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Advanced Intelligent CNC Machine Integrated Solution Service Manufacturer

高端智能數控機床整體解決方案服務商



Catalog

产品目录



CNC Machine
数控机床

XIAMEN OSAIL TEK CO., LTD.

厦门鸥赛科技有限公司



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鸥赛科技有限公司（简称鸥赛 OSTEK）是漳州市钜钢精密机械有限公司的全资子公司，主要负责海外市场。钜钢起源于1990年台湾台中市，拥有自主品牌“钜钢”，于2006年在大陆内地设立分厂，经过30年的发展，是一家以开发、研制、生产及销售高速精密雕铣机、高速数控铣床加工中心系列产品为主的高科技企业。

目前已拥有高速精密雕铣机、钻孔攻牙机、卧式加工中心、高速数控铣床、龙门铣床、加工中心等系列产品。公司产品渗透到机械加工各个方面，主要面向航空航天、军工、汽车、船舶、3C、医疗机械、风能发电、五金及模具雕刻等行业提供系列数控机床产品。

钜钢拥有一流的管理人才、强大的科研开发团队、领先的生产制造技术、完善的机床设备、优质的服务，这些是我们为客户提供优质机床的保障。公司通过了ISO9001:2008质量管理体系认证，并拥有国家知识产权局授予的实用新型专利证书。

钜钢以完善的数控加工中心机生产链及销售服务体系，使得“钜钢”品牌获得全球广泛认可。公司力求打造一流的数控机床品牌，竭诚邀请广大客户来电洽谈业务，共创辉煌。

OUR TENET | 企业宗旨:

Integrity, Service, Quality and Innovation.

诚信、服务、质量、创新!

OUR GOAL | 企业目标:

Making Excellent Machine,
Building First-class Brand.

造精品机床，
树一流品牌。

Company Introduction 公司简介

Xiamen Osail Tek Co., Ltd (OSTEK) is the wholly owned subsidiary of Zhangzhou Jugang Precision Machinery Co., Ltd, who mainly responsible for the overseas market. Established in 1990, JUGANG began in Taichung City, Taiwan, is a high-tech enterprise dedicated to CNC machine's research, development, production and sales. JUGANG began its branch company in Fujian Province in 2006.

JUGANG's main products are CNC engraving and milling machine, CNC drilling and tapping machine, high speed high precision CNC machining centers, CNC machine with linear rail, vertical machine center series, horizontal machining center, gantry machining center etc., JUGANG KING STEEL CNC machines are extensively used in various industries, such as hardware, soft metal, mold carving, automotive, 3C, medical machinery, crafts industries, aerospace and so on.

JUGANG has first-class management, advanced research and development team, leading manufacturing technology, perfect CNC machine tool equipment and high quality service, these guarantee us to provide customers with high quality CNC machine. JUGANG has passed ISO9001 quality management system certification, and has the new practical patent certificate granted by the CNIPA (China National Intellectual Property Administration).

We sincerely welcome all our esteemed customers to contact us for business relationships and mutual success.

*Due to R&D, machine appearance, structure and parameters will be updated
由于本公司经常进行研发工作，外形结构及参数变更，具体以实物为准

→ Honor 公司荣誉



WORKSHOP SHOW

车间展示



RESEARCH AND INNOVATION

研发创新

Research and innovation are the endless driving forces for our development. We have sophisticated equipment and professional R&D personnel for continuous exploration on CNC machine field, strive to more in-depth development with all-round thinking. Researchers grasp the latest development trend of the CNC machine line, and react quickly and accurately as per customers' needs, so that JUGANG maintains strong technical support and competitive advantage in research and innovation.

研发创新是鸥赛发展的源动力，公司自成立以来，以台湾为产业基地聚集了一批人才，专研于数控机床领域。研究人员掌握行业最新的发展趋势，并根据客户的需求做快速、准确反应，使公司在研发中具有了强大的技术保障和竞争优势。

*Due to R&D, machine appearance, structure and parameters will be updated
由于本公司经常进行研发工作，外形结构及参数变更，具体以实物为准

CONTENTS

目录

Testing Equipment	05
检测设备	
Precision Assembly	07
精密组装	
Main Component	09
主要零配件及附件	
E Series: CNC Engraving and Milling Machine	11
E系列: 高速雕铣机	
E-500/650/760/8070/1080/1280/1311	
T Series: CNC Drilling and Tapping Machine	13
T系列: 高速钻孔攻牙机系列	
T-500/600/700	
LV Series: High Speed High Precision CNC Machine Center ...	15
LV系列: 高速高精度零件加工中心	
LV-640/850/855/1060/1160/1270/1370/1580/1690	
L Series: CNC Machine with Linear Rail	17
L系列: 线轨机	
L-650/850/1060/1168/1270/1370/1580/1690/1890	
VMC Series: CNC Vertical Machine Center	19
VMC系列: 高刚性模具硬轨机	
VMC-650/850/857/1060/1168/1270/1370/1580/1690/1890	
LM Series: CNC Gantry Machining Center	21
LM系列: 龙门加工中心机	
LM-2013/2015/2018/3018/3027/4027/5027	

First-class
Processing equipment
to ensure high
quality and precision

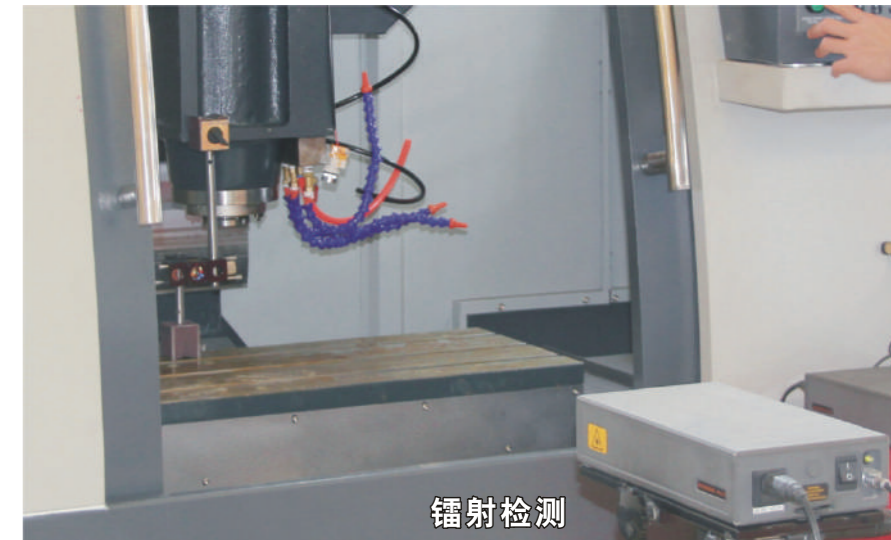
产品检测
一丝不苟

- ★ Spindle temperature test: after the spindle running 24 hours, checking whether the spindle temperature is normal.
主轴温度测试，主轴运转24小时后，检测主轴温度是否正常
- ★ Spindle bar test: ensure the perpendicularity of spindle and the fit accuracy of spindle taper hole and tool handle.
主轴检测棒检验，确保主轴的垂直度和主轴锥孔与刀柄的配合精度
- ★ Laser test: the full stroke motion accuracy is compensated by laser proofreading to ensure the machine's repeat positioning accuracy.
镭射检测，全行程运动精度皆经过镭射校对补偿，确保机台重复定位的精度
- ★ Spindle tension test: ensure tool tightness during machining
主轴拉力测试，检测主轴的拉刀力，确保加工时刀具夹紧力
- ★ Geometric accuracy test: test the parallelism of each axis and the perpendicularity between each axis.
几何精度检验，检测各个轴的平行度和各个轴相互之间的垂直度
- ★ Spindle vibration detection: require vibration in different speed range to be less than 3μm to ensure excellent machining accuracy.
主轴震动检测，主轴各个转速区间的震动检测，要求小于3μm以下，确保良好的加工精度
- ★ Ball-bar roundness detection: Correct roundness and geometric accuracy to ensure the machine's motion accuracy (in three-dimension space).
球杆仪真圆度检测，校正真圆度及机械几何精度，确保机台各轴加工运行精度



