# TMK13 mini cnc milling machine MACH3 CONTROLLED

## Product Feature

1.Small size and cheap price.
2.Low noise and high precision.
3.Suitable for soft metal material processing.
4.Easy operation by P.C.
5.Popular for education training and mould machining.
6.Best choice for hobby users.




## STANDARD ACCESSORIES

- Allen-wrench
- Handwheel
- screwdrive
- Wrenches
- Oil-gun
- Tool-box

## OPTIONAL ACCESSORIES

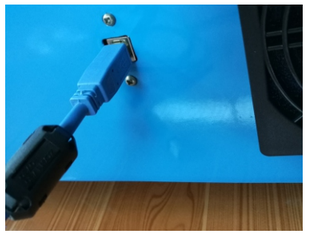
- The 4th axis
- Electrical handwheel
- Coolant system

TMK13
NEW DRAGON
CHIZHOU NEW DRAGON MACHINERY CO.,LTD









| MODEL | TMK13 |
|---|---|
| Max. Drilling capacity | 13mm |
| Max. milling capacity | 13mm |
| Spindle speed | 3000rpm |
| Spindle center to coiumn diatance | 189mm |
| Spindle nose to table distance | 205mm |
| Spindle taper | Er20 |
| T-solt (NxWxD) | 3/12/40mm |
| Worktable size | 400x140mm |
| X axis travel | 220mm |
| Y axis travel | 120mm |
| Z axis travel | 200mm |
| Main motor power | 400W |
| Main motor type | Brushless motor:0-5V analog speed |
| Feeding motor torque N.m | 2.6/2.6/3.2N.m |
| Feed motor type | Stepper motor with open loop |
| Controller system | Mach3 |
| Packing size | 590x590x780mm |
| N.W. | 90/115kg |

## Mini Engraving Machine 2015



2015
NEW DRAGON
CHIZHOU NEW DRAGON MACHINERY CO.,LTD

| MODEL | 2015 |
|---|---|
| XYZ stroke | 220*150*110mm |
| Linear guideway | Original Taiwan 20 guide rail |
| Ball screw | Original Taiwan 16 ballscrew C5 |
| CNC controller | DDCSE system |
| Spindle motor power | 2.2KW |
| Spindle speed | 24000rpm |
| Spindle taper | Er20 |
| 3 axis motor | 400W servo motor |
| Worktable size | 240*200mm |
| Max. load | 15kg |
| T slot | M8*60*3 |
| XYZ fast moving | 10/10/8m/min |
| Cutting feed speed | 1-8000mm/min |
| Repositioning accuracy | 0. 008mm |
| Positioning accuracy | 0. 015mm |
| Machine weight | 100kg |
| Total power | 2.5KW |
| Voltage | 220V |
| Dimension | 380*430*640mm |
| Spindle cooling | Submerged pump |

# ND3020 Engraving machine machine



ND3020

| MODEL | ND3020 |
|---|---|
| XYZ stroke | 320*320*100mm |
| Linear guideway | Original Taiwan 20 guide rail |
| Ball screw | Original Taiwan 16 ballscrew C5 |
| CNC controller | DDCSE system |
| Spindle motor power | 2.2KW |
| Spindle speed | 24000rpm |
| Spindle taper | Er20 |
| ZYZ axis motor | 400W SERVO 2.4Nm 3000r/min |
| Worktable size | 375*250mm |
| Max. load | 30kg |
| T slot | M8*60*3 |
| XYZ fast moving | 10/10/8m/min |
| Cutting feed speed | 1-8000mm/min |
| Repositioning accuracy | ±0. 001 |
| Positioning accuracy | ≤0. 015 |
| Machine weight | 300kg |
| Total power | 2.5KW |
| Voltage | 220V |
| Dimension | 750*650*1650mm |
| Spindle cooling | Submerged pump |

