## ACCESSORIES

- ![Standard](image1.png)
- ![Optional](image2.png)
- ![None](image3.png)

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**Note:** The manufacturer reserves the right to modify the design, specifications, mechanisms, etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.
The NXV series is integrated with brand new exterior designs, demonstrating highest stability along with great configuration. The YCM NXV series offers high performance, high precision and high speed at an economical price.

- **Rapid Feedrate**
  - NXV600A → 48/48/48 m/min.
  - NXV1020A → 48/48/32 m/min.

- **Auto Tool Change Time**
  - NXV → 1.8 Sec.

- **Tool Magazine Capacity**
  - NXV1020A/AM → Max. 40T

- **Max. Spindle Power**
  - NXV1380A / NXV1680A → 30 kW

- **Acceleration Enhancement**
  - NXV600A → 1g/1g/0.8g
  - NXV1020A → 1g/0.8g/1g

- **YCM In-house IDD Spindle**
  - Tool unclamping cushion extends spindle bearing life by protecting spindle bearing from tool unclamping force.
  - Spindle cooling system (opt.) removes heat efficiently and minimizes thermal deformation.
  - Ceramic bearings feature low inertia mass, low centrifugal force, high rigidity and low coefficient of thermal deformation.
  - High precision helical springs features high dynamic balance and low vibration.
  - Grease lubrication for 12,000 rpm spindle; Oil-air lubrication for 15,000 rpm spindle.

- **High Rigidity Design**
  - The rigid body construction makes for uncompromising precision and rigidity.
  - FEM analysis is adopted to ensure the best mass arrangement and rib construction of the machine for constant stability under the intensive load of heavy-duty cutting.

- **3 Axes Direct Drive Design**
  - Direct drive provides backlash free, best accuracy, reliability and stability.
  - All axial AC servo motors equipped with Absolute Positioning Encoders, no zero return needed.

- **High Stability Tool Magazine**
  - Absolute encoder ATC system provides high stability and speed.
  - Inverter controlled, prevents tool change speed from changing under different power supply frequency.
  - Tool change speed is programmable for heavy tools, prob.

- **Automatic Tool Magazine Door Design**
  - Driven by pneumatic cylinder.
  - Prevent coolant and chips from entering tool magazine.

- **Brand New Exterior Design**
  - Full enclosure exterior (including top cover).
  - Convertible side window for convenient chip removal.
  - Aesthetic rear cover design.
  - Smooth chip removal.

- **Coolant Shower for Efficient Chip Removal**
  - NXV Series std.

- **Tool Unclamping Cushion**
  - Protects spindle bearing from tool unclamping force.

- **Door Design**
  - Smooth chip removal.
  - Aesthetic rear cover design.
  - Convertible side window for convenient chip removal.
  - Full enclosure exterior (including top cover).
  - Prevent coolant and chips from entering tool magazine.

- **Driven by pneumatic cylinder.**
  - Inverter controlled, prevents tool change speed from changing under different power supply frequency.
  - Tool change speed is programmable for heavy tools, prob.

- **Automatic Tool Magazine Door Design**
  - Driven by pneumatic cylinder.
  - Prevent coolant and chips from entering tool magazine.

- **Brand New Exterior Design**
  - Full enclosure exterior (including top cover).
  - Convertible side window for convenient chip removal.
  - Aesthetic rear cover design.
  - Smooth chip removal.