主轴温度检测

Spindle temperature



镭射检测

Laser testing



主轴温升检验

Spindle temperature rising detection



主轴震动检验

Spindle vibration detection



主轴检测棒检验

Inspection of spindle testing rod

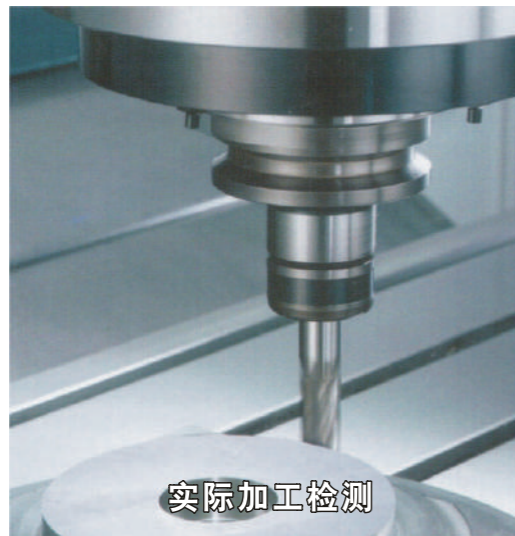
检测设备

TESTING EQUIPMENT



主轴拉力检测

Spindle tension testing



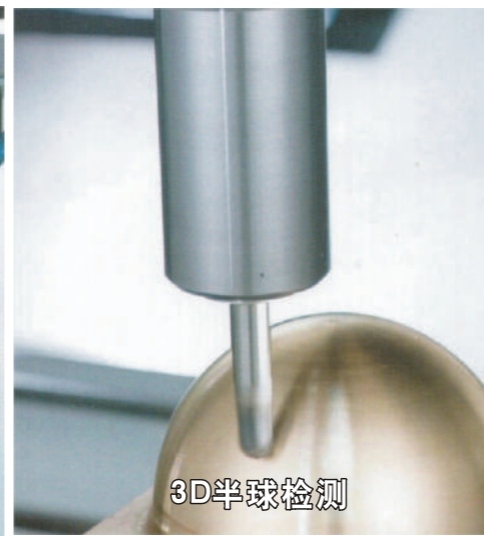
实际加工检测

Machining testing



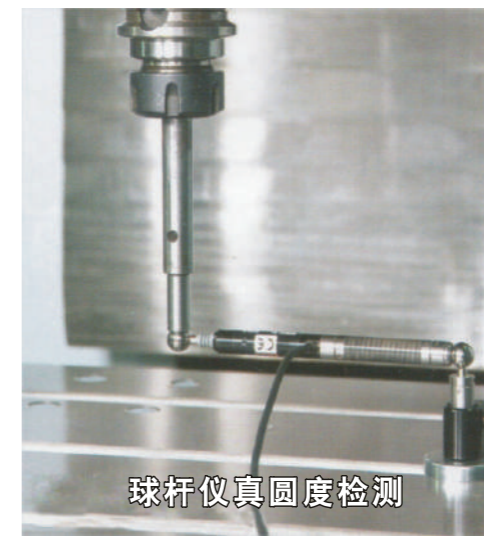
几何精度检验

Geometric accuracy testing



3D半球检测

3D Hemisphere detection



球杆仪真圆度检测

Ball-bar roundness detection

精密组装

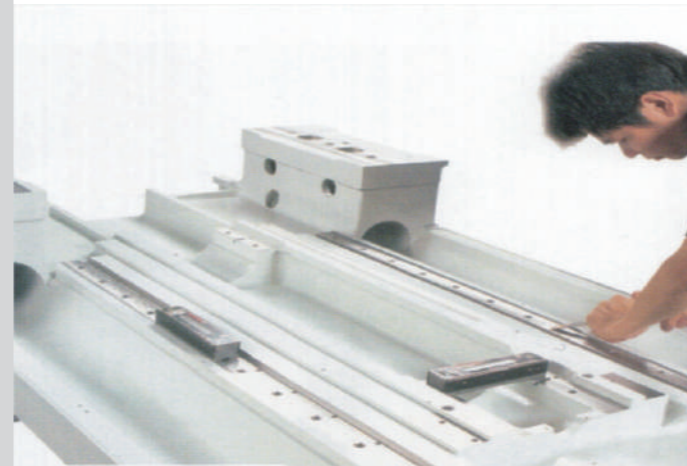
PRECISION ASSEMBLY

Strictly control all details while assembling

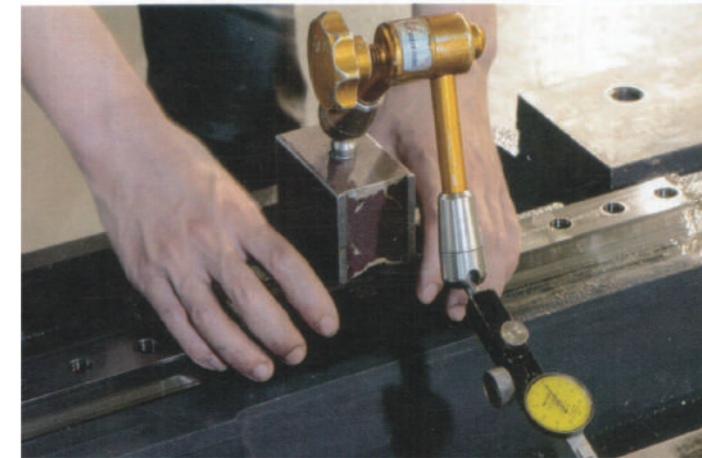
严格把关每个组装细节

Precision assembly is the most important procedure for CNC machine. The machine's processing precision depends on not only the components' precision, but also the precision assembly method. To ensure the precision of the machine, we insist on completing all the assembly by ourselves, monitoring every detail and each step, and refining the assembly. Each procedure has been strictly tested and recorded before proceeding to the next one.

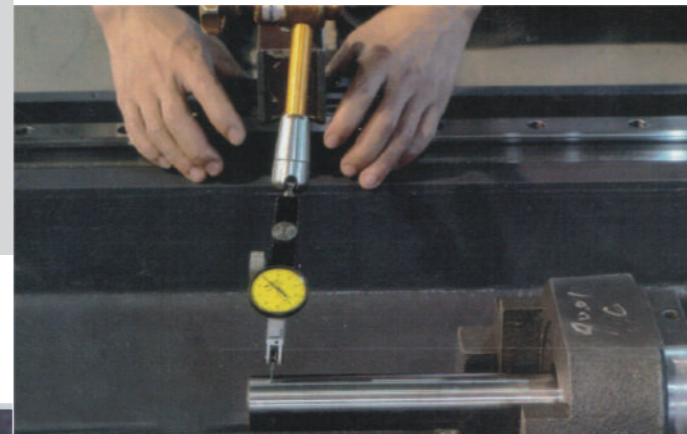
精密组装是加工中心最重要的环节，机械的加工精度不但取决于零件的精度，而且取决于装配方法。为确保产品的精度，钜钢公司坚持把所有组装百分之百自己完成，把握每个细节每个步骤，将组装细化。每个程序都有经过严格检验并记录，才能继续下一工序。



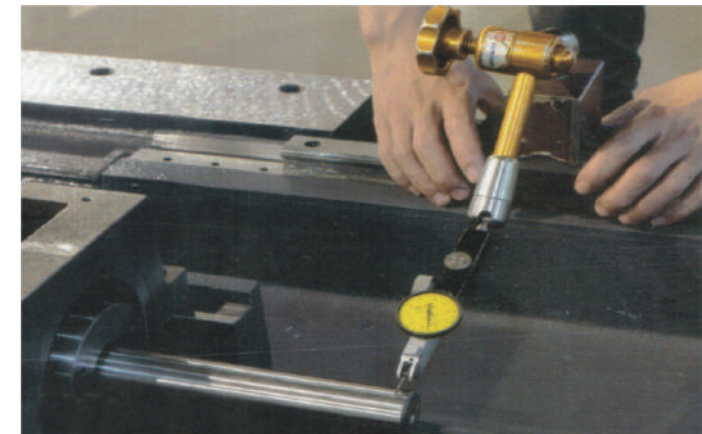
Screw assembly and correction **螺杆装配与校正**