# ND4030Engraving machine machine

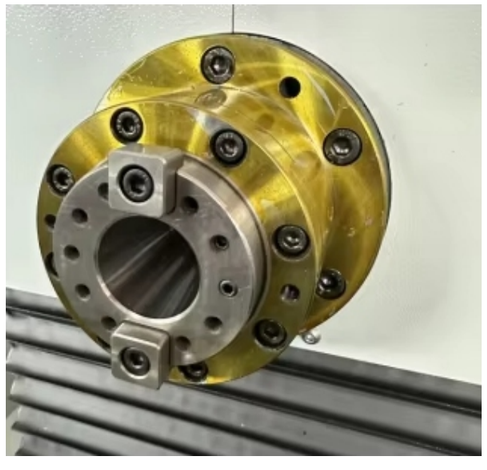


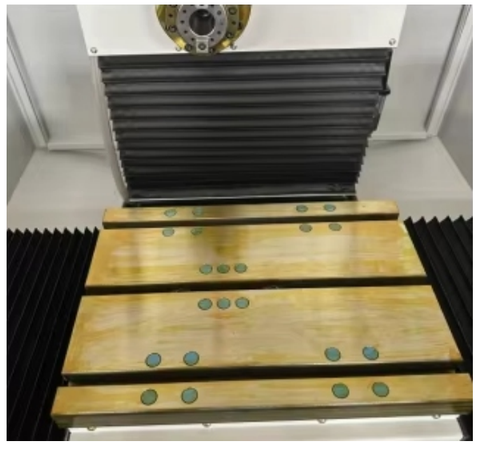
ND4030

| MODEL | ND4030 |
|---|---|
| XYZ stroke | 400∗300∗170mm |
| Linear guideway | X/Y=25 guide rail Z=20 guide rail |
| Ball screw | Original Taiwan 20 ballscrew C5 |
| CNC controller | DDCSE system |
| Spindle motor power | 3.2KW |
| Spindle speed | 24000rpm |
| Spindle taper | ER20 |
| ZYZ axis motor | 400W SERVO 2.4Nm 3000r/min |
| Worktable size | 400*300mm |
| Max. load | 60kg |
| T slot | M10*80*3 |
| XYZ fast moving | 15/15/10m/min |
| Cutting feed speed | 1-8000mm/min |
| Repositioning accuracy | ±0. 01 |
| Positioning accuracy | ≤0. 02 |
| Machine weight | 700kg |
| Total power | 4KW |
| Voltage | 220V |
| Dimension | 1300*1200*1950mm |
| Spindle cooling | Submerged pump |

## Mini CNC Horizontal Milling Machine 300CNC







NEW DRAGON
CHIZHOU NEW DRAGON MACHINERY CO.,LTD
300CNC

| MODEL | 300CNC |
|---|---|
| XYZ stroke | 300*300*250mm |
| Linear guideway | Original Taiwan 30 roller guide |
| Ball screw | Original Taiwan 25 ballscrew C5 |
| CNC controller | 1000MC industrial system |
| Spindle motor power | 3.7KW |
| Spindle speed | 6000rpm |
| Spindle taper | Bt30 |
| 3 axis motor | X/Y 1.5KW, Z 2KW |
| Worktable size | 350*200mm |
| Max. load | 100kg |
| T slot | M12*3 |
| XYZ fast moving | 20/20/15m/min |
| Cutting feed speed | 1-8000mm/min |
| Repositioning accuracy | 0. 0008mm |
| Positioning accuracy | 0. 005mm |
| Machine weight | 1200kg |
| Total power | 9KW |
| Lubrication | Automatic |
| Workpiece cooling | cutting compound |
| Dimension | 1500*1200*1800mm |

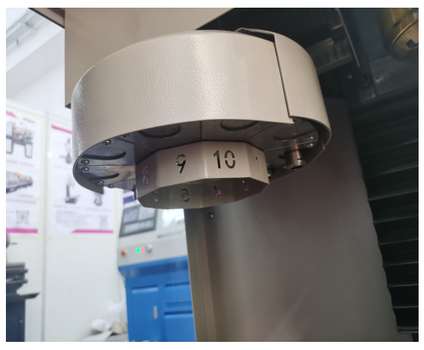
## XH7115B MINI MILLING MACHINE

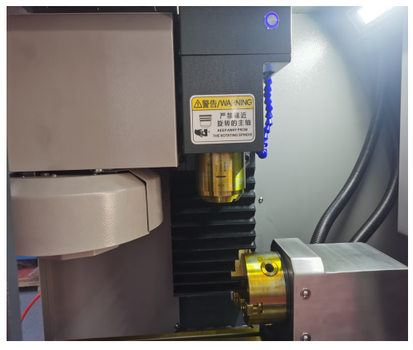
**Product Feature**

- Mini vertical machine center.
- It with tool  magazine and 4th axis.
- High  speed 24000rpm



