiece processing))



标准真空吸盘:
Standard vacuum cups
125Lx75Wx100H
(平板类工件加工
(Flat workpiece processing))



任意调角度真空吸盘:
The vacuum suction cup
can be adjusted arbitrarily
125Lx30Wx100H
(对窄或有角度的窄边工件加工
(Machining of narrow or angled
narrow-edged workpieces))



任意调角度真空吸盘:
The vacuum suction cup
can be adjusted arbitrarily
125Lx30Wx100H
(对窄或有角度的窄边工件加工
(Machining of narrow or angled
narrow-edged workpieces))



平面真空吸盘:
Flat vacuum cups
240Lx140Wx100H
(对需铣型/打榫等重切削加工
(For heavy cutting operations
such as mill ing/tenoning))

选配 | Optional



EVR预熔机
EVR pre melting machine



封边单元
Edge sealing unit



激光单元
Laser unit

机器参数 | Machine Parameters

型号/Model	CF-MASTER-4013	CF-MASTER-5516	CF-MASTER-6013
加工尺寸(单位mm) Processing size(mm)	单工位 Single station 4000Lx1300Wx200H	单工位 Single station 5500Lx1600Wx200H	单工位 Single station 6000Lx1300Wx200H
	双工位 Double station 1600Lx1300Wx200H	双工位 Double station 2350Lx1600Wx200H	双工位 Double station 2600Lx1300Wx200H
真空吸梁 Vacuum suction beam	6组/6 groups	10组/10 groups	10组/10 groups
运动行程 Exercise itinerary	X轴/X-axis:4900mm	X轴/X-axis:6460mm	X轴/X-axis:6760mm
	Y轴/Y-axis:2470mm	Y轴/Y-axis:2800mm	Y轴/Y-axis:2470mm
	Z轴/Axis of these:700mm		
移位速度 Displacement speed	X轴X-axis:70 m/min Y轴Y-axis:70 m/min Z1/Z2轴(五轴头+钻包)Z1/Z2axis(5-axis head + drill bag): 25 m/min A/C轴A/q shaft: 60 set		
总功率 Total power	32KW	32KW	32KW
外型尺寸 Overall dimension	6400Lx3900Wx3000H	8100Lx4200Wx3000H	8400Lx3900Wx3000H

龙门动柱式五轴加工中心——DZ平面真空吸附款

GANTRY MOVING COLUMN FIVE AXIS MACHINING CENTER-DZ FLAT VACUUM ADSORPTION MODEL

适用行业 | 汽车内饰件、汽车模型、轨道交通、实木家具、立体工艺品、卫浴、座椅、音响制品等行业。

Applicable Industries | Industries such as automotive interior parts, car models, rail transit, solid wood furniture, three-dimensional crafts, bathroom, seats, audio products, etc.

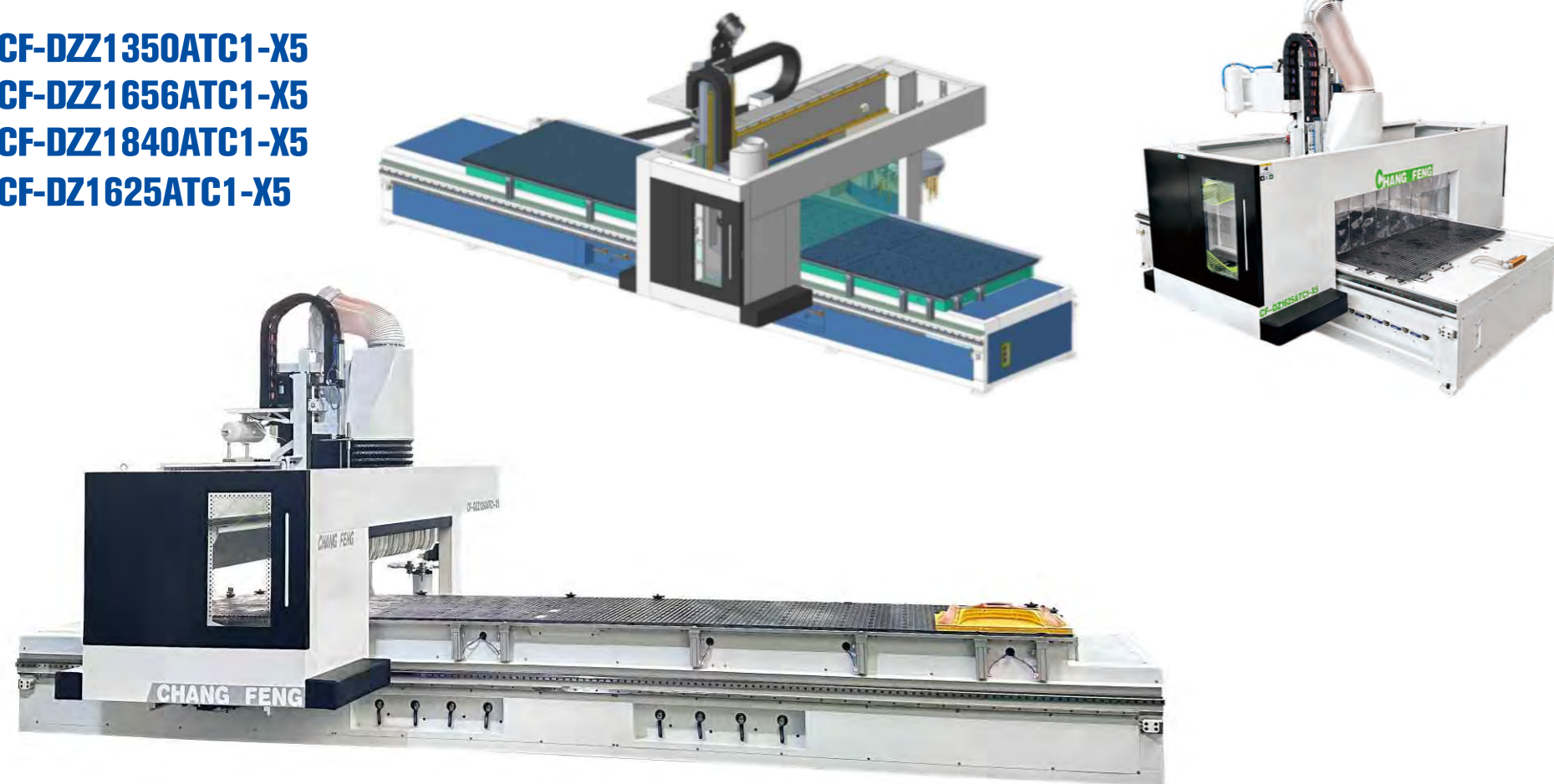
※ 该款设备接受特殊定制 This device accepts special custom

CF-DZZ1350ATC1-X5

CF-DZZ1656ATC1-X5

CF-DZZ1840ATC1-X5

CF-DZ1625ATC1-X5



细节展示 | Detail display



加工实例 | Process instance



特点 | Characteristic

龙门移动式结构平面真空吸附双区域工作台数控加工；
五轴加工中心加工空间曲面、异型加工都可以完成实现，能够完成复杂工件机械化加工的任务，且还能够快速提高加工效率，缩短加工流程；
五轴专用数控系统带RTCP刀尖跟随功能，功能强大；
可一次完成五个面加工，独特的硬件平台模块化设计，功能强大。

CNC machining of gantry mobile structure plane vacuum adsorption dual zone worktable;
The five axis machining center can complete the machining of spatial surfaces and irregular shapes, and can accomplish the task of mechanized machining of complex workpieces, it can also quickly improve machining efficiency and shorten the machining process;
The five axis dedicated CNC system with RTCP tool tip following function is powerful;
It can complete five surface processing at once, with a unique hardware platform modular design and powerful functions.

机器参数 | Machine Parameters

型号/Model	CF-MASTER-4013	CF-DZ1656ATC1-X5	CF-MASTER-6013
材质 Material	高压面板 High Pressure Panel	高压面板 High Pressure Panel	高压面板 High Pressure Panel
分区方式 Partitioning method	台面手动分区 Manual partitioning of countertops	台面手动分区 Manual partitioning of countertops	台面手动分区 Manual partitioning of countertops
单工位加工尺寸 Single-station processing size	1220mm x 5000mm	1600mm x 5600mm	1850mm x 4000mm
双工位加工尺寸 Double-station processing size	1220mm x 2440mm x 2	1600mm x 2500mm x 2	1850mm x 2500mm x 2

单台面四工位自动换刀五轴加工中心

SINGLE-TABLE FOUR-STATION AUTOMATIC TOOL CHANGER 5-AXIS MACHINING CENTER

适用行业

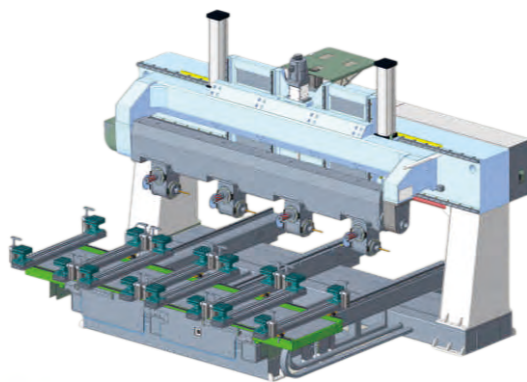
Applicable Industries

多种榫槽加工控制，满足不同种类、尺寸的榫卯结构的自动榫槽，完成工件的切割、铣槽等各种铣刀精准加工。

A variety of tenon and groove processing control, to meet the automatic tenon and groove of different types and sizes of tenon and tenon structures, and to complete the precise processing of workpiece cutting, slot milling and other milling cutters.