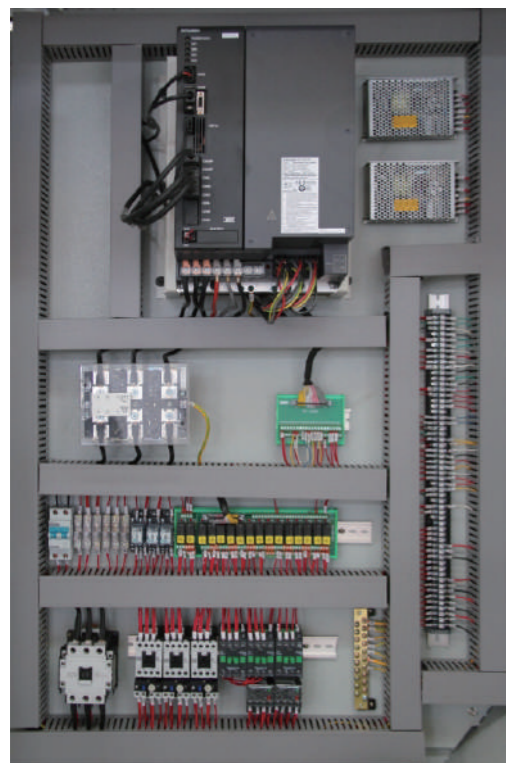
Guide rail correction **导轨校正**



Tailstock correction **尾端座校正**



Bearing seat correction **轴承座校正**



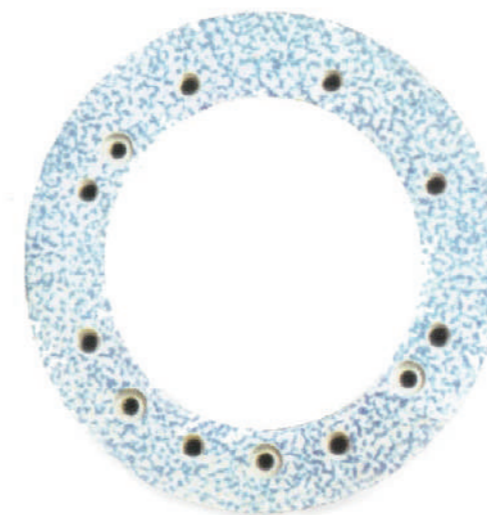
电气控制

Electric cabinet



底座铲花

Base precision scraping



主轴头之主轴结合面铲花

主轴头之主轴结合面、马达连接板皆经过手工铲花程序，以确保极致的性能与精度。
Spindle interface precision scraping



主轴联轴器校正

Spindle coupling correction

主要零配件及附件

MAJOR COMPONENT

Quality

精雕细琢
顶级功能

features assures
great coating performance

First-class brand components
进口原厂配件

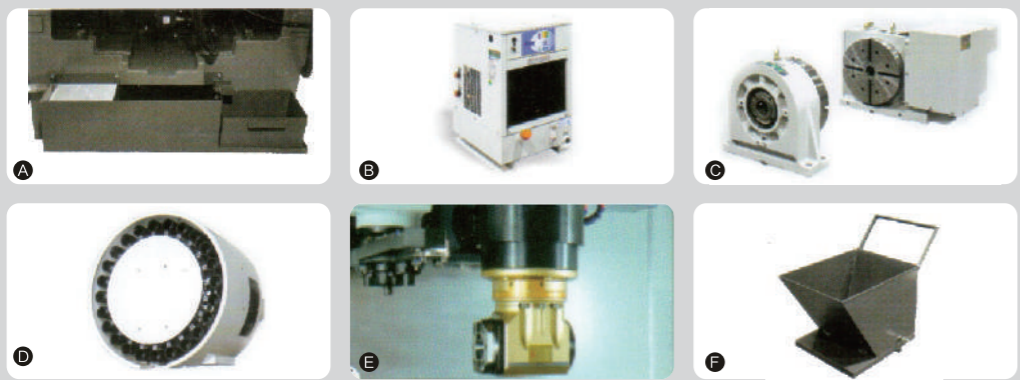
Major components are from Taiwan, Europe, America and Japan. We insist on our own technical innovation and assembly experience to ensure the machine's precision and prolong its service life.
主要零配件都采用台湾进口或欧美日本进口，同时坚持自己技术创新及组装经验，保证产品的精度和延长使用寿命。



- A. CNC Controller 控制器
- B. Spindle 主轴
- C. Screw 螺杆
- D. Linear Rail 线轨
- E. Bearing 轴承
- F. Boosting Cylinder 增压缸
- G. Casting 铸件

Various optional components
机床附件

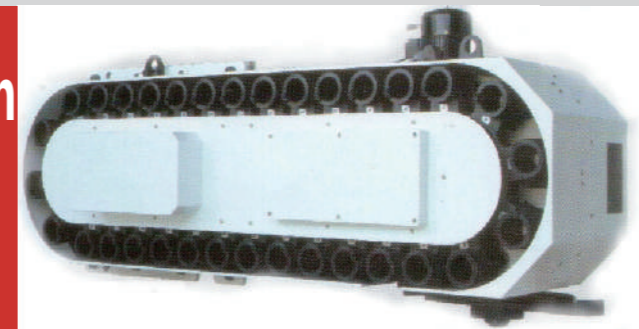
Various components for customer options.
丰富的机床附件供客户选择，满足不同类型零件的加工需要。



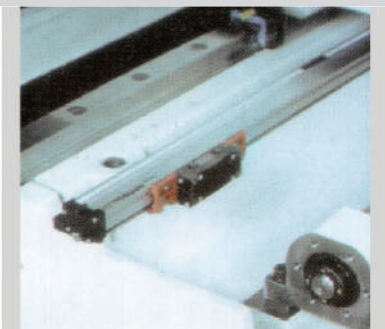
- A. Oily water separator 油水分离器
- B. Oil Cooler 油冷机
- C. The Fourth Axis 第四轴
- D. Tool Magazine 刀库
- E. 90° Toolholder Bits 90° 刀头
- F. Chip Storage Cart 储屑车

Configuration

Option 选配



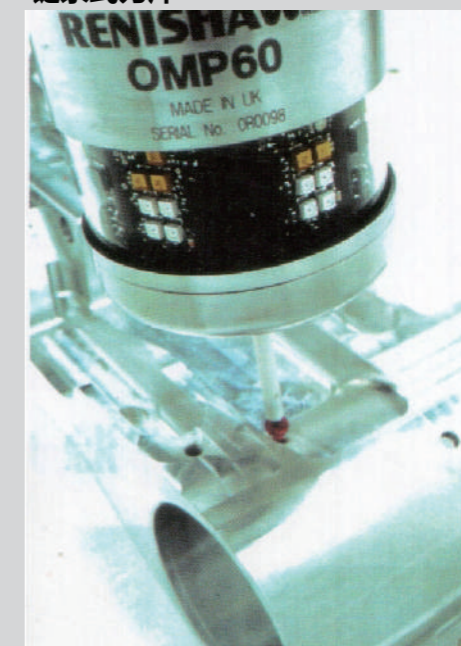
A. Chain Type Tool Magazine
链条式刀库



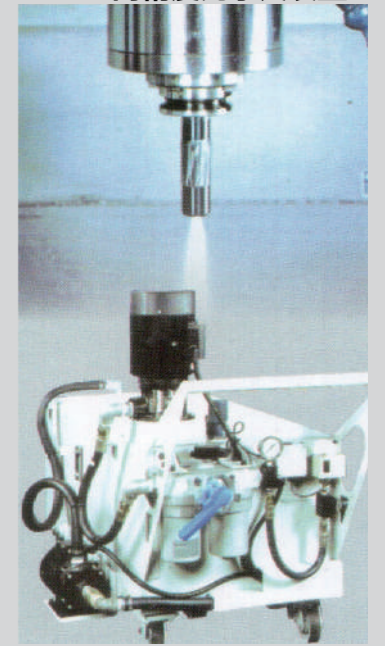
B. High precision Linear Scales
高精度光学尺装置



C. Coolant around spindle
主轴环状出水



E. Workpiece Measuring System
工件测量系统



F. Spindle Center through cooling
主轴中央出水

D. Spindle Oily water separator
油水分离器

A. Chain type tool magazine offers more optional tools and more efficient processing
链式刀库提供更多的刀具选择并获得更高效的加工速度

B. X/Y/Z axis can be equipped with linear scales to improve machining precision, suitable for high precision parts processing.
X/Y/Z 三轴可以加装高精度光学尺系统，检测机台快速移动产生的热变位，保证加工的精度

C. Coolant around spindle makes the workpiece and tools obtain the best cooling effect
主轴环状出水装置，使工件及刀具获得最佳的冷却效果

D. Separating the oil from mixture, ensuring cutting fluid quality. Recycled oil can save the cost.
油水分离器使油从混合物中分离出来；确保切削液品质，回收油可重复使用，从而节约成本

E. Renishaw measurement system is integrated with the latest sensor OMP60, save computer aided time up to 90%, reduce reject rate and save cost.
选用Renishaw工件测量系统，集成了新一代光学测头系统OMP60，可在机辅助时节省90%以上，减少废品率，降低成本。

F. Cutting fluid ejected from the tool nose, which can directly cool the workpiece and tool cutting edge to ensure the processing quality, suitable for deep hole machining process.
主轴中央出水系统，切削液通过主轴中心，由刀具刀尖喷出，可直接冷却工件与刀具切削刃上，将切削热源带走，以确保加工品质，适合深孔加工的零件

E Series: CNC Engraving and Milling Machine

E系列 高速雕铣机 E-500 / 650/760/8070/1080/1280/1311



FAGOR 8055iFLO-M controller
FAGOR自动化8055iFLO-M系统



TAIWAN SYNTEC 10MA controller
台湾新代10MA系统

The main characteristics of E series

E系列主要特性:

※The five major castings adopt advanced GB300 resin sand castings, which eliminate the internal stress after tempering, vibration and natural aging treatment.

五大铸件采用GB300高级树脂砂铸件，经回火处理及震动与自然时效处理消除内应力。
※Three axis have no pad block. Both grinding and scraping are used between the bearing seat and the body to ensure the three points' concentricity accuracy of the screw rod.

三轴无垫块，轴承座与机体间以研磨与铲花配合，确保丝杆三点同心度的精度保持。
※Machine with low gravity center and gantry type structure make the machine more stable.