## OPTIONAL ACCESSORIES





XH7115B

| MODEL | XH7115B |
|---|---|
| XYZ stroke | 230*130*260mm |
| Liner guideway | Original Taiwan 20 guide rail |
| Ballscrew | Original Taiwan 16 ballscrew C7 |
| CNC system | 980MC indrustrial system |
| Spindle motor power | 2.2KW |
| Spindle speed | 24000RPM |
| Spindle taper | ER16 |
| XYZ axis motor | 400W SERVO |
| Table size | 430*120mm |
| Max. load | 30kg |
| T solt | M8*40*3 |
| XYZ fast moving speed | 15/15/10m/min |
| Cutting feed speed | 1-8000mm/min |
| Position accuracy | ⩽0.01 |
| Repeatposition accuracy | ±0.015 |
| Dimension | 950*780*1100mm |
| Weight | 350kg |
| Voltage | 220V |
| Total power | 3.5KW |
| Lubrication | Manual |
| Workpiece cooling | Blow/Spray |
| Spindle cooling | Submerged pump |

## XH7115C MINI MILLING MACHINE

**Product Feature**

- Mini vertical machine center.
- It with tool  magazine and 4th axis.
- High  speed 24000rpm




## OPTIONAL ACCESSORIES





XH7115C

| MODEL | XH7115C |
|---|---|
| XYZ stroke | 230*130*260mm |
| Liner guideway | Original Taiwan 20 guide rail |
| Ballscrew | Original Taiwan 16 ballscrew C5 |
| CNC system | 1000MC indrustrial system(absolute Value) |
| Spindle motor power | 2.2KW |
| Spindle speed | 24000RPM |
| Spindle taper | ISO20-ER16 |
| XYZ axis motor | 400W absolute value |
| Table size | 430*120mm |
| Max. load | 30kg |
| T solt | M8*40*3 |
| XYZ fast moving speed | 15/15/10m/min |
| Cutting feed speed | 1-8000mm/min |
| Position accuracy | ⩽0.005 |
| Repeatposition accuracy | ±0.008 |
| Dimension | 900*760*1750mm |
| Weight | 350kg |
| Voltage | 220V |
| Total power | 3.5KW |
| Lubrication | Automatic |
| Workpiece cooling | Industrial liquid |
| Spindle cooling | Water cooling |

## XH7120A Mini CNC Milling Machine for Metal

**Features:**

MINI VERTICAL MACHINE CENTER, TAIWN BALLSCREW
24000RPM
SEERVO MOTORS ON 3 AXIS



XH7120A

| MODEL | XH7120A |
|---|---|
| XYZ stroke | 400*200*320mm |
| Linear guideway | Taiwan 20 guideway |
| Ball screw | Taiwan 20 C7 |
| CNC controller | DDCSE system |
| Spindle motor power | 3kw(Motorized spindle) |
| Spindle speed | 24000rpm |
| Spindle taper | Bt30 |
| 3 axis motor | 750W servo motor |
| Worktable size | 590*200mm |
| Max. load | 80kg |
| T slot | M10*60*3 |
| XYZ fast moving | 15/15/15m/min |
| Cutting feed speed | 1-8000mm/min |
| Repositioning accuracy | ≤0. 008 |
| Positioning accuracy | ±0. 015 |
| Machine weight | 500kg |
| Total power | 5KW |
| Lubrication | Manual |
| Workpiece cooling | Blow |
| Spindle cooling | Submerged pump |

# TMK28

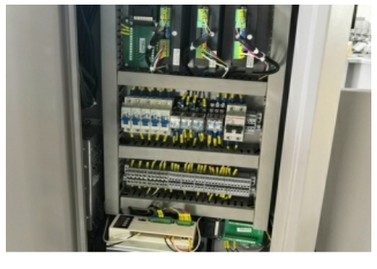
## TMK28 mini industrial CNC milling machine for cutting metal

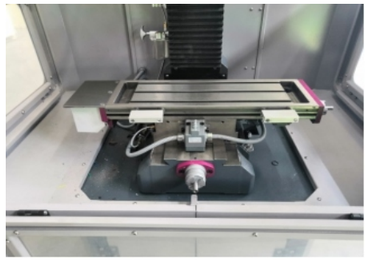
### Product Feature

•Control system, MACH3, Adtech
•High rigidity, high precision, high effeciency , strong cutting.









