

忠厚为本 · 诚信为道



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ISO 9001



ISO 14001



CNC Machining Center

CNC加工中心综合样本

立式加工中心 P.07~32
Vertical machining center

五轴加工中心 P.23~24
Five axis machining center

高速高精钻攻中心 P.33~36
Drilling Center

铝型材加工机 P.37~38
Profile machine

卧式加工中心 P.39~40
Horizontal machining center

龙门加工中心 P.41~44
Gantry machining center

雕铣机 P.45~46
Engraving and milling center



江苏厚道数控科技有限公司

JiangSu HODAO CNC Technology Co.,Ltd.

关于厚道

About HODAO

江苏厚道数控科技有限公司是一家专业从事研发设计、生产制造数控机床和CNC工具机的高科技企业。

公司以欧美行业的生产理念为基础，同时融合多家生产企业多年的生产经验，不断吸纳国内外同行的先进科技成果，发展成为今天拥有完善的生产与装配加工中心的专业制造商。

公司产品有立式加工中心、高速加工中心、高速钻孔攻牙机、龙门加工中心、卧式加工中心等。主要客户为精密模具制造业，汽车制造业，电子通讯业，精密零件加工业与航空航天业等。公司一直以拼搏奋进，诚信经营的理念。以最有性价比的产品和完善的服务，为客户提供最佳解决方案，为客户创造最大价值，提升客户的产品竞争力。

Jiangsu Hodao Numerical Control Technology Co., Ltd is a high-tech enterprise which specializes in developing, designing and producing numerical control machine and CNC machine tool.

Based on the production concept in European countries and America, enterprise has developed into the professional manufacturer which has a complete production and mounting center by integrating the production experience of many manufacturing enterprise and constantly obtaining the advanced scientific and technological achievements of the international counterparts.

Company products are vertical machining centre, highspeed machining centre, high-speed screw drilling, gantry machining centers, horizontal machining centers, etc. the main customers are precision mold industry, automotive industry, electronic communication industry, precision component manufacturing industry and aerospace industry, etc. with the concept of the struggle ahead and integrity management, company always provide the best solution and create maximum value for customers to improve the product competitive of customers with the most valuable products and perfect services.



荣誉

Honor

发明、实用新型、外观专利共59项



产品深受广大用户信赖与支持

Products are deeply trusted and supported by the broad masses of users



质量管控

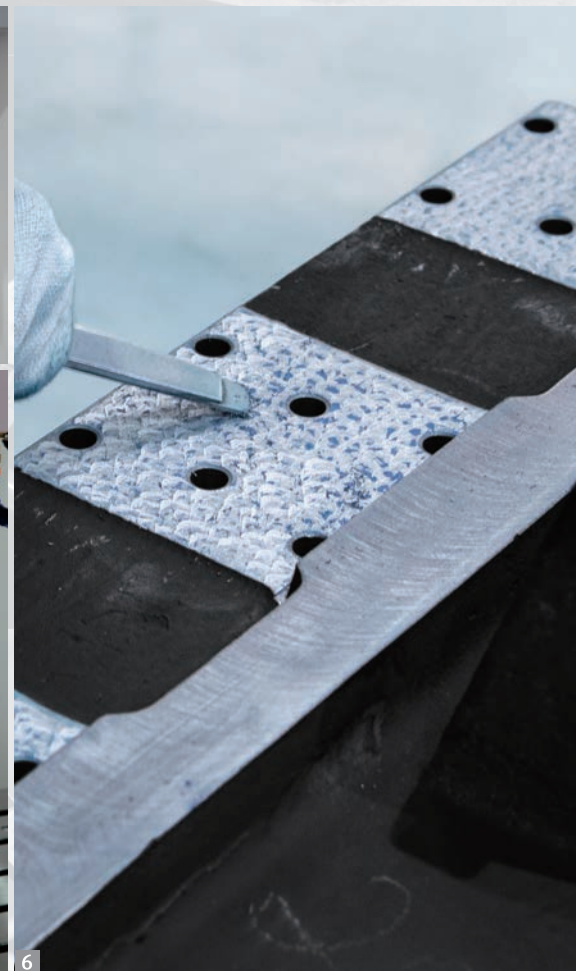
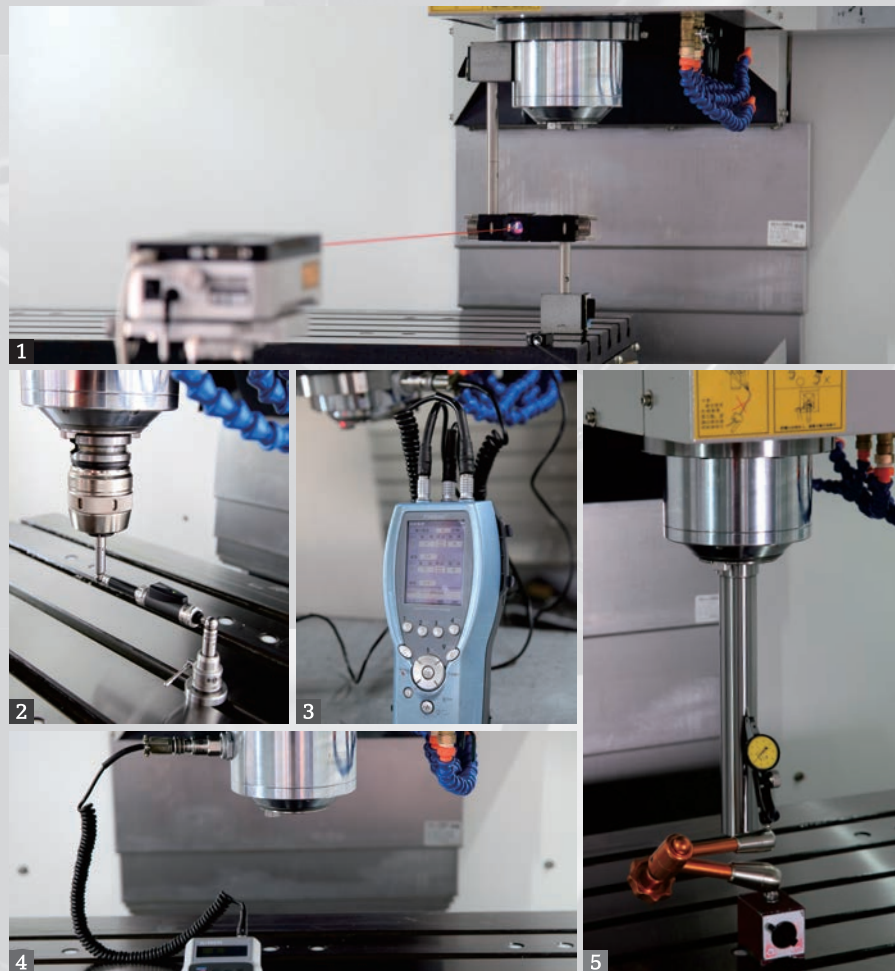
Quality control

对每台机器全检

- 1 镭射检测
- 2 循圆检测
- 3 主轴动平衡检测
- 4 主轴振动检测
- 5 主轴偏摆检测
- 6 传统刮花

Check every machine

- 1 Laser measurement
- 2 Traversing a circular profile measurement
- 3 Spindle dynamic balance measurement
- 4 Spindle vibration detection
- 5 Spindle deflection measurement
- 6 Scratch



售后服务

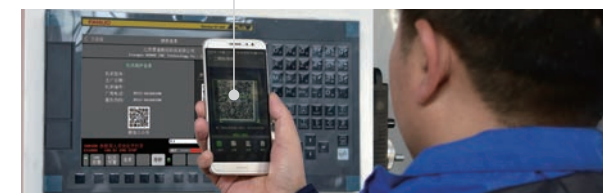
After sales service

厚道机床自身二维码

机床信息扫码查询，产品追溯清晰！

Hodao machine's own QR code

Machine information scanning code query, Product traceability clear!



专业客服帮助您

- 一对一贴心服务
- 7X24小时快速到位服务
- 及时服务 终身维护
- 全方位客服体系
- 提供编程、刀具选用、工装等技术咨询
- 提供机床操作保养、简易编程培训
- 协助客户进行产品选择、产能评估、工厂布置
- 售后服务电话：133 7518 0900
- 投诉电话：0512-6626 0100

Professional customer services

- One on one intimate service
- 24/7 quick response services
- Offer you in-time services and lifelong maintenance
- All-around customer services system
- Offer technology consulting about programming, cutter selection and tooling.
- Offer trainings of machine operation and maintenance, as well as basic programming.
- Assistant customers to do product selecting, capacity assessment and plant layout.
- After - sales service phone:133 7518 0900
- Complaints phone:0512-6626 0100

多渠道服务

关注微信公众号，可在线申请售后。

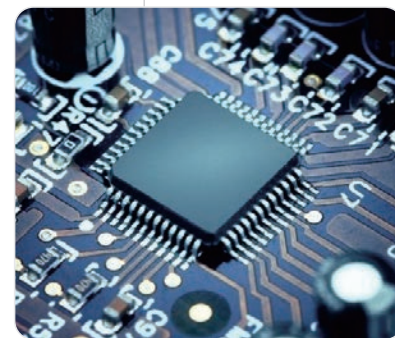


Multi-channel service

Pay attention to the WeChat public account and apply online for sale.

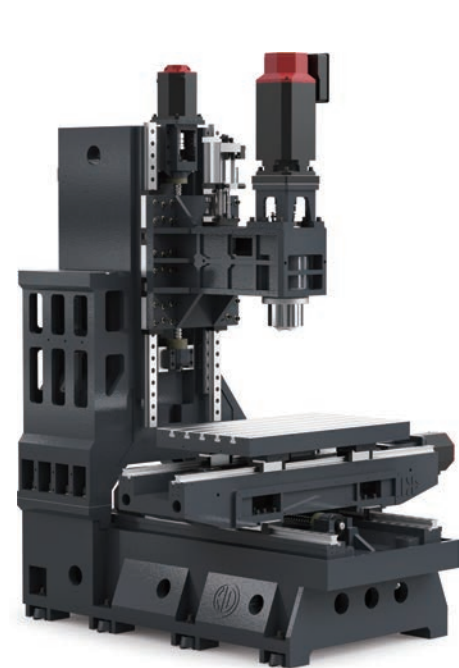
目标产业市场

Target industry market

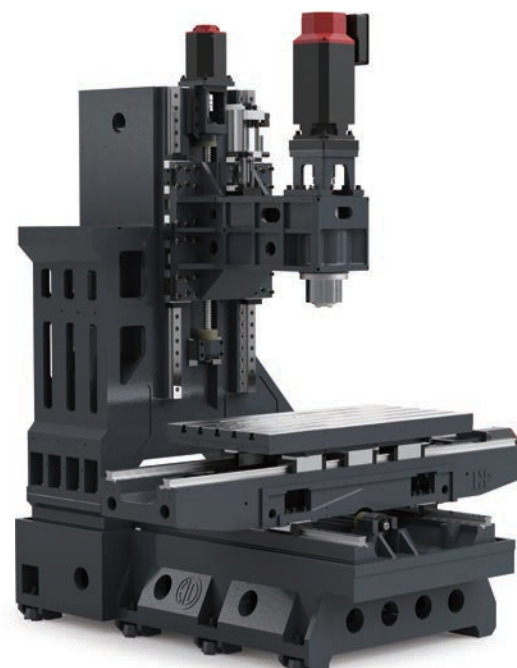


高效能立式加工中心

High-performance vertical machining center



HD-VF85 直联样式
HD-VF85 Direct-drive style



HD-VF116 直联样式
HD-V116 Direct-drive style

人性化设计

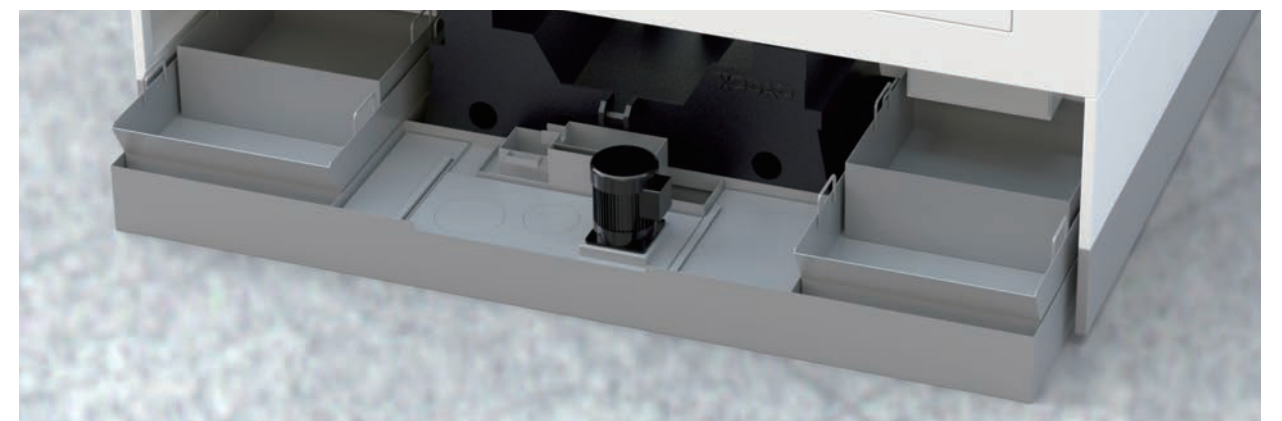
采用精密的钣金设计，考虑到使用行车时对工作台的可达性和工件处理的考虑。
其他功能更好的可操作性也纳入整个机器。
需要定期维护的液压单元和其他外围设备被放置在易于到达的位置，以提高可维护性。

Humanization design

Employs a sophisticated sheetmetal design and is designed taking into account the accessibility to the table and workpiece handling with a crane.

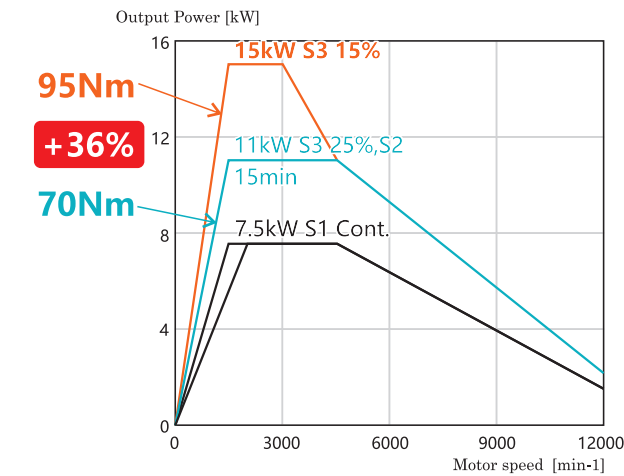
Other features for better workability are also incorporated throughout the machine.

The hydraulic unit and other peripherals requiring periodic maintenance are placed in an easily accessible location to improve maintainability.



主轴输出更大

追加 S3 15% 额定输出功率和扭矩
提升短时间的重切削能力
缩短加减速及刚性攻丝时间



新一代主轴电机高效发挥

智能主轴负载控制
开粗效率提升28%



新人机操作界面更便利

经常使用的功能从繁琐设定改成一键操控

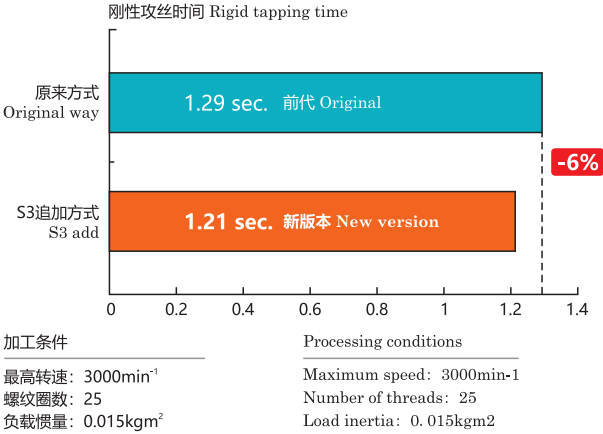
New HMI more easy

Frequently used functions are changed from complex lock settings to one-key operation

Larger spindle output

Added S3 15% rated output power and torque;
Improve short-time heavy cutting ability;
Shorten acceleration, deceleration and rigid tapping time

例 Example:



New generation spindle moror

Intelligent spindle load control
Roughing efficiency increased by 28%

主轴温度 / 主轴负荷
Spindle temperature / Spindle load



主轴温度 / 主轴负荷
Spindle temperature / Spindle load

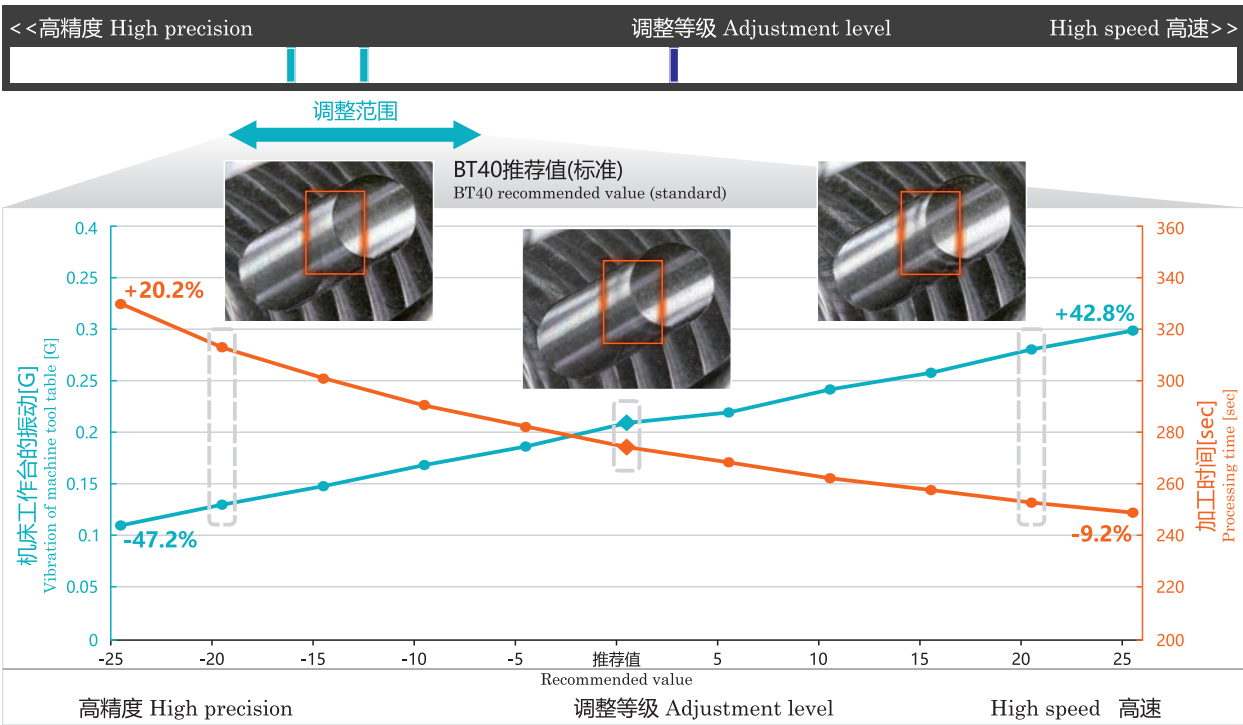


系统加工更强

加工精度等级设定更简单

System processing is stronger

Simple setting of machining accuracy level

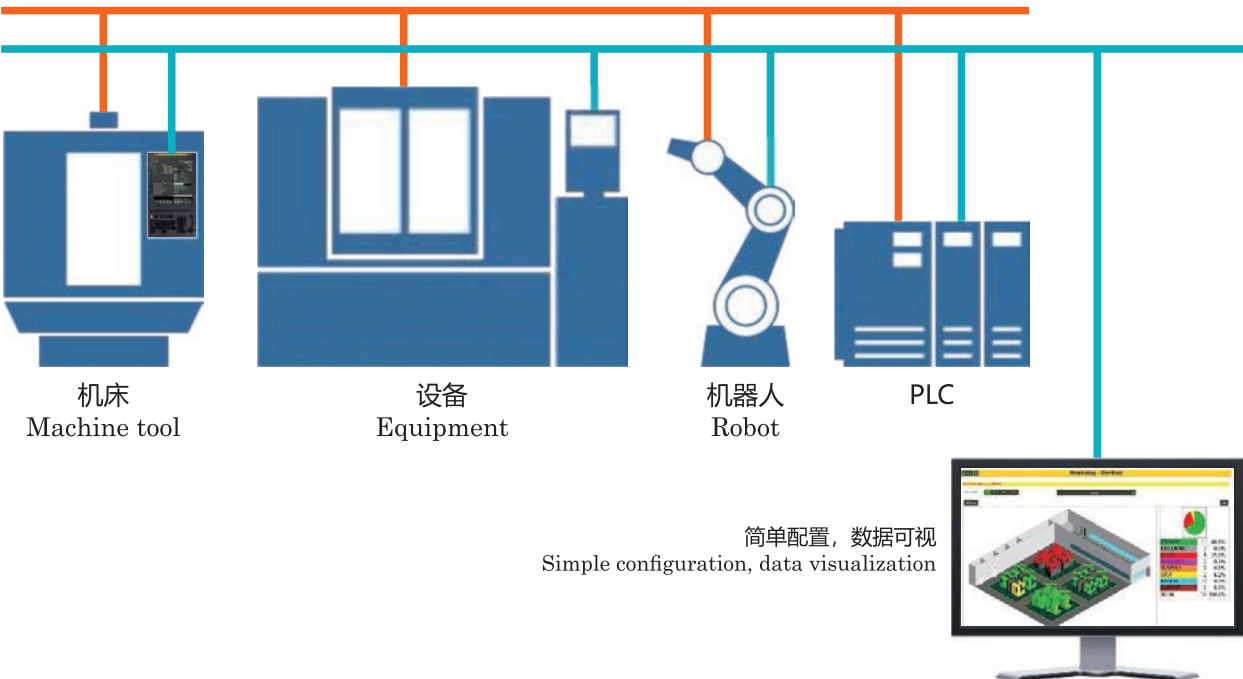


智能制造

便利的IoT扩展
囊括全部主流协议

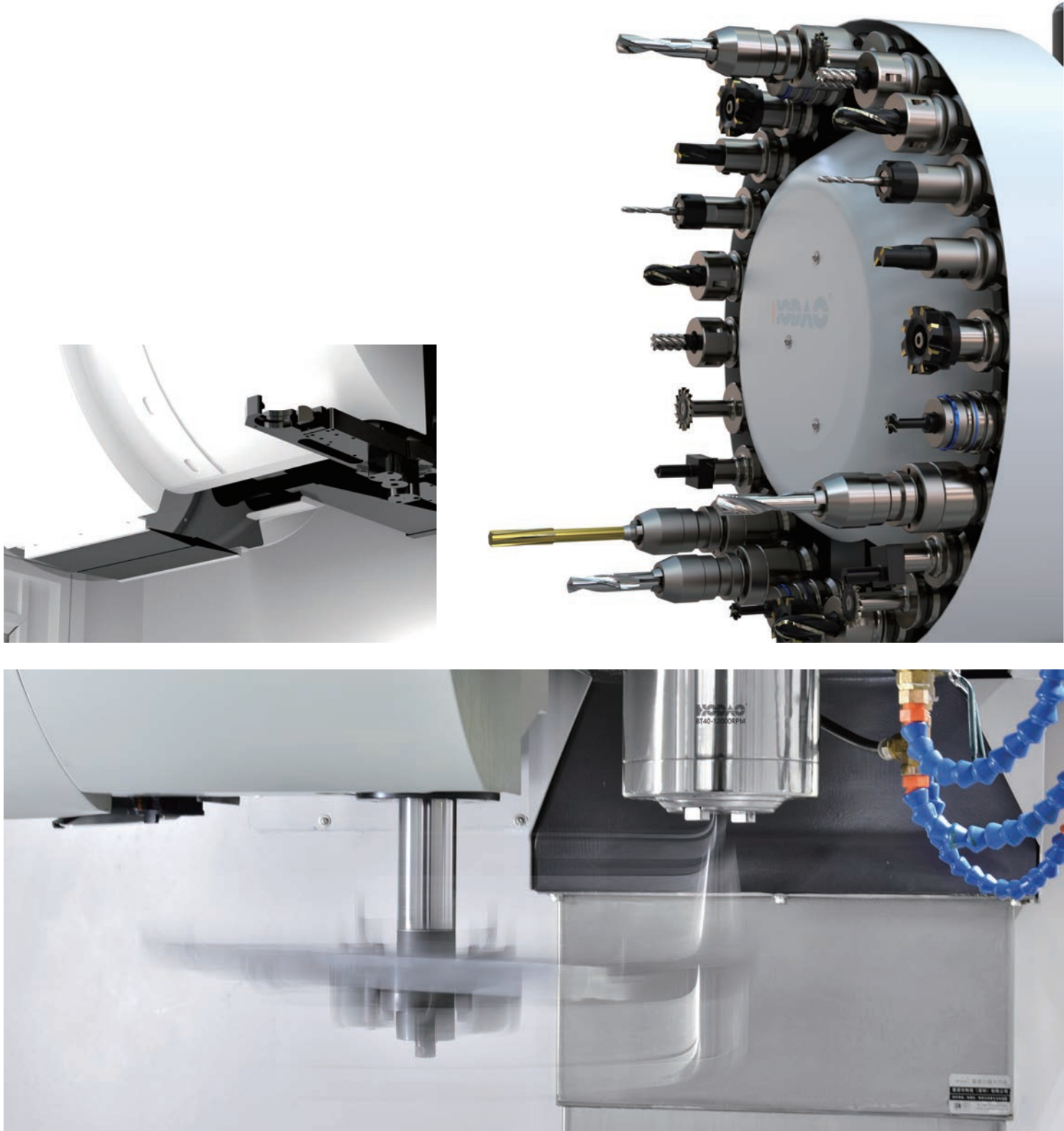
Smart manufacturing

Convenient IoT expansion
Include all mainstream agreements



快速可靠ATC刀库

Fast and reliable ATC tool magazine

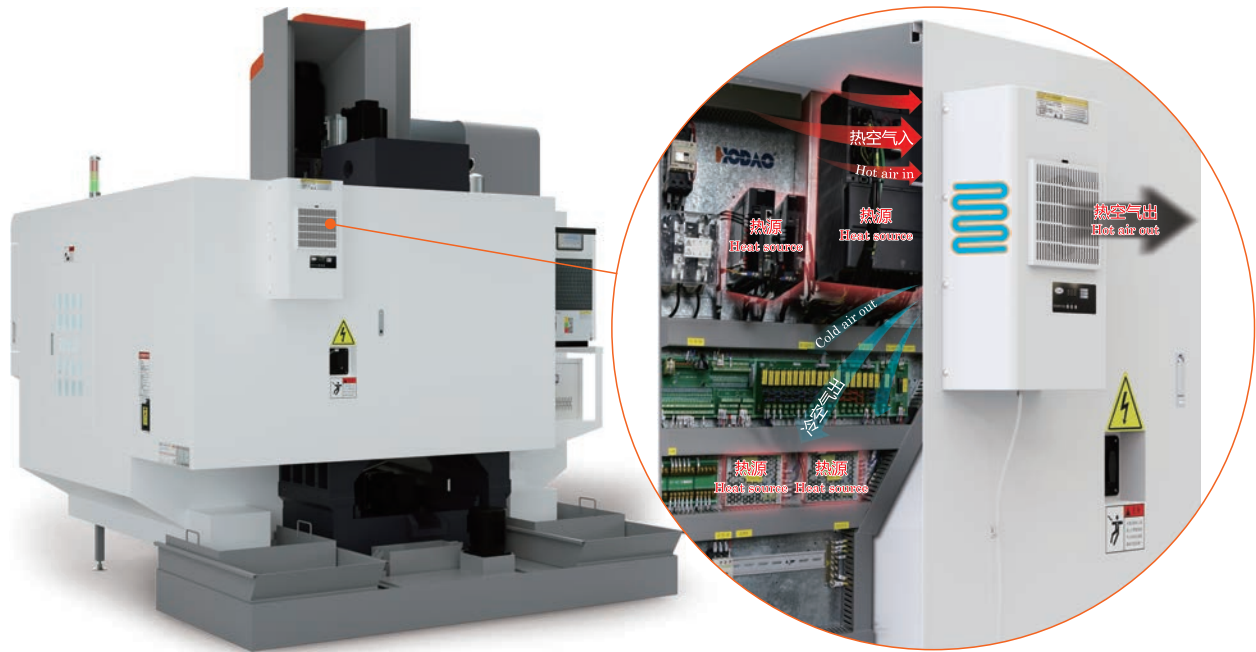


电柜空调

VF系列标配 、EV系列选配“电柜空调”
防止灰尘、油雾、湿气进入电柜内部，电子控温，保持电柜恒温，提高整机工作效能与电子元件寿命！
除性能优越外，更用心守护机台的寿命与稼动率。

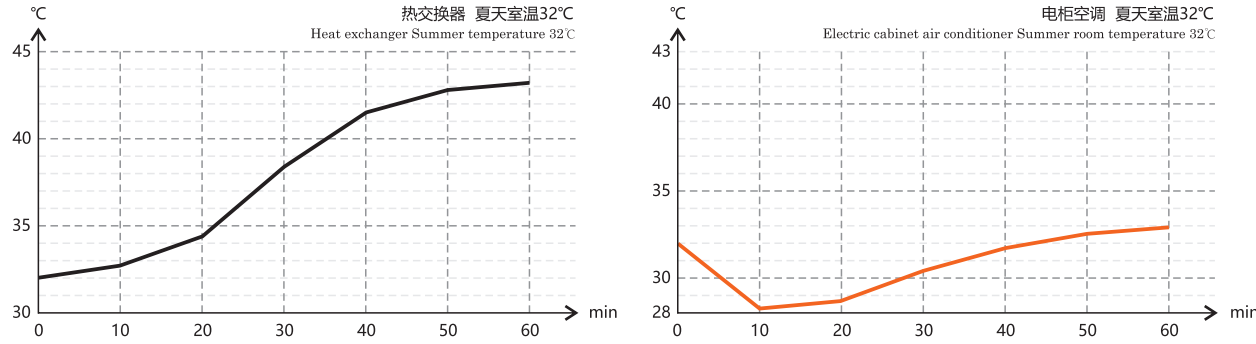
Electric cabinet air conditioner

VF series standard configuration,EV series optional "electric cabinet air conditioner"
Prevent dust, oil mist and moisture from entering the interior of the electric cabinet, electronically control the temperature, keep the temperature of the electric cabinet constant, improve the working efficiency of the whole machine and the life of the electronic components!
In addition to superior performance, it also protects the life and utilization rate of the machine.



热交换器与电柜空调对比实测

Comparison between heat exchanger and electric cabinet air conditioner



床身设计

机身与鞍座采用山型肋骨强化，力流线最短，确保最佳机体刚性。基于出色的工程设计，加工中心底座及立柱的加强筋可以抗扭、减震，并把切削震动转移至非切削区域。立柱使用扭矩管的设计，可以提供出色的刚性和抗弯、抗扭性能。超宽底座设计，同时降低底座重心，将机床重心调至最佳稳定高度。立柱底部跨距加宽，提升机床的稳定性。

Structuer

The fuselage and saddle are reinforced with mountain ribs, and the force flow line is the shortest to ensure the best rigidity. Based on excellent engineering design, the ribs of the machining center base and column can resist torsion, shock absorption and transfer cutting vibration to the non-cutting area. The column uses a torque tube design that provides excellent rigidity and resistance to bending and torsion. The ultra-wide base design reduces the center of gravity of the base and adjusts the center of gravity of the machine to the optimum stable height. The bottom of the column is widened to increase the stability of the machine.

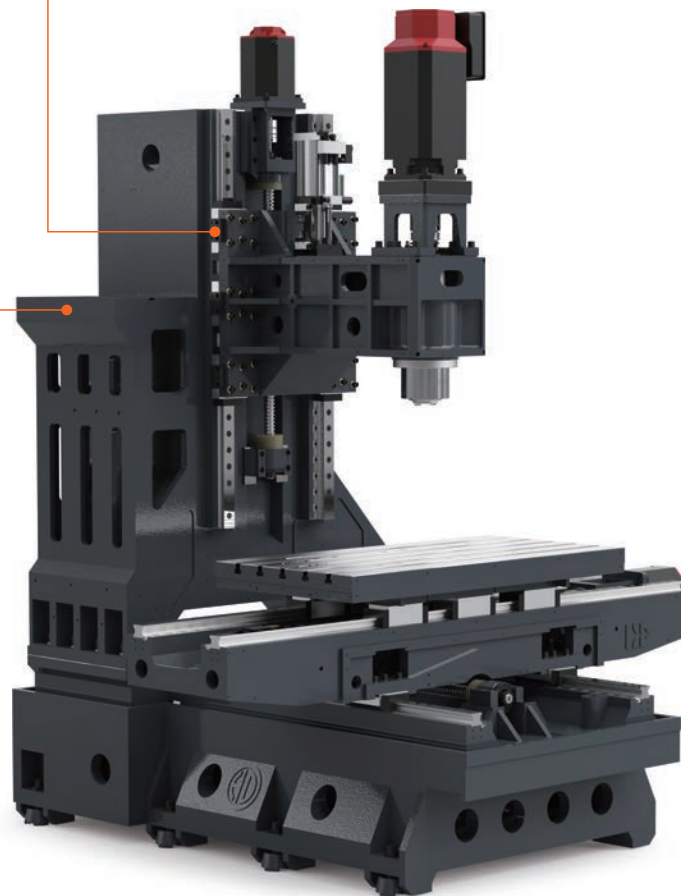
三轴滚柱导轨，Z轴六滑块设置；
高刚性切削能力。

Three-axis roller guide, Z-axis and
six-slider setting; High rigidity
cutting ability.