※ 该款设备接受特殊定制 This device accepts special custom

CF-NC3616ATC4/X5



特点 | Characteristic

- ◆ 真空吸附台,用于实木、异型等复杂工件粗、精加工;
- ◆ 大功率八主轴,四工序在五维空间各方向实现五轴联动铣、镗、钻、锯等功能;
- ◆ 五轴联动可加工空间曲面、异型、复杂工件机械化加工的任务,快速提高加工效率,缩短加工流程;
- ◆ 异型产品大批量加工

Vacuum adsorption table, used for rough and precision machining of complex workpieces such as solid wood and irregular shapes;
High power eight spindle, four processes achieve five axis linkage milling, engraving, drilling, sawing and other functions in all directions of the five dimensional space;
Five axis linkage can machine spatial surfaces, irregular shapes, and complex workpieces for mechanized machining tasks, quickly improving machining efficiency and shortening the machining process;
High-volume processing of shaped products.

选配 | Optional

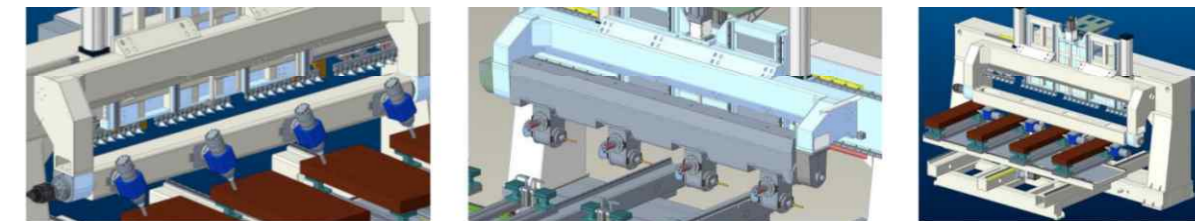
选装:手动换刀7.5KWx8(16把刀),可安装多种刀具换刀加工,各种回转表面加工造型;
选装:自动换刀水冷主轴9KWx4(夹刀口 BT30),直排式刀库8支x4(共计32把 BT30)。

Optional: Manual tool change 7.5KW x 8 (16 knives), can be installed with various tool changes for machining, various rotating surface machining shapes;
Optional: Automatic tool changing water-cooled spindle 9KW x 4 (clamping edge BT 30), straightrow tool magazine 8 x 4 (a total of 32 BT 30).

机器参数 | Machine Parameters

型号/Model	CF-NC3616ATC4/X5
加工尺寸 Processing Size	1600LX800WX338H
真空吸附工作台 Vacuum table	真空吸盘固定梁:8条 Vacuum suction cup fixed beam:8pcs
工作组件 Working Components	真空吸盘:24个(每条吸梁3个吸盘x8条) Vacuum chucks: 24 (3 chucks per beam x 8)
加工电主轴 Machining spindle	15KWx4水冷主轴(夹刀口BT30) 15KWx4 water-cooled spindle (BT30)
主轴间距 Spindle spacing	900mm
安装外形尺寸 Mounting dimensions	16599LX3250WX2870H
机器总质量 Total mass of machine	Approx. 约10T