- **Coolant Shower for Efficient Chip Removal**
  - NXV Series std.
### FANUC System 6,000rpm

- **NXV1680**
- **NXV600**
- **NXV1380**

### FANUC System 10,000rpm

- **NXV1680**
- **NXV600**
- **NXV1380**

### FANUC System 12,000rpm

- **NXV600**
- **NXV1680**
- **NXV1380**

### FANUC System 15,000rpm

- **NXV600**
- **NXV1680**
- **NXV1380**

### HEIDENHAIN System 12,000rpm

- **NXV1020** / **NXV1380** / **NXV1680**

### HEIDENHAIN System 15,000rpm

- **NXV1020** / **NXV1380** / **NXV1680**

### SIEMENS System 12,000/15,000rpm

- **NXV1020** / **NXV1380** / **NXV1680**
The NXV 560A high speed high power vertical machining center is specially designed for precision manufacturing and high productivity machining industries such as auto parts, high precision aerospace and electronic industries.
The brand new NXV series offers excellent cost performance with high precision and economical price. NXV1020A incorporates the features of high speed and high rigidity. Satisfying diverse machining requirements of automotive job shops and electronics industries. The high precision NXV1020AM meets your demands for die & mold machining.

**NXV 1020A/AM**

**High Performance Vertical Machining Center**

Repeatability (X/Y/Z)  R

0.018/0.015/0.015 mm  0.00037/0.00053/0.00053

**Spindle Speed**

- **Spindle Speed**: 1,500rpm
- **Feedrate**: 600mm/min.

**Face Milling**

- **Depth of Cut**: 6.5 mm
- **Spindle Speed**: 800rpm x 5T
- **Feedrate**: 1,500rpm

**Rigid Tapping**

- **Tapping**: M1.2 x 0.25P
- **Spindle Speed**: 1,500rpm
- **Feedrate**: 240mm/min.

**U-Drill**

- **Cutter Diameter**: Ø34 mm
- **Spindle Speed**: 1,500rpm
- **Feedrate**: 240mm/min.

**Tapping**

- **Tool**: M1.2 x 0.25P
- **Feedrate**: 240mm/min.

**Material Removal Rate**

- **Material Removal Rate**: 648 cc/min.
- **Spindle Speed**: Ø63mm x 6T
- **Feedrate**: 300mm/min.
- **Depth of Cut**: 60mm

**Applied Industries**

- **Automotive, job shops and electronic industries.**
The NXV 1380A / 1680A high rigidity vertical machining center offers extended travels at an affordable price. It is most suitable for automotive applications. The NXV 1380A / 1680A provides high speed, high precision, and extreme rigidity with excellent cost performance.

1. 6 slide blocks on X-axis supporting 1,500 maximum load on table.
2. 4 linear guideways on Y-axis providing best dynamic balance.
3. Dual wall structure saddle providing high rigidity.
4. High rigidity and high loading roller type linear guideways applied on the three axes.
5. Penta chip augers (4 Y-axial + 1 X-axial) ensure fluent chip removal preventing chips from piling up.
6. Pretension ballscrews applied on the three axes increase axial rigidity providing less thermal deformation.
7. Wide base structure with 10 leveling pads.

NXV 1380A / 1680A Rapid Feedrate

- X: 30 m/min 1,181 lpm
- Y: 30 m/min 1,181 lpm
- Z: 24 m/min 945 lpm

**ACURACY**

<table>
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<tr>
<th>Axial Travel</th>
<th>ISO 10791-4</th>
<th>YCM*</th>
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<tbody>
<tr>
<td>Positioning (X/Y/Z) A</td>
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<td>Repeatability (X/Y/Z) R</td>
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</table>

*All values shown are maximum for the tolerated unprocessed measurements.
The NXV 1680B high rigidity vertical machining center offers extended travels at an affordable price. It is most suitable for automotive and aerospace applications.