大立柱肩坐式界面更加稳定承载刀库

Large column shoulder sitting interface is more stable to carry the tool magazine



刚性强化、稳定性提升

Rigid reinforcement and stability improvement

主轴头

主轴与立柱接触长度比例适当，提供主轴稳定支撑。主轴头内置独立冷却系统，持续稳定主轴头热量在合理范围，减小了主轴热延伸，确保加工精度。

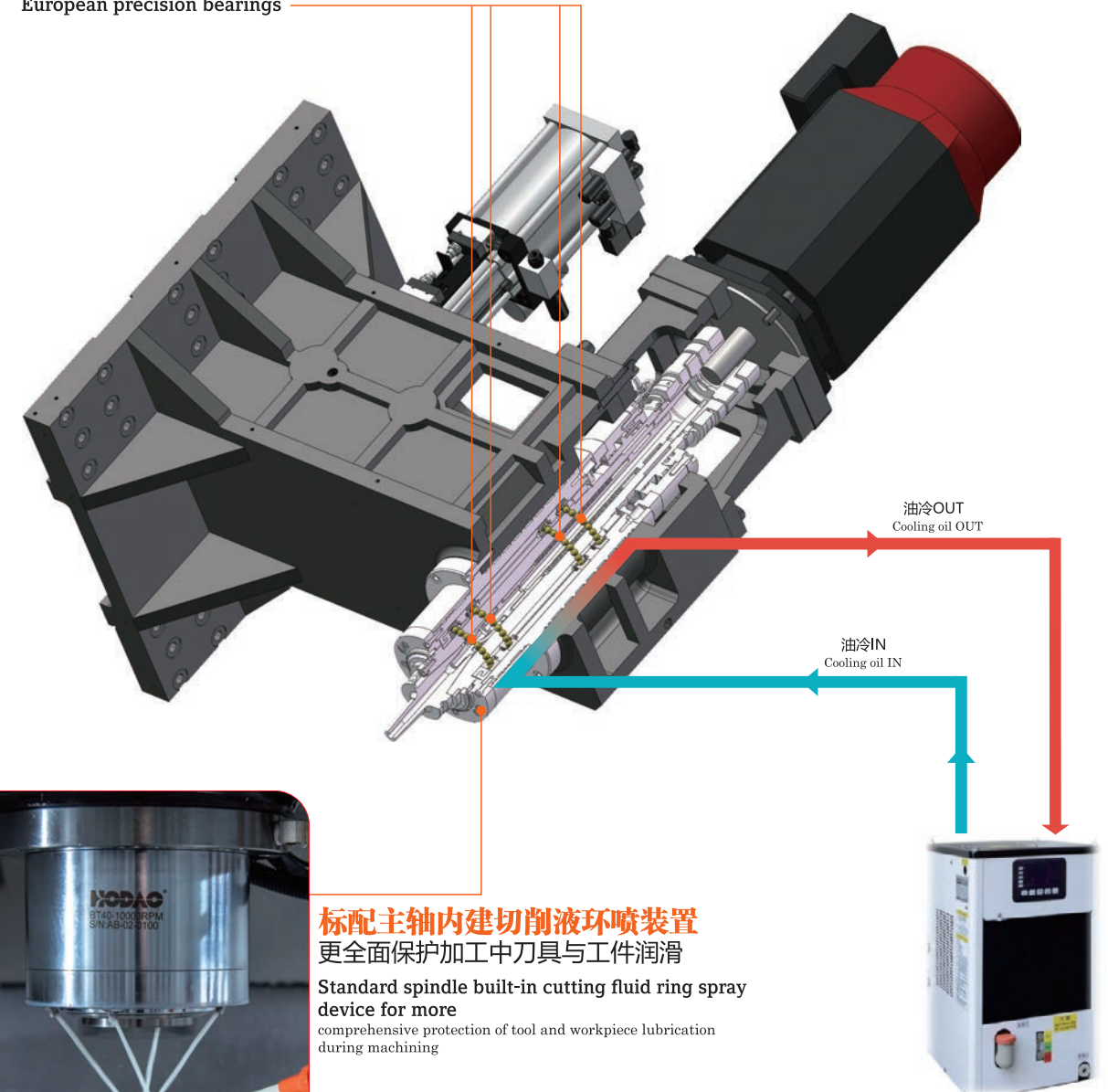
Spindle head

The contact length ratio between the spindle and the column is appropriate to provide stable support for the spindle.

The spindle head has a built-in independent cooling system, which continuously stabilizes the heat of the spindle head in a reasonable range, reduces the thermal extension of the spindle, and ensures machining accuracy.

BT40高速主轴配置业界最高标准-4颗大O排列轴径70mm-7014欧系精密轴承

BT40 high-speed spindle configuration industry's highest standard 4 large O array shaft diameter 70mm-7014 European precision bearings



标配主轴内建切削液环喷装置

更全面保护加工中刀具与工件润滑

Standard spindle built-in cutting fluid ring spray device for more comprehensive protection of tool and workpiece lubrication during machining

标配高效能主轴油冷机保障长时间高速运转

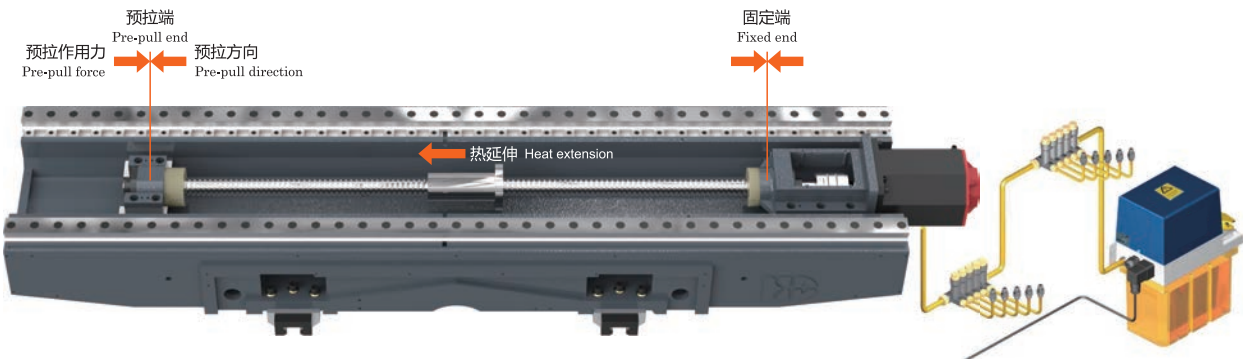
High-performance spindle oil cooler guarantees long-term high-speed operation

三轴预拉式滚珠丝杆

采用进口JIS-C3研磨级别预拉螺母丝杆，消除反向间隙，经热处理刚性高，耐磨损、抗扭力、使用寿命超长，保障了机台的加工高精度，并采用进口精密型容积式注油机更加确保轴向进给机构润滑效果。

Three-axis pre-pull ball screw

Imported JIS-C3 grinding grade pre-tensioned nut screw to eliminate backlash, high heat resistance, wear resistance, torsion resistance and long service life, ensuring high precision machining of the machine and adopting imported precision volume The oil filling machine ensures the lubrication of the axial feed mechanism.



复合型精密空压元件

确保进入机床部件的气源洁净与压力检出，更加可靠控制空压阀动作，增加水滴分离器更能排除外部来源水气。

Composite precision air compressor

Ensure clean air supply and pressure detection of machine components, more reliable control of air pressure valve action, increase water droplet separator to eliminate external source moisture.

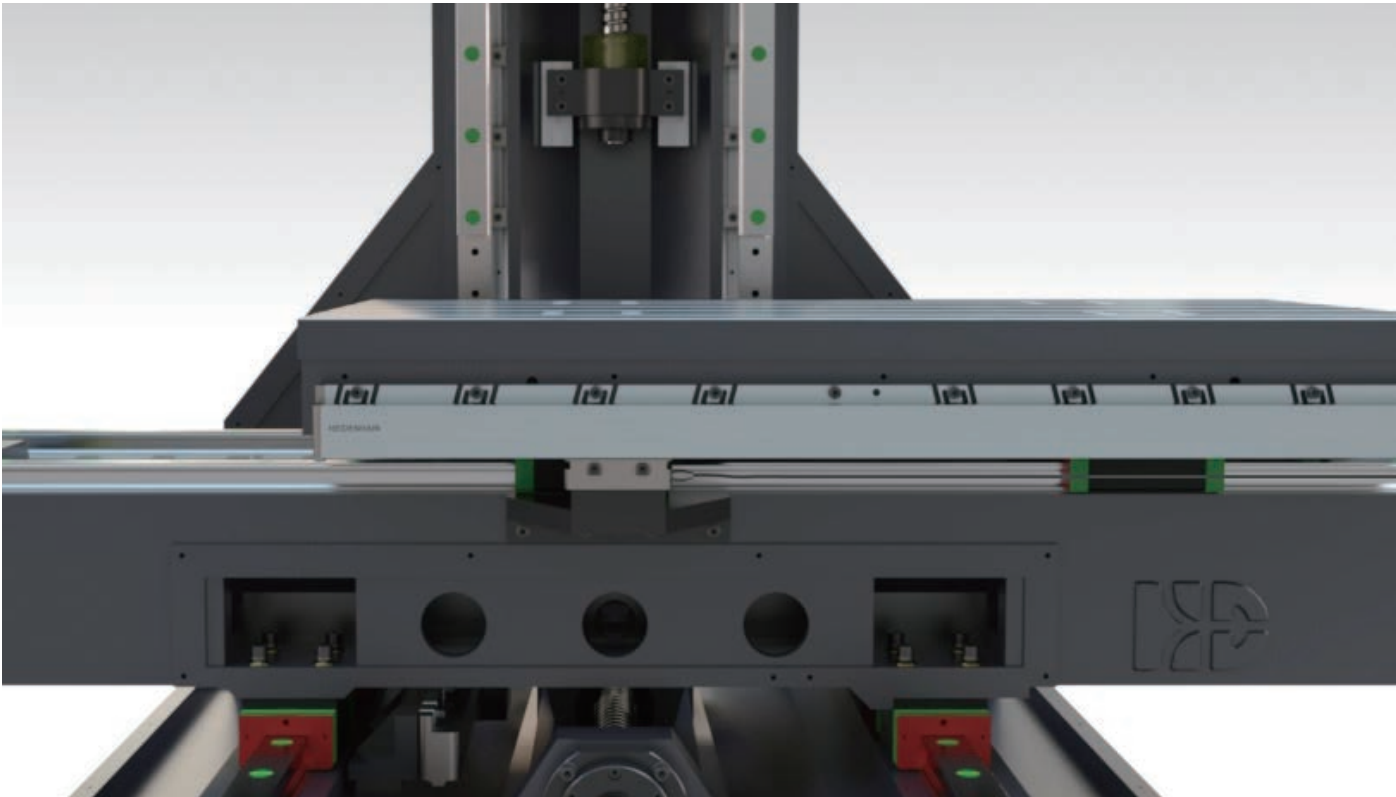


钢片式零背隙联轴器

三轴+主轴均采用原装进口MIKI联轴器。保证了电机与丝杆之间的良好同心度，缓冲减振，零背隙。

MIKI Coupling

Three-axis + spindle adopts imported MIKI couplings. It guarantees good concentricity between the motor and the screw, cushions vibration and has zero backlash.



选配海德汉绝对式直线光栅尺

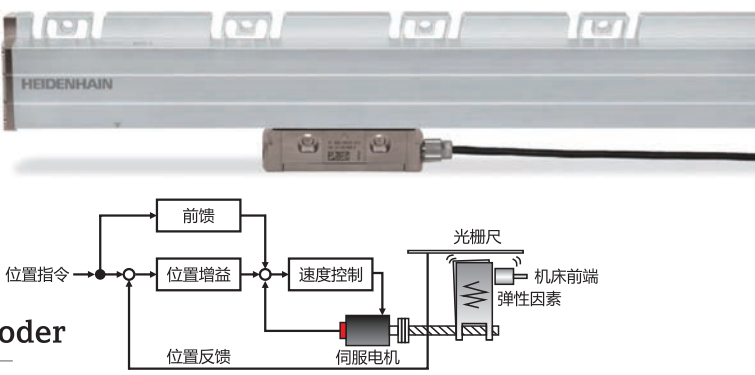
精度等级 $\pm 5 \mu m$ / 分辨率 $0.0125 \mu m$

在如此高解析度的定位下，另一方面同时确保机床得到更长久的精度寿命！

Optional HEIDENHAIN absolute linear encoder

Accuracy grade $\pm 5 \mu m$ / resolution $0.0125 \mu m$

With such a high-resolution positioning, on the other hand, it also ensures that the machine tool has a longer precision life!

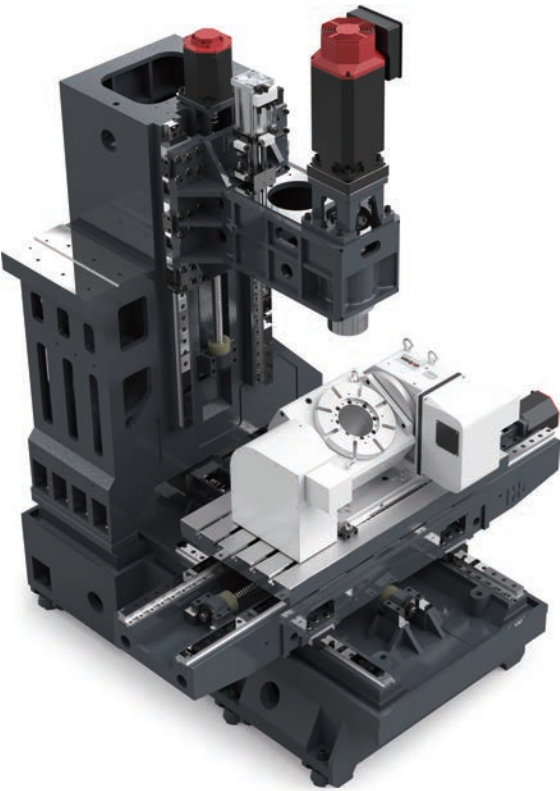


选配五轴/四轴转台

刚性强、盘面变形较小、高齿深、大模数、适合重切削加工；主心轴与三片式径轴向轴承为一体；高齿深大模数双导程蜗杆/蜗轮组；全周边采用O型环密封处理，转台不易进水。

Optional 5-axis / 4-axis turntable

Strong rigidity, small disc deformation, high tooth depth, large modulus, suitable for heavy cutting processing;The main mandrel is integrated with the three-piece radial bearing;High tooth depth and large modulus dual lead worm/worm gear set;The entire periphery is sealed with O-rings, which makes it difficult for water to enter the turntable.





转向节 Steering knuckle



泵壳 Pump housing



汽车主轴架 Car spindle frame



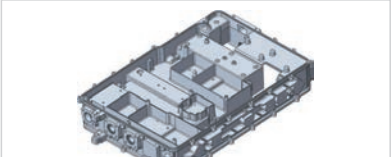
模架 Formwork



液压件 Hydraulic parts



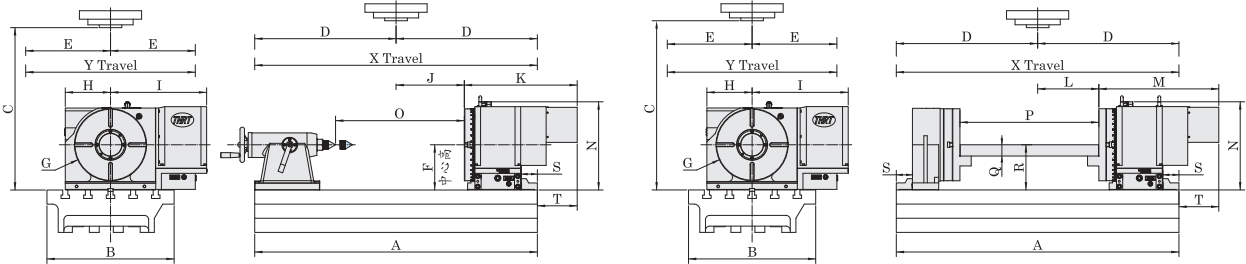
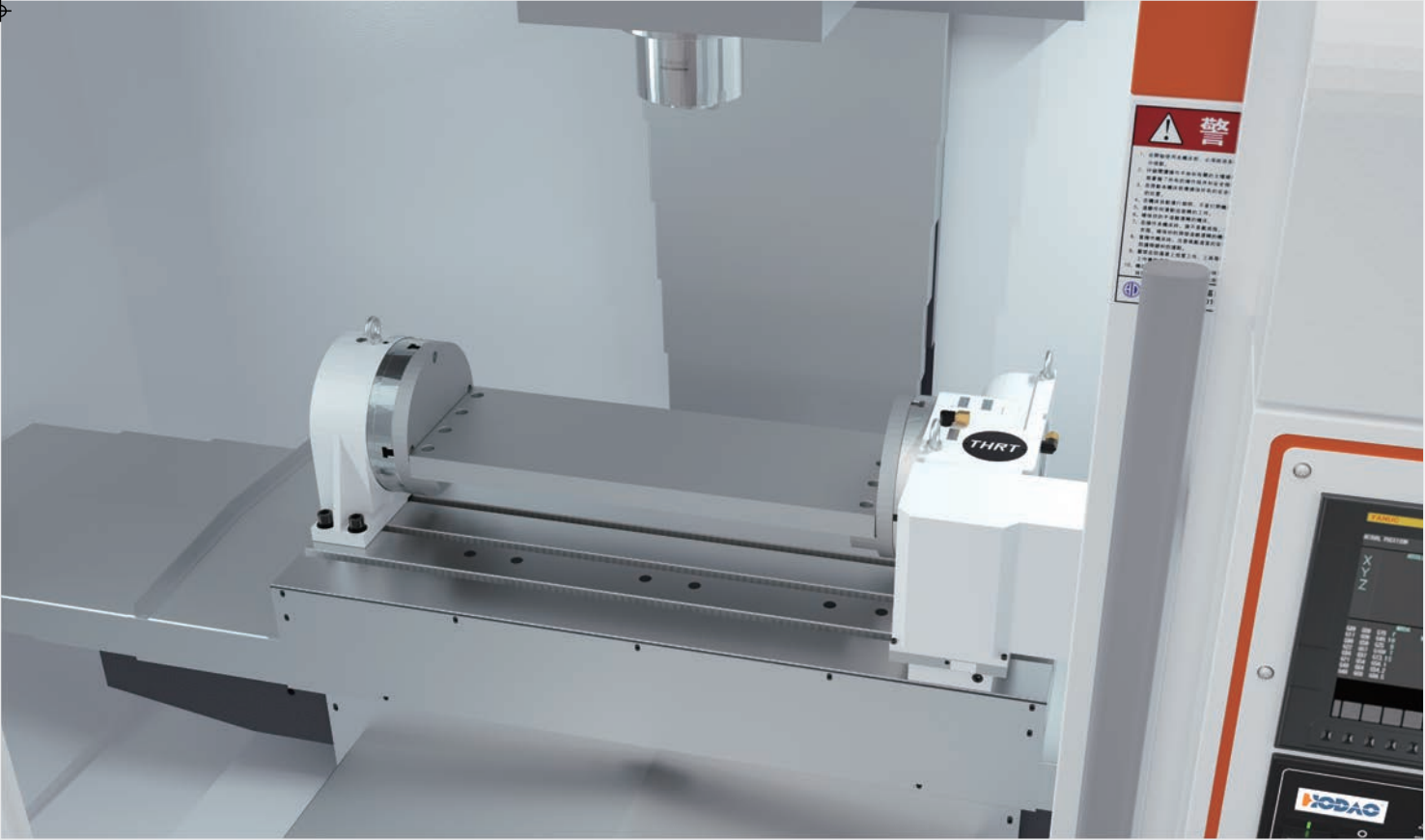
机床部件 Machine parts