低机身和龙门式床身结构，使机床稳定性更高。

※Equipped with imported precision linear rail, C3 ball screw rod, P4 NSK bearing.
配备进口精密级线轨，C3级滚珠丝杆，P4级NSK轴承。

Applicable to:

※Mold processing, copper electrode processing, fixture, glasses industry, crafts, hardware accessories, aluminum products and other soft metal processing.
模具加工，铜极加工，治具，眼镜业，制鞋业，工艺品，五金饰品，铝制品等软金属加工。

型号 Item No.		E-500	E-650	E-8070	E-1080	E-1280	E-1311
工作台 Worktable	工作台尺寸 Worktable Size	450*500 (mm)	500*600 (mm)	690*800 (mm)	820*1020 (mm)	820*1200 (mm)	1000*1300 (mm)
	最大载重量 Max. loading capacity	200kg	300kg	400kg	900kg	900kg	800kg
行程 Travel	三轴行程 Three-axis travel	450*500*200 (mm)	500*600*280 (mm)	700*800*350 (mm)	800*1000*350 (mm)	800*1200*350 (mm)	1100*1300*520 (mm)
	龙门可通过工作最大高度 The maximum work height of gantry	350/450 (mm)	380/500 (mm)	480 (mm)	480 (mm)	480 (mm)	600 (mm)
主轴 Spindle	主轴弹簧夹头 Spindle	ER20/ER25	ER25/ER32/BT30	ER25/ER32/BT30	ER25/ER32/BT30	ER25/ER32/BT30	BT40
	主轴转速范围 Spindle speed range	3000~24000 (r/min)	3000~24000 (r/min)	3000~24000 (r/min)	3000~18000 (r/min)	3000~24000 (r/min)	8000~12000 (r/min)
	主轴功率 Spindle Power	2.2-4.0 (KW)	2.2-5.5(KW)	5.5-7.5(KW)	5.5-7.5(KW)	7.5(KW)	7.5/11(KW)
进给 Feed	快速移动速度 Rapid moving speed	10000 mm/min	10000 mm/min	15000 mm/min	10000 mm/min	15000 mm/min	15000 mm/min
	最高切削速度 Max. cutting speed	10000 mm/min	10000 mm/min	15000 mm/min	10000 mm/min	15000 mm/min	15000 mm/min
精度 Accuracy	定位精度 Positioning accuracy	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.008mm	±0.01mm
	重复定位精度 Repeatability	±0.0025mm	±0.0025mm	±0.0025mm	±0.0025mm	±0.004mm	±0.005mm
机床尺寸重量 Dimension & Weight	外型尺寸 Dimension (mm)	1750*1670*2000	1800*1900*2200	235*1900*2400	3000*2400*2600	3200*2400*2650	3800*2100*2600
	机床重量 Weight	2.5T	3T	4T	6T	6.8T	9.5T
其它 Others	切削液系统: Cutting fluid system	双喷头 (切削液、压缩空气)					
	润滑系统: Lubrication system	自动润滑系统 (68号导轨油) Self-lubrication system (NO.68 Rail Oil)					
	电源及总功率: Powder supply and total powder:	三相交流380V 4.0~7.5~15KW Threephase AC current 380V 4.0~7.5~15KW					

Standard Configuration 标准配置

- Taiwan SYNTEC Controller 台湾新代
- Spindle oil cooler 主轴油冷机
- 3colors alarm light 三色警示灯
- Tool kit 工具箱
- Automatic lubrication system 自动润滑系统
- Separate handwheel 分离式手轮
- Electric box cooling system 电箱冷却系统
- Cutting fluid coolant system 切削冷却系统
- Fully enclosed sheet metal 全罩式钣金

Optional Configuration 可选配置

- BT30 Spindle BT30主轴
- BT30-12T umbrella type tools magazine BT30-12T斗笠式刀库
- Tool setting device 对刀仪

T Series: CNC Drilling and Tapping Machine

T系列 高速钻孔攻牙机系列 T-500 / 600 / 700



The main characteristics of T series

T系列主要特性:

- ※High rigid structure can withstand the inertia produced by high G movement. 床身结构坚固、能承受高G运动产生的惯量。
- ※High speed mute screw and mute linear rail reduce thermal displacement and improve precision. 高速静音螺杆、静音线轨使热变位少精度高。
- ※Fast reaction of the direct drive high-speed spindle makes the drilling tapping efficiency greatly improved. 直结高速主轴反应快，钻孔攻牙效率大大提高。
- ※ Three-axis 48m rapid feed movement can save 50% non-processing time. 三轴48米高速位移，可节省非加工时间50%。
- ※Elevated column designs reserve space for the fourth and fifth axis' installation. 加高立柱设计，预留安装第四、第五轴空间。
- ※The imported three-axis shield protects the screw rod and linear rail, which prolongs the service life of the machine. 进口三轴护罩保护螺杆线轨提高机床使用寿命。

Applicable to (适用范围):

- ※High precision and high finish 3C parts, hardware processing, mold processing, auto parts production, die casting processing and so on. 高精度高光洁度3C零件，五金加工，模具加工，汽配生产，压铸件加工等。

型号 Item no.		T500	T600	T700
工作台 Worktable	工作台尺寸 Worktable size	600*400mm	700*400mm	800*400mm
	T型槽 (宽*槽数*间距) T-slot (Width x No. x Distance)	14*3*100mm	18*3*100mm	18*3*100mm
	最大负载 (平均分布) Max. work-piece weight	200kg	250kg	250kg
行程 Travel	X/Y/Z轴行程 X/Y/Z-axes Travel	500/400/350mm	600/400/350mm	700/400/350mm
	主轴鼻端至工作台面距离 Distance from spindle nose to worktable	170~520mm	150~500mm	150~500mm
主轴 Spindle	主轴样式 Spindle Taper	BT30 (Direct drive type)	BT30 (Direct drive type)	BT30(Direct drive type)
	主轴转速 Spindle Rotation Speeds	15000/20000rpm	15000/20000rpm	15000/20000rpm
	主轴马达 Spindle Power	5.5KW	5.5KW	5.5KW
进给 Feed	X/Y/Z快速进给速率 X/Y/Z-axes fast feed speeds	48*48*48m/min	48*48*48m/min	48*48*48m/min
自动换刀系统 ATC	自动换刀型式: Automatic tool change type	夹臂式 (或伺服刀库) Clamp-arm type (Optional: Servo tool magazine)	夹臂式 (或伺服刀库) Clamp-arm type (Optional: Servo tool magazine)	夹臂式 (或伺服刀库) Clamp-arm type (Optional: Servo tool magazine)
	自动换刀刀把数量 Automatic tool change quantity	16/21pcs	16/21pcs	16/21pcs
机床尺寸重量 Dimension & Weight	外观尺寸 (长*宽*高) Dimensions (Lx W x H)mm	1800*2250*2600mm	1800*2300*2650mm	1900*2350*2700mm
	机械重量 Weight	3500kg	3800kg	4000kg

Standard Configuration 标准配置

- BT30-16T Arm type tool magazine
BT30-16T夹臂式刀库
- Spindle oil cooler 主轴油冷机
- 3colors alarm light 三色警示灯
- Tool cabinet 工具箱
- Automatic lubrication system
自动润滑系统
- Separate handwheel 分离式手轮
- Electric box cooling system 电箱冷却系统
- Cutting fluid coolant system 切削冷却系统
- Fully enclosed sheet metal 全罩式钣金

High rigidity main structure 高刚性主体结构

- All major components are made of high-grade resin sand cast iron, which is high tension casting material with strong shock absorption and good wear resistance; Internal stress elimination and aging treatment ensure the machine' s long-time high precision. 所有主件皆采用高级树脂砂铸铁，高张力铸件材质，吸震力强，耐磨性佳；并经应力消除与时效处理，确保机台能长期保持最佳精度。

Optional Configuration 可选配置

- Spindle rotation speeds: 15000/20000rpm
主轴转速15000/20000rpm
- BT30-16T Arm type servo tools magazine
BT30-16T夹臂式伺服刀库

LV Series: High speed high precision CNC machining center

LV系列 高速高精度零件加工中心 LV-640/850/855/1060/1160/1270/1370/1580/1690



Screw 螺杆

Taiwan HIWIN screw: high speed mute screw reduces thermal displacement and improves precision.
台湾上银螺杆, 高速静音螺杆使热变位减少, 提高精度。



Linear rail 线轨

Taiwan HIWIN roller linear rail.
台湾上银滚柱线轨。

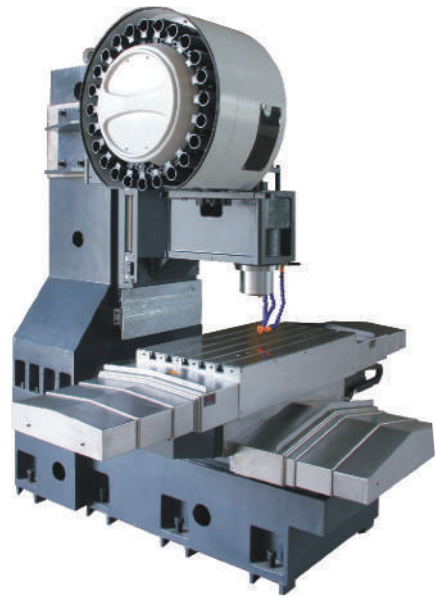


Spindle 高刚性主轴

LV series adopt Taiwan first-class brand spindle
LV系列主轴采用台湾原装高刚性主轴。

- High speed
- High precision
- High rigidity

The main characteristics of LV series LV系列主要特性



※High rigid structure can withstand the inertia produced by high G movement.
床身结构坚固、能承受高G运动产生的惯量。
※High speed mute screw and mute linear rail reduce thermal displacement and improve precision.
高速静音螺杆、静音线轨使热变位少精度高。
※Perfect features of spindle makes the high speed cutting efficiency greatly improved.
良好的主轴特性使高速切削效率大大的提高。
※Three-axis 48m rapid feed movement can save 50% non-processing time.
三轴48米高速位移, 可节省非加工时间50%。
※The imported three-axis shield protects the screw rod rail and prolongs the service life of the machine.
进口三轴护罩保护螺杆线轨提高机床使用寿命。

Applicable to(适用范围):

※Auto parts, electronic communication parts, aerospace parts, medical equipment processing, precision mold manufacturing and so on.
量产汽车零部件, 量产电子通讯件, 量产航天航空件, 量产医疗器械加工, 精密模具制造等。