**Face Mill**
- **S45C Steel**
- **Depth of Cut**: 9 mm
- **Material Removal Rate**: 907 cc/min.
- **Spindle Speed**: 600 rpm
- **Feedrate**: 600 mm/min.
- **Width of Cut**: 60 mm
- **Material**: Steel S45C

**Face Mill**
- **S45C Steel**
- **Depth of Cut**: 9 mm
- **Material Removal Rate**: 907 cc/min.
- **Spindle Speed**: 1,400 rpm
- **Feedrate**: 4,200 mm/min.
- **Width of Cut**: 60 mm
- **Material**: Steel S45C

**U-Drill**
- **S45C Steel**
- **Cutter Diameter**: 59 mm
- **Tool**: ø59 mm
- **Spindle Speed**: 1,160 rpm
- **Feedrate**: 116 mm/min.
- **Depth of Cut**: 50 mm

**TAP**
- **S45C Steel**
- **Tapping**: M36
- **Tool**: M36 x 4P
- **Spindle Speed**: 44 rpm
- **Feedrate**: 176 mm/min.
- **Depth of Cut**: 25 mm

**Accuracy**
- **ISO 10791-4**
- **YCM**:
  - **Axial Travel**:
    - **Positioning (X/Y/Z)**: A
      - 0.042/0.025/0.025 mm
    - **Repeatability (X/Y/Z)**: R
      - 0.005/0.004/0.004 mm

*All values shown above are recommended for the respective un-loaded systems.
**DIMENSIONS**

**TABLE SIZE**

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<tr>
<td>2,250</td>
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</table>

**CUTTING CAPACITY**

**FACE MILL**

- **S45C Steel**
  - **Depth of Cut**: 9 mm
  - **Tool**: ø160mm x 10T
  - **Spindle Speed**: 375rpm
  - **Feedrate**: 375mm/min.
  - **Width of Cut**: 125mm
  - **Material Removal Rate**: 756 cc/min.
  - **Tool**: ø125mm x 8T
  - **Spindle Speed**: 375rpm
  - **Feedrate**: 1,000mm/min.
  - **Width of Cut**: 120mm
  - **Depth of Cut**: 3.5mm

**U-DRILL**

- **S45C Steel**
  - **Cutter Diameter**: ø65 mm
  - **Tool**: ø65mm
  - **Spindle Speed**: 500rpm
  - **Feedrate**: 160mm/min.
  - **Depth of Cut**: 50mm

**TAP**

- **S45C Steel**
  - **Tapping**: M48 x 5
  - **Spindle Speed**: 34rpm
  - **Feedrate**: 170mm/min.
  - **Depth of Cut**: 40mm

**CHIP REMOVAL SYSTEM**

**NXV 600A**

- Chip Conveyor (opt.)

**NXV 1680B**

- Quad-Chip Auger System
- Quad-Chip Auger with Rear Side Chip Conveyor (opt.)

**NXV 1020A / AM, NXV 600A**

- Triple-Chip Auger System
- Rear Side Chip Conveyor (opt.)
- Triple Chip with 45º Pipe
- Dual-Chip Auger System (opt.)
- Left / Right-Hand Side Chip Conveyor (opt.)

**NXV 1380A / 1680A**

- Penta-Chip Auger with 45º Pipe
- Penta-Chip Auger with Rear Side Chip Conveyor (opt.)
- Quad-Chip Auger with Left-hand Side Chip Conveyor (opt.)
MXP-200 FA

- High Response AC Digital Servo & Spindle Drives with High Definition
- AICC II High Speed High Accuracy with Manual / Auto Switching on/off Machining
- JERK Control Function (opt.)
- High Rigidity Tapping, Helical Interpolation
- Custom Marco B and Tool Path Graphics
- Manual Guide I with large Screen Display
- Program File Management for Easy Program Classifying
- USB Interface for Easy Parameters & CNC Programs Transfer
- 512KB Memory
- High Speed Positioning Function (opt.)
- Memory Card Program Edit & Operation
- NANO Smoothing Function (opt.)
- 400 Pairs Tool Offset, 400 Total Registered Programs
- 48 Pairs of Workpieces Coordinate System
- Extended Parts Program Editing (Cut, Copy, and Paste, Maximum 4,000 Characters)

The YCM Production Line Monitoring System i-Direct overcomes the limitations of time and distance. This software provides plant operators with instant production status, including production value, output, standby, alarm time, status display and malfunction records of the machine. These data could be browsed online and printed. When incidents occur, i-Direct will automatically warn plant operators through e-mail or MMS message. With i-Direct Production Line Monitoring System the plant operators can easily keep track of production statuses regardless of time and distance.


