



**OBR CNC PRECISION
MACHINERY CO.,LTD.**

歐伯朗精工機械有限公司

CNC

Machine
Series





企业简介 BRIEF INTRODUCTION

欧伯朗精工机械有限公司以数字化制造为核心，渗透到机械加工的各个 方面，主要面向航天、汽车、造船、风能发电、医疗器械、五金及工装模具 等行业提供系列数控机床产品、数控机床核心功能部件及产品解决方案，并 提供全过程支持服务。

公司主要生产：立式、卧式多轴联动加工中心及数控镗铣床、数控专机、 数控钻床、龙门加工中心及机床主要配件。

为抓住我国对精密数控机床需求日益迫切的机会，实现公司规模和产业地 位的飞跃，公司坐落于上海，公司引进国际一流技术、人才及设备，打造国 内高端数控机床及核心功能部件的研发制造中心。

OBR Precision Machinery is a digital manufacturing technology as the core, penetrated into all aspects of machining, mainly for aerospace, automotive, shipbuilding, wind power generation, medical equipment, hardware and other industries to provide tooling CNC machine tools, CNC machine core features and product solutions, and provides support services to the entire process.

Company main products: vertical, Horizontal and multi-axis linkage machining center, CNC boring machine, cnc milling machine, Nc drilling machine, gantry machining center and CNC machine parts

To seize our precision CNC machine tools demand increasingly urgent opportunity to leap forward company size and industry position. The company located in Shanghai. company the introduction of world-class technology, personnel and equipment, development, and manufacturing center to build the country's high-end CNC machine tools and core feature.

产品系列PRODUCTS SERIES



钻攻铣全能数控
Vertical drilling and tapping
milling universal CNC

◆SNX-360

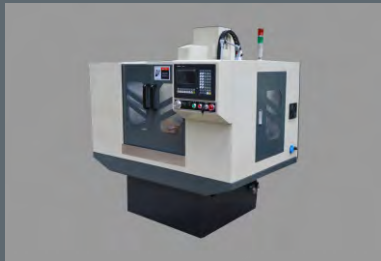
P 01-02



小型数控加工中心
Small CNC machining
center

◆VMC-360/420

P 03-06



高速数控钻铣机
High speed drilling
and milling machine

◆ZXK-7120

P 07-08



高速钻攻中心机
High Speed Tapping
Center-VT Series

VT-500/600

P 09-10



数控立式加工中心
Vertical CNC machining
center

◆VMC-650/850

P 11-12



数控立式加工中心
CNC lathe machine

◆CKX6436/6420

◆CK6132

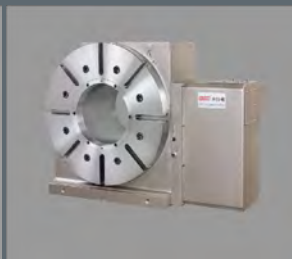
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CNC主轴系列
CNC Spindles

◆KENTURN

P15



CNC数控分度盘系列
CNC Rotary Table

◆OBR

P15



CNC刀库系列
CNC Tools Magazine

◆Sanjet

P15

SNX-360 Model

Vertical drilling and tapping milling universal CNC

鈔攻鏝全能數控

Features

- ◆ 3 axes are equipped with high precision linear guide ways.
- ◆ High strength, high speed servo motor.
- ◆ The assembling space of bed and column is widened and enhanced to provide better stability.
- ◆ The system can customize according to customer's requirements