TMK28

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| MODEL | TMK28 |
|---|---|
| Max.drilling capacity | 28mm |
| Spindle taper | MT3/R8/BT30 |
| T slot | 12mm |
| Face milling capacity | 63mm |
| Tapping capacity | M16 |
| Spindle travel | 70mm |
| Spindle brushless motor MT3/R8 | Brushless motor 1.1KW |
| | Spindle speed 3000rpm |
| Spindle servo motor BT30 | Servo motor 1.8KW |
| | Torque of motor 6N.m |
| | Spindle speed 5000rpm |
| Worktable size | 540x180mm |
| Table loading | 100kg |
| Torque of X/Y/Z motor | 2.4N.m./2.4N.m/2.4N.m. |
| X/Y/Z travel | 325/185/280mm |
| Positioning accuracy | 0.01mm |
| Repositioning accuracy | 0.01mm |
| Distance between spindle to column | 212mm |
| Distance between spindle nose to table | 50-340mm |
| Dimension of machine | 1185x930x1540mm |
| N.W. | 460kg |
| Packing size | 1350x1070x1970mm |

# XH7120S mini cnc milling machine 3/4 axis BT30 spindle mini machine center








XH7120S

| MODEL | XH7120S |
|---|---|
| X/Y/Z axis motor | XY 750W, Z1.5KW Servo motor |
| CNC Controller | KYCNC 1000MC |
| Spindle speed | 8000r/min |
| Spindle | BT30 ATC tool change |
| Tool magazine | 12pcs disc tool change |
| XYZ stroke | X360 Y200 Z350 |
| XYZ guide rail | X20 YZ 25 guide rail |
| XYZ ball screw | XY2005 Z2505 |
| Voltage | 220V |
| Table flatness | 0.01/200mm |
| XY verticality | 0.01/200mm |
| ZY verticality | 0.01/200mm |
| XZ verticality | 0.01/200mm |
| G0 speed | 15000mm/min |
| Positioning accuracy | 0.015mm |
| Repeatability accuracy | 0.01mm |
| Working table size | 550X200mm |
| Packing size | 1200x700x1200mm |
| G.W. | 500kg |

## XH7120 mini cnc milling machine 3/4 axis BT30 spindle small machine center




XH7120

| MODEL | XH7120 |
|---|---|
| X/Y/Z axis motor | XY 750W, Z1.5KW Servo motor |
| CNC Controller | KYCNC 1000MC |
| Spindle speed | 8000 r/min |
| Spindle | BT30 ATC tool change |
| Tool magazine | 12pcs disc tool change |
| XYZ stroke | X360 Y200 Z350 |
| XYZ guide rail | X20 YZ 25 guide rail |
| XYZ ball screw | XY2005 Z2505 |
| Voltage | 220V |
| Table flatness | 0.01/200mm |
| XY verticality | 0.01/200mm |
| ZY verticality | 0.01/200mm |
| XZ verticality | 0.01/200mm |
| G0 speed | 15000mm/min |
| Positioning accuracy | 0.015mm |
| Repeatability accuracy | 0.01mm |
| Working table size | 550X200mm |
| Packing size | 1500x1100x1900mm |
| G.W. | 680kg |

# XH7121 cnc vertical machine center liner guide rail CNC milling machine

## Product Feature

It is used for school , science innovation center and science researching institution teaching demonstration

It is suitable for home use DIY, airplane model accessories and clocks & watches accessories processing.

It can process Ti, stainless steel, 45 steel, iron, aluminium, copper-

all kinds of nonferrous metal and wood, nylon-----all kinds of soft materials.