5G通讯件 5G communication



压铸件 Die Casting



第四轴安装尺寸
Fourth axis installation size

Unit: mm

	HD-VF85 HR255D	HD-VF85+ HR255D	HD-VF116 HR255D	HD-VF116+ HR255D
A	1100	1100	1200	1200
B	600	600	600	600
C	120-670	120-670	120-720	120-720
D	500	500	550	550
E	300	300	300	300
F	160	160	160	160
G	ø255	ø255	ø255	ø255
H	160	160	160	160
I	340	340	340	340
J	293	293	343	343
K	398	398	398	398
L	268	268	318	318
M	423	423	423	423
N	312	312	312	312
O	557	557	657	657
P	593	593	693	693
Q	45	45	45	45
R	165	165	165	165
S	57	57	57	57
T	141	141	141	141

技术参数

本公司不断进行研发改良，规格参数可能会在未经通知的情况下变更，本参数表仅供参考，应以实际产品为准。

Technical Parameters

Our company is constantly developing and improving, the specification parameters may be changed without notice, this parameter list is for reference only, should be based on the actual product.

主要参数				HD-VF85	HD-VF857	HD-VF1057
行程	Travel	X/Y/Z	mm	800/550/550	800/550/700	1000/550/700
工作台尺寸	Work table dimension		mm	1000×550	1260×550	1260×550
T型槽	T-slot		mm	5-18T×90	5-18T×90	5-18T×90
工作台最大承重	Maximum load		kg	600	600	600
工作台到主轴端面	Distance from spindle nose to table		mm	120-670	150-850	150-850
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm	590	590	650

主轴				HD-VF85	HD-VF857	HD-VF1057
锥度	Taper		-	BT40	BT40	BT40
转速	Rotating speed		rpm	12000 / *10000	12000 / *10000	12000 / *10000
FANUC 电机功率	Motor power		kW	11/15	11/15	15/18.5
MITSUBISHI 电机功率	Motor power		kW	7.5/11/15	7.5/11/15	11/15/18.5

三轴					HD-VF85	HD-VF857	HD-VF1057
FANUC 电机功率	Motor power	X/Y/Z	kW		1.8/1.8/3.0	1.8/1.8/3.0	1.8/1.8/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW		2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0
导轨规格	Rail specification	X/Y/Z	mm		滚柱[Roller]:35/45/45	滚柱[Roller]:35/45/45	滚柱[Roller]:35/45/45
滑块数量	Number of sliders	X/Y/Z	Pc		4/4/6	4/4/6	6/4/6
丝杆规格	Screw size		mm		JIS C3: Φ40	JIS C3: Φ40	JIS C3: Φ40
G01 进给速度	G01 Feed rate		mm/min		1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min		48/48/48	48/48/48	48/48/48
定位精度	Positional accuracy		mm		±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm		±0.003/300	±0.003/300	±0.003/300

刀库				HD-VF85	HD-VF857	HD-VF1057
机械手刀库	Manipulator library		pce.	24	24(*32/32×2)	24(*32/32×2)
换刀时间	Time for changing tool cutter		s	1.3-1.8	1.3-1.8	1.3-1.8
最大刀具长度	Max tool length		mm	300	300	300
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	78	78
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	120	120
最大刀具重量	Maximum weight of tool cutter		kg	8	8	8

其它				HD-VF85	HD-VF857	HD-VF1057
机床重量	Machine weight		t	5.2	5.7	5.7
电力需求	Power demand		kVA	20	20	20
气压需求	Pressure demand		kgf/cm²	6	6	6
外观尺寸	Outline dimension		mm	2580×2740×2943	2680×2740×3120	3000×2740×3120

* 选配
* Optional



主要参数				HD-VF116	HD-VF1165	HD-VF1265
行程	Travel	X/Y/Z	mm	1100/600/600	1100/650/600	1200/650/600
工作台尺寸	Work table dimension		mm	1200×600	1200×600	1300×600
T型槽	T-slot		mm	5-18T×100	5-18T×100	5-18T×100
工作台最大承重	Maximum load		kg	800	800	800
工作台到主轴端面	Distance from spindle nose to table		mm	120-720	120-720	120-720
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm	650	697	697

主轴				HD-VF116	HD-VF1165	HD-VF1265
锥度	Taper		-	BT40	BT40	BT40
转速	Rotating speed		rpm	12000 / *10000	12000 / *10000	12000 / *10000
FANUC 电机功率	Motor power		kW	11/15/18.5	11/15/18.5	11/15/18.5
MITSUBISHI 电机功率	Motor power		kW	11/15/18.5	11/15/18.5	11/15/18.5

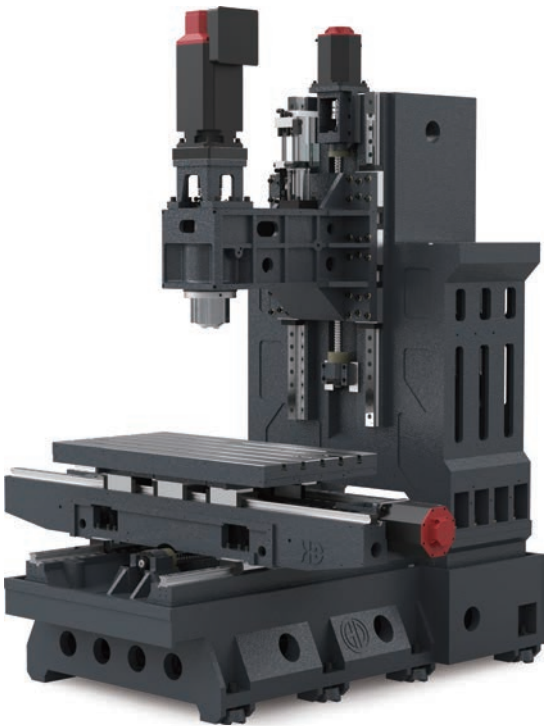
三轴					HD-VF116	HD-VF1165	HD-VF1265
FANUC 电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
导轨规格	Rail specification	X/Y/Z	mm		滚柱[Roller]:45/45/45	滚柱[Roller]:45/45/45	滚柱[Roller]:45/45/45
滑块数量	Number of sliders	X/Y/Z	Pc		6/4/6	6/4/6	6/4/6
丝杆规格	Screw size		mm		JIS C3: Φ40	JIS C3: Φ40	JIS C3: Φ40
G01 进给速度	G01 Feed rate		mm/min		1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min		36/36/30	36/36/30	36/36/30
定位精度	Positional accuracy		mm		±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm		±0.003/300	±0.003/300	±0.003/300

刀库				HD-VF116	HD-VF1165	HD-VF1265
机械手刀库	Manipulator library		pce.	24	24	24
换刀时间	Time for changing tool cutter		s	1.3-1.8	1.3-1.8	1.3-1.8
最大刀具长度	Max tool length		mm	300	300	300
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	78	78
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	120	120
最大刀具重量	Maximum weight of tool cutter		kg	8	8	8

其它				HD-VF116	HD-VF1165	HD-VF1265
机床重量	Machine weight		t	6.8	6.8	7.0
电力需求	Power demand		kVA	30	30	30
气压需求	Pressure demand		kgf/cm²	6	6	6
外观尺寸	Outline dimension		mm	3120×2930×3034	3120×2930×3034	3120×2930×3034

高刚性立加工中心

High rigid VMC



HD-VF116+ 直联样式
HD-VF116+ Direct-drive style



技术参数

本公司不断进行研发改良，规格参数可能会在未经通知的情况下变更，本参数表仅供参考，应以实际产品为准。

Technical Parameters

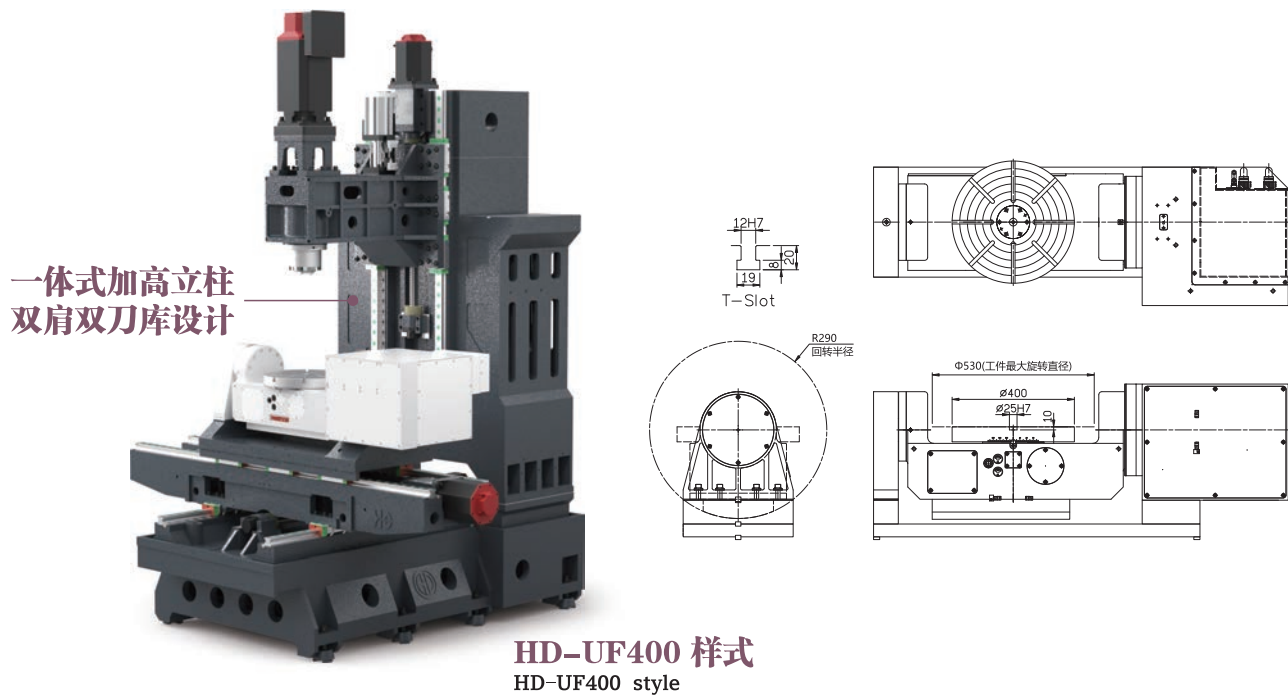
Our company is constantly developing and improving, the specification parameters may be changed without notice, this parameter list is for reference only, should be based on the actual product.

主要参数				The main parameters	HD-VF85+	HD-VF116+
行程	Travel	X/Y/Z	mm		800/550/550(700)	1100/600/600
工作台尺寸	Work table dimension		mm		1000×550	1200×600
T型槽	T-slot		mm		5-18TC90	5-18T×100
工作台最大承重	Maximum load		kg		600	800
工作台到主轴端面	Distance from spindle nose to table		mm		120-670(150-850)	120-720
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm		590	650
主轴				Spindle	HD-VF85+	HD-VF116+
锥度	Taper		-		BT40	BT40
转速	Rotating speed		rpm		12000 / *10000	12000 / *10000
FANUC 电机功率	Motor power		kW		11/15/18.5	11/15/18.5
MITSUBISHI 电机功率	Motor power		kW		11/15/18.5	11/15/18.5
三轴				Three-axis	HD-VF85+	HD-VF116+
FANUC 电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0	3.0/3.0/3.0
导轨规格	Rail specification	X/Y/Z	mm		滚柱[Roller]:35/45/45	滚柱[Roller]:45/45/45
滑块数量	Number of sliders	X/Y/Z	Pc		4/4/6	6/4/6
丝杆规格	Screw size		mm		JIS C3: Φ40	JIS C3: Φ40
G01 进给速度	G01 Feed rate		mm/min		1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min		48/48/48	36/36/30
定位精度	Positional accuracy		mm		±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm		±0.003/300	±0.003/300
刀库				Tool magazine	HD-VF85+	HD-VF116+
机械手刀库	Manipulator library		pce.		24(*32/32×2)	24(*32/32×2)
换刀时间	Time for changing tool cutter		s		1.3-1.8	1.3-1.8
最大刀具长度	Max tool length		mm		300	300
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm		78	78
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm		120	120
最大刀具重量	Maximum weight of tool cutter		kg		8	8
其它				Other	HD-VF85+	HD-VF116+
机床重量	Machine weight		t		5.4	7
电力需求	Power demand		kVA		30	30
气压需求	Pressure demand		kgf/cm ²		6	6
外观尺寸	Outline dimension		mm		2580×2764×2943	3120×2930×3034

* 选配
* Optional

五轴加工中心

Five axis machining center



技术参数

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Technical Parameters

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* 选配
* Optional

主要参数				The main parameters		HD-UF400
行程		Travel	X/Y/Z	mm		900/600/600
工作台到主轴端面		Distance from spindle nose to table		mm		66-666
主轴中心至Z轴导轨面		Distance from the center of the spindle to the vertical column		mm		672
主轴锥度		Spindle Taper		-		BT40
主轴转速		Spindle Rotating speed		rpm		12000 / *10000
主轴电机功率		Spindle Motor power		kW		11/15/18.5
机械手刀库		Manipulator library		pce.		32(*24/32×2)

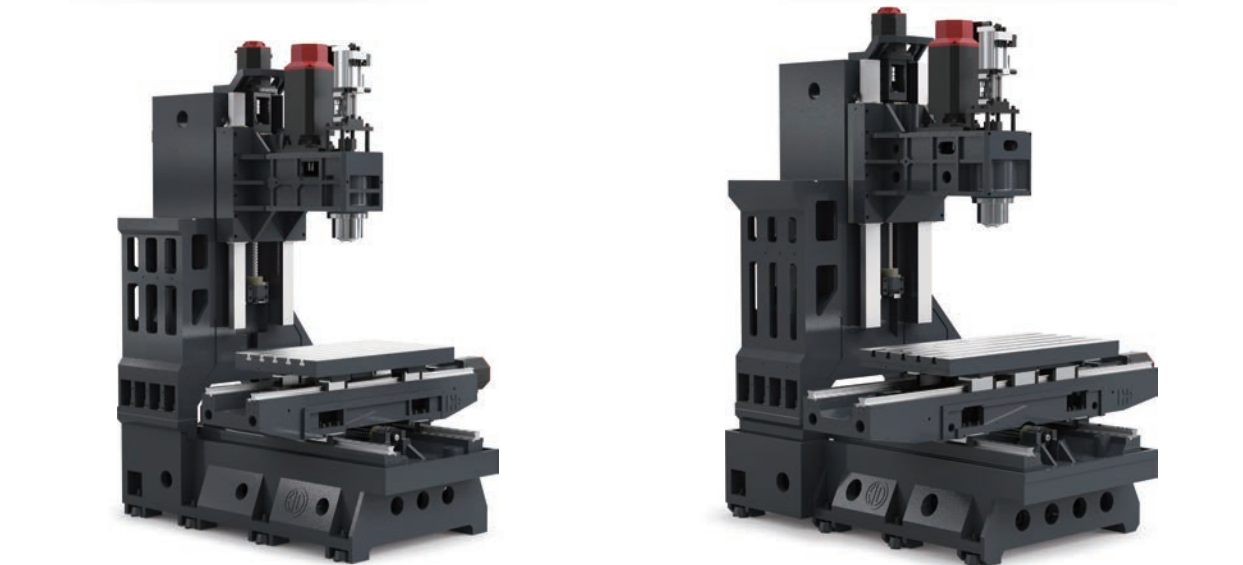
三轴				Three-axis		HD-UF400
FANUC	电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0
MITSUBISHI	电机功率	Motor power	X/Y/Z	kW		3.0/3.0/3.0
导轨规格		Rail specification	X/Y/Z	mm		滚柱[Roller]:45/45/45
滑块数量		Number of sliders	X/Y/Z	Pc		6/4/6
丝杆规格		Screw size	X/Y/Z	mm		JIS C3: Φ40
G01 进给速度		G01 Feed rate		mm/min		1-10000
G00 快移速度		G01 Rapid traverse speed	X/Y/Z	m/min		36/36/30
定位精度		Positional accuracy		mm		±0.005/300
重复精度		Repeated positioning accuracy		mm		±0.003/300