Information

| Item | Spec. | Unit | Parameter |
|-----------------|--|--------|----------------|
| Worktable | Table size | mm | 700×260 |
| | T slot(NO./Width/Distance) | mm | 3/16/90 |
| | Max. allowable workload | kg | 300 |
| Travel | X/Y/Z axes | mm | 360/200/250 |
| Spindle | Distance from spindle nose to Table Surface | mm | 140-390 |
| | Distance from spindle center to column surface | mm | 280 |
| | Spindle type/dia. | # | MT30 |
| | Spindle motor power | kw | 2.2 |
| | Spindle speed range | rpm | 100-5000 |
| Feeding axes | Cutting feed speed | mm/min | 10000 |
| | Fast moving speed | mm/min | 30000 |
| Working ability | Max.milling diameter(VER.milling/Face milling) | mm | 20/50 |
| | Max.drilling diameter | mm | 22 |
| | Max.tapping diameter | mm | 18 |
| Precision | Positioning precision | mm | 0.02 |
| | Repeatable positioning precision | mm | 0.02 |
| Tool magazine | Tool magazine type | - | |
| | Tools No. | pcs | |
| | Max. tool shank dia. | mm | |
| | Max. tool length | mm | |
| | Max. tool weight | kg | |
| Others | Control system | - | ADTECH4640 |
| | Overall dimension(L*W*H) | mm | 1600×1100×2000 |
| | Weight | kg | 1400 |

Features

- ◆ Support for five-axis linkage machining.
- ◆ High strength of machine structure, fully meet the requirements of machining.
- ◆ High precision linear guide ways and high speed servo motor, Cooperate with stable machine, Guarantee the accuracy of machining.
- ◆ System operation is simple.(optional)

VMC-360 Model

Small CNC machining center

小型數控加工中心

Features

- ◆ 3 axes are equipped with high precision linear guide ways.
- ◆ High drilling tapping.
- ◆ Fast tools magazine change.
- ◆ Precision CNC machining.



Information

| Item | Spec. | Unit | Parameter |
|-----------------|--|--------|----------------|
| Worktable | Table size | mm | 700×260 |
| | T slot(NO./Width/Distance) | mm | 3/16/90 |
| | Max. allowable workload | kg | 300 |
| Travel | X/Y/Z axes | mm | 360/200/450 |
| Spindle | Distance from spindle nose to Table Surface | mm | 110-560 |
| | Distance from spindle center to column surface | mm | 280 |
| | Spindle type/dia. | # | BT30 |
| | Spindle motor power | kw | 2.2 |
| | Spindle speed range | rpm | 100-8000 |
| Feeding axes | Cutting feed speed | mm/min | 10000 |
| | Fast moving speed | mm/min | 30000 |
| Working ability | Max.milling diameter(VER.milling/Face milling) | mm | 20/50 |
| | Max.drilling diameter | mm | 22 |
| | Max.tapping diameter | mm | 18 |
| Precision | Positioning precision | mm | 0.02 |
| | Repeatable positioning precision | mm | 0.02 |
| Tool magazine | Tool magazine type | - | BT30 |
| | Tools No. | pcs | 8/12 |
| | Max. tool shank dia. | mm | 80/120 |
| | Max. tool length | mm | 200 |
| | Max. tool weight | kg | 3 |
| Others | Control system | - | ADTECH4640 |
| | Overall dimension(L*W*H) | mm | 1600×1100×2100 |
| | Weight | kg | 1500 |

Features

- ◆ Automatic change tools, automatic lubrication, coolant, work lamp, safety protection.
- ◆ Support for five-axis linkage machining.
- ◆ High strength of machine structure, fully meet the requirements of machining.
- ◆ High precision linear guide ways and high speed servo motor, Cooperate with stable machine, Guarantee the accuracy of machining.
- ◆ System operation is simple. (optional)

VMC-420 Model

Small CNC machining center

小型數控加工中心

Features

- ◆ 3 axes are equipped with high precision linear guide ways.
- ◆ High drilling tapping.
- ◆ Fast tools magazine change.
- ◆ Precision CNC machining.