细节展示 | Detail display



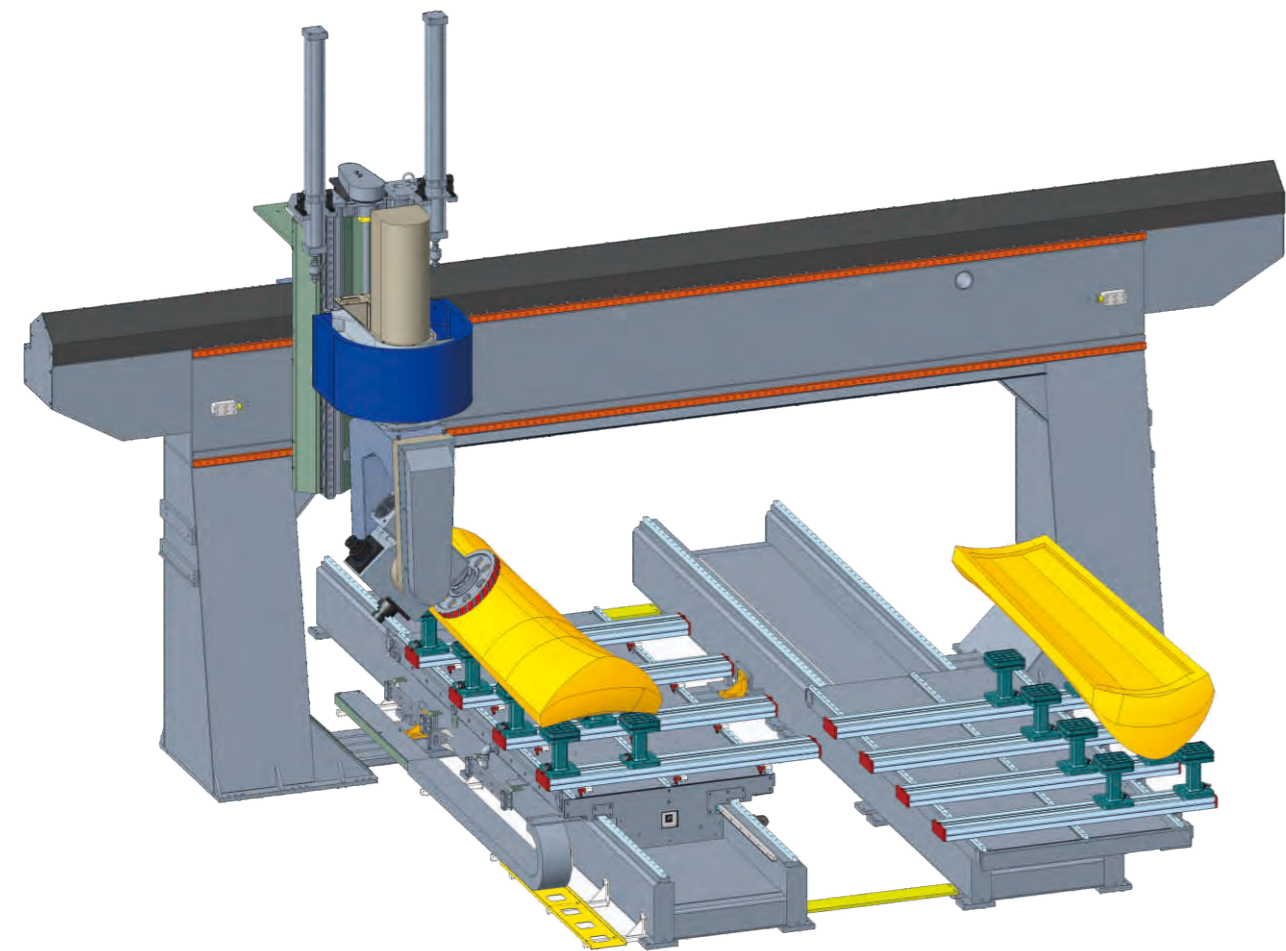
加工实例 | Process instance



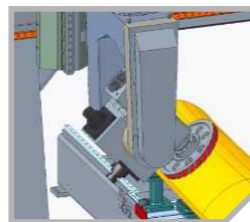
寿材小批量生产机型

SMALL-LOT PRODUCTION MODEL FOR LIFE WOOD

※ 该款设备接受特殊定制 This device accepts special custom

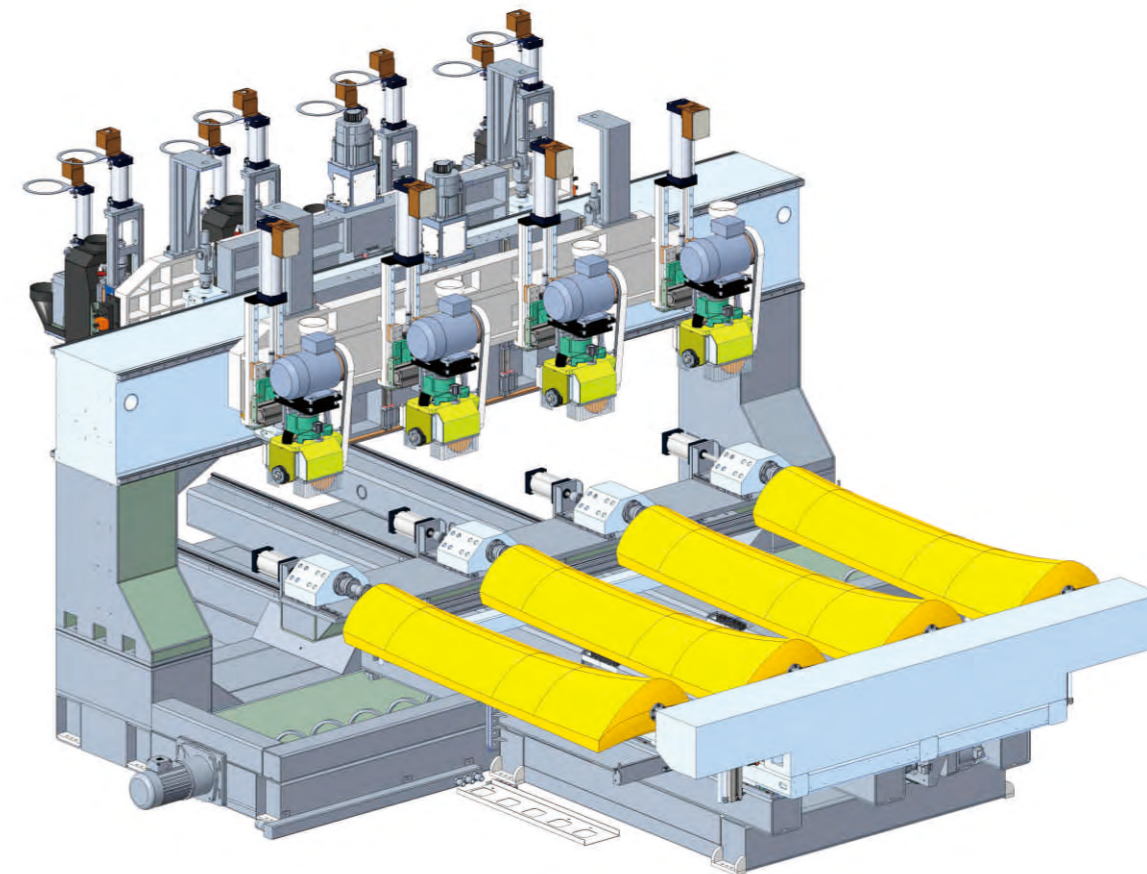


细节展示 | Detail display

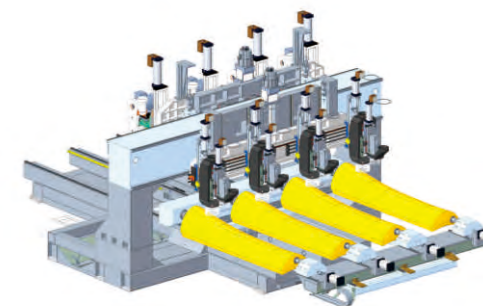
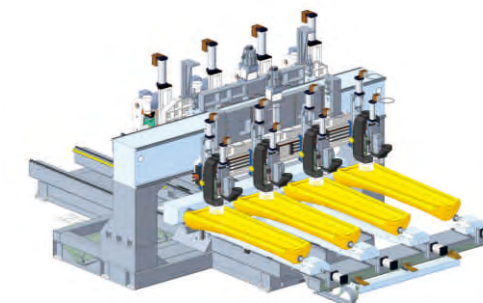
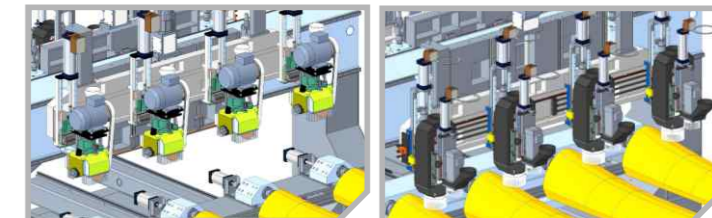


寿材大批量生产机型

Life Cycle Mass Production Models



细节展示 | Detail display



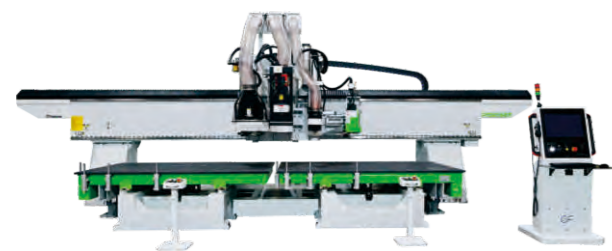
重型双台面移动式加工中心—自动换刀

HEAVY DOUBLE MESAMOBILE PROCESSING CENTER-AUTOMATIC TOOL CHANGE

适用行业 | 可雕刻、钻孔、切割、铡铣、倒边等，主要用于切割与镂铣.....

Applicable Industries | Used for carving, drilling, cutting, milling, cutting edge, and mainly used for cutting and engraving and milling.....

※ 该款设备接受特殊定制 This device accepts special custom



CF-RT2516ATC1+KD+ST-PT



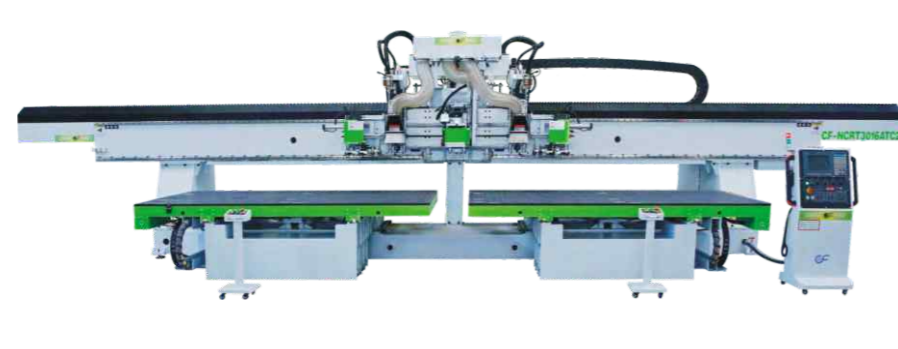
CF-NCRT2516ATC2-PT



CF-NCRT3620ATC6-PT



CF-RT2624ATC2+G-PT



CF-NCRT3018ATC2-PT



CF-RT3018ATC4-PT



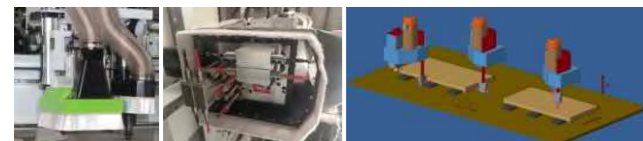
CF-RT2612ATC2+GS+G-PT



CF-RT1824ATC2+G-PT



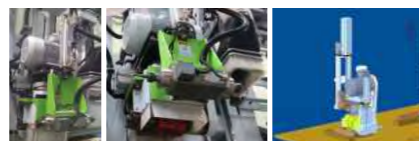
CF-RT1824ATC1+SKG+D-PT



D模组: 标配8垂直, 2+2水平, 对板材五个面钻孔加工



G模组: 锯轴5.5KW, 锯铣方向: 0°-90°. 可装刨刀



GT模组: 锯轴5.5KW, 锯切方向: 0°-90°, 可装刨刀, 2.2KW双头铣



SKG模组: 伺服锯轴(3KW) 锯铣方向: 0°-180°任意角度



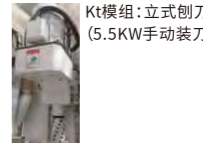
GS模组: 水平刨刀(7.5KW)可装锯片, 旋转角度0°-360°



ST模组: 4.5KW双头装刀, 实现四轴联动加工, 异型曲面加工



Kd模组: 立式刨刀 (11KW自动装刀)



Kt模组: 立式刨刀 (5.5KW手动装刀)



SLG模组: 伺服锯轴(3KW), 锯片: 305锯片产品四周大余量毛边进行快速锯切



NG模组: 伺服锯轴3KW 转角度0°-360°+可装15MM的槽刀

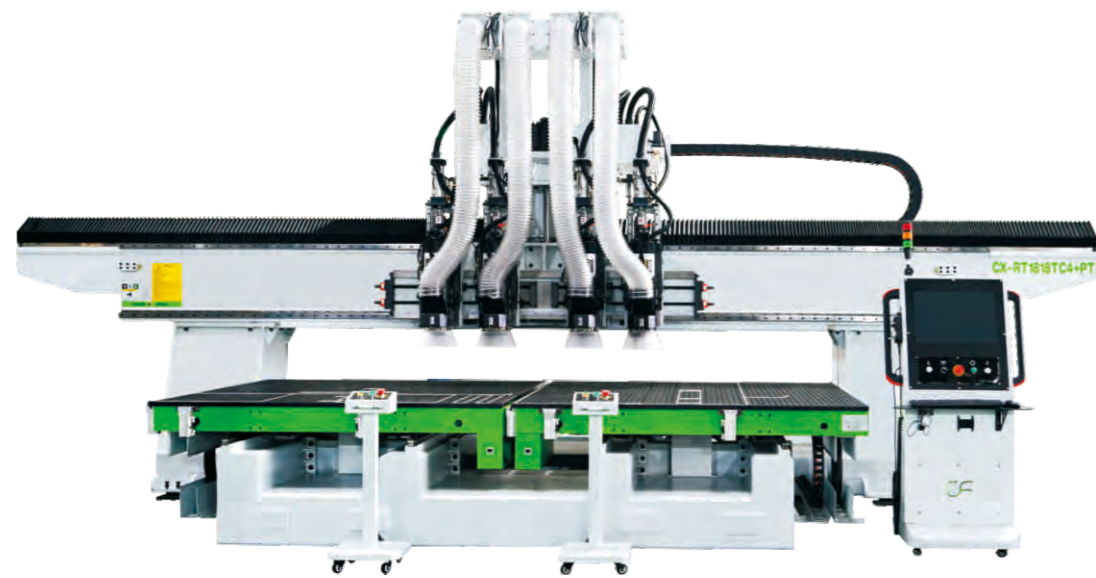
重型双台面多头阵列式加工中心—手动换刀

HEAVY DUTY DOUBLE TABLE MULTIHEAD ARRAY MACHINING CENTER - MANUAL TOOL CHANGER

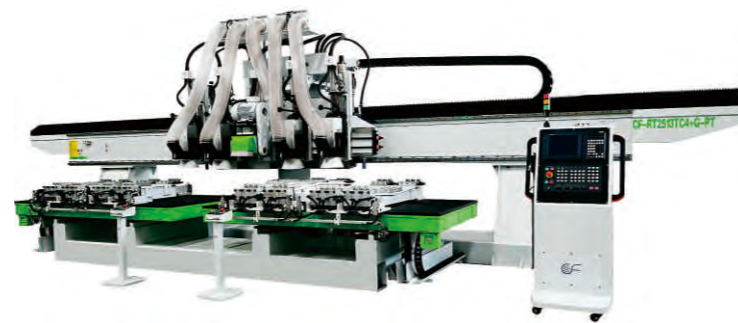
适用行业 | 可雕刻、钻孔、切割、铡铣、倒边等，主要用于切割与镂铣.....