转台规格				Rotary table specifications		HD-UF400
转盘直径		wheel diameter		mm		400
转盘中心孔直径		Diameter of the center hole of the turntable		mm		无
盘面T型槽尺寸		Size of T-shaped groove on the disk surface		mm		12T*8均布
最大承重		Max load		kg		水平150，倾斜85
回转角度		Rotation angle		Degree		回转C轴:360°；倾斜A轴:+40°~120°
最大回转速度		Maximum rotation speed		rpm		回转C轴:22.2；倾斜A轴:16.6
最小设定单位		Minimum setting unit		Degree		0.001°
分割精度		Segmentation accuracy		spec.		回转C轴:15"；倾斜A轴:45"
重复精度		Repeated positioning accuracy		spec.		回转C轴:6"；倾斜A轴:8"

其它				Other		HD-UF400
机床重量		Machine weight		kg		6800
电力需求		Power demand		kVA		30
气压需求		Pressure demand		kgf/cm ²		6
外观尺寸		Outline dimension		mm		3200×3713×3247

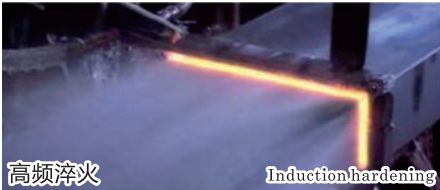
泛用型两线一硬立加

Universal z-axis box way VMC



HD-VL85 皮带样式
HD-VL85 Belt style

HD-VL116 皮带样式
HD-VL116 Belt style



高频淬火 Induction hardening



精密研磨 Precision grinding



传统刮花 Scratch

技术参数

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Technical Parameters

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* 选配
* Optional

主要参数				HD-VL85	HD-VL116	HD-V11L
行程	Travel	X/Y/Z	mm	800/550/550	1100/600/600	1100/600/600
工作台尺寸	Work table dimension		mm	1000×550	1200×600	1200×600
T型槽	T-slot		mm	5-18T×90	5-18T×100	5-18T×100
工作台最大承重	Maximum load		kg	600	800	800
工作台到主轴端面	Distance from spindle nose to table		mm	120-670	120-720	120-720
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm	589	650	650

主轴				HD-VL85	HD-VL116	HD-V11L
锥度	Taper		-	BT40	BT40	BT50
转速	Rotating speed		rpm	10000 / *12000	10000 / *12000	8000
FANUC 电机功率	Motor power		kW	7.5/11/15	11/15/18.5	15/18.5
MITSUBISHI 电机功率	Motor power		kW	7.5/11/15	11/15/18.5	15/18.5

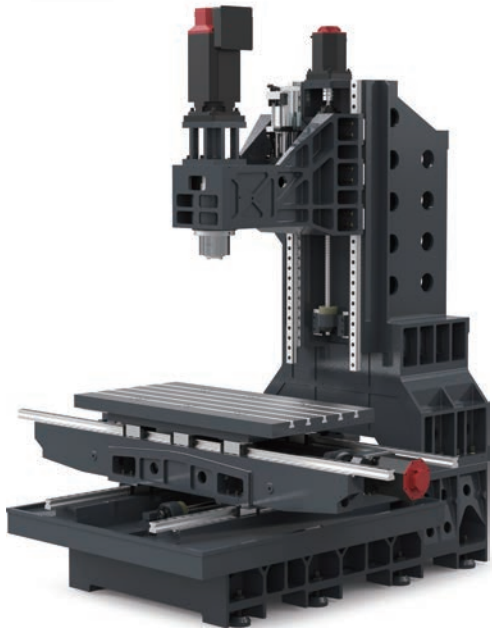
三轴				HD-VL85	HD-VL116	HD-V11L
FANUC 电机功率	Motor power	X/Y/Z	kW	1.8/1.8/3.0	3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW	2.0/2.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
导轨规格	Rail specification	X/Y/Z	mm	滚柱[Roller]:35/45/硬轨[Box Way]	滚柱[Roller]:45/45/硬轨[Box Way]	滚柱[Roller]:45/45/硬轨[Box Way]
滑块数量	Number of sliders	X/Y/Z	Pc	4/4/硬轨[Box Way]	6/4/硬轨[Box Way]	6/4/硬轨[Box Way]
丝杆规格	Screw size		mm	JIS C3: Φ40	JIS C3: Φ40	JIS C3: Φ40
G01 进给速度	G01 Feed rate		mm/min	1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	48/48/30	36/36/30	30/30/20
定位精度	Positional accuracy		mm	±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm	±0.003/300	±0.003/300	±0.003/300

刀库				HD-VL85	HD-VL116	HD-V11L
机械手刀库	Manipulator library		pce.	24	24	24
换刀时间	Time for changing tool cutter		s	1.3-1.8	1.3-1.8	3-4
最大刀具长度	Max tool length		mm	300	300	350
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	78	115
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	120	228
最大刀具重量	Maximum weight of tool cutter		kg	8	8	15

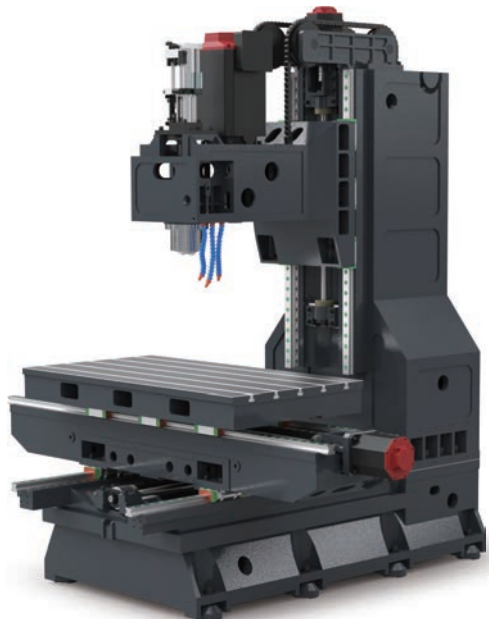
其它				HD-VL85	HD-VL116	HD-V11L
机床重量	Machine weight		t	5.5	7.2	8
电力需求	Power demand		kVA	20	30	30
气压需求	Pressure demand		kgf/cm ²	6	6	6
外观尺寸	Outline dimension		mm	2580×2764×3223	3120×2930×3326	3180×2970×3040

大行程立式加工中心

Large stroke vertical machining center



HD-VF127 直联样式
HD-VF138 Direct-drive style



HD-VF138 皮带样式
HD-VF138 Belt style

技术参数

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Technical Parameters

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主要参数				HD-VF127	HD-VF137	HD-VF138	HD-V127L
行程	Travel	X/Y/Z	mm	1200/700/700	1300/700/700	1300/800/700	1200/700/610
工作台尺寸	Work table dimension		mm	1400×700	1400×700	1500×800	1400×700
T型槽	T-slot		mm	5-18T×110	5-18T×110	5-18T×145	5-18T×145
工作台最大承重	Maximum load		kg	1000	1000	900	900
工作台到主轴端面	Distance from spindle nose to table		mm	150-850	150-850	140-840	150-760
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm	759	759	845	750

主轴				HD-VF127	HD-VF137	HD-VF138	HD-V127L
锥度	Taper		-	BT40	BT40	BT40	BT50
转速	Rotating speed		rpm	10000/*12000	10000/*12000	10000/*12000	8000
FANUC 电机功率	Motor power		kW	11/15/18.5	11/15/18.5	11/15/18.5	15/18.5
MITSUBISHI 电机功率	Motor power		kW	11/15/18.5	11/15/18.5	11/15/18.5	15/18.5

三轴				HD-VF127	HD-VF137	HD-VF138	HD-V127L
FANUC 电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5
导轨规格	Rail specification	X/Y/Z	mm	滚柱:45/45/45	滚柱:45/45/45	滚柱:45/45/45	滚柱:45/45/硬轨
滑块数量	Number of sliders	X/Y/Z	Pc	6/4/6	6/4/6	6/4/6	6/4/硬轨
丝杆规格	Screw size		mm	JIS C3: Φ40	JIS C3: Φ40	JIS C3: Φ40	JIS C3: Φ40
G01 进给速度	G01 Feed rate		mm/min	1-10000	1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	30/30/30	30/30/30	30/30/20	24/24/15
定位精度	Positional accuracy		mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300

刀库				HD-VF127	HD-VF137	HD-VF138	HD-V127L
机械手刀库	Manipulator library		pce.	24	24	24	24
换刀时间	Time for changing tool cutter		s	1.3-1.8	1.3-1.8	1.3-1.8	3-4
最大刀具长度	Max tool length		mm	300	300	300	350
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	78	78	115
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	120	120	228
最大刀具重量	Maximum weight of tool cutter		kg	8	8	8	15

其它				HD-VF127	HD-VF137	HD-VF138	HD-V127L
机床重量	Machine weight		t	8.5	8.5	8.5	8.2
电力需求	Power demand		kVA	30	30	30	30
气压需求	Pressure demand		kgf/cm ²	6	6	6	6
外观尺寸	Outline dimension		mm	3410×3180×3556	3410×3180×3556	3800×3460×3040	3500×3200×3100

* 选配
* Optional

Y轴四轨立式加工中心

Y-axis 4-way vertical machining center



光机特性

- 1 高刚性主轴头设计配置主轴油冷功能
- 2 标准工作台表面淬火硬化+研磨处理
- 3 X轴六滑块支撑工作台动态平稳
- 4 三轴直连传动进给速度更快
- 5 超越同级产品的底座大跨距四轨设计
- 6 Z轴硬轨大跨距结构展现高刚性切削能力

Optical machine characteristics

- 1 High rigidity spindle head design with spindle oil cooling
- 2 Standard workbench surface hardening + grinding
- 3 X-axis six-slider support table dynamic and stable
- 4 Three-axis direct drive with faster feed rate
- 5 Large span four-track design beyond the base of the same class
- 6 Z-axis hard-rail large-span structure exhibits high rigidity cutting capability



HD-V158L 皮带样式
HD-V158L Belt style

技术参数

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Technical Parameters

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主要参数				HD-V158F	HD-V138L	HD-V158L	HD-V189L
行程	Travel	X/Y/Z	mm	1500/800/750	1300/800/750	1500/800/750	1800/900/730
工作台尺寸	Work table dimension		mm	1700×800	1500×800	1700×800	2000×900
T型槽	T-slot		mm	5-22T×145	5-22T×145	5-22T×145	5-22T×164
工作台最大承重	Maximum load		kg	1500	1500	1500	1800
工作台到主轴端面	Distance from spindle nose to table		mm	150-900	110-860	150-900	150-880
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm	871	860	871	950

主轴				HD-V158F	HD-V138L	HD-V158L	HD-V189L
锥度	Taper		-	BT40	BT50	BT50	BT50
转速	Rotating speed		rpm	10000 / *12000	8000	6000	6000
FANUC 电机功率	Motor power		kW	11/15/18.5	15/18.5	15/18.5	15/18.5
MITSUBISHI 电机功率	Motor power		kW	11/15/18.5	15/18.5	15/18.5	15/18.5

三轴				HD-V158F	HD-V138L	HD-V158L	HD-V189L
FANUC 电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI 电机功率	Motor power	X/Y/Z	kW	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5
导轨规格	Rail specification	X/Y/Z	mm	滚柱[Roller]: 55/45/55	滚柱[Roller]: 55/45/硬轨[Box Way]	滚柱[Roller]: 55/45/硬轨[Box Way]	滚柱[Roller]: 55/45/硬轨[Box Way]
滑块数量	Number of sliders	X/Y/Z	Pc	6/8/6	6/8/硬轨[Box Way]	6/8/硬轨[Box Way]	6/8/硬轨[Box Way]
丝杆规格	Screw size		mm	JIS C3: Φ50	JIS C3: Φ50	JIS C3: Φ50	JIS C3: Φ55
G01 进给速度	G01 Feed rate		mm/min	1-10000	1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	20/20/20	20/20/12	20/20/12	16/16/12
定位精度	Positional accuracy		mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300

刀库				HD-V158F	HD-V138L	HD-V158L	HD-V189L
机械手刀库	Manipulator library		pce.	24	24	24	24
换刀时间	Time for changing tool cutter		s	1.3-1.8	3-4	3-4	3-4
最大刀具长度	Max tool length		mm	300	350	350	350
最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	115	115	115
最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	228	228	228
最大刀具重量	Maximum weight of tool cutter		kg	8	15	15	15

其它				HD-V158F	HD-V138L	HD-V158L	HD-V189L
机床重量	Machine weight		t	11.2	10	12	14
电力需求	Power demand		kVA	30	30	30	30
气压需求	Pressure demand		kgf/cm²	6	6	6	6
外观尺寸	Outline dimension		mm	5350×3650×3210	4850×3720×3070	5350×3650×3210	6097×3400×3298

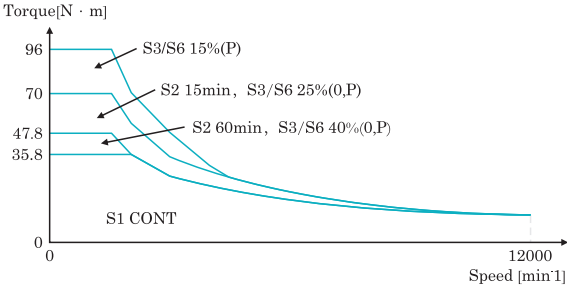
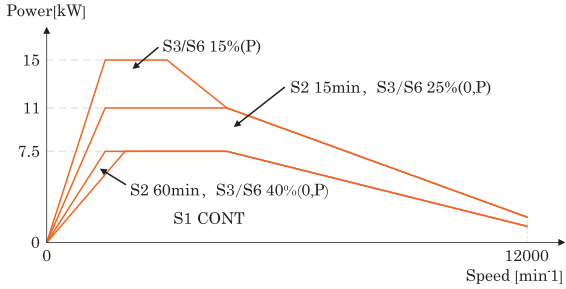
主轴电机特性

FANUC & MITSUBISHI 主轴电机功率/扭矩输出图

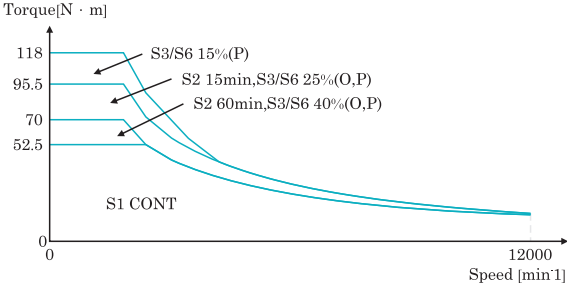
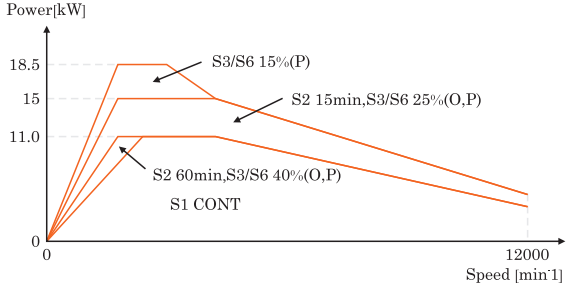
Spindle motor characteristics

FANUC & MITSUBISHI Spindle motor power/torque output diagram

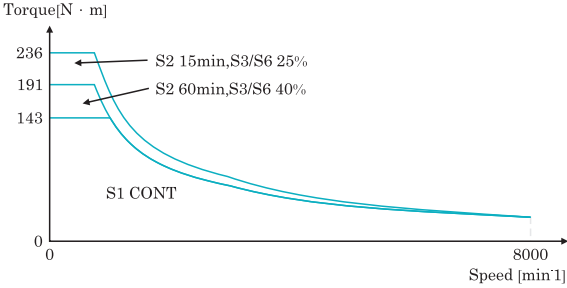
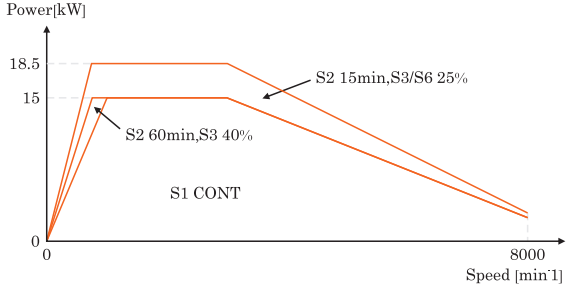
Spindle motor: βil 8/12000-B / SJ-DG7.5-120
Application model: BT40



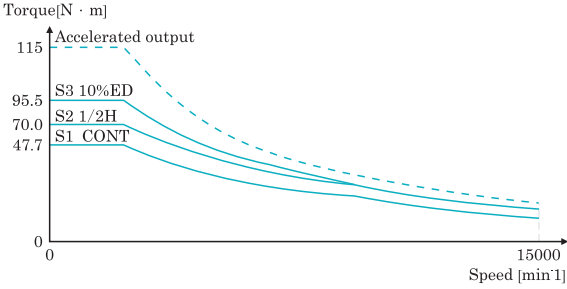
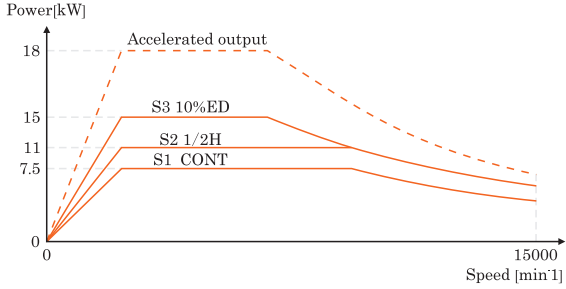
Spindle motor:βil 12/10000-B/12000-B / SJ-DG11-120
Application model: BT40



Spindle motor: βiP 30/8000-B / SJ-DM18.5-80
Application model: BT50



Spindle motor: ail 8/15000-B / SJ-DG11-150
Application model: BBT40 / HSK-A63



应用案例

模具加工

Applications

Mold processing

高速高精钻攻中心

Drilling Center

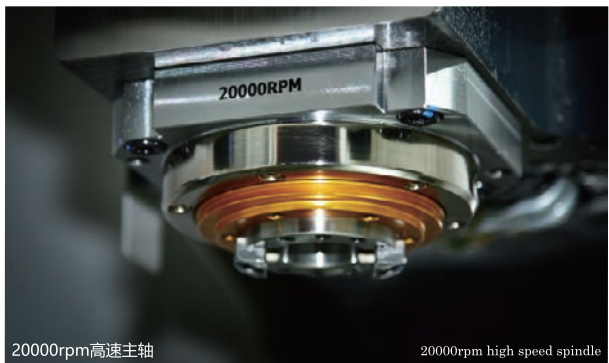


高效加工能力

媲美BT40小立加的切削扭力，兼具高速钻攻高效能产品加工能力！

Efficient processing capacity

It is comparable to the cutting torque of Bt40 small vertical machining center, and has the ability to process high-speed drilling and tapping high-performance products!