型号 Item no.	LV-640	LV-850	LV-855	LV-1060	LV-1160	LV-1270	LV-1370	LV-1580	LV-1690	
工作台 Worktable	工作台尺寸 Worktable Size	720*420 mm	1000*550 mm	1000*550 mm	1200*600 mm	1200*600 mm	1320*700 mm	1500*700 mm	1700*800 mm	1800*900 mm
	加工区域 Machining Area	600*400 mm	800*500 mm	800*550 mm	1000*600 mm	1100*600 mm	1200*700 mm	1300*700 mm	1500*800 mm	1600*900 mm
	T型槽 (宽*槽数*间距) T-slot (Width x No. x Distance)	18mm*3pcs*125mm	18mm*5pcs*90mm	18mm*5pcs*90mm	18mm*5pcs*100mm	18mm*5pcs*100mm	18mm*5pcs*25mm	22mm*5pcs*135mm	22mm*5pcs*140mm	22mm*5pcs*165mm
	最大载重 Max. loading weight	300kg	600kg	800kg	800kg	800kg	1000kg	1000kg	1500kg	1600kg
行程 Travel	工作台X轴行程 X axis Travel	600mm	800mm	800mm	1000mm	1100mm	1200mm	1300mm	1500mm	1600mm
	工作台Y轴行程 Y axis Travel	400mm	500mm	550mm	600mm	600mm	700mm	700mm	800mm	900mm
	头部Z轴行程 Z axis Travel	420mm	550mm	550mm	600mm	600mm	700mm	750mm	700mm	800mm
	主轴鼻端到工作台面 Distance from spindle nose to worktable	170~590mm	120~670mm	120~670mm	120~720mm	120~720mm	150~850mm	170~920mm	170~870	160~960mm
主轴 Spindle	XYZ导轨类型 XYZ Guide rail type	滚珠线轨 Ball type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide	滚柱线轨 Roller type linear guide
	主轴转速 Spindle Rotation Speeds	12000	10000	10000	8000	8000	8000	8000	8000	8000
	主轴样式 Spindle Taper	BT40	BT40	BT40	BT40	BT40	BT40	BT50	BT50	BT50
	主轴电机/马达 (三菱) Spindle Motor (Mitsubishi)	7.5kw	11kw	11kw	11kw	11kw	11kw	15kw	18.5kw	18.5kw
	主轴电机/马达 (发那科) Spindle Motor (Fanuc)	7.5kw	11kw	11kw	15kw	15kw	15kw	18.5kw	18.5kw	18.5kw
	三轴伺服电机 (三菱) Three-axis servo-motor (Mitsubishi)	2.0*2.0*3.0 kw	2.0*2.0*3.0 kw	2.0*2.0*3.0 kw	3.0*3.0*3.0 kw	3.0*3.0*3.0 kw	3.0*3.0*3.0 kw	3.0*3.0*3.0 kw	4.5*4.5*4.5 kw	4.5*4.5*4.5 kw
进给 Feed	XYZ轴快速进给/移位 X,Y,Z axis Feed Speeds	48*48*48 m/min	48*48*48 m/min	48*48*48 m/min	36*36*36 m/min	36*36*36 m/min	24*24*24 m/min	24*24*18 m/min	20*20*15 m/min	20*20*15 m/min
	三轴切削进给 Three-axis cutting feed	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min	1-10000 mm/min
	精度 Accuracy	定位精度 Positioning accuracy	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.008mm	±0.008mm
重复定位精度 Repeatability		±0.0025mm	±0.0025mm	±0.0025mm	±0.0025mm	±0.0025mm	±0.003mm	±0.004mm	±0.004mm	±0.004mm
机床尺寸 Dimension & Weight	机械占地尺寸 Dimensions	2350*2400*2500mm	2600*2400*2600mm	2600*2400*2600mm	2800*2550*2650mm	2800*2550*2650mm	3240*2790*3500mm	3500*2900*3100mm	4255*3605*3380mm	4350*3750*3380mm
	机械重量 Weight	3500kg	5000kg	5800kg	6000kg	6800kg	7800kg	10000kg	12000kg	13000kg

Standard Configuration 标准配置

- 24T Drum type tool magazine 圆盘式24把刀库
- Spindle oil cooler 主轴油冷机
- LED 3colors alarm light LED三色警示灯
- Tool cabinet 工具箱
- Rigid Tapping 刚性攻牙
- Automatic lubrication system 自动润滑系统
- Separate handwheel 分离式手轮
- Rear flush structure 后冲水结构
- Rotary control box 旋转式控制箱
- Air gun 气枪
- Operation manual 操作手册
- Fully enclosed sheet metal 全罩式钣金
- Automatic power off switch 自动断电开关

Optional Configuration 可选配置

- 16T umbrella type tool magazine 斗笠式16把刀库
- Belt type Spindle rotation speeds: 12000rpm 皮带式轴转速12000转
- Direct type spindle rotation speeds: 10000/12000/15000 rpm 直接式主轴转速10000/12000/15000转
- Linear scale 光栅尺
- Center through cooling spindle 主轴中心出水
- Chain type chip conveyor 链条式排屑机
- Screw type chip conveyor 螺旋式排屑机
- Tool measuring system 工具测量系统

High rigidity main structure 高刚性主体结构

※Besides good spindle function,excellent ATC speed and fast displacement speed also ensure the machine's high speed and high efficiency.
LV系列机台,除了具有良好主轴的功能外更为机台高速化高效上,注入了优异的ATC换刀速度和快速位移速度。
※Specially designed for high productivity on mass production of sanitary processing, automotive parts processing, electronic consumer products parts processing.
专为生产卫浴产品,汽车零件加工,电子消费产品零件加工而设计,是生产企业高效益生产的最佳选择。
※For LV-855 and LV1160, three-axis adopt high-speed roller type linear rail, which ensure high speed and high efficiency, also improve machine rigidity.
LV-855, LV-1160 三轴采用高速滚柱线轨,高速,高效率,同时提高机台刚性。

L Series: CNC Machine with Linear Rail

L系列 线轨机系列 L-650/850/1060/1168/1270/1370/1580/1690/1890



The main characteristics of L series

L系列主要特性:

※X and Y axis adopt linear sliding rails and Z axis adopt hard rails, which have high rigidity, low noise and low friction features, can make rapid movement and obtain the best circular precision.

Rapid movement: X / Y axis : 36m/min , Z axis:18m/min.

X、Y轴采用线性滑轨，Z轴采用硬轨，具有高刚性、低噪音、低摩擦特性，可做快速位移及获得最佳循圆精度。快速位移X、Y轴36m/min, Z轴18m/min。

Applicable to (适用范围):

※Home appliances and electronic communication products, construction pipe fittings processing, auto parts and motorcycle parts processing, E-motor and electronic and instrumentation parts processing, plastic mold manufacturing and so on.

家电和电子通信产品，建筑和建材等管件加工，汽配和摩托车配件加工，电机及电子和仪表等零配件加工，塑料模具制造等。

Standard Configuration 标准配置

- Mitsubishi M80B controller or FANUC0imf(5)
日本三菱 M80B 控制器或 FANUC0imf(5)
- Spindle oil cooler 主轴油冷机
- 3colors alarm light 三色警示灯
- Tool kit 工具箱
- Automatic lubrication system 自动润滑系统
- Separate handwheel 分离式手轮
- Electric box cooling system 电箱冷却系统
- Cutting fluid coolant system 切削冷却系统
- Fully enclosed sheet metal 全罩式钣金

Optional Configuration 可选配置

- Mitsubishi M80A controller 日本三菱 M80A 控制器
- BT40-24T Drum type tool magazine BT40-24T 圆盘式刀库
- BT50-24T Drum type tool magazine BT50-24T 圆盘式刀库
- BT40-30T Drum type tool magazine BT40-30T 圆盘式刀库
- BT40-24T Drum type tool magazine BT40-24T 圆盘式刀库
- BT40-16T Umbrella type tool magazine BT40-16T 斗笠式刀库
- Direct type spindle rotation speeds:10000/12000/15000 rpm
直接式主轴转速10000/12000/15000转
- Center cooling through spindle 主轴中心出水
- Chain type chip conveyor 链条式排屑机
- Screw type chip conveyor 螺旋式排屑机