XH7121

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| MODEL | XH7121 |
|---|---|
| Worktable size | 710*210mm |
| Max. loading | 200kg |
| T slot | 14mm*4*63mm |
| X/Y/Z(Ball screw) | 25pitch-5mm P3 |
| X/Y/Z(W*T） | 28*26mm |
| X-axis | 360mm |
| Y-axis | 260mm |
| Z-axis | 450mm |
| Distance from spindle nose to table | 70-520mm |
| Distance from spindle center to column | 270mm |
| Spindle speed | 8000RPM |
| Tool holder type | BT30 |
| Tool clamping way | Pneumatically |
| ATC capacity | 8pcs |
| Cutting feed speed | 0-2000mm |
| Rapid speed | 15000mm |
| Positioning accuracy | 0.002mm |
| Repeatability accuracy | 0.002mm |
| Main spindle motor(servo) | 2.2/3.7kw-14/23.7NM |
| X/Y/Z motor(servo) | 1.8KW/6NM |
| N. W. | 1200/1300kg |
| Dimension | 1480*1400*2060mm |
| Packing size | 1660*1500*2000mm |

# XH7123 mini cnc milling machine 3/4 axis BT30 spindle small machine center 8000RPM




XH7123

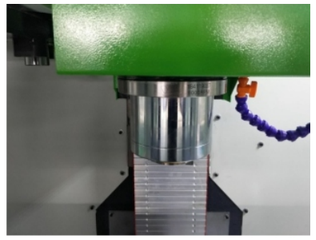
| MODEL | XH7123 |
|---|---|
| X/Y/Z axis motor | XY 750W, Z1.5KW Servo motor |
| CNC Controller | KYCNC 1000MC |
| Spindle speed | 8000 r/min |
| Spindle | BT30 ATC tool change |
| Tool magazine | 12pcs disc tool change |
| XYZ stroke | X400 Y250 Z400 |
| XYZ guide rail | X20 YZ 25 guide rail |
| XYZ ball screw | XY2005 Z2505 |
| Voltage | 220V |
| Table flatness | 0.01/200mm |
| XY verticality | 0.01/200mm |
| ZY verticality | 0.01/200mm |
| XZ verticality | 0.01/200mm |
| G0 speed | 20000mm/min |
| Positioning accuracy | 0.015mm |
| Repeatability accuracy | 0.01mm |
| Working table size | 630X230mm |
| Packing size | 1650x1350x2100mm |
| G.W. | 1200kg |

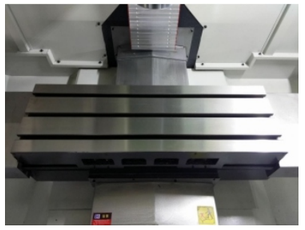
## XH7126 CNC milling machine or Vertical machine center



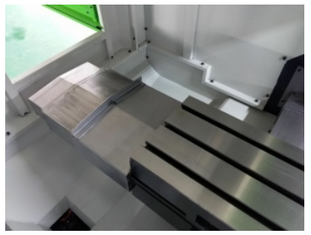

XH7126

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### STANDARD CONFIGURATION

•Guangtai numerical control 330iM

### OPTIONAL CONFIGURATION

•Numerous 990M numerical control system

•KND 1000M numerical control system

| MODEL | TM(H)K26 | XH7126 |
|---|---|---|
| The X axis stroke | 450mm | 500mm |
| Y trip | 320mm | 300mm |
| The Z axis stroke | 450mm | 400mm |
| Tool storage capacity | 12pcs | ------- |
| The spindle nose to mesa | 90-470mm | 90-520mm |
| Spindle center to post | 360mm | 360mm |
| Table size | 800*260mm | 800*260mm |
| T slot (size*number*spacing) | 14*3*80mm | 14*3*80mm |
| The workbench maximum load | 400kg | 400kg |
| The spindle taper | BT40 | BT40 |
| The standard spindle type | 6000rpm | 6000rpm |
| Spindle power | 3.7KW | 3.7KW |
| Cutting speed | 1-12000mm/min | 1-6000mm/min |
| Fast speed | X/Y/Z:15m/min | X/Y/Z:10m/min |
| Positioning accuracy | ±0.01/300mm | ±0.01/300mm |
| Machine tool gross weight | 2400kg | 1800kg |

# VMC540T VERTICAL MACHINE CENTER

## Features

It is suitable for 8-station processing of copper, iron, aluminum and stainless steel workpleces.