20000rpm高速主轴

20000rpm high speed spindle



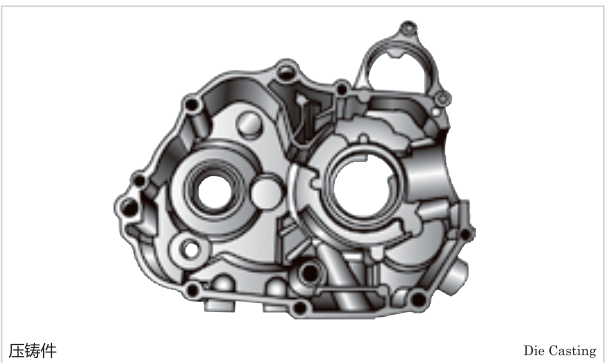
伺服电机快速换刀

Servo motor rapid tool change



5G通讯件

5G communication

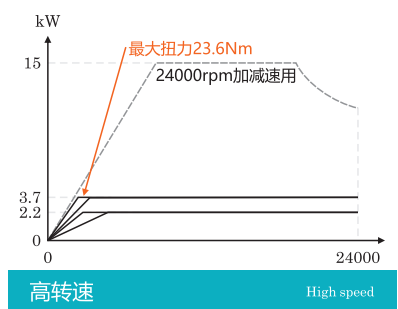
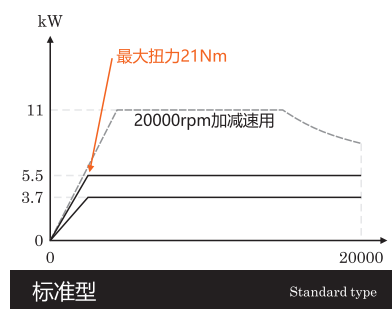
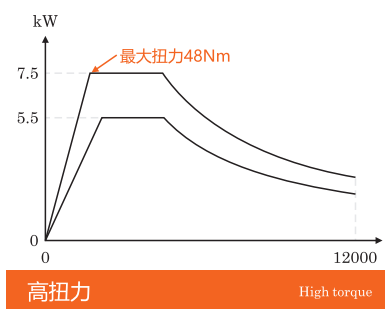


压铸件

Die Casting

主轴电机功率/扭力输出图

Spindle motor power/torque output diagram



技术参数

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Technical Parameters

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主要参数				The main parameters	HD-T640	HD-T850	HD-T1160	HD-T1365
行程		Travel	X/Y/Z	mm	600/420/330	800/500/450	1100/600/330	1300/650/450
工作台尺寸		Work table dimension		mm	700×420	1000×500	1100×600	1400×600
T型槽		T-slot		mm	3-14T×120	3-18T×102, 2-18T×82	5-18T×100	5-18T×100
工作台最大承重		Maximum load		kg	250	400	400	500
工作台到主轴端面		Distance from spindle nose to table		mm	150-480	120-570	150-480	150-600
主轴中心至Z轴导轨面		Distance from the center of the spindle to the vertical column		mm	460	546	-	705

主轴				Spindle	HD-T640	HD-T850	HD-T1160	HD-T1365
锥度		Taper		-	BT30	BT30	BT30	BT30
转速		Rotating speed		rpm	20000(*12000/*24000)	20000(*12000/*24000)	20000(*12000/*24000)	20000(*12000/*24000)
电机功率		Motor power		kW	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5

三轴				Three-axis	HD-T640	HD-T850	HD-T1160	HD-T1365
FANUC	电机功率		Motor power	X/Y/Z	kW	2.5/2.5/2.7	2.5/2.7/2.7	2.5/2.7/2.7
	电机功率		Motor power	X/Y/Z	kW	1.5/1.5/3.0	2.0/2.0/3.0	3.0/3.0/3.0
导轨规格		Rail specification	X/Y/Z	mm	30/30/30	35/35/35	35/35/35	45/45/45
滑块数量		Number of sliders		X/Y/Z	Pc	4/4/4	4/4/4	-
丝杆规格		Screw size		X/Y/Z	mm	JIS C3: Φ 28/28/32	JIS C3: Φ 36/36/36	JIS C3: Φ 40/40/40
G01 进给速度		G01 Feed rate		mm/min		1-12000	1-12000	1-12000
G00 快移速度		G01 Rapid traverse speed		X/Y/Z	m/min	48/48/48	48/48/48	48/48/48
定位精度		Positional accuracy		mm		±0.005/300	±0.005/300	±0.005/300
重复精度		Repeated positioning accuracy		mm		±0.003/300	±0.003/300	±0.003/300

刀库				Tool magazine	HD-T640	HD-T850	HD-T1160	HD-T1365
夹臂（伺服）式刀库		Insert arm type(servo-type)		pce.	21(*26)	21(*26)	21(*26)	21(*26)
换刀时间		Time for changing tool cutter		s	0.8	0.8	0.8	0.8
最大刀具长度		Max tool length		mm	200	200	200	200
最大刀具直径(满刀)		Max tool diameter(all the tool holes are full of tools)		mm	60	60	60	60
最大刀具直径(邻空刀)		Max tool diameter(the tool holes are empty on the left and right)		mm	80	80	80	80
最大刀具重量		Maximum weight of tool cutter		kg	2	2	2	2

其它				Other	HD-T640	HD-T850	HD-T1160	HD-T1365
机床重量		Machine weight		kg	3000	4700	4800	5200
电力需求		Power demand		kVA	15	15	20	30
气压需求		Pressure demand		kgf/cm ²	6	6	6	6
外观尺寸		Outline dimension		mm	1990×2440×2740	2580×2556×2856	2750×2350×2365	2950×2400×2415

* 选配
* Optional

技术参数

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Technical Parameters

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主要参数				The main parameters	HD-16050T	HD-20050T	HD-25050T
行程		Travel	X/Y/Z	mm	1600/500/300	2000/500/300	2500/500/300
工作台尺寸		Work table dimension		mm	1700×500	2100×500	2600×500
T型槽		T-slot		mm	5-18T×100	5-18T×100	5-18T×100
工作台最大承重		Maximum load		kg	600	600	600
工作台到主轴端面		Distance from spindle nose to table		mm	150-450	150-450	150-450
主轴中心至Z轴导轨面		Distance from the center of the spindle to the vertical column		mm	546	546	546

主轴				Spindle	HD-16050T	HD-20050T	HD-25050T
锥度		Taper		-	BT30/*BT40	BT30/*BT40	BT30/*BT40
转速		Rotating speed		rpm	20000/*12000	20000/*12000	20000/*12000
电机功率		Motor power		kW	7.5/11/15	7.5/11/15	7.5/11/15

三轴				Three-axis	HD-16050T	HD-20050T	HD-25050T
FANUC	电机功率		Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0
	电机功率		Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0
导轨规格		Rail specification	X/Y/Z	mm	45/35(4轨)/35	45/35(4轨)/35	45/35(4轨)/35
滑块数量		Number of sliders		X/Y/Z	Pc	-	-
丝杆规格		Screw size		X/Y/Z	mm	JIS C3: Φ 50/40/32	JIS C3: Φ 50/40/32
G01 进给速度		G01 Feed rate		mm/min		1-12000	1-12000
G00 快移速度		G01 Rapid traverse speed		X/Y/Z	m/min	24/36/36	24/36/36
定位精度		Positional accuracy		mm		±0.005/300	±0.005/300
重复精度		Repeated positioning accuracy		mm		±0.003/300	±0.003/300

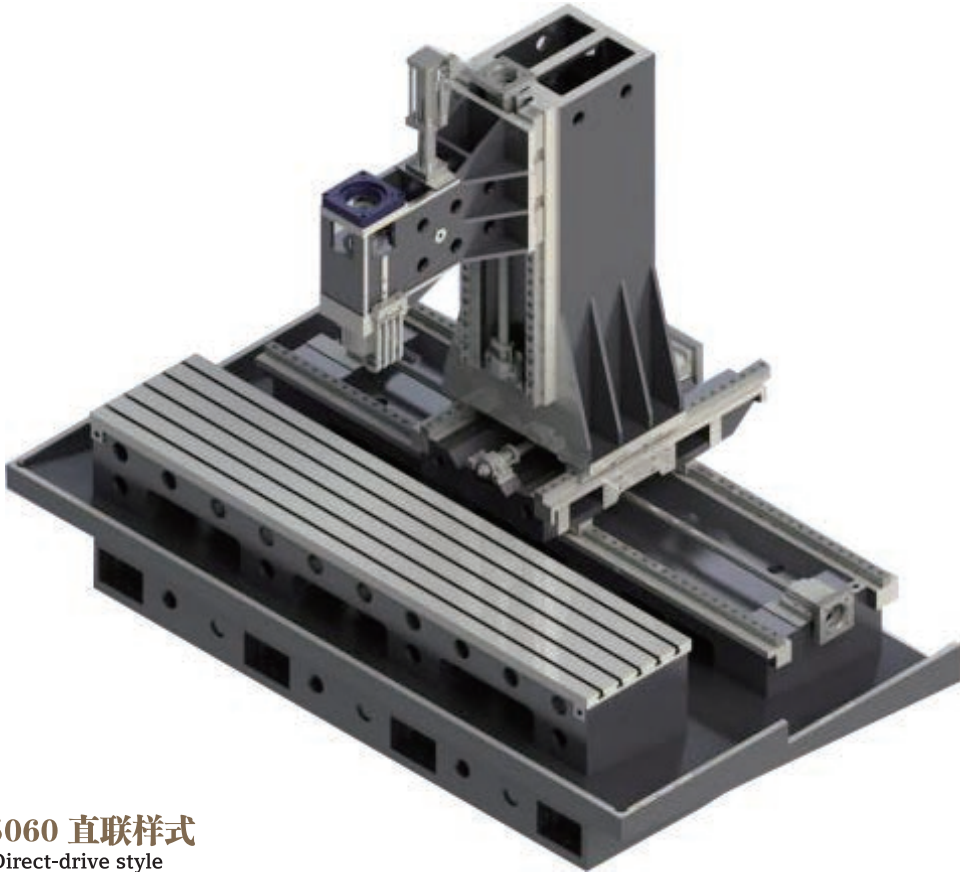
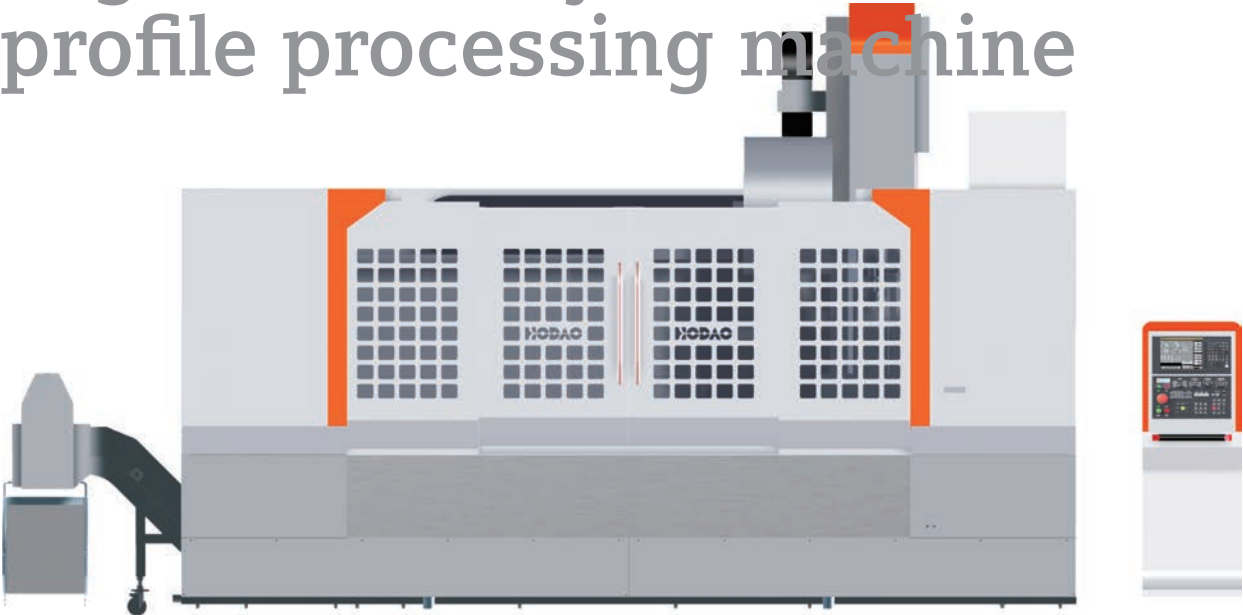
刀库				Tool magazine	HD-16050T	HD-20050T	HD-25050T
夹臂（伺服）式刀库		Insert arm type(servo-type)		pce.	21/*16	21/*16	21/*16
换刀时间		Time for changing tool cutter		s	0.8	0.8	0.8
最大刀具长度		Max tool length		mm	200	200	200
最大刀具直径(满刀)		Max tool diameter(all the tool holes are full of tools)		mm	130	130	130
最大刀具直径(邻空刀)		Max tool diameter(the tool holes are empty on the left and right)		mm	200	200	200
最大刀具重量		Maximum weight of tool cutter		kg	5	5	5

其它				Other	HD-16050T	HD-20050T	HD-25050T
机床重量		Machine weight		kg	5600	6200	6600
电力需求		Power demand		kVA	30	30	30
气压需求		Pressure demand		kgf/cm ²	6	6	6
外观尺寸		Outline dimension		mm	3523×2543×2550	3875×2543×2550	4227×2543×2550

* 选配
* Optional

高效能铝型材加工机

High-efficiency aluminum profile processing machine



HD-AF25060 直联样式
HD-AF25060 Direct-drive style

技术参数

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Technical Parameters

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* 选配
* Optional

主要参数				The main parameters	HD-AF20060	HD-AF25060	HD-AF30060
行程	Travel	X/Y/Z	mm		2000/600/750	2500/600/750	3000/600/750
工作台尺寸	Work table dimension		mm		2620×500	3100×550	3870×550
T型槽	T-slot		mm		5-18T×100	5-18T×100	5-18T×100
工作台最大承重	Maximum load		kg		1500	1500	600
工作台到主轴端面	Distance from spindle nose to table		mm		150-900	150-900	150-450
主轴中心至Z轴导轨面	Distance from the center of the spindle to the vertical column		mm		669	669	669

主轴				Spindle	HD-AF20060	HD-AF25060	HD-AF30060
锥度	Taper		-		BT40	BT40	BT40
转速	Rotating speed		rpm		12000	12000	12000
电机功率	Motor power		kW		7.5/11/15	7.5/11/15	7.5/11/15

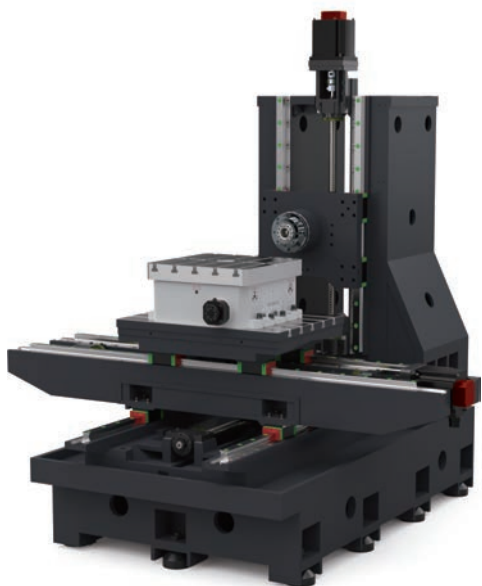
三轴				Three-axis	HD-AF20060	HD-AF25060	HD-AF30060
FANUC	电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
MITSUBISHI	电机功率	Motor power	X/Y/Z	kW	4.5/4.5/4.5	4.5/4.5/4.5	4.5/4.5/4.5
	导轨规格	Rail specification	X/Y/Z	mm	45/45/45	45/45/45	45/45/45
	滑块数量	Number of sliders	X/Y/Z	Pc	4/4/4	4/4/4	4/4/4
	丝杆规格	Screw size	X/Y/Z	mm	JIS C3: Φ 40/40/40	JIS C3: Φ 40/40/40	JIS C3: Φ 40/40/40
G01	进给速度	G01 Feed rate		mm/min	1-12000	1-12000	1-12000
G00	快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	32/32/32	32/32/32	32/32/32
	定位精度	Positional accuracy		mm	±0.005/300	±0.005/300	±0.005/300
	重复精度	Repeated positioning accuracy		mm	±0.003/300	±0.003/300	±0.003/300