Information

| Item | Spec. | Unit | Parameter |
|-----------------|--|--------|----------------|
| Worktable | Table size | mm | 800×260 |
| | T slot(NO./Width/Distance) | mm | 5/16/50 |
| | Max. allowable workload | kg | 300 |
| Travel | X/Y/Z axes | mm | 420/260/420 |
| Spindle | Distance from spindle nose to Table Surface | mm | 70-480 |
| | Distance from spindle center to column surface | mm | 315 |
| | Spindle type/dia. | # | BT30 |
| | Spindle motor power | kw | 2.2 |
| | Spindle speed range | rpm | 100-8000 |
| Feeding axes | Cutting feed speed | mm/min | 10000 |
| | Fast moving speed | mm/min | 30000 |
| Working ability | Max.milling diameter(VER.milling/Face milling) | mm | 20/50 |
| | Max.drilling diameter | mm | 24 |
| | Max.tapping diameter | mm | 20 |
| Precision | Positioning precision | mm | 0.02 |
| | Repeatable positioning precision | mm | 0.02 |
| Tool magazine | Tool magazine type | - | BT30 |
| | Tools No. | pcs | 12/16 |
| | Max. tool shank dia. | mm | 80/120 |
| | Max. tool length | mm | 200 |
| | Max. tool weight | kg | 3 |
| Others | Control system | - | ADTECH4640 |
| | Overall dimension(L*W*H) | mm | 1700×1300×2200 |
| | Weight | kg | 1700 |

Features

- ◆ Automatic change tools, automatic lubrication, coolant, work lamp, safety protection.
- ◆ Support for five-axis linkage machining.
- ◆ High strength of machine structure, fully meet the requirements of machining.
- ◆ High precision linear guide ways and high speed servo motor, Cooperate with stable machine, Guarantee the accuracy of machining.
- ◆ System operation is simple. (optional)

ZXK-7120 Model

High speed drilling and milling machine

高速數控鑽鏜床

Features

- ◆ 3 axes are equipped with high precision linear guide ways.
- ◆ High drilling tapping.
- ◆ High efficiency, simple operation.
- ◆ Precision CNC machining.



Information

| Item | Spec. | Unit | Parameter |
|-----------------|--|--------|----------------|
| Worktable | Table size | mm | 600×250 |
| | T slot(NO./Width/Distance) | mm | 3/14/85 |
| | Max. allowable workload | kg | 230 |
| Travel | X/Y/Z axes | mm | 300/200/230 |
| Spindle | Distance from spindle nose to Table Surface | mm | 50-280 |
| | Distance from spindle center to column surface | mm | 230 |
| | Spindle type/dia. | # | MT30 |
| | Spindle motor power | kw | 1.5 |
| | Spindle speed range | rpm | 100-4000 |
| Feeding axes | Cutting feed speed | mm/min | 10000 |
| | Fast moving speed | mm/min | 30000 |
| Working ability | Max.milling diameter(VER.milling/Face milling) | mm | 20/50 |
| | Max.drilling diameter | mm | 16 |
| | Max.tapping diameter | mm | 14 |
| Precision | Positioning precision | mm | 0.02 |
| | Repeatable positioning precision | mm | 0.02 |
| Tool magazine | Tool magazine type | - | |
| | Tools No. | pcs | |
| | Max. tool shank dia. | mm | |
| | Max. tool length | mm | |
| | Max. tool weight | kg | |
| Others | Control system | - | ADTECH4640 |
| | Overall dimension(L*W*H) | mm | 1600×1300×1900 |
| | Weight | kg | 900 |

Features

- ◆ Simple operation without too much learning, System operation is simple. (optional).
- ◆ Support for five-axis linkage machining.
- ◆ High strength of machine structure, fully meet the requirements of machining.
- ◆ High precision linear guide ways and high speed servo motor, Cooperate with stable machine, Guarantee the accuracy of machining.