型号 Item no.		L-650	L-850	L-1060	L-1168	L-1270
工作台 Worktable	工作台面积 Table Size	800*500mm	1000*500mm	1300*600mm	1300*650mm	700*1360mm
	T型槽 (宽*槽数*间距) T-slot (Width x No. x Distance)	18mm*3pcs*144 mm	18mm*5pcs*90 mm	18mm*5pcs*100 mm	18mm*5pcs*120 mm	18mm*5pcs*122 mm
	最大载重 Max. loading capacity	500kg	500kg	800kg	1000kg	1000kg
行程 Travel	X轴行程 X axis Travel	600mm	800mm	1000mm	1100mm	1200mm
	Y轴行程 Y axis Travel	500mm	500mm	600mm	600mm	700mm
	Z轴行程 Z axis Travel	500mm	500mm	600mm	750mm	600mm
	主轴鼻端面至工作台距离 Distance from spindle nose to table surface	110-610mm	110-610mm	70-670mm	60-810mm	87-687mm
主轴 Spindle	主轴转速 Spindle Rotation Speeds	8000R.P.M, (Optical 10000/12000/15000R.P.M)				
	主轴规格 Spindle Taper	BT40	BT40	BT40	BT40	BT50
	主轴马达 Spindle motor	7.5HP(5.5KW)	10HP(7.5KW)	15HP(11KW)	15HP(11KW)	20HP(15KW)
	三轴电机功率 Three-axis motor power	1.5KW	3KW	3KW	3KW	3KW
进给 Feed	X.Y.Z轴快速进给 X.Y.Z axis Feed Speeds	36*36*18m/min	36*36*18m/min	36*36*18m/min	36*36*18m/min	24*24*18m/min
	定位精度 Positioning accuracy	±0.005mm	±0.005mm	±0.005mm	±0.005mm	±0.008mm
精度 Accuracy	重复定位精度 Repeatability	±0.0025mm	±0.0025mm	±0.0025mm	±0.0025mm	±0.004mm
	机床尺寸重量 Dimension & Weight	2700*2500*2750 mm	2800*2618*2800 mm	3300*2700*3090 mm	3300*2750*3090 mm	3450*2850*3100 mm
	机械重量 Weight	5000kg	5500kg	8500kg	8800kg	9000kg

型号 Item no.		L-1370	L-1580	L-1690	L-1890
工作台 Worktable	工作台面积 Table Size	1500*700mm	1700*800mm	1800*900mm	2000*900mm
	T型槽 (宽*槽数*间距) T-slot (Width x No. x Distance)	18mm*5pcs*135 mm	22mm*5pcs*140 mm	22mm*5pcs*165 mm	22mm*5pcs*165 mm
	最大载重 Max. loading capacity	1000kg	1500kg	1600kg	1600kg
行程 Travel	X轴行程 X axis Travel	1300mm	1500mm	1600mm	1800mm
	Y轴行程 Y axis Travel	700mm	800mm	900mm	900mm
	Z轴行程 Z axis Travel	700mm	700mm	600mm	600mm
	主轴鼻端面至工作台距离 Distance from spindle nose to table surface	190-890mm	130-830mm	160-760mm	160-760mm
主轴 Spindle	主轴转速 Spindle Rotation Speeds	8000R.P.M, (Optical 10000/12000/15000R.P.M)			
	主轴规格 Spindle Taper	BT50	BT50	BT50	BT50
	主轴马达 Spindle motor	20HP(15KW)	20HP(15KW)	20HP(18.5KW)	20HP(18.5KW)
	三轴电机功率 Three-axis motor power	3KW	4.5KW	4.5KW	4.5KW
进给 Feed	X.Y.Z轴快速进给 X.Y.Z axis Feed Speeds	24*24*18m/min	24*24*18m/min	20*20*15m/min	20*20*15m/min
	定位精度 Positioning accuracy	±0.008mm	±0.008mm	±0.008mm	±0.008mm
精度 Accuracy	重复定位精度 Repeatability	±0.004mm	±0.004mm	±0.004mm	±0.004mm
	机床尺寸重量 Dimension & Weight	3850*3200*3250mm	4255*3605*3380mm	4350*3750*3380mm	4500*3805*3380mm
	机械重量 Weight	10000kg	12000kg	13000kg	14500kg

VMC Series: CNC Vertical Machine Center

VMC 系列 高刚性模具硬轨机系列 VMC-650/850/857/1060 VMC-1168/1270/1370/1580/1690/1890



The main characteristics of VMC series

VMC系列主要特性:

※The main structure is made of cast iron, adopts box-type design, which is thicker and stronger than the conventional structure, can achieve high rigidity, heavy cutting, high precision and maintain precision after long time using.

主结构由铸铁制造, 采用箱型设计, 比常规结构更粗壮, 达到高刚性, 强切削, 高精度, 长时间使用不失精度。

※All the main components are checked by 3D finite element analysis, which can enhance the stability of high speed cutting.

所有主件皆经3D动态有限元分析, 更可增强高速切削之稳定性。

※Three-axis motor seat and main body are cast integrally and processed at the same time to ensure the assembly precision of each axis.

三轴马达座与主体一体铸造并同时加工, 可确保各轴组装精度。

※The machine's overall structure refers to European and US popular structure, and designed by CAD. The advanced finite element algorithm effectively evaluates the structure stress, ensures the reasonable structure stress distribution.

机床总体结构参照欧美流行结构, 设计采用著名的CAD计算机辅助设计, 同时采用先进的有限元算法对结构受力进行有效评估, 令其达到合理的结构分布。

※The spindle adopts high precision professional bearings, and all the screws adopt pretension treatment.

主轴采用高精度的专业轴承, 丝杆全部采用预拉处理。

※The vertical column and Z axis box body are designed as per the strong cutting structure.

立柱、Z轴箱体都按强力型切削结构进行设计。

※The imported plastic covered rail and quenched high rigidity rail coordinated together, which ensure the machine's excellent durability.

采用优质进口贴塑道轨与淬硬磨削道轨配合, 具有良好的耐用性。

※Full CNC servo motor coordinates with the three-axis servo motors which are larger than standard power to truly achieve the strong cutting.

采用全数字式伺服电机, 同时采用比常规功率都大一个规格的三轴移动伺服电机, 真正达到强力切削。

Applicable to:

※ Hardware mold, plastic mold and other steel mold's processing.
五金模, 塑料膜等钢件模具加工制造。

型号 Item No.	VMC-650	VMC-850	VMC-857	VMC-1060	VMC-1168
工作台 Worktable	工作台面积 Table Size	800x420mm	1050x500mm	1000x530mm	1300x650mm
	最大载重 Max. loading capacity	600kg	600kg	600kg	800kg
行程 Travel	T型槽 (宽x槽数x间距) T-slot (Width x No. x Distance)	18mmx3pcsx135mm	18mmx5pcsx90mm	18mmx5pcsx100mm	18mmx5pcsx120mm
	X轴行程 X axis Travel	650mm	800mm	800mm	1000mm
	Y轴行程 Y axis Travel	420mm	500mm	500mm	600mm
	Z轴行程 Z axis Travel	480mm	550mm	700mm	600mm
	主轴鼻端面至工作台距离 Distance from spindle nose to worktable	80-560mm	105-655mm	110-810mm	180-780mm
	主轴中心至立柱导轨距离 Distance from spindle axis to column guideway	480mm	550mm	575mm	600mm
主轴 Spindle	主轴转速 Spindle Rotation Speeds	8000R.P.M (10000/12000/15000 R.P.M)	8000R.P.M (10000/12000/15000 R.P.M)	8000R.P.M (10000/12000/15000 R.P.M)	8000R.P.M (10000/12000/15000 R.P.M)
	主轴规格 Spindle Taper	BT40	BT40	BT40	BT40
	主轴马达 Spindle motor	5.5KW	7.5KW	7.5KW	11KW
	三轴电机功率 Three-axis motor power	1.5KW	3KW	3KW	3KW
进给 Feed	X, Y, Z轴快速进给 X,Y,Z axis Feed Speeds	18000mm/min	18000mm/min	18000mm/min	15000mm/min
	精度 Accuracy	定位精度 Positioning accuracy ±0.01mm 重复定位精度 Repeatability ±0.005mm	±0.01mm ±0.005mm	±0.01mm ±0.005mm	±0.01mm ±0.005mm
机床尺寸重量 Dimension & Weight	机械占地尺寸 Dimensions	2500x2380x2576mm	2750x2518x2565mm	2800x2600x2750mm	3220x2605x3090mm
	机械重量 Weight	4500kg	5500kg	6000kg	8500kg

型号 Item No.	VMC-1270	VMC-1370	VMC-1580	VMC-1690	VMC-1890
工作台 Worktable	工作台面积 Table Size	1360x700mm	1400x710mm	1700x800mm	1800x900mm
	最大载重 Max. loading capacity	1000kg	1000kg	1500kg	1600kg
行程 Travel	T型槽 (宽x槽数x间距) T-slot (Width x No. x Distance)	18mmx5pcsx152.5mm	18mmx5pcsx152.5mm	22mmx5pcsx135mm	22mmx5pcsx165mm
	X轴行程 X axis Travel	1200mm	1300mm	1500mm	1600mm
	Y轴行程 Y axis Travel	700mm	700mm	800mm	900mm
	Z轴行程 Z axis Travel	600mm	650mm	700mm	680mm
	主轴鼻端面至工作台距离 Distance from spindle nose to worktable	150-750mm	150-800mm	170-870mm	160-840mm
	主轴中心至立柱导轨距离 Distance from spindle axis to column guideway	785mm	785mm	800mm	950mm
主轴 Spindle	主轴转速 Spindle Rotation Speeds	8000R.P.M	8000R.P.M	8000R.P.M	8000R.P.M
	主轴规格 Spindle Taper	BT50	BT50	BT50	BT50
	主轴马达 Spindle motor	15KW	15KW	18.5KW	18.5KW
	三轴电机功率 Three-axis motor power	3KW	3KW	4.5KW	4.5KW
进给 Feed	X, Y, Z轴快速进给 X,Y,Z axis Feed Speeds	12000mm/min	12000mm/min	12000mm/min	12000mm/min
	精度 Accuracy	定位精度 Positioning accuracy ±0.01mm 重复定位精度 Repeatability ±0.005mm	±0.01mm ±0.005mm	±0.01mm ±0.005mm	±0.01mm ±0.005mm
尺寸重量 Dimension & Weight	机械占地尺寸 Dimensions	3600x3100x3150mm	3800x3195x3230mm	4255x3605x3380mm	4350x3750x3380mm
	机械重量 Weight	9000kg	10000kg	12000kg	13000kg