刀库				Tool magazine	HD-AF20060	HD-AF25060	HD-AF30060
	机械手刀库	Manipulator library		pce.	24	24	24
	换刀时间	Time for changing tool cutter		s	1.3-1.8	1.3-1.8	1.3-1.8
	最大刀具长度	Max tool length		mm	300	300	300
	最大刀具直径(满刀)	Max tool diameter(all the tool holes are full of tools)		mm	78	78	78
	最大刀具直径(邻空刀)	Max tool diameter(the tool holes are empty on the left and right)		mm	120	120	120
	最大刀具重量	Maximum weight of tool cutter		kg	8	8	8

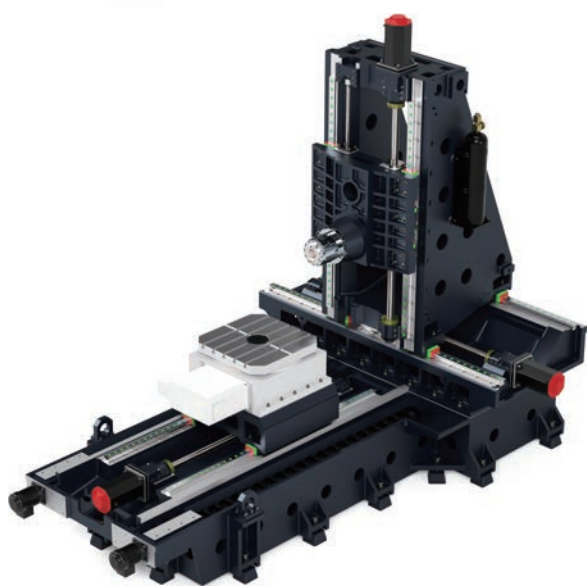
其它				Other	HD-AF20060	HD-AF25060	HD-AF30060
	机床重量	Machine weight		kg	5500	6000	7000
	电力需求	Power demand		kVA	30	30	30
	气压需求	Pressure demand		kgf/cm ²	6	6	6
	外观尺寸	Outline dimension		mm	4350×2800×3000	5660×2800×3000	7000×2800×3000

卧式加工中心

Horizontal machining center



HD-HMC80 直联样式
HD-HMC80 Direct-drive style



HD-HT630 皮带样式
HD-HT630 Belt style

技术参数

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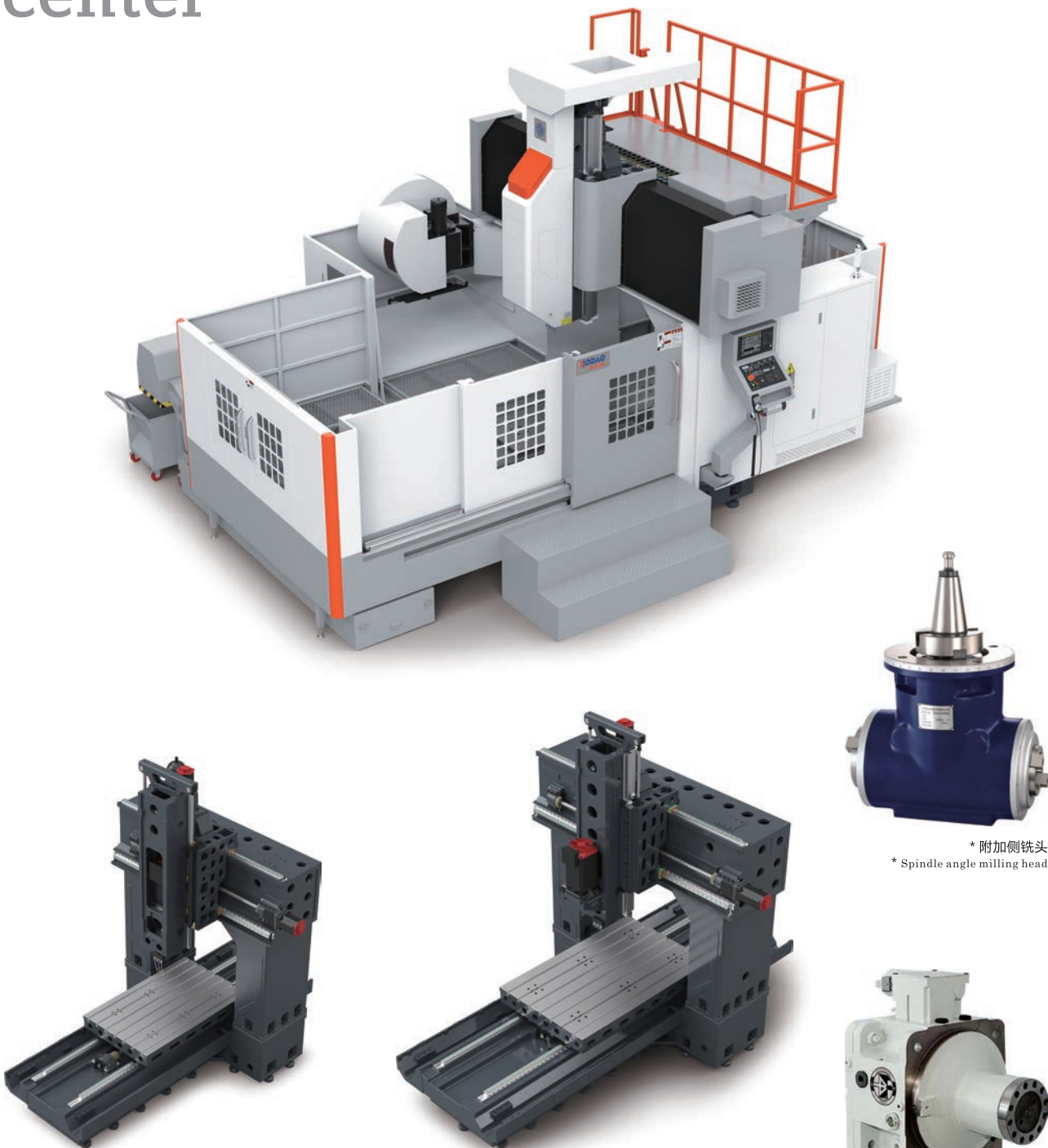
* 选配
* Optional

主要参数				The main parameters	HD-H1290L	HD-H1814L	HD-HMC80	HD-XT800
行程		Travel	X(左右)/Y(上下)/Z(前后) X(left right)/Y(up down)/Z(before after)	mm	1200/900/700	1800/1400/900	1100/570/600	1600/1050/1200
工作台尺寸		Work table dimension		mm	1360×700	2000×900	800×600	800×800
T型槽		T-slot		mm	5-18T×152.5	5-22T×165	5-18T×100	7-22T×100
工作台最大承重		Maximum load		kg	1000	1600	800	2000
主轴中心至工作台面		Spindle center to worktable		mm	160-850	200-1100	140-710	100-1200
主轴端面至工作台		Spindle end to the center of the table		mm	70-970	10-1410	180-780	200-1400
主轴锥度		Spindle taper		-	BT50	BT50	BT40	BT50
主轴转速		Spindle speed		rpm	6000	6000	12000	6000
FANUC / MITSUBISHI	主轴电机功率	Spindle motor power		kW	15/18.5	15/18.5	15/18.5	15/18.5
	导轨规格	Rail specification	X/Y/Z	mm	45/硬轨[Box Way]/55	45/硬轨[Box Way]/55	45/45/45	55/硬轨[Box Way]/55
滑块数量		Number of sliders		X/Y/Z Pc	6/硬轨[Box Way]/8	6/硬轨[Box Way]/8	4/4/4	4/硬轨[Box Way]/6
丝杆规格		Screw size		X/Y/Z mm	JIS C3: Φ 50/50/50	JIS C3: Φ 55/50/55	JIS C3: Φ 40/40/40	JIS C3: Φ 55/55/55
G01 进给速度		G01 Feed rate		mm/min	1-5000	1-5000	1-5000	1-5000
G00 快移速度		G01 Rapid traverse speed		X/Y/Z m/min	12/12/12	12/12/12	36/36/30	12/12/8
定位精度[VDI 3441]		Positional accuracy (VDI 3441)		mm	P≤0.020	P≤0.020	P≤0.020	P≤0.020
重复精度[VDI 3441]		Repeated positioning accuracy (VDI 3441)		mm	Ps≤0.012	Ps≤0.012	Ps≤0.012	Ps≤0.012
机床重量		Machine weight		t	15	16.5	8.5	17
电力需求		Power demand		kVA	40	40	30	40
气压需求		Pressure demand		kgf/cm ²	6.5	6.5	6.5	6.5
外观尺寸		Outline dimension		X/Y/Z mm	3980×3400×5000	4480×3694×6100	2975×2800×3280	5000×4000×6000

主要参数	The main parameters			HD-FT500	HD-HT630	HD-FTT500	HD-HTT630	
行程	Travel	X(左右)/Y(上下)/Z(前后) X(left right)/Y(up down)/Z(before after)		mm	900/750/900	1100/900/1100	900/750/900	1100/900/1000
工作台尺寸	Work table dimension			mm	500×500	630×630	500×500	630×630
工作台数量/分度单位	Number of worktabkes/Indexing unit		-	单工位 / 1度或0.001度 Single station/1° or 0.001°	单工位 / 1度或0.001度 Single station/1° or 0.001°	双工位 / 1度或0.001度 Double station/1° or 0.001°	双工位 / 1度或0.001度 Double station/1° or 0.001°	
工作台螺纹孔	Table threaded hole			mm	5-18T×100	5-18T×100	5-18×100	24-M16×125
工作台最大承重	Maximum load			kg	600	800	500×2	800×2
主轴中心至工作台面	Spindle center to worktable			mm	80-830	30-930	40-790	30-930
主轴端面至工作台	Spindle end to the center of the table			mm	80-980	200-1300	150-1050	300-1300
主轴锥度/转速	Spindle taper / Spindle speed			rpm	BT40/10000	BT50/6000	BT40/10000	BT50/6000
FANUC / MITSUBISHI	主轴电机功率			kW	11/15/18.5	15/18.5	11/15/18.5	15/18.5
	导轨规格	Rail specification	X/Y/Z	mm	45/45/45	55/55/55	45/45/45	55/55/55
	滑块数量	Number of sliders	X/Y/Z	Pc	4/4/4	4/4/4	4/4/4	4/4/4
	丝杆规格	Screw size	X/Y/Z	mm	JIS C3: Φ 40/50/40	JIS C3: Φ 50	JIS C3: Φ 40/50/40	JIS C3: Φ 50
	G01 进给速度	G01 Feed rate		mm/min	1-5000	1-5000	1-5000	1-5000
	G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	36/30/36	20/20/20	36/30/36	20/20/20
	定位精度[VDI 3441]	Positional accuracy (VDI 3441)		mm	P≤0.020	P≤0.020	P≤0.020	P≤0.020
	重复精度[VDI 3441]	Repeated positioning accuracy (VDI 3441)		mm	Ps≤0.012	Ps≤0.012	Ps≤0.012	Ps≤0.012
	机床重量	Machine weight		t	9.2	10.5	9.6	11.2
	电力需求	Power demand		kVA	40	40	40	40
	气压需求	Pressure demand		kgf/cm²	6.5	6.5	6.5	6.5
	外观尺寸	Outline dimension	X/Y/Z	mm	5000×3345×3700	5380×3345×4000	5500×3345×3700	5880×3345×4000

龙门加工中心

Gantry machining center



HD-PF1612 直联样式
HD-PF1612 Direct-drive style

HD-PL2016 皮带样式
HD-PL2016 Belt style

* 高低档齿轮箱
* High and low speed gear box

技术参数

本公司不断进行研发改良，规格参数可能会在未经通知的情况下变更，本参数表仅供参考，应以实际产品为准。

* 选配
* Optional
PF: 三轴线轨
PL: 两线一硬

Technical Parameters

Our company is constantly developing and improving, the specification parameters may be changed without notice, this parameter list is for reference only, should be based on the actual product.

主要参数 The main parameters				HD-PF1612	HD-PF2012	HD-PL2016	HD-PL2518
行程	Travel	X/Y/Z	mm	1600/1300/800	2000/1300/800	2000/1650/800	2500/1800/1000
工作台尺寸	Work table dimension		mm	1600×1000	2000×1000	2000×1300	2500×1600
工作台最大承重	Maximum load		kg	2000	2000	4000	7000
T型槽	T-slot		mm	7-22T×140	7-22T×140	7-22T×170	9-22T×180
工作台到主轴端面	Distance from spindle nose to table		mm	150-950	150-950	250-1050	150-1150
龙门通过高度	Gantry passing height		mm	1060	1060	1100	1300
龙门通过宽度	Passing width of gantry		mm	1300	1300	1650	1800

主轴 Spindle				HD-PF1612	HD-PF2012	HD-PL2016	HD-PL2518
锥度	Taper		-	BT40	BT40	BT50	BT50
转速	Rotating speed		rpm	12000	12000	6000	6000
FANUC / MITSUBISHI 功率	Motor power			11/15/18.5	11/15/18.5	15/18.5	15/18.5
FANUC / MITSUBISHI 最大扭矩	Motor power		Nm	118	118	236	236

三轴 Three-axis				HD-PF1612	HD-PF2012	HD-PL2016	HD-PL2518
FANUC / MITSUBISHI 电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0 4.5/4.5/4.5	3.0/3.0/3.0 4.5/4.5/4.5
导轨规格	Rail specification	X/Y/Z	mm	45/45/45	45/45/45	55/55/硬轨[Box Way]	55/55/硬轨[Box Way]
丝杆规格	Screw size	X/Y/Z	mm	JIS C3 Φ 50/50/50	JIS C3: Φ 50/50/50	JIS C3 Φ 63/50/50	JIS C3: Φ 63/50/50
G01 进给速度	G01 Feed rate		mm/min	1-10000	1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	15/15/15	15/15/15	12/12/12	12/12/12
定位精度[VDI 3441]	Positional accuracy [VDI 3441]		mm	P≤0.015	P≤0.015	P≤0.015	P≤0.015
重复精度[VDI 3441]	Repeated positioning accuracy [VDI 3441]		mm	Ps≤0.008	Ps≤0.008	Ps≤0.008	Ps≤0.008

其它 Other				HD-PF1612	HD-PF2012	HD-PL2016	HD-PL2518
机床重量	Machine weight		t	13.6	16	21	26
电力需求	Power demand		kVA	45	45	45	45
气压需求	Pressure demand		kgf/cm²	6	6	6	6
外观尺寸	Outline dimension		mm	5600×4700×3800	6000×4700×3800	6590×4650×4380	7275×4650×4930

技术参数

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Technical Parameters

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主要参数				HD-PL3022	HD-PL4025	HD-PL5025	HD-PL6037	HD-PL8037
行程	Travel	X/Y/Z	mm	3000/2200/1000	4000/2700/1000	5000/2700/1000	6000/3700/1250	8000/3700/1250
工作台尺寸	Work table dimension		mm	3000×1800	4000×2300	5000×2300	6000×2500	8000×2500
工作台最大承重	Maximum load		kg	10000	12000	15000	25000	30000
T型槽	T-slot		mm	9-28T×200	11-28T×200	11-28T×200	11-28T×200,2-28T×180	11-28T×200,2-28T×180
工作台到主轴端面	Distance from spindle nose to table		mm	280-1280	280-1280	280-1280	350-1600	300-1550
龙门通过高度	Gantry passing height		mm	1400	1400	1400	1780	1730
龙门通过宽度	Passing width of gantry		mm	2300	2700	2700	3700	3700

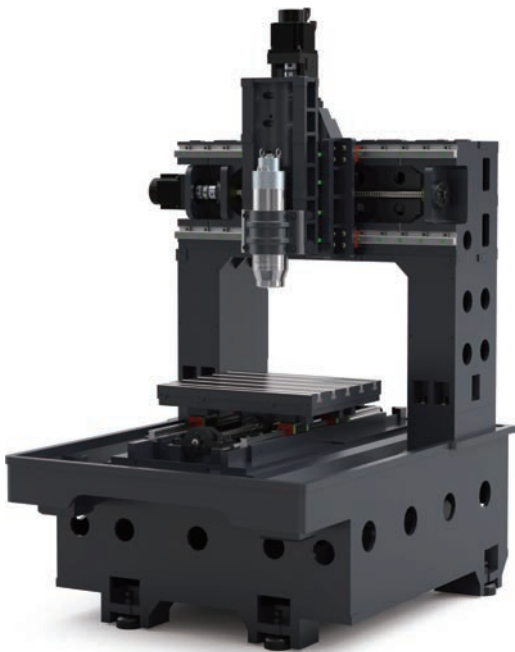
主轴				HD-PL3022	HD-PL4025	HD-PL5025	HD-PL6037	HD-PL8037
锥度	Taper		-	BT50	BT50	BT50	BT50	BT50
转速	Rotating speed		rpm	6000	6000	6000	6000	6000
FANUC / MITSUBISHI 功率	Motor power			15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
FANUC / MITSUBISHI 最大扭力	Motor power		Nm	236	236	236	236	236