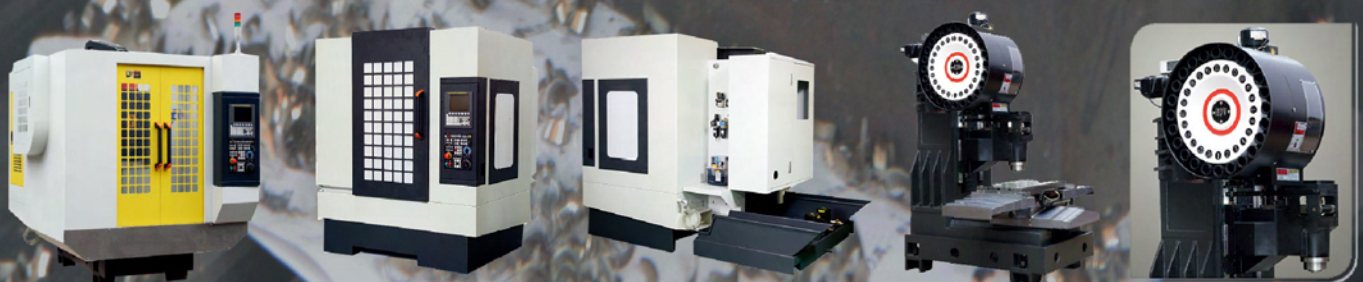
VT-500/VT-600 Series

High Speed Tapping Center-VT Series

高速鑽攻中心機

Linear guide ways and direct-drive type spindle.

- ◆16T disk type magazine, 1.8 sec/0.8 sec automatic tool change time.
- ◆3 axes linear guide ways.
- ◆12,000 rpm direct-drive type spindle, from 0 to 12,000 rpm only takes 1 second.
- ◆Spindle is designed with thermal isolated direct drive system (TIDD system).



Specifications:

| Model | Unit | VT-500 | VT-600 |
|---------------------------------|---------------------|----------------------|----------------------|
| Travel | | | |
| X axis | mm | 510 | 600 |
| Y axis | mm | 350 | 400 |
| Z axis | mm | 350 | 400 |
| | | (Disk type magazine) | (Disk type magazine) |
| Table | | | |
| Dimension | mm | 650 x 420 | 750 x 420 |
| Max. load | kg | 200 | 200 |
| Spindle | | | |
| Spindle type | - | Direct-drive | Direct-drive |
| Spindle speed | rpm | 12000 (Fanuc) | 12000 (Fanuc) |
| | | 12000 (Mitsubishi) | 12000 (Mitsubishi) |
| Spindle taper | # | BT#30 | BT#30 |
| Feedrate | | | |
| Rapid traverse (X/Y/Z) | m/min | 48/48/60 | 48/48/60 |
| Cutting feedrate | mm/min | 1-10,000 | 1-10,000 |
| Accuracy | | | |
| Positioning accuracy (VDI 3441) | mm | 0.01 | 0.01 |
| Repeatability (VDI 3441) | mm | 0.005 | 0.005 |
| ATC & Magazine | | | |
| ATC type | - | Disk | Disk |
| Magazine capacity | pcs | 16 | 16 |
| Tool change time (T to T) | sec | 1.8 | 1.8 |
| Others | | | |
| Coolant tank capacity | Liter | 480 | 480 |
| Electrical power consumption | kVA | 15 | 15 |
| Pneumatic pressure | Kgf/cm ² | 6 | 6 |
| Machine net weight | kg | 2400 | 2600 |
| Max. floor space (LxWxH) | mm | 3000x2700x2500 | 3000x2750x2500 |

Optional Spindle and Magazine

| Spindle & Magazine | | | |
|---|------------|-------------------------------|----------------------|
| Spindle type | - | Direct-drive | |
| Applicable model | - | VT-500, VT-600 | |
| Tool shank | # | BT#30 | |
| Spindle speed & motor power(Cont. /30 min rated) | Mitsubishi | 12,000, 3.7/5.5 kW (Standard) | |
| | | 15,000, 3.7/5.5 kW (Optional) | |
| | | 24,000, 3.7/5.5 kW (Optional) | |
| Spindle speed & motor power(Cont. /30 min rated) | Fanuc | 12,000, 5.5/7.5 kW (Standard) | |
| | | 15,000, 2.2/3.7 kW (Optional) | |
| | | 20,000, 2.2/3.7 kW (Optional) | |
| ATC & Magazine | Type | Disk | Arm |
| Magazine capacity | pcs | 16 (standard) | BT#30/16T (Optional) |
| | | 21 (Optional) | |
| Max. tool diameter (Full tools/ next pocket empty) | mm | Φ100/Φ140 | |
| Max. tool length | mm | 200 | |
| Max. tool weight | kg | 3 | |
| Pull stud | - | P30T-1(45°) | |
| Tool change time (T to T) | sec | 1.8 | |