Applicable Industries | Used for carving, drilling, cutting, milling, cutting edge, and mainly used for cutting and engraving and milling.....

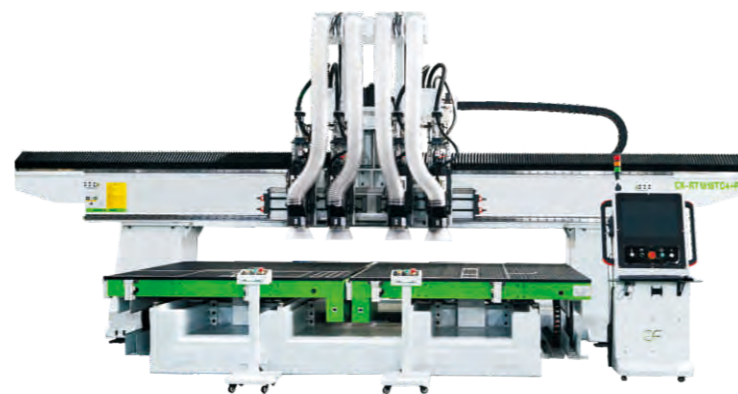
※ 该款设备接受特殊定制 This device accepts special custom



CF-RT3018TC4+4+G-PT



CF-RT2513TC4-PT



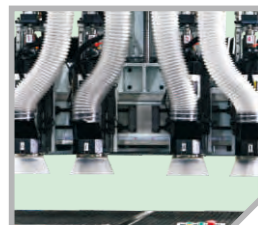
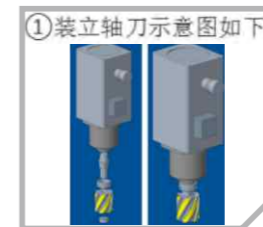
CF-RT1818TC4-PT

特点 | Characteristic

双台面重型结构设计，移动式真空吸附台。
双工作台可以交替加工，也可联动加工。
大功率四主轴，可对复杂平面工件刀型钻铣加工。
四刀头随时切换(第一刀头加工时，可随时切换其它刀头来完成其余的工作)。
针对不同工艺进行加工，解决生产多元化问题,实现多种加工功能可雕刻、钻孔、倒边、镂铣等。

Double table heavy structure design, mobile vacuum adsorption table.
The double worktables can be alternatively processed or processed in linkage.
High power four spindle, can drill and mill complex plane workpiece.
Four tool heads can be switched at any time(when the first tool head is processed, other tool heads can be switched at any time to complete the rest of the work).
Process according to different processes, solve the problem of production diversification, and realize a variety of processing functions, such as engraving, drilling, chamfering, router, etc.
Automatically change knife. imported bamboo hat ivoe knte brary, to achieve a valey of process for diversification of the complexity of wood products processing.

细节展示 | Detail display



加工实例 | Process instance



重型台面移动式加工中心

HEAVY DUTY TABLE MOBILE MACHINING CENTER

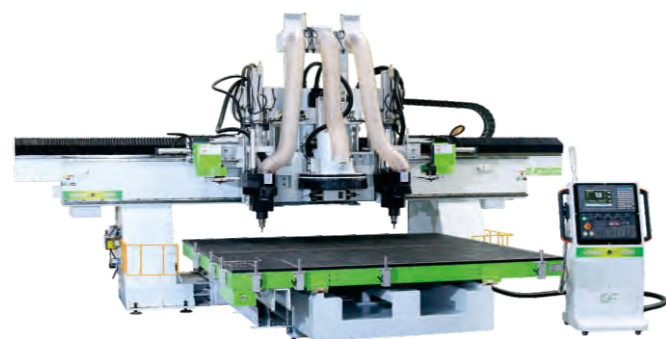
适用行业 | 可用于雕刻、镂铣、切割、钻孔、侧钻、侧铣、侧锯等，属重型多功能高效加工中心。

Applicable Industries | Can be used for carving, engraving and milling, cutting, drilling, milling,driling, the lateral side of the saw, heavy duty multifunctional high-efficiency machining center.

※ 该款设备接受特殊定制 This device accepts special custom



CF-RT2813TC4*4



CF-RT2525ATC2+ST



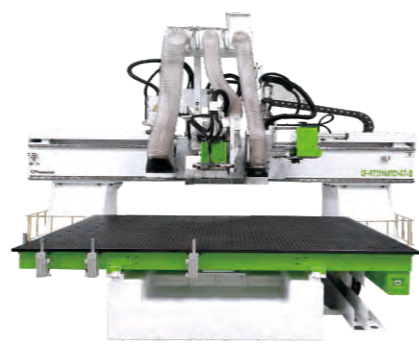
CF-RT2525ATC2+GT



CF-RT4025ATC1



CF-RT2516ATC1+GT+KT+A



CF-RT2516ATC1+GT+D

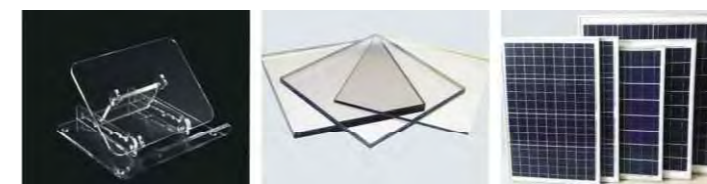
特点 | Characteristic

大大节省换料时间,提高生产效率,大功率进口主轴,重切削。
台面真空吸附,整板加工不需锯切,即可上线切割。
自动换刀实现多种工艺加工,多元化复杂性木工产品加工。
多元化控制可以分别控制加工速度,空走速度,落刀速度,提高了加工产品的质量及加工效率。

It can greatly save the refueling time, improve the production efficiency,import high-power spindles and heavy cutting.
Table vacuum adsorption, the whole board processing without sawing, can be cut on line.
Automatic tool changing can realize a variety of process,diversified and complexwoodworking products processing.
Diversified control can control the processing speed, idling speed and tool dropping speed respectively, which improves the quality and efficiency of processed products.



CF-RT3016ATC1



部分模组搭配展示 | Partial module combination display



龙门动柱式加工中心—单台面

GANTRYMOVABLE COLUMN MACHINING CENTER-SINGLE COUNTERTOP

适用行业 可用于雕刻、镂铣、切割、钻孔、侧钻、侧铣、侧锯等，属重型多功能高效加工中心。

Applicable Industries Can be used for carving, engraving and milling, cutting, drilling, milling,drilling, the lateral side of the saw, heavy duty multifunctional high-efficiency machining center.

※ 该款设备接受特殊定制 This device accepts special custom



CF-DZ1325ATC1



CF-DZ1631ATC1



CF-DZ1325ATC1+G+D



CF-DZ1625ATC1



CF-DZ1836ATC1+KD



CF-DZZ1325TC3



CF-DZ1325ATC1



CF-DZ1325ATC2



CF-DZZ2560ATC1



CF-DZ2540ATC1

龙门动柱式加工中心—双台面

GANTRY MOVABLE COLUMN MACHINING CENTER-DOUBLE COUNTERTOP

适用行业 | 可用于雕刻、镂铣、切割、钻孔、侧钻、侧铣、侧锯等加工。

Applicable Industries | Can be used for carving, engraving and milling, cutting, drilling, sidetracking, milling, sawing and other processing side

※ 该款设备接受特殊定制 This device accepts special custom



CF-DZZ1656ATC1+D+SKG



CF-DZZ1350TC4



CF-DZZ1350TC2



CF-KL1350TC2+G

特点 | Characteristic

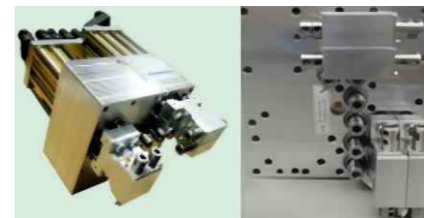
龙门移动式真空吸附工作台。
双工位真空吸附工作台，前后两个工位交替工作，节省放料时间，提高生产效率。
大功率主轴(可选装自动换刀及多头手动换刀)装置。
自动换刀主轴对产品进行钻、铣重切削加工，装立轴刀。
真空吸附工作台双区域加工，同时装卸工件提高生产效率。
排钻组对板材五个面钻孔，水平钻孔、垂直钻孔等加工。
锯片组匹配伺服马达，对产品周边进行45-225°各种角度的射线加工。

Gantry movable vacuum adsorption workbench.
Double station vacuum adsorption worktable, the front and back two stations work alternately, saving discharging time and improving production efficiency.
High power spindle (optional automatic tool change and multi head manual tool change) device.
Automatic tool changing spindle is used for drilling, milling and heavy cutting of products, and vertical shaft cutter is installed.
The vacuum adsorption table is processed in two areas, and the workpiece is loaded and unged at the same time to improve the production efficiency.
The row drilling group performs drilling on five surfaces of the plate, horizontal drilling and vertical drilling.
The saw blade group is matched with the servo motor, and the product oeriphery is processed with yarious angles of 45-225

选配 | Optional



伺服锯片组: 45-225°
任意角度加工



钻盒组: 8垂直, 2+2水平



CF-DZZ1350ATC1+SKG

加工实例 | Process instance



开料加工中心

CUTTING AND PROCESSING CENTERS

适用行业 板式家具，橱柜衣柜、办公家具、展示柜、木工装饰等行业。

Applicable Industries Plate furniture, cabinet wardrobe, office furniture, display cabinet, carpenter decoration and other industries.