The operation is compatible with the common machining centers in the market and supports functions such as drilling, tapping, milling and engraving.

Adopting multiple patented technologies such as high rigidity and anti-deformation structure, it is suitable for processing stainless steeparts with tapping within 8mm and drilling within 10mm.

Due to its small floor space, it is convenient for one person to manage multiplemachines, improving per capita output efficiency and reducing processing costs.




VMC540T

| MODEL | VMC540T |
|---|---|
| Max.drilling dia. | Aluminum 8mm |
| Max. tapping dia. | Aluminun M6 |
| Max. spindle speed | 24000rpm |
| shank type | Bt30 |
| ACT content | 8PCS |
| Repeated positioning accuracy | 0.01mm |
| surface engraving accuracy | ±0. 02mm |
| Distance from table to spindle end | Min 150mm; Max 350mm |
| Table travel | 500*400mm |
| X axis travel | 400mm |
| Y axis travel | 500mm |
| Z axis travel | 200mm |
| X axis rapid speed | 30m/min |
| Y axis rapid speed | 30m/min |
| Z axis rapid speed | 25m/min |
| Various cutting suggested speeds | 10m/min |
| Max. spindle speed | 24000rpm |
| Spindle power | 4.5KW |
| Spindle type | Eletro spindle |
| Spindle taper | Bt30 |
| Screw | 25mm Taiwan precision P grade |
| Guide rail | 25mm Taiwan precision C3 grade |
| Spindle | Bt30 eletro spindle |
| Feed shaft servo | X,Y-1.2KW; Z-1.2KW |
| Spindle servo motor | 7. 5KW |
| Tool magazine | 8PCS |
| Base | Heavy duty anti-change patent base |

## VMC650T VERTICAL MACHINE CENTER

### Features

It is suitable for 8-station processing of copper, iron, aluminum and stainless steel workpleces.

The operation is compatible with the common machining centers in the market and supports functions such as drilling, tapping, milling and engraving.

Adopting multiple patented technologies such as high rigidity and anti-deformation structure, it is suitable for processing stainless steeparts with tapping within 8mm and drilling within 10mm.

Due to its small floor space, it is convenient for one person to manage multiplemachines, improving per capita output efficiency and reducing processing costs.




VMC650T
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| MODEL | VMC650T |
|---|---|
| Max.drilling dia. | Aluminum 10mm |
| Max. tapping dia. | Aluminun M10 |
| Max. spindle speed | 24000rpm |
| shank type | Bt30 |
| ACT content | 12PCS |
| Repeated positioning accuracy | 0.01mm |
| surface engraving accuracy | ±0. 02mm |
| Distance from table to spindle end | Min 150mm; Max 450mm |
| Table travel | 600*500mm |
| X axis travel | 500mm |
| Y axis travel | 600mm |
| Z axis travel | 300mm |
| X axis rapid speed | 30m/min |
| Y axis rapid speed | 30m/min |
| Z axis rapid speed | 25m/min |
| Various cutting suggested speeds | 10m/min |
| Max. spindle speed | 24000rpm |
| Spindle power | 7.5KW |
| Spindle type | Eletro spindle |
| Spindle taper | Bt30 |
| Screw | 32mm Taiwan precision P grade |
| Guide rail | 32mm Taiwan precision C3 grade |
| Spindle | Bt30 eletro spindle |
| Feed shaft servo | X,Y-1.2KW; Z-1.5KW |
| Spindle servo motor | 7. 5KW |
| Tool magazine | 12PCS |
| Base | Heavy duty anti-change patent base |