Standard Configuration 标准配置

- Mitsubishi M80B controller or FANUC0imf(5)
日本三菱 M80B 控制器或 FANUC0imf(5)
- Spindle oil cooler 主轴油冷机
- 3colors alarm light 三色警示灯
- Tool kit 工具箱
- Cooling system (cooling pump)
加工冷却系统(水泵)
- Separate handwheel 分离式手轮
- Electric box cooling system 电箱冷却系统
- Fully enclosed sheet metal 全罩式钣金

Optional Configuration 可选配置

- Mitsubishi M80A controller
日本三菱 M80A 控制器
- BT40-24T Drum type tool magazine
BT40-24T 圆盘式刀库
- BT50-24T Drum type tool magazine
BT50-24T 圆盘式刀库
- BT40-16T Umbrella type tool magazine
BT40-16T 斗笠式刀库
- Chain type chip conveyor 链条式排屑机
- Screw type chip conveyor 螺旋式排屑机
- Direct type Spindle rotation speeds:10000/
12000/15000 rpm
直接式主轴转速10000/12000/15000转
- Center through cooling spindle
主轴中心出水

LM Series:CNC Gantry Machining Center

LM 系列 龙门加工中心机 LM-2013/2015/2018/3018/3027/4027/5027



The main characteristics of LM series

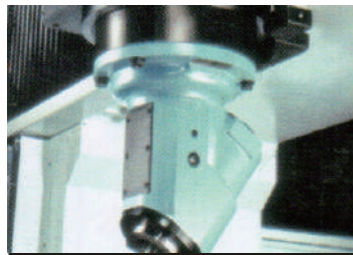
LM系列主要特性:

- ※The whole machine adopts advanced GB300 resin sand castings, which eliminate the internal stress after tempering, vibration and natural aging treatment. 全机采用GB300高级树脂砂铸件, 经回火处理及震动与自然时效处理消除应力。
- ※Ultra-wide column design and enlarged contact area with the beam eliminate the machining vibration to the greatest extent. 超宽立柱设计与横梁接触面积加大, 最大程度消除加工造成的震动。
- ※Three axis have no pad block. Both grinding and scraping are used between the bearing seat and the body to ensure the three points' concentricity accuracy of the screw rod. 三轴无垫块, 轴承座与机体间以研磨与铲花配合, 确保丝杆三点同心度的精度保持。

Applicable to(适用范围):

- ※Large mold processing, auto parts production, die casting processing and so on. 适合大型模具模座加工, 汽配生产, 压铸件加工等。

Optional Configuration 可选配置



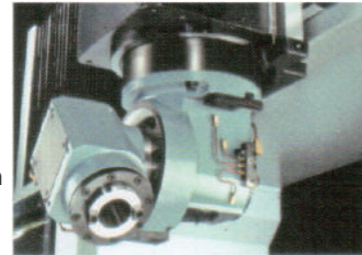
35° Head 35°头
Manual lock head/knife
手动锁头/刀
Manual 35° indexing
手动35°分度
Max. revolution speed:2000r.p.m
最高转速:2000r.p.m
Max. power output:22kw(30HP)
最大输出功率:22kw(30HP)



90° Head 90°头
Manual lock head/knife
手动锁头/刀
Manual 90° indexing
手动90°分度
Max. revolution speed:2000r.p.m
最高转速:2000r.p.m
Max. power output:22kw(30HP)
最大输出功率:22kw(30HP)



Extension Head 延长头
Manual lock head/knife
手动锁头/刀
No indexing
无分度
Max. revolution speed:3000r.p.m
最高转速:3000r.p.m
Max. power output:22kw(30HP)
最大输出功率:22kw(30HP)



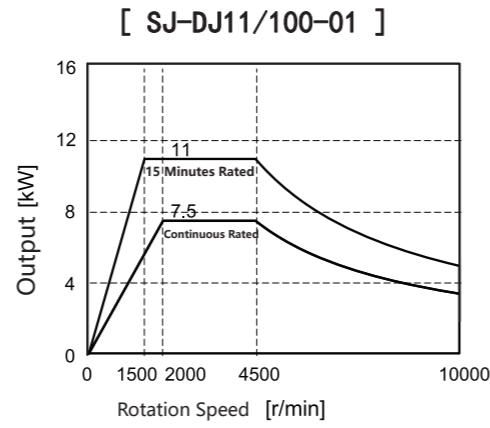
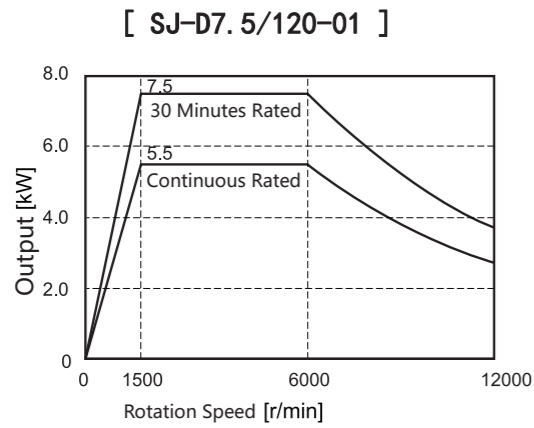
Universal Rotary Head 万向头
Manual lock head/knife
手动锁头/刀
CS Manual 90° indexing(A axis)
CS 手动90°分度 (A轴手动)
Max. revolution speed:2000r.p.m
最高转速:2000r.p.m
Max. power output:22kw(30HP)
最大输出功率:22kw(30HP)

Item No.		LM-2013	LM-2015	LM-2018	LM-3018	LM-3027	LM-4027	LM-5027
工作台 Worktable	工作台尺寸(宽*长) Worktable size (W*L) (mm)	1000*2000	1300*2000	1600*2000	1600*3000	2300*3000	2300*4000	2300*5000
	工作台T型槽(数目-尺寸*间距) T-slot (No. - Size x Distance)	7-22*150	7-22*150	9-22*180	9-22-180	11-28*200	11-28*200	11-28*200
	工作台承重 Worktable loading capability	3T	3T	4T	6T	8T	12T	15T
行程 Travel	工作台移动方向行程(X轴) X axis Travel (mm)	2000	2000	2000	3000	3000	4000	5000
	主轴滑座移动方向行程(Y轴) Y axis Travel (mm)	1400	1500	1000	2000	2700	2700	2700
	主轴上下移动方向行程(Z轴) Z axis Travel (mm)	800	800	1000	1000	1000	1000	1000
	龙门宽度 Gantry Width (mm)	1400	1500	2000	2000	2700	2700	2700
	主轴鼻端面至工作面距离(mm) Distance from spindle nose to table surface(mm)	70~870	70~870	250-1250	250-1250	260~1260	260~1260	260~1260
	XYZ轴导轨规格 XYZ-axis Guide rail specification	X、Y轴均为45规格重载滚柱线轨,Z轴矩形滑轨 X、Y axes: MR45 heavy load ball-type linear guide.Z-axis rectangular slide rail			X、Y轴为55规格重载滚柱线轨,Z轴矩形滑轨 X、Y axes: MR55 heavy load ball-type linear guide.Z-axis rectangular slide rail			
XYZ轴伺服电机传动方式及传动比 XYZ-axis Servo motor Drive Manner and Drive ratio	皮带传动, 传动比: X轴2.5: 1; Y、Z轴直连 Belt Drive, Drive ratio: X-axis 2.5: 1; Y/Z-axis direct connection			皮带传动, 传动比: X轴2.5: 1; Y轴2: 1; Z轴2: 1 Belt Drive, Drive ratio: X-axis 2.5: 1; Y-axis 2: 1; Z-axis 2: 1				
主轴规格(型号/安装直径): Spindle Taper (Mould no./ Mounting diameter)	BT50/φ190皮带式、BT50/φ190直接式 BT50/φ190 Belt-type、BT50/φ190 Direct-type.							
主轴传动方式 Spindle delivery type	齿轮头 Gearhead	最高转速3000rpm Max. rotational speed 3000rpm						
	皮带传动铣头 Belt-type Drive milling head	最高转速6000rpm, 减速比1.5: 1或1: 1 (可加ZF减速器, 减速比1: 1; 4: 1) Max. Rotational speed 6000rpm, Reduction ratio: 1.5: 1or1: 1 (may install ZF reducer, reduction ratio 1: 1; 4: 1)						
	直连 Direct-type Drive	最高转速4000rpm (可加ZF减速器, 减速比1: 1; 4: 1) Max. Rotational speed 4000rpm, (may install ZF reducer, reduction ratio 1: 1; 4: 1)						
主轴 Spindle	主轴电机18.5KW Spindle motor 18.5KW	主轴电机18.5KW Spindle motor 18.5KW	主轴电机22KW Spindle motor 22KW	主轴电机22/26KW Spindle motor 22/26KW	主轴电机22/26KW Spindle motor 22/26KW	主轴电机22/26KW Spindle motor 22/26KW	主轴电机22/26KW Spindle motor 22/26KW	主轴电机22/26KW Spindle motor 22/26KW
	主轴电机, XYZ三相伺服电机推荐 Spindle Motor, XYZ three-phase servo motor recommend	X轴40Nm, Y轴30Nm, Z轴30Nm X-axis: 40Nm; Y-axis:30Nm; Z-axis:30Nm(band-type brake)	X轴40Nm, Y轴30Nm, Z轴40Nm X-axis: 40Nm; Y-axis:30Nm; Z-axis:40Nm(band-type brake)	X轴40Nm, Y轴30Nm, Z轴30Nm X-axis: 40Nm; Y-axis:30Nm; Z-axis:30Nm(band-type brake)	X轴50Nm, Y轴30Nm, Z轴30Nm X-axis: 50Nm; Y-axis:30Nm; Z-axis:30Nm(band-type brake)	X轴40Nm, Y轴40Nm, Z轴40Nm X-axis: 40Nm; Y-axis:40Nm; Z-axis:40Nm(band-type brake)	X轴70Nm, Y轴40Nm, Z轴40Nm X-axis: 70Nm; Y-axis:40Nm; Z-axis:40Nm(band-type brake)	X轴100Nm, Y轴40Nm, Z轴40Nm X-axis: 100Nm; Y-axis:40Nm; Z-axis:40Nm(band-type brake)
进给 Feed	XYZ三轴快速移动推荐 (mm/min) XYZ-axis fast moving recommend	X: 8000 YZ: 10,000mm/min	10000mm/min	10000mm/min	X:8000	YZ:10,000mm/min	X: 5000 YZ:10,000mm/min	X: 5000 YZ:10,000mm/min
	XYZ轴滚珠丝杆规格 XYZ-axis ball screw rod specification	X:6310; Y:5010; Z:5010	X:6310; Y:5010; Z:5010	X:6310; Y:5010; Z:5010	X:8016, Y:6310, Z:5010	X:8016, Y:6310, Z:5010	X:8020, Y:6310, Z:5010	X:8016, Y:6310, Z:5010
精度 Accuracy	定位精度 positioning accuracy	±0.01mm	±0.025/300mm	±0.025/300mm	±0.025/300mm	±0.01mm	±0.01mm	±0.01mm
	重复定位精度 Repeatability	±0.005mm	±0.015/300mm	±0.015/300mm	±0.015/300mm	±0.005mm	±0.005mm	±0.005mm
其它 Others	占地尺寸 Dimensions	6000*4100mm	6000*4100mm	6000*4100mm	8300*5300mm	9000*5000mm	10000*5000mm	11000*5000mm
	机器重量 Weight	18T	18T	26T	30T	46T	50T	55T