※ 该款设备接受特殊定制 This device accepts special custom

CF-KL48ATC1
CF-KL49ATC1
CF-KL510ATC1
CF-KL69ATC1



特点 | Characteristic

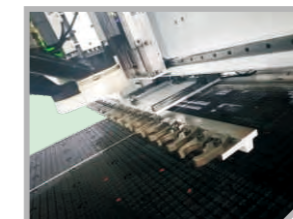
台面为真空吸附台面，可强力吸附不同面积的材料。
为自动上料、优化开料、打垂直孔、自动下料一步完成，工序无间断，实现效率产出最大化。
操作人员扫描条码，机器自动执行打孔、开槽等操作。
全自动贴标系统，可有效防止因人工贴标造成的生产效率低，标签位置贴放错误，从而造成的板材浪费、生产工序紊乱。
可加工板材：密度板、生态板、多层板、刨花板、波浪板等各板材。

The table surface is a vacuum adsorption table, and it can strongly adsorb materials with different areas.
For automatic feeding, optimization of feeding, vertical hole and automatic blanking, the process is not broken, and the efficiency and output can be maximized.
The operator scanning the bar code, the machine automatically executes the operation of punching, slotting and so on.
The automatic labeling system can effectively prevent low efficiency and label placement errors caused by manual labeling, resulting in plate waste and production process disorder.
Machinable board: density board, ecological board, multilayer board, particleboard, wave board and other plates.

机器参数 | Machine Parameters

型号/Model	CF-KL48ATC1	CF-KL49ATC1	CF-KL510ATC1	CF-KL69ATC1
真空吸附台尺寸 Vacuum table size	1600 × 2440mm	1220 × 2850mm	1600 × 3050mm	1800 × 3050mm
数控系统 Numerical control system	台湾宝元 Taiwan Baoyuan			
主轴构成 Spindle composition	高速电主轴12KW × 2 High speed motorized spindle 12KW × 2		高速电主轴12KW High speed motorized spindle 12KW	
	主轴转速：1000-24000RPM Spindle speed: 1000-24000RPM			
	自动换刀 ISO 30 Automatic tool change ISO 30			
刀库 Tool magazine	ISO 30进口刀柄8把 × 2 8 ISO 30 imported tool handles × 2		ISO 30进口刀柄8把 8 ISO 30 imported tool handles	
真空吸附泵浦 Vacuum adsorption pump	真空吸附泵浦7.5HP Vacuum adsorption pump 7.5HP			
连接选配 Connection options	1. 液压上料升降台 2. 自动贴标机 3. 钻盒模组 (可根据需求搭配规格) 4. 自动上下料机构 5. 输送带	1. hydraulic loading lifting table 2. automatic labeling machine 3. drill box module (specifications can be matched according to requirements) 4. automatic loading and unloading mechanism 5. conveyor belt		

细节展示 | Detail display



自动换刀数控六面钻

PLATE-TYPE CUTTING CENTER

适用行业 | 板式家具，全屋定制家具等。

Applicable Industries | Panel furniture, whole house customized furniture, etc.

※ 该款设备接受特殊定制 This device accepts special custom

CF-612A

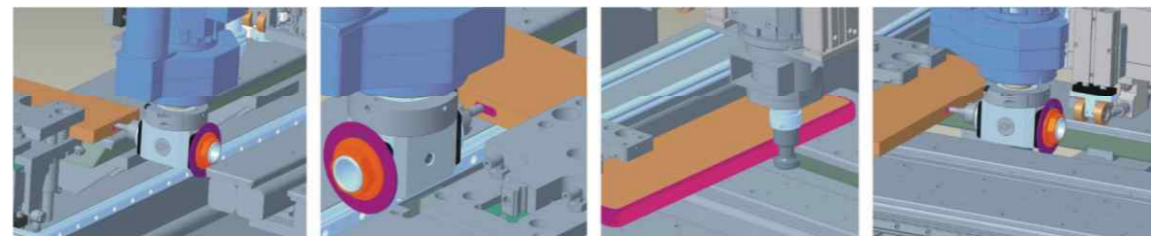


特点 | Characteristic

高定家居，钻孔利器，上下钻包联动加工，优化钻孔区域，提高效率；
上下主轴同时加工正反面钻孔及槽位，一次性完成工件六面钻孔；
上下双面钻孔、开槽、异形打孔、六面孔位、上下通孔；
上主轴1自动换刀，匹配10位排式刀库对不同工艺进行换刀加工；
上主轴2自动换刀带C轴，匹配2把角度头刀库，C轴为旋转中心配合使用，实现不同角度的斜孔加工，控制刀具旋转；
直角头双面侧铣、四面锯槽，镗铣直线槽、曲线槽、异形槽；
复杂孔位、长板件加工，短小板件打孔等；
多种工艺复合加工，加工三合一、拉米诺、天地铰链、隐形拉手等。

High precision home furnishings, drilling tools, linked processing of upper and lower drill bags, optimized drilling areas, and improved efficiency;
Simultaneously drilling holes and slots on both sides of the upper and lower spindles, completing six-sided drilling of the workpiece in one go;
Double-sided drilling, slotting, irregular drilling, six-sided positioning, upper and lower through holes;
Automatic tool changing on spindle 1, matched with a 10-position row-type tool magazine for tool changing and processing of different processes;
The upper spindle 2 has automatic tool changing with C-axis, matched with 2 angle head tool magazines, the C-axis is used in conjunction with the rotation center to achieve oblique hole machining at different angles and control tool rotation;
Double-sided milling and four-sided sawing of right-angled heads, engraving and milling of straight grooves, curved grooves, and irregular grooves;
Complex hole positions, processing of long plates, drilling of short plates, etc.;
Multiple composite processing techniques are used to process three-in-one, Ramino, heaven and earth hinges, invisible handles, and more.

加工示意图 | Processing diagram



高速钻铣加工中心

HIGH SPEED DRILLING AND MILLING MACHINING CENTER SHOW

适用行业

可用于镂铣、开槽、侧铣、倒边、五面钻孔及锯片加工等功能，速度快，生产效率高。

Applicable Industries

Can be used for engraving and milling, slotting, milling, chamfering, drilling and five blade processing function fast speed, high production efficiency.

※ 该款设备接受特殊定制 This device accepts special custom



CF-PTP3013



CF-PTP4013



CF-PTP5013



CF-PTP6013

细节展示 | Detail display



特点 | Characteristic

可移动的台面亦可灵活地来放置不同的板材，更能满足消费者的需要。

采用先进的红外光栅保护，杜绝安全隐患。

点对点加工,使用CAD, changfengCAM制图, 出程序。

两个区域每个区域分多个工位，可同时放多件大小不同的产品加工，大大提高了产效率。

适用于板类家具加工: 橱柜衣柜、板式、办公家具、木门、平板钻孔加工的家具业, 操作简单, 加工精准度高。

Removable mesa can also be flexible to place different plates to meet the needs of consumers.

Using the advanced infrared grating protection to eliminate the hidden danger of safety.

Point to point processing, the use of CAD, changfengCAM mapping, out of the program.

In two regions, each area is divided into several workplaces, which can be processed at the same time with various sizes and different products, greatly improving the efficiency of production.

Suitable for board furniture processing: cabinet wardrobe, plate type, office furniture, wooden door, flat plate drilling furniture industry,

simple operation, high precision processing.

四工位五面榫槽加工中心

FOUR POSITION FIVE FACE MORTISE MACHINING CENTER

适用行业 | 主要适用于家具制造行业，餐椅、沙发生产及各个工件的镂铣加工。

Applicable Industries | Mainly used in furniture manufacturing industry, engraving and milling processing table and chair, sofa and production of various parts.

※ 该款设备接受特殊定制 This device accepts special custom

伺服翻转夹发明专利号:2021101196476

仿冒必究!

CF-SCT4x4



夹具特点 | Fixture Features

翻转范围: $-90^{\circ} \sim +90^{\circ}$ (可任意设定角度, 自动精准定位);
多角度加工: 一次装夹完成多面加工, 无需重复定位, 保证精度;
同步控制: 多组夹具可同步翻转, 确保角度一致, 适合长工件加工;
独立调节: 单组夹具可单独调整角度, 满足特殊加工需求;
优势: 高精度、高效率, 适应复杂工件加工。

Flip range: $-90^{\circ} \sim +90^{\circ}$ (can be arbitrarily set angle, automatic accurate positioning);
Multi-angle machining: one clamping to complete multi-face machining, without the need to repeat the positioning, to ensure accuracy;
Synchronized control: multiple fixtures can be synchronized to turn over to ensure the same angle, suitable for long workpiece machining;
Independent Adjustment: a single group of clamps can be adjusted individually to meet the special machining needs;
Advantage: high precision, high efficiency, adapted to Advantages: high precision and high efficiency, adapting to the processing of complex workpieces.



夹具展示



CF-SC4x3ATC4 机头模组 (自动换刀)



CF-SCT4x4 机头模组



刀库

车铣复合榫卯加工中心

FOUR POSITION FIVE FACE MORTISE MACHINING CENTER

适用行业

主要适用于家具制造行业，餐椅、沙发生产及各个工件的镂铣加工。

Applicable Industries

Mainly used in furniture manufacturing industry, engraving and milling processing table and chair, sofa and production of various parts.