Standard Accessories

| | |
|---------------------------------------|---------------------------|
| 1. Mitsubishi M70-B controller | 2. BT#30, 16T, disk type |
| 3. Spindle oil cooler | 4. Cutting air blast |
| 5. 3 axes ball type linear guide | 6. Automatic lubrication |
| 7. Full enclosure | 8. Cutting coolant system |
| 9. Coolant flushing system (from top) | 10. Coolant tank and chip |
| 11. Manual pulse generator (MPG) | 12. Washing gun & air gun |
| 13. Heat exchanger for electrical | 14. Rigid tapping |
| 15. M30 auto power off | 16. Working lamp |
| 17. Indication lamp | 18. Ethernet & RS-232 |
| 19. Manual tool release | 20. Tool kit |
| 21. Leveling blocks and bolts | 22. Transformer |
| 23. Operation manual | |

Optional Accessories

| | |
|---------------------------------------|-------------------------------------|
| 1. Fanuc Oi-Mate MD | 2. Coolant through |
| 3. 100mm/200mm higher | 4. Linear scales (3 axes) |
| 5. Safety door (CE) | 6. Oil skimmer |
| 7. Coolant flushing system (from top) | 8. Oil mist collector |
| 9. Infrared tool broken | 10. Automatic tool length |
| 11. Automatic workpiece | 12. The 4 th axis rotary |

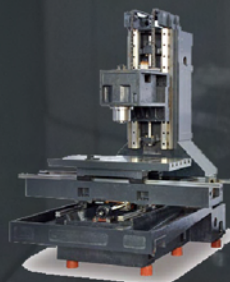
VMC-650/VMC-850 Series

Vertical CNC machining center

數控立式加工中心

Linear guide ways and belt type spindle (balanced by balancing blocks).

- ◆ 3 axes are equipped with high precision linear guide ways.
- ◆ 16T/20T/24T magazine and arm type Attached.
- ◆ The assembling space of bed and column is widened and enhanced to provide better stability.
- ◆ Long-nose spindle and big spindle motor power.



Specifications

| Model | Unit | VMC-650 | VMC-850 |
|--|---------------------|-----------------------|-----------------------|
| Travel | | | |
| X axis | mm | 600 | 850 |
| Y axis | mm | 500 | 550 |
| Z axis | mm | 500 | 580 |
| Table | | | |
| Dimension | mm | 800x500 | 1000x550 |
| Max. load | kg | 450 | 750 |
| Spindle | | | |
| Spindle type | - | Belt | Belt |
| Spindle speed | rpm | 10,000 | 10,000 |
| Spindle taper | # | BT #40 | BT #40 |
| Feedrate | | | |
| Rapid traverse (X/Y/Z) | m/min | 36/36/30 | 36/36/30 |
| Cutting feedrate | mm/min | 1-10,000 | 1-10,000 |
| Accuracy | | | |
| Positioning accuracy (VDI 3441) | mm | 0.008 | 0.008 |
| Repeatability (VDI 3441) | mm | 0.004 | 0.004 |
| ATC & Magazine | | | |
| ATC type | - | Arm | Arm |
| Magazine capacity | pcs | 16 | 24 |
| Max. tool diameter (full tools/next pocket empty) | mm | Φ85/Φ130 | Φ80/Φ125 |
| Tool change time(T to T) | sec | 1.9(50 Hz)/1.6(60 Hz) | 1.9(50 Hz)/1.6(60 Hz) |
| Others | | | |
| Coolant tank capacity | Liter | 250 | 300 |
| Electrical power consumption | kVA | 20 | 20 |
| Pneumatic pressure | Kgf/cm ² | 6 | 6 |
| Machine net weight | kg | 5000 | 5500 |
| Max. floor space (LxWxH) | mm | 3750/3000/2575 | 3700/3400/2650 |