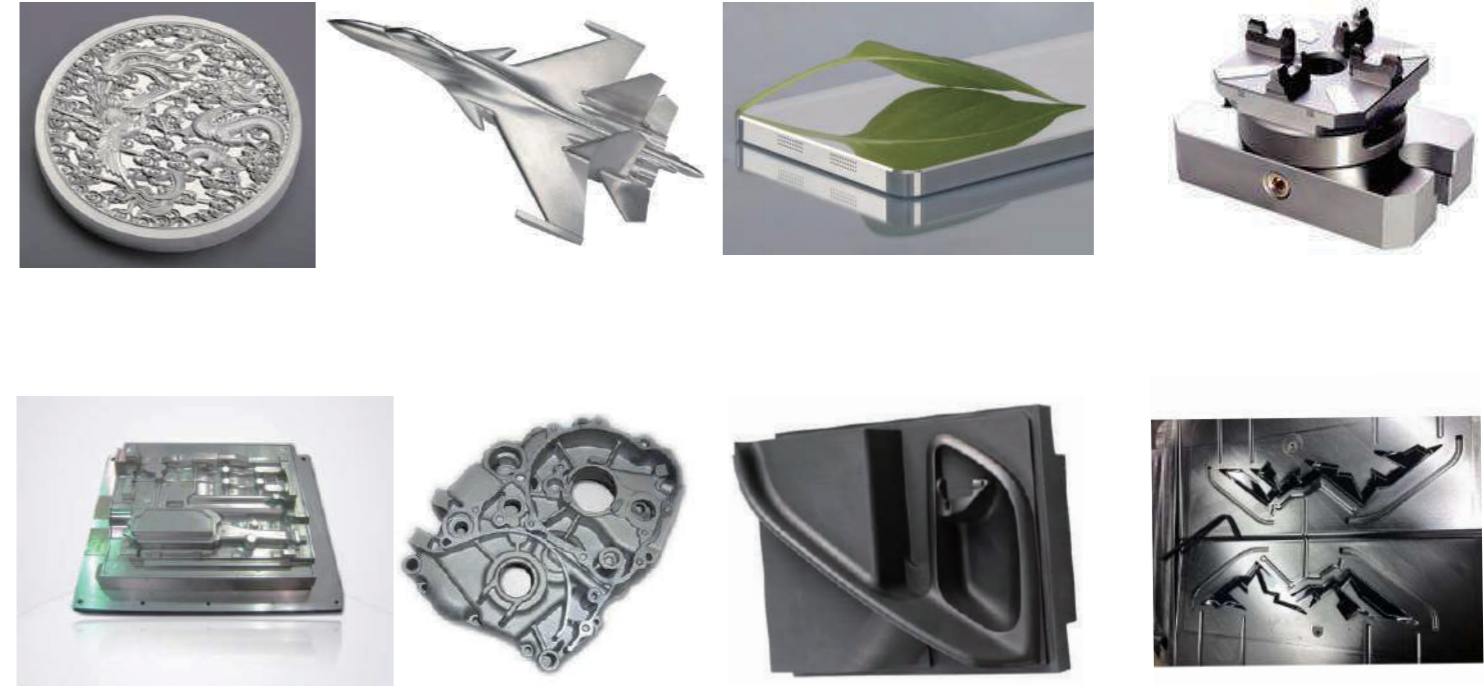
Performance Architecture Diagram-Mitsubishi

LV-855 Mitsubishi Driver

LV-1160 Mitsubishi Driver

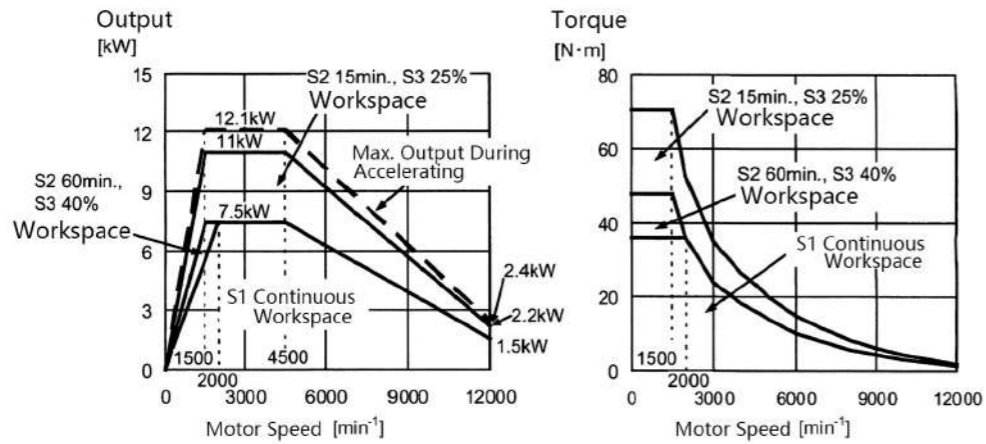


Machining Workpieces

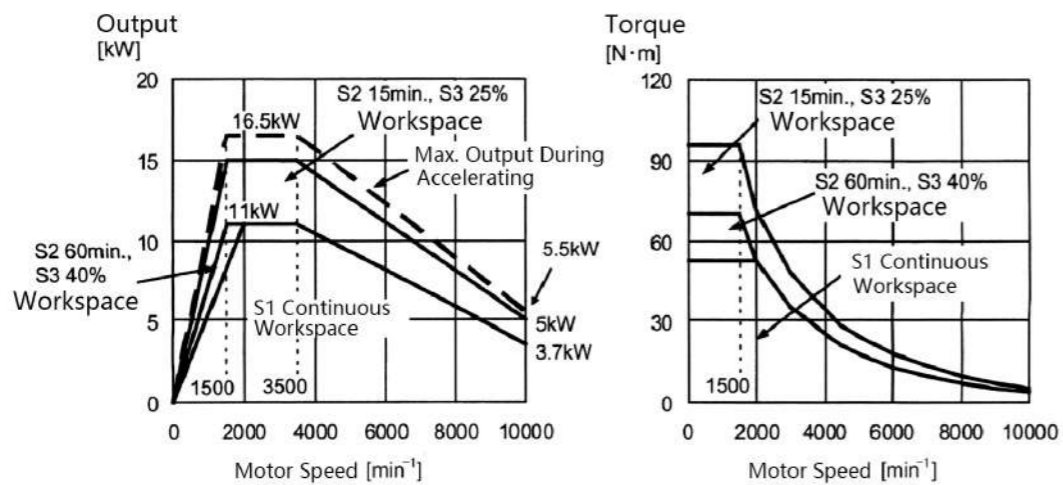


Performance Architecture Diagram-Fanuc

Fanuc Driver



Fanuc Driver



Cooperation Partners