※ 该款设备接受特殊定制 This device accepts special custom

CF-FKC4x4



特点 | Characteristic

多工位加工，精准高效、一次装夹，两端一面榫头、榫眼一次完成。
四个工位可装4排不同刀，共16把刀具ER夹头系统，可安装多种特殊刀具；
旋转换刀机构0-360°任意角度定位加工，可高速位移；
多轴联动控制系统一次性完成多种加工功能；
车铣活动顶针轴带动工件连续旋转实现车削、铣型、异形等多种加工功能。

Multi station processing, precise and efficient, one-time clamping, completing tenons and mortises on both ends in one go.
Four workstations can accommodate 4 rows of different knives, with a total of 16 tool ER chuck systems, which can install various special tools;
The rotating tool changing mechanism can be positioned and processed at any angle from 0 to 360 degrees, and can be displaced at high speed;
Multi axis linkage control system can complete multiple machining functions at once;
The top needle shaft of the milling activity drives the workpiece to continuously rotate, achieving various machining functions such as turning, milling, and irregular shapes.

模组展示 | Module Display



榫卯加工中心的料夹组选配如下

THE FOLLOWING CLAMPING SET OPTIONS ARE AVAILABLE FOR MORTISE AND TENON MACHINING CENTERS



1. 校直夹:(带上压侧压功能,保证加工的精度)

最小加工长度125mm,最大加工宽度130mm,最大加工厚度120mm,用于加工两端榫头,可加工细长工件的卯。在装夹时可以把弯曲的料校直后加工,确保卯连接的精度。夹具单独使用也可以多个夹具组



2. 直角翻转夹(90°自动翻面加工)

最小加工长度150mm,最大加工宽度125mm,最大加工厚度125mm。用于一次加工不完需翻面才可完成加工的产品。实现自动翻面,加工简洁



5. 平面夹:(分左右各1小组,实现超宽产品的加工)

最小加工长度280mm,最大加工长度900mm,最大加工宽度235mm,最大加工厚度80mm。适用于宽的平板顶部上钻孔拉槽、平雕,加工端面侧面铣型,夹具成对使用按工件的长短来调整夹具的位置。



6. 标准夹:

最小加工长度250mm,最大加工长度3000mm,最大加工宽度190mm,工件最大厚度80mm。适用于钻孔拉槽加工两端榫头,加工一些弯曲不易放置的产品。

1. Straightening clamp: (with up and side pressing function to ensure machining accuracy)

The minimum machining length is 125mm, the maximum machining width is 130mm, and the maximum machining thickness is 120mm. It is used to process tenons at both ends, and can process tenons and mortises of slender workpieces.

During clamping, the bent material can be straightened and processed to ensure the accuracy of tenon and mortise connection.

The fixture can be used alone or in combination with multiple fixtures, and the position of the fixture can be adjusted according to the length of the workpiece.

2. Right angle turning clamp (90° automatic turning)

Minimum machining length 150mm, The maximum processing width is 125mm and the maximum processing thickness is 125mm. It is used for products that cannot be processed at one time without turning over. Automatic turning is realized, and the processing is simple, efficient and saves processing steps.

5. Plane clamp: (divided into 1 group on the left and 1 group on the right to realize the processing of ultra wide products)

The minimum machining length is 280mm, and the maximum machining length is 900mm, The maximum processing width is 235mm and the maximum processing thickness is 80mm. It is suitable for drilling, grooving, flat carving on the top of wide flat plate, and milling the side of end face.

The fixture is used in pairs to adjust the position of the fixture according to the length of the workpiece.

6. Standard clamp:

The minimum machining length is 250mm and the maximum machining length is 3000mm, The maximum processing width is 190mm, and the maximum thickness of the workpiece is 80mm. It is suitable for drilling and slotting to process tenons at both ends, and processing some products that are not easy to place due to bending.



3. 加长直角翻转夹(90°自动翻面加工)

最小加工长度150mm,最大加工长度1200mm,夹具长度1000mm,最大加工宽度60mm,最大加工厚度60mm。用于90°直角翻转的加工产品。实现自动翻面,加工简洁、高效、节省加工步骤。



4. 短料夹:(短件产品加工)

小加工长度70mm,最大加工宽度50mm,最大加工厚度80mm短料专用夹。且是两端头做榫卯,适用于做短件产品加工。



7. 车铣模组

最大加工长度1200mm,最小加工长度200mm,最大加工截面80x80。带动工件连续旋转及角度定位,实现车削、铣型、圆雕、平雕及异型加工等多种加工功能。



8. 平面翻转夹

按工件长度选用不同的规格(350-550mm, 450-650mm)最大加工宽度100mm,工件最大厚度80mm。钻孔拉槽、三个侧面可铣型,端头打,一个侧面拉槽

3. Lengthened right angle turning clip (90° automatic turning)

The minimum machining length is 150mm, the maximum machining length is 1200mm, and the fixture length is 1000mm.

The maximum processing width is 60mm and the maximum processing thickness is 60mm.

Used for processing products with 90° right angle turnover.

Automatic turning is realized, and the processing is simple, efficient and saves processing steps.

4. Short material clip: (short product processing)

The minimum machining length is 70mm.

The maximum processing width is 50mm and the maximum processing thickness is 80mm. Special clamp for short material.

The two ends are used as mortise and tenon, which is suitable for processing short products.

7. Turning and milling module

Minimum machining length 200mm, maximum machining length 1200mm, Maximum machining section 80 × 80.

Drive the workpiece to rotate continuously and position at an angle, and realize various processing functions such as turning, milling, circular carving, flat carving and special-shaped machining.

8. Plane turning clamp

Different specifications (350-550mm, 450-650mm) are selected according to the length of the workpiece, The maximum processing width is 100mm and the maximum thickness of the workpiece is 80mm.

Drilling and grooving, three sides can be milled, the end is tenoned, and one side grooving.

数控榫槽机

CNC GROOVE MACHINE

适用行业 适用于工件各种不同形状，不同规格榫槽、钻孔的工作。

Applicable Industries It is suitable for the work of different shapes, tenon and arooves of different specifications.

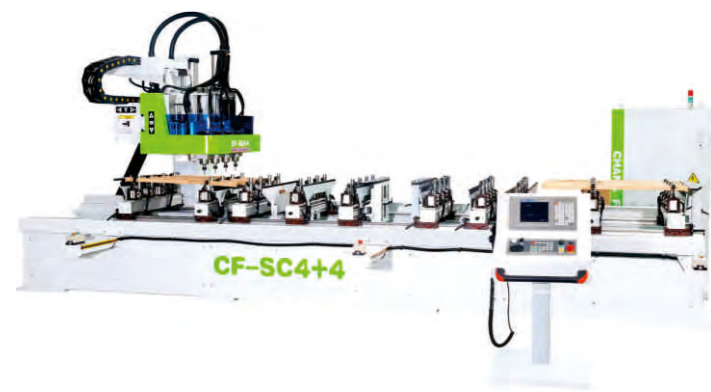
※ 该款设备接受特殊定制 This device accepts special custom



CF-SC4+4-T



CF-SC4-T



CF-SC4+4(可选加长L型)



CF-SC4

特点 | Characteristic

采用多头多工位，高速连续铣削，装夹方面一组工件加工的同时，其它工件进行装卸，不间断生产，效率大大提高。

可选择对点式编程方式输入；人性化的对刀设计，无需编程，对点即自动生成加工程序。

数控输入和输出，一组工件一次定位加工完成，确保工件高质量，高精度的完成。

采用先进的红外光栅保护，帮您杜绝安全隐患。

By using multi head, multi station, high-speed continuous milling and clamping, a group of workpieces are processed while other workpieces are loaded and unloaded, and the efficiency is improved.

It can choose the input to the point programming mode; the humanized tool design, without programming, automatically generates the processing program for the point.

Numerical control input and output, a group of workpiece positioning processing completed in one time, to ensure the high quality of the workpiece, high precision completion.



CF-SC5+5-L



CF-SC5+5

数控双端榫头机

CNC DOUBLE SIDE TENON MACHINE COMPUTER

适用行业 Applicable Industries

适用于加工各种不同形状、规格榫槽(孔)的工件，尤其对于多榫槽，榫槽间距较小，孔槽组合，同一工件榫槽长度和深度不同以及复杂的异形工件加工有显著优势。

It is suitable for processing work pieces with different shapes and specifications of mortise (holes, especially for multi mortise, small spacing of mortise and groove, hole and groove combination, different length and depth of mortise and groove of the same work piece and complex processing of special-shaped work pieces.

※ 该款设备接受特殊定制 This device accepts special custom



CF-ST2000-2



CF-ST2000-C

特点 | Characteristic

人机智能界面，菜单模式选择，一键式保存，一键式打开，方便高效。
模块化输入、按图示输入数值即可加工，一组工件一次定位加工完成。
存储记忆功能，适用于加工各种不同形状，不同规格榫槽(孔)的工件。
自动循环进出料装置，工件两端同时开榫，数控精准制，提高生产效率。

Man machine intelligent interface, menu mode selection, one button saving and one button opening, convenient and efficient.
Modular input, input the value as shown in the figure to process, and a group of workpieces can be processed at one time.
Storage and memory function, suitable for processing various shapes and sizes of mortise and groove (hole) workpiece.
Automatic circulation feeding and discharging device, both ends of the workpiece are tenoned at the same time, and the CNC precision tenon system improves the production efficiency.