Standard Accessories

| | |
|---------------------------------|---|
| 1. Fanuc 0iMD | 2. BT#40 8000/10000rpm belt type spindle |
| 3. 16T/24T, arm type ATC | 4. Spindle oil cooler |
| 5. Cutting air blast | 6. Centralized automatic lubrication system (oil) |
| 7. Full enclosure | 8. Cutting coolant system |
| 9. Coolant tank & chip bucket | 10. Manual pulse generator (MPG) |
| 11. Coolant gun & air gun | 12. Heat exchanger for electrical cabinet |
| 13. Rigid tapping | 14. M30 auto power off |
| 15. Working lamp | 16. Indication lamp |
| 17. Ethernet & RS-232 interface | 18. Manual tool release |
| 19. Tool kit | 20. Leveling blocks and bolts |
| 21. Transformer | 22. Operation manuals |

Optional Accessories

| | |
|---------------------------------|--|
| 1. Mitsubishi M70 controller | 2. BT#40 10000/12000rpm belt type spindle |
| 3. Coolant jets around spindle | 4. Coolant through spindle system |
| 5. Coolant through tool adapter | 6. Cutting air blast (controlled by M code) |
| 7. Linear scales (3 axes) | 8. Oil skimmer |
| 9. Coolant flushing system | 10. Chip conveyor |
| 11. Safety door | 12. Automatic tool length measurement system |
| 13. The 4th axis rotary table | 14. Automatic workpiece measurement system |

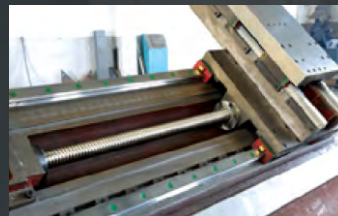
CKX6436/6420 Series

CNC slant bed lathe 斜床身数控车床

CKX6132 Series

CNC lathe 标准数控车床

- ◆CNC slant bed lathe. Good stability, high strength and reliable accuracy.
- ◆High strength of machine structure, fully meet the requirements of machining.
- ◆System operation is simple. (optional)



CKX6436/CKX6420

Information

| Item | Spec. | Unit | CKX6436 | CKX6420 |
|-----------------|-------------------------------------|-------|----------------|----------------|
| Working ability | Max.swing over bed | mm | Φ420 | Φ378 |
| | Max.swing over carrier | mm | Φ135 | Φ135 |
| | Max. stroke:X/Z | mm | 350/350 | 100/300 |
| | Max. cutting diameter:Disc/axle | mm | 350/80 | 180/80 |
| Spindle | Main axle diameter | mm | Φ85 | Φ85 |
| | Dia.of spindle bore | mm | Φ57 | Φ57 |
| | Max.bar diameter | mm | Φ45 | Φ45 |
| | Spindle head taper hole | | Mohs6# | Mohs6# |
| | Spindle head model | | A2-5 | A2-5 |
| | Spindle rotating speed range | r/min | 60-5000 | 60-5000 |
| | Servo spindle motor power | kw | 5.5 | 5.5 |
| Travel | Min.movement | mm | 0.0005-0.001 | 0.0005-0.001 |
| | Quick movement:X/Z | mm | 180/200 | 180-200 |
| accessory | Central control hydraulic chunk | | 6" | 6" |
| | Central control rotary oil cylinder | | 6" | 6" |
| | Hydraulic turret station No. | | 8 | 8 |
| | Toolbar section size | mm | 20×20 | 20×20 |
| | Max. boring bar diameter | mm | Φ32 | Φ25 |
| Others | Control system | - | option | option |
| | Overall dimension(L*W*H) | mm | 2240×1350×1650 | 1850×1350×1650 |
| | Net weight of machine | kg | 3000 | 2800 |