三轴				HD-PL3022	HD-PL4025	HD-PL5025	HD-PL6037	HD-PL8037
FANUC / MITSUBISHI 电机功率	Motor power	X/Y/Z	kW	3.0/3.0/3.0 4.5/4.5/4.5	3.0/3.0/3.0 4.5/4.5/4.5	5.5/5.5/5.5 4.5/4.5/4.5	9.0/9.0/9.0 9.0/7.0/7.0	9.0/9.0/9.0 9.0/7.0/7.0
导轨规格	Rail specification	X/Y/Z	mm	55/55/硬轨[Box Way]	55/55/硬轨[Box Way]	55/55/硬轨[Box Way]	55/55/硬轨[Box Way]	55/55/硬轨[Box Way]
丝杆规格	Screw size	X/Y/Z	mm	JIS C3 Φ 80/63/50	JIS C3 Φ 80/63/50	JIS C3 Φ 80/63/50	JIS C3 Φ 100/80/63	JIS C3 Φ 100/80/63
G01 进给速度	G01 Feed rate		mm/min	1-10000	1-10000	1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min	10/10/12	10/10/10	10/10/10	8/8/8	8/8/8
定位精度[VDI 3441]	Positional accuracy [VDI 3441]		mm	P≤0.015	P≤0.015	P≤0.015	P≤0.015	P≤0.015
重复精度[VDI 3441]	Repeated positioning accuracy [VDI 3441]		mm	Ps≤0.008	Ps≤0.008	Ps≤0.008	Ps≤0.008	Ps≤0.008

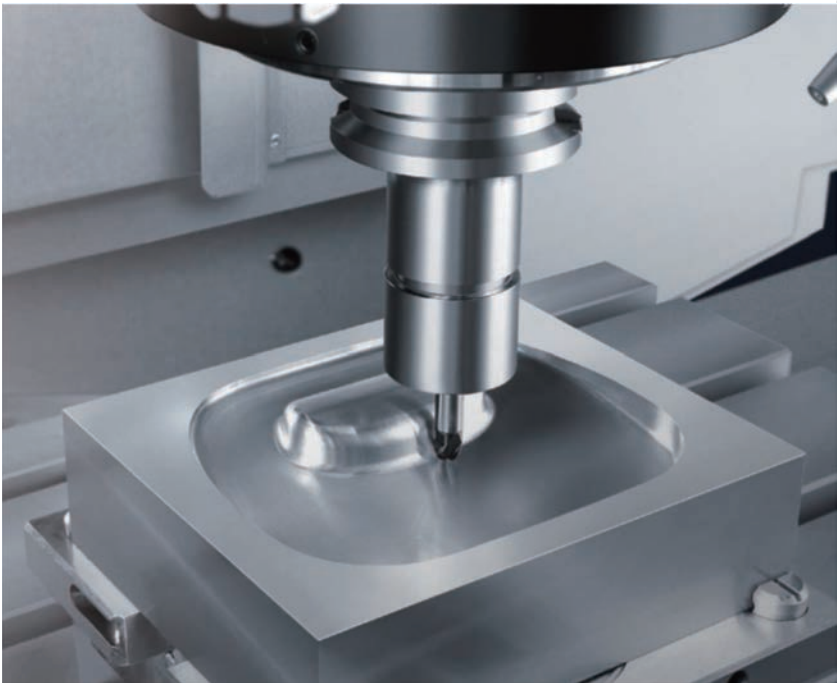
其它				HD-PL3022	HD-PL4025	HD-PL5025	HD-PL6037	HD-PL8037
机床重量	Machine weight		t	36.5	42	46	81	99
电力需求	Power demand		kVA	45	45	50	55	55
气压需求	Pressure demand		kgf/cm²	6	6	6	6	6
外观尺寸	Outline dimension		mm	8600×5400×5000	10600×5800×5000	12000×5800×5000	15400×8000×6000	20000×8000×6000

雕铣机

Engraving and milling center



HD-6050 样式
HD-6050 Style



技术参数

本公司不断进行研发改良，规格参数可能会在未经通知的情况下变更，本参数表仅供参考，应以实际产品为准。

Technical Parameters

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* 选配
* Optional

主要参数				The main parameters	HD-6050	HD-8060
行程	Travel	X/Y/Z	mm		600/500/250	780/680/330
龙门通过宽度	Passing width of gantry		mm		760	760
工作台尺寸	Work table dimension		mm		600×500	800×600
工作台最大承重	Maximum load		kg		300	400
T型槽	T-slot		mm		5-18×100	5-18×115
主轴端面至工作台	Spindle end to the center of the table		mm		120-370	70-400
主轴锥度	Spindle taper		-		BT30	BT30
主轴转速	Spindle speed		rpm		24000	24000
SYNTEC / *LNC / *FAGOR	主轴电机功率	Spindle motor power	kW		5.5	5.5
	三轴电机功率	Three axis motor power	kW		0.85/0.85/0.85	1.3/1.3/1.3
G01 进给速度	G01 Feed rate		mm/min		1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min		12/12/12	12/12/12
定位精度	Positional accuracy		mm		±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm		±0.003/300	±0.003/300
刀库容量	ATC content		pce.		12	12
操作系统	Operating system		-		新代21MA(*宝元/法格)	SYNTEC 21MA (*LNC / FAGOR)
机床重量	Machine weight		t		3	4
电力需求	Power demand		kVA		10	10
气压需求	Pressure demand		kgf/cm²		6	6
外观尺寸	Outline dimension		mm		1710×1980×2285	1900×2440×2340

主要参数				The main parameters	HD-10090	HD-12090	HD-15020
行程	Travel	X/Y/Z	mm		1000/900/500	1200/900/500	2000/1500/500
龙门通过宽度	Passing width of gantry		mm		1030	1030	1630
工作台尺寸	Work table dimension		mm		1000×900	1200×900	2000×1500
工作台最大承重	Maximum load		kg		2000	2000	3000
T型槽	T-slot		mm		7-18×142	7-18×142	7-22×200
主轴端面至工作台	Spindle end to the center of the table		mm		150-650	150-650	150-650
主轴锥度	Spindle taper		-		BT40	BT40	BT40
主轴转速	Spindle speed		rpm		15000	15000	15000
SYNTEC / *LNC / *FAGOR	主轴电机功率	Spindle motor power	kW		13	13	16.5
	三轴电机功率	Three axis motor power	kW		1.3/1.3/3.0	1.3/1.3/3.0	3.0/3.0/3.0
G01 进给速度	G01 Feed rate		mm/min		1-10000	1-10000	1-10000
G00 快移速度	G01 Rapid traverse speed	X/Y/Z	m/min		15/15/12	15/15/12	15/15/12
定位精度	Positional accuracy		mm		±0.005/300	±0.005/300	±0.005/300
重复精度	Repeated positioning accuracy		mm		±0.003/300	±0.003/300	±0.003/300
刀库容量	ATC content		pce.		12	12	12
操作系统	Operating system		-		新代21MA(*宝元/法格)	SYNTEC 21MA (*LNC / FAGOR)	
机床重量	Machine weight		t		5	6	12
电力需求	Power demand		kVA		10	10	12
气压需求	Pressure demand		kgf/cm²		6	6	6
外观尺寸	Outline dimension		mm		2780×2320×2630	3150×2320×2630	5340×2690×3000

Tool holder specifications

Technical drawing of a 1000 Series 1/2" NPT x 1" NPT Tee. The drawing includes a side view and a top view. Key dimensions and features are labeled:

- Side View Dimensions:**
 - Overall length: 48.4
 - Flange thickness: 13.6
 - Flange outer diameter: Ø46
 - Flange bore diameter: Ø31.75
 - Flange bore chamfer: 60°
 - Flange bore chamfer length: 22
 - Flange bore chamfer width: 1
 - Flange bore chamfer label: BBT30
 - Threaded section length: 23
 - Threaded section outer diameter: Ø11
 - Threaded section taper: 45°
 - Threaded section thread: 7/24
 - Threaded section label: M12
 - Threaded section label: BT30
- Top View Dimensions:**
 - Outer diameter: 16.3
 - Inner diameter: 16.1

压铸件加工

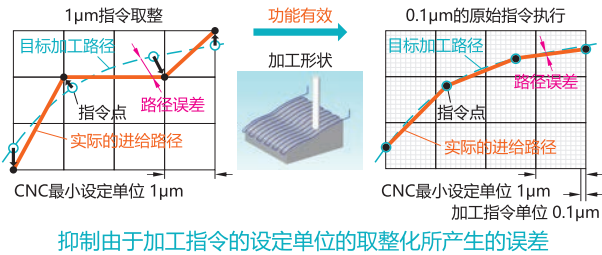
Die casting processing

FANUC Series 0i-MF Plus

采用了最新的加工技术 实现出众的精度、速度、平滑度

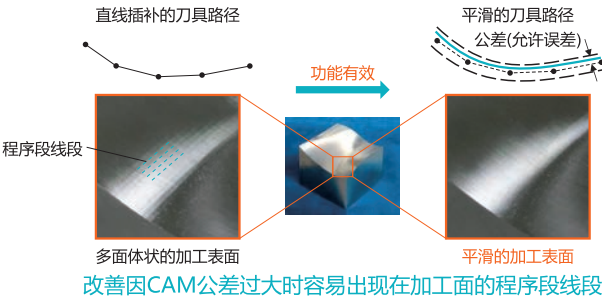
高精度指令功能

特点 无须变更CNC的最小设定单位，即可实现高精度程序加工



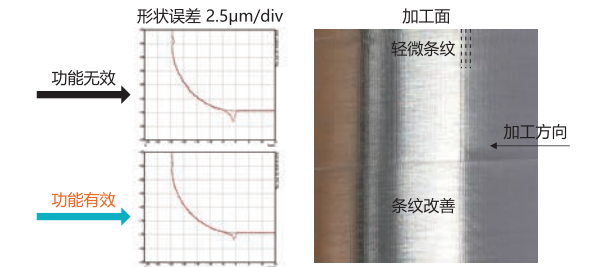
平滑控制

特点 对于模具加工中的微小线段程序进行高品位加工



伺服控制

特点 通过增强伺服基本性能来提升加工面品质



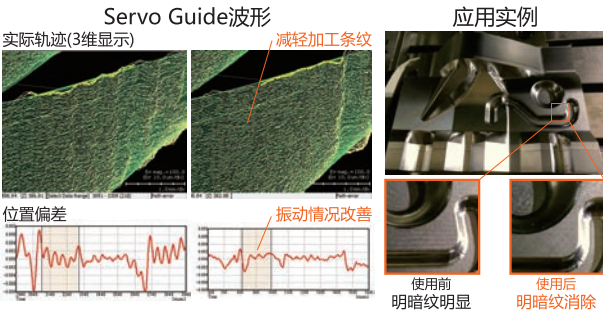
10.4” LCD/MDI 显示器

- 新增操作层级显示，当前软键操作的层级可以直观显示，提升了实用性
- 新平面设计，外观设计更加洗练，提高了可视性
- 新增8竖排软键+1调用竖排显示软键，8个软键对应的画面可通过参数设定自行定制
- 布局更合理，界面能够显示更多有用信息，用户操作体验得到大幅提升



智能前端点控制

特点 根据振动模型预测机床前端点的振动



加工条件简单设定

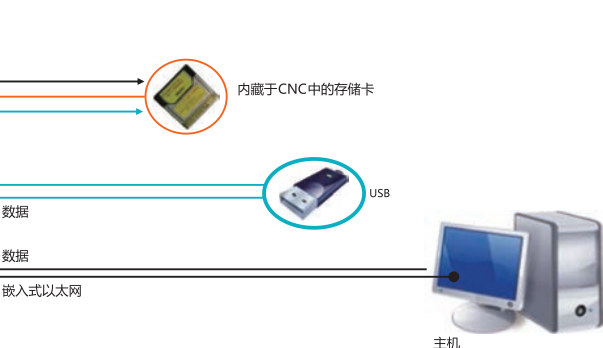
特点 通过简单操作，完成高速高精度加工参数推荐值的设定



整体加工时间缩短

多元、方便的程序传输方式与可靠的DNC连线

- 可从USB向存储卡传送CNC程序
- 可从主PC向存储卡传送CNC程序
- 可DNC运行存储卡内的CNC程序



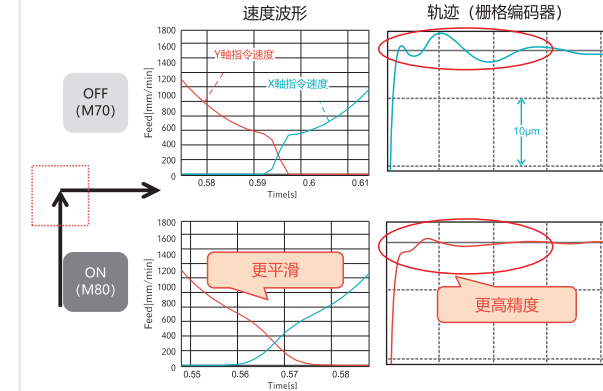
MITSUBISHI Series M80

SSS-4G控制：更快速、精度更好、更加平滑、更加简单

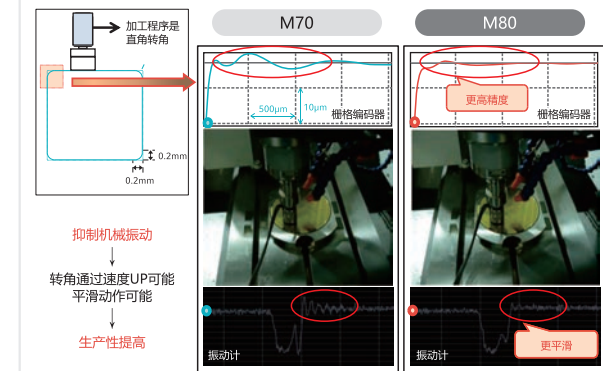
转角平滑控制-抑制振动获取高精度

转角平滑控制的效果

- 通过抑制转角部分的机械振动 可以达到加速度UP和转角减速速度UP、及循环时间缩短
- 通过转角部分平滑，过冲减少，精度也提高



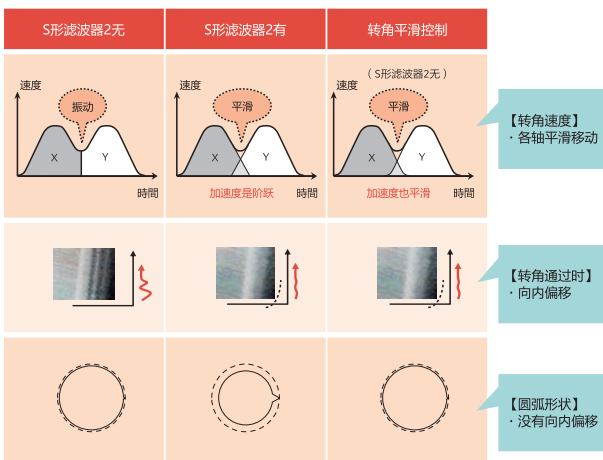
高加速度、高速通过转角时，抑制振动，平滑动作



转角部分叠加动作（叠加量，可用容差指定）

保持圆弧向内偏移量，仅转角部分低振动、平滑动作

S形滤波器时间常数缩短可能、循环时间缩短可能

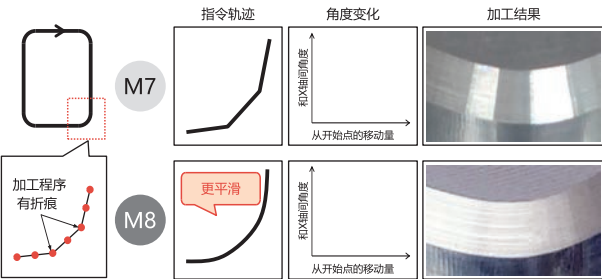


样条曲线插补2-更平滑

容许误差以内，做平滑曲线插补、加工面品质提高

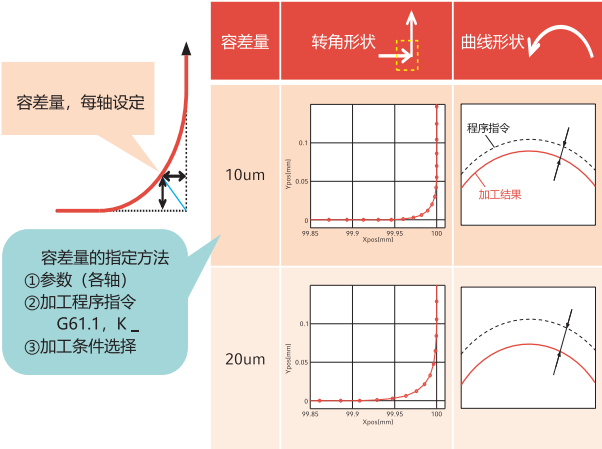
效果1：低速加工时的平滑加工

效果2：抑制相邻路径的不规则



容差控制-更简单

通过允许误差，以易理解简单调整的方式，最大程度发挥机械能力，实现最合适的精度和最合适的加工时间



10.4” LCD/MDI显示器

- 无需变更已有加工程序即可直接使用
- 使用过M7的用户无需培训即可操作
- 布局更合理，界面能够显示更多有用信息，用户操作体验得到大幅提升