细节展示 | Detail display



机器参数 | Machine Parameters

型号/Model	CF-ST2000-C	CF-ST2000-2
加工范围 Processing range	工件/Workpiece: 2200 × 150 × 80mm 榫间距/Tenon spacing: 120 ~ 2200mm 榫宽度/Tenon width: 0 ~ 150mm 榫厚度/Tenon thickness: 0 ~ 70mm 榫长度/Tenon length: 0 ~ 40mm	工件/Workpiece: 2200 × 150 × 80mm 榫间距/Tenon spacing: 160 ~ 2200mm 榫宽度/Tenon width: 0 ~ 150mm 榫厚度/Tenon thickness: 0 ~ 70mm 榫长度/Tenon length: 0 ~ 40mm
水平角度 Horizontal angle	负/negative: 45° 正/straight: 35°	负/negative: 30° 正/straight: 20°
垂直角度 Vertical angle	负/negative: 13° 正/straight: 65°	负/negative: 13° 正/straight: 45°
数控系统 Numerical control system	华中数控系统 Central china CNC system	
加工电主轴 Machining motorized spindle	3.7KW × 2 (转速12000RPM) 2.2KW × 2 (倒角主轴功率) 3.7KW × 2 (12000RPM) 2.2KW × 2 (chamfer spindle power)	3.7KW × 2 (转速12000RPM) 3.7KW × 2 (12000RPM)
伺服控制器 Servo controller	高解析、高性能 High resolution, high performance	
变频器 Frequency converter	高性能/High performance 3.7KW × 2 2.2KW × 2	高性能/High performance 3.7KW × 2
驱动模式 Drive mode	精密直线导轨 (HTPM) Precision linear guideway (HTPM)	
驱动方式 Driving mode	三轴轴精密滚珠丝杆 Three axis precision ball screw	
气动 Pneumatic	亚德客 (台湾AIRTAC) Adec (Taiwan AIRTAC)	
开关电器 Switching apparatus	施耐德 (法国schneider) Schneider (France)	
电缆及拖链 Cable and drag chain	高速重载电缆线及拖链 High speed and heavy load cable and drag chain	
外型尺寸 Overall dimension	4360L × 2270W × 1600H mm	3250L × 1970W × 1600H mm
机器重量 Machine weight	约/about 2.8T	约/about 2.2T

数控双边铣

BILATERAL MILLING NC

适用行业 | 主要适用于家具制造行业，餐椅、沙发生产及各个工件的镂铣加工。
Applicable Industries | Mainly used in furniture manufacturing industry, engraving and milling processing table and chair, sofa and production of various parts.

※ 该款设备接受特殊定制 This device accepts special custom

- CF-FC2.1520/2020/2520**
- CF-FC4.1520/2520**
- CF-FC6.2520**
- CF-FC8.2520**

细节展示 | Detail display



CF-FC4.1520



CF-FC2.1520



CF-FC6.2520



CF-FC8.2520

特点 | Characteristic

采用先进数控系统，自动将CAD文件转化为G代码。用于同时加工异形两面的往复式数控双边木工铣床。
多方位夹料系统，可装型刀，满足各种异形木制产品的成型加工。
电子CAM功能(进出刀时不会产生工作台瞬间停顿)。
安全护板:后端吸尘防护罩，滑动润滑方式:电脑自动给油，主轴免加油、免维护。
先进操作人员防护设计与吸尘，免工具的压料、靠料调整系统。
铣刀电脑控制正逆转;针对产品种类，性质，选择刀具加工，大大提高产品光洁度及加工效率。

Using advanced numerical control system, the CAD file is automatically converted into G code. A reciprocating numerical control bilaterally milling machine used for machining special-shaped two sides at the same time.
The multi-directional clamping system can be fitted with a knife to meet the molding of various special-shaped wooden products.
Electronic CAM function (no instant pause in the worktable when entering and leaving the knife).
Safety guard plate: back end dust shield, sliding lubrication: computer automatic oil, no refueling spindle, maintenance free.
Advanced operator protection design and dust absorption, free tool material, material adjustment system.
The computer control of the milling cutter is reversing. According to the product type, the quality, the tool processing is selected, and the finish and processing efficiency are greatly improved.

数控带锯机

COMPUTER BAND SAW

适用行业

广泛用于木工开料。

Applicable Industries It is widely used in carpenter's feeding.

※ 该款设备接受特殊定制 This device accepts special custom



CF-025.CNC



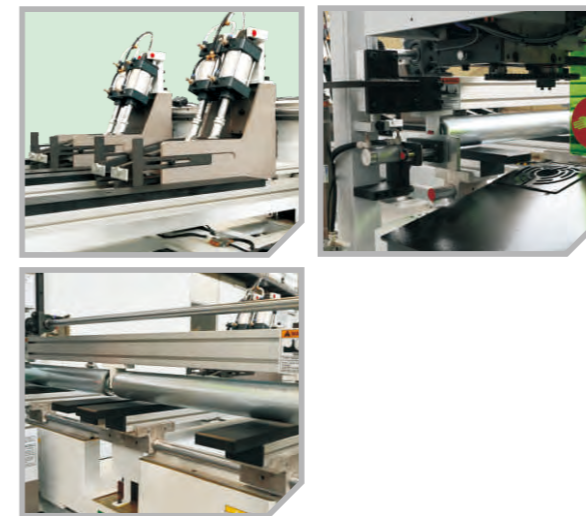
CF-013.CNC

特点 | Characteristic

省时省力省料安全。大大的提高了生产效率。全自动化加工作业，质量稳定，效率大幅度提高，多重保护装置，为后续加工作业打下基础，同时也使我们的工人远离工伤。使用CAD软件制图和排版工件，能最大化的节省材料，可定长，切直角，跳切多元化加工方式。

Time and labor saving and saving material safety. The production efficiency is greatly improved. Fully automated processing, stable quality and high efficiency, multiple protection devices lay the foundation for subsequent processing operations, and also keep our workers away from work-related injuries. Using CAD software mapping and typesetting workpiece, can maximize the saving of material, can be fixed length, tangent angle, jump cutting diversified processing methods.

细节展示 | Detail display



机器参数 | Machine Parameters

型号/Model	CF-013.CNC	CF-025.CNC
加工范围 Processing range	长/L1250×宽/W1250×厚/H180 mm	长/L2500×宽/W1250×厚/H180 mm
锯轮直径和宽度 Diameter and width of saw wheel	φ800×60mm, 锯轮容许转速800RPM, 50HZ φ800×60mm, allowable speed of saw wheel 800RPM, 50HZ	
夹料系统 Clamping system	2组夹料(4个夹子) 2 sets of clamps (4 clamps)	4组夹料(8个夹子) 4 sets of clamps (8 clamps)
锯条参数 Saw blade parameters	锯条宽度/Saw blade width:13mm-15mm	
	锯条长度/Saw blade length:5450mm	
	最小转弯半径/Minimum turning radius:60mm	
	锯条转弯角度/Turning angle of saw blade: -90° --+90°	
运行速度 Running speed	锯切喉深/Sawing throat depth: 500mm	
	加工速度: 1-20M/min Processing speed: 1-20m/min	回程速度: 60M/min Return speed: 60m/min
数控系统 Numerical control system	德国技术, HIGERMAN (HI-800CLL) German technology, HIGERMAN (HI-800CLL)	
锯切动力 Sawing power	7.5HP (电磁刹车) 7.5HP (electromagnetic brake)	
电缆及拖链 Cable and drag chain	高柔性高速电缆线及拖链 High flexible high-speed cable and drag chain	
滑动润滑方式 Sliding lubrication mode	电脑自动给油 Computer automatic oil feeding	
外型尺寸 Overall dimension	3500L×3300W×3000H mm	7000L×3500W×2800H mm

直刀开料机

STRAIGHT CUTTING MACHINE

※ 该款设备接受特殊定制 This device accepts special custom

细节展示 | Detail display



CF-KL2613.CNC



CF-KL1613.CNC

特点 | Characteristic

实现任意形状工件自动排版和数控开料;
识别 DXF 文件, 自动转换 CAD 图为开料加工轨迹;
一次加工完成排版套料、开料、锣机3个工序的工艺;
同尺寸批量生产, 加工效率高, 进给速度快;
加工精度高, 通过软件设计加工尺寸进行加工。

数控系统自带软件 | Software of CNC system

融合简易、直观、专用的 CAM/CAD 功能和木工数控加工;
无需编程, 只需输入尺寸就可完成加工控制, 实现家具行业木工设备智能控制;
实木开料数控系统可自动转换 CAD 图形为加工轨迹;
智能排版套料, 一次加工完成多个工艺。

Integrate simple, intuitive and special cam/cad functions and woodworking NC machining;
No programming, just input the size to complete the processing control, and realize the intelligent control of woodworking equipment in the furniture industry; The solid wood cutting NC system can automatically convert CAD graphics into machining tracks;
Intelligent typesetting and nesting can complete multiple processes at one time.



Realize automatic typesetting and NC cutting of workpieces with arbitrary shape;
Identify Dxf files and automatically convert CAD drawings to cutting machining tracks;
The process of completing three processes of typesetting, nesting, cutting and gong machine at one time;
Batch production of the same size, high processing efficiency and fast feed speed;
High machining precision, machining through software design machining size.