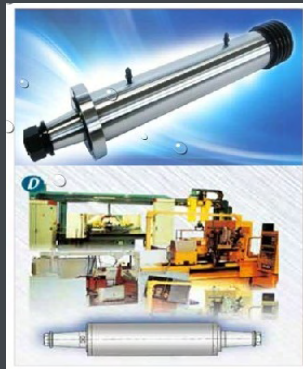
CK6132B/CK6132C

Information

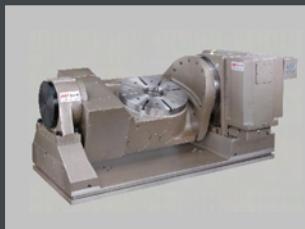
| Item | Spec. | Unit | CK6132B (Box way) | CK6132C(Linear guide rail) |
|-----------------|---------------------------------------|--------|--------------------|----------------------------|
| Working ability | Max.swing over bed | mm | Φ320 | Φ320 |
| | Max.swing over carrier | mm | Φ100 | Φ100 |
| Spindle | The pattern and code of spindle nose | | A2-4 | A2-4 |
| | Dia.of spindle bore/pitch cone radius | mm | 40/30° | 40/30° |
| | Spindle motor power | kw | 3.7 | 3.7 |
| | Spindle speed range | rpm | 300-3600 | 300-3600 |
| Travel | X axes | mm | 350 | 350 |
| | Z axes | mm | 320 | 320 |
| accessory | Chunk | | 6cun/option | 6cun/option |
| | Turret | | gang-type tool | gang-type tool |
| | Max.size of cutter | mm | 20×20 | 20×20 |
| | Tailstock | | | |
| X axes | Rapid moving speed | mm/min | 8000 | 12000 |
| | Min.movement servo | mm | 0.001 | 0.001 |
| | Drive power otorsion | Nm | 4 | 6 |
| Z axes | Rapid moving speed | mm/min | 10000 | 15000 |
| | Min.movement servo | mm | 0.001 | 0.001 |
| | Drive power otorsion | Nm | 4 | 6 |
| Precision | The surface roughness of machining | | Ra0.8(non-ferrous) | Ra0.8(non-ferrous) |
| | Repeatable positioning precision | X/Zmm | 0.007/0.01 | 0.007/0.01 |
| Others | Control system | - | option | option |
| | Overall dimension(L*W*H) | mm | 1860×1375×1500 | 1520×1500×1550 |
| | Net weight of machine | kg | 1200 | 1200 |

CNC machine center main parts

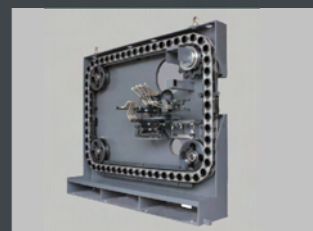
CNC Spindles



CNC Rotary Table



CNC Tools Magazine



Certificate of the company



◆Our company reserve the right to chage the products paraments without prior notice.

Culture



Service system

- ◆ Sufficient spare parts
- ◆ Overseas service support
- ◆ Practical operation training
- ◆ Foreign partner training



"Hassle-free" service

The company has established perfect hassle-free service system in quick response, which covers pre-sales, sales and post-sales to provide specialized and standardized services in quick response for the customers and safeguard the rights and interests of the customers.

By adhering to the service principle of "let customers be hassle-free", the company has its customers enjoy specialized high-quality services from time to time.



OBR PRECISION

欧伯朗精工



OBR PRECISION MACHINERY CO.,LTD.

Address:NO.9,Center Rd.,Jiuting Town,Songjiang Dist.,
Shanghai ZIP,China

Tel:+86-21-63246377

Fax:+86-21-63245977

Email:admin@shkctl.com