# VMC650(XH7145) Vertical machine center

## Standard configuration

KND-200M CNC system

16 bamboo hat type tool magazine

High rigidity ,high speed spindle unit

## Optional configuration

828D, FANUC OI Mc SIEMENS or Mitsubishi M70 CNC system

24 the disc knife library Fourth axis




VMC650
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CHIZHOU NEW DRAGON MACHINERY CO.,LTD

| MODEL | XH7145 | VMC650 |
|---|---|---|
| X-axis travel | 600mm | 600mm |
| Y-axis travel | 450mm | 450mm |
| Z-axis travel | 500mm | 500mm |
| Spindle nose to table | 130-630mm | 120-670mm |
| Spindle center to column guide-way face | 485mm | 460mm |
| High speed feeding X,Y axis | 24mm | 12mm |
| High speed feeding of Z axis | 18mm | 10mm |
| Feeding speed | 1-5000mm/min | 1-5000mm/min |
| Table size | 800x450mm | 1000x450mm |
| Max.loading capacity of table | 500kg | 600kg |
| The T-solt No./width/distance of table | 3/18/160 | 3/18/125 |
| Spindle max. speed | 80-8000r/min | 80-8000r/min |
| Main motor rated power | 5.5kw | 5.5kw |
| Spindle nose taper | BT40 | BT40 |
| Rail type | 3 axis wire rails | 3 axis wire rails |
| X/Y/Z Positioning accuracy | 0.012/0.01/0.01mm | 0.016/0.012/0.012mm |
| X/Y/Z repeat accuracy | 0.008/0.006/0.006mm | 0.01/0.008/0.008mm |
| Max. length of tools | 300mm | 300mm |
| ATC(standard/ optional) | 16/24 | 16/24 |
| Max. tool diameter | 80/130mm,80/125mm | 80/130mm,80/125mm |
| Max. tool length | 300mm | 300mm |
| Pneumatic press | 0.6mpa | 00.6mpa |
| N.W. | 4200kg | 4200kg |
| Dimension | 2500x2000x2450mm | 2500x2000x2450mm |

# VMC850

**VMC850 high quality cnc milling machine**
**VMC machine center**

**Features:**
Taiwan spindle BT40
Taiwan Hiwin or PMI linear guideway
24pcs disc-type ATC




# VMC850

| MODEL | VMC850 |
|---|---|
| Worktable size | 1000x500mm |
| X axis travel | 800mm |
| Y axis travel | 500mm |
| Z axis travel | 500mm |
| Spindle motor | 7.5KW |
| Spindle range | 80-8000rpm |
| Spindle taper | BT40 |
| Spindle nose to worktable surface | 150-650mm |
| Spindle center to column surface | 550mm |
| ATC type | Disc type |
| Magazine capacity | BT40/34pcs |
| Max.tool dia. | 80mm |
| Max. tool length | 300mm |
| Tool changing time | 2.5sec. |
| Electric power | 10KVA |
| Air pressure requirment | 5-7kgf/cm² |
| Positioning accuracy | 0.01mm |
| Machine weight | 5300kg |
| Over size | 2800x2700x2560mm |

# VMC1060

## VMC1060 high quality cnc milling machine
## VMC machine center

**FEATURE:**

All 3axis use roller guideway,match up the nut preloading and screw prestretched,preeliminate backlash and temperature rise,so that the machine can achieve stability of the positioning and repeatability accuracy.
Besides,the X/Y/Z axis use precision linear rails to ensure the control of the positioning accuracy and processing errors,so that the machine can have high accuracy and long working life.




VMC1060

| MODEL | VMC1060 |
|---|---|
| Worktable size | 1200x600mm |
| T-slot | 5X18X100mm |
| X/Y/Z axis travel | 1000/620/630mm |
| Distance from spindle center to column | 667mm |
| Distance from spindle nose to worktable surface | 110-740mm |
| Spindle taper | BT40 |
| Spindle power | 11/15KW |
| Max. spindle speed | 8000/10000rpm |
| Max. feed speed | 12m/min |
| Rapid feed speed(X/Y/Z) | 36/36/32m/min |
| X/Y/Z axis ball screw | 4016 |
| Tool magazine capacity | 24T |
| Positioning accuracy | ±0.010mm |
| Re-positioning accuracy | ±0.005mm |
| Max. loading of worktable | 600kg |
| Dimension | 2850×2450×2850mm |
| Machine weight | 5600kg |