机器参数 | Machine Parameters

型号/Model	CF-KL1613.CNC	CF-KL2613.CNC
加工范围 Processing range	最大加工长度1600mm Maximum machining length 1600mm	最大加工长度2600mm Maximum machining length 1600mm
	最大加工宽度1300mm Maximum machining width 1300mm	最大加工宽度1300mm Maximum machining width 1300mm
	最大加工高度150mm Maximum machining height 150mm	最大加工高度150mm Maximum machining height 150mm
夹料系统 Clamping system	夹料4个夹子 Clamping 4 clips	夹料6个夹子 Clamping 6 clips
最大运行速度 Maximum operating speed	X轴/X axis: 45m/min	
	Y轴/Y axis: 30m/min	
控制系统 Control system	Coresing	
加工主轴 Machining spindle	高性能水冷主轴电机7.5KW×2(上下各1个) 18000RPM, ER32 High performance water-cooled spindle motor 7.5KW × 2 (one at the top and one at the bottom) 18000rpm, ER32	高性能水冷主轴电机11KW×2(上下各1个) 18000RPM, ER32 High performance water-cooled spindle motor 11KW × 2 (one at the top and one at the bottom) 18000rpm, ER32
伺服系统 Servo system	高性能、高解析 High performance, high resolution	
变频器 Frequency converter	大功率变频器15KW/22KW High power frequency converter 15KW/22KW	
滑动润滑方式 Sliding lubrication mode	自动润滑系统 Automatic lubrication system	
主轴冷却方式 Spindle cooling mode	带压缩机的冷冻机, 冷冻量5200W Refrigerator with compressor, refrigerating capacity 5200w	
外型尺寸 Overall dimension	6000L×3700W×1900H mm	7000L×3700W×1900H mm
机器重量 Machine weight	约/about 2.8T	约/about 3.7T

软件介绍

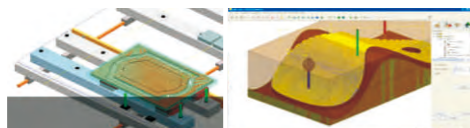
SOFTWARE INTRODUCTION

1. CF EasyWOOD欧洲正版编程软件(五轴类专用)

EASY WOOD European genuine programming software (special for five axis)

Easy WOOD (DDX公司)

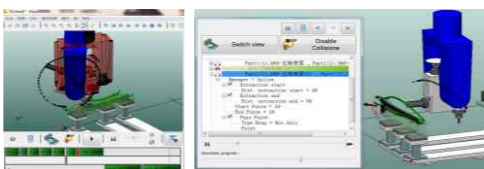
CF EasyWOOD是一个集CAD/CAM智能型的软件,完全具备发挥设备的强大性能,大大缩短了编程模拟的时间。自动加工行程检查、干涉碰撞检查、刀头快速移动轨迹自动调整和加工时间计算,让所有程序编写都提前在办公室内完成,非常具有实用价值。



友好的操作界面和简便易学的特点,程序的编辑、各种格式文件的导入极其方便,优化程序十分省力,可快速而最优化地发挥机床的效能,极大的缩短编程时间。

全自动仿真防撞优化系统,生成的程序可得到最佳的优化,使刀具移动距离最短,优化了不必要的非加工行程,通过CF EasyWOOD的优化可使普通的程序缩减50%以上的加工时间,且这一切都是由软件自动计算。

CF EaSy WOOD可以自由设计产品,也可从预定义的参数化模型库中选取设计模型。可导入2D和3D标准格式DXF,IGES, STL和RHINO(3DM)文件,允许通过激光扫描(点文件)生成文件。



CF easy wood can desian products freely or select desian models from the predefined parametricmodel library, 2D and 3D standard format DXE,IGES, STL and Rhino (3DM) files can be importdand the generation of files bylaser scanning (point files)is allowed.

CF easy wood is an intelgent CAD / CAM software, which can aive full play to the poweriul performance ofthe eouioment and greatly shorten the programming simulation time. Automatic machining stroke check, interference colision check, automatic adiustment of tool head fastmoving trajectory and machining time calculation make allprograms completed in the office in advance, which is of areat practical yalue.

The trienaly oneration interface and the characteristics of simplicity and easy earnina make it extremely conveniento edit the program and import various format files. The optimization program is very labor-saving, which can quicklyand optimally give play to the efficiency of the machine tool and greatly shorten the programming time.

The full-automatic simulation anti-collision optimization system can optimize the generated program to minimize thetool movement distance and optimize the unnecessary non machining travel. The optimization of CF easy wood canreduce the processing time of ordinary programs by more than 50%, and all these are automatically calculated by thesoftware.

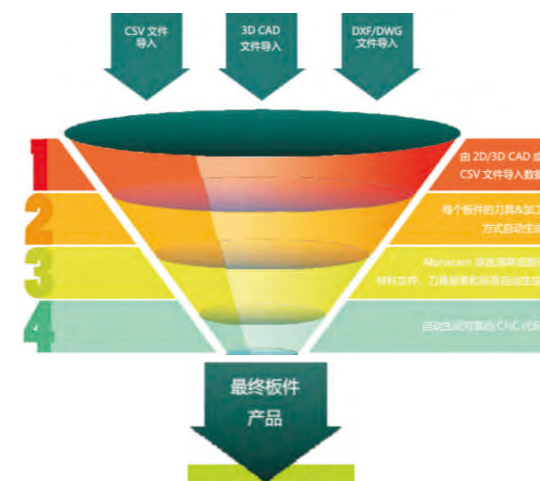
2.APLHA五轴仿真优化软件 APLHA 5-axis simulation and optimization software



程序优化使用, 通过本软件将它编程软件输出的程序进行非切削移动和切削运动的优化, 避免由于编程不当, 造成在刀路连接和刀具切换的过程中, 机床各部件之前的碰撞。期效果友好的CAM操作界面, 简单易懂。

Program optimization use, through this software will it programming software output program for non-cutting movement and cutting movement optimization, to avoid due to improper programming, resulting in the process of tool path connection and tool switching, the machine tool components before the collision.

3.ALPHACM后处理编程软件 ALPHACM post-processing programming software



Alphacam 为木工行业提供完整的CAD/CAM 解决方案,完美地集成了2D和多轴加工,提供多种加工策略可应用于任何类型零件,Alphacam 的重点是提供给客户生产力,可靠性和灵活,这些特质贯穿我们所有的产品模组包括花机、铣床和车床等。Alphacam所有模块的开发都基于一个核心,该核心包括几何图形创建指令,可导入CAD包括DXF、DWG、IGES以及多种实体模型格式,确保与其他CAD系统的对接。所有模块都包含用户自定义刀具和材料库,用来控制重要的加工参数如刀具方向、自动进出刀、角落切割(直角、圆角或环绕),G41/42刀具补正和自动计算转速及进给后处理器,在Alphacam和CNC设备之间最优的连接就是使用后处理,这是提高生产效率的最重要因素。Alphacam 强大的后处理有能力适用所有CNC控制器的高级功能,包括平面旋转。

Alphacam provides a complete cad/cam solution for the woodworking industry,perfectlyintegrates 2D and multi axis machining, and provides a variety of machining strategies that can be applied to any type of parts.Alphacam focuses on providing customers with productivity, reliability and flexibility.These characteristics run througal our product modules,including embossing machines,milling machines and lathes. The development of all alphacam modules is based on a core,which includes;geometric drawing creation instructions. CAD can be imported,including DXF,DWG,IGES and various solid model formats,to ensure the docking with other CAD systems.,.All modules contain user-defined tool and materiallibraries, which are used to control important processing parameters such as tool direction, automatic toolin and out, corner cutting (right angle, fillet or surround), g41/42 tool correction and automaticcalculation of speed and feed post processor. The optimal connection between alphacam and CNC equipment is post-processing, which is the most important factor to improve production efficiency.Alohacam's powerful ost-processing capability is applicable to all advanced functions of CNC controllers,including plane rotation.

4.定制板式CF-CAM软件 Customized panelcf-cam software

CF-CAM软件无需任何操作即可自动根据指定路径.xml生成相应的NC代码并存放在指定路径的文件夹内,多种加工模式。

- 支持xml/mp/nc等多种格式。
- 在钻孔工艺中可设置多组刀具组合,支持多刀同时加工。
- 支持3D图形显示,支持通过以输入文本形式进行工件设计,支持拖动、翻转放大/缩小工件。
- 支持2D图形显示,在此模式下支持通过以输入文本形式、CAD画图、导入DXF和XML格式文件对工件进行设计,支持自定义图形进行铣形,支持拖动、放大/缩小工件。·支持通过导入指定格式文件、现场设计工件等方式完成木工的工艺路线及工序内容的输入,生成相应的NC代码。
- 支持多种速度模式加工。
- 支持对工件上工序内容进行镜像选择,即可对所选对象进行竖直。间最优的连接就是使用后处理,这是提高生产效率的最重要因素。Alphacam 强大的后处理有能力适用所有CNC控制器的高级功能,包括平面旋转。



CF-CAM software can automaicallyfollow the specified path without any operation XML generates the corresponding Nc code and stores itinthe folder ofthe specified path.There are many processing modes. supportxml/mp/ncand otherformats. • Multiple sets of tool combinations can be set in the drilling process to support simultaneous processing of multiple tools. • It supports 3D araphic display, workpiece desian in the form of input text, and dragging, flipping, zooming in / out of workoieces. • It supports 2D graphic display. n this mode, it supports workpiece design in the form of input text, CAD drawing, importing DXF and XMLformat files, milling with user-defined graphics, and dragging, zooming in /out of workpieces. • Suppor the input of the woodworking process route and process content by importing the specified format file, field desian workpiece, etc.and generate the corresponding NC code. • Support multiple speed mode processing. • It supports the mirror selection ofthe previous process content ofthe workpiece, which can be used to vertically select the selected object