## SPECIFICATIONS

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<tr>
<th>Model</th>
<th>NXV600A</th>
<th>NXV560A</th>
<th>NXV1020A</th>
<th>NXV1020B</th>
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## TRAVEL

| X-axis Travel | 600 mm 23.6" | 600 mm 23.6" | 600 mm 23.6" | 600 mm 23.6" | 600 mm 23.6" | 600 mm 23.6" | 600 mm 23.6" |
| Y-axis Travel | 410 mm 16.1" | 410 mm 16.1" | 410 mm 16.1" | 410 mm 16.1" | 410 mm 16.1" | 410 mm 16.1" | 410 mm 16.1" |
| Z-axis Travel | 400 mm 15.7" | 400 mm 15.7" | 400 mm 15.7" | 400 mm 15.7" | 400 mm 15.7" | 400 mm 15.7" | 400 mm 15.7" |

## TABLE

| Table Size | 700 x 420 mm | 700 x 420 mm | 700 x 420 mm | 700 x 420 mm | 700 x 420 mm | 700 x 420 mm | 700 x 420 mm |
| No. T-slots x Size x Pitch | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" | 3 x 14 mm 0.55" |
| Max. Load on Table | 500 kg 1,102 lb | 500 kg 1,102 lb | 500 kg 1,102 lb | 500 kg 1,102 lb | 500 kg 1,102 lb | 500 kg 1,102 lb | 500 kg 1,102 lb |

## FEEDRATE

| X/Y/Z Rapid Feedrate | 48 / 48 / 48 m/min. 1,890 / 1,890 / 1,890 ipm | 24 / 24 / 16 m/min. 945 / 945 / 630 ipm | 24 / 24 / 16 m/min. 945 / 945 / 630 ipm | 24 / 24 / 16 m/min. 945 / 945 / 630 ipm | 24 / 24 / 16 m/min. 945 / 945 / 630 ipm |
| Cutting Feedrate | 30 / 30 / 24 m/min. 1,181 / 1,181 / 945 ipm | 20,000 / 20,000 / 16,000 mm/min. 787 / 787 / 630 ipm | 20,000 / 20,000 / 16,000 mm/min. 787 / 787 / 630 ipm | 20,000 / 20,000 / 16,000 mm/min. 787 / 787 / 630 ipm |

## ATC

| Tool Magazine Capacity (opt.) | 24T | 24T | 24T | 24T | 24T |
| Max. Tool Weight (per piece) | 6 kg 13.2 lb | 6 kg 13.2 lb | 6 kg 13.2 lb | 6 kg 13.2 lb | 6 kg 13.2 lb |
| Max. Tool Dimensions (opt) | ø76 x 255 mm (ø125 x 305 mm) | ø76 x 255 mm (ø125 x 305 mm) | ø76 x 255 mm (ø125 x 305 mm) | ø76 x 255 mm (ø125 x 305 mm) | ø76 x 255 mm (ø125 x 305 mm) |
| Tool Changer Method | Arm Type | Arm Type | Arm Type | Arm Type | Arm Type |
| Tool Selection Method | Random | Random | Random | Random | Random |

## GENERAL

| Pneumatic Supplier | 5.5 kg/cm² 78.2 psi |
| Power Consumption (Transformer) | 26.2 kW (30 kW) | 27.8 kW (30 kW) | 31.3 kW (40 kW) | 33.9 kW (48 kW) | 43.3 kW (65 kW) |
| Machine Weight | 3,000 kg 6,614 lb | 3,390 kg 7,494 lb | 5,050 kg 11,215 lb | 10,300 kg 22,756 lb | 10,500 kg 23,149 lb |

**Note:** Above specifications may vary depending on the machine and the surrounding environment. The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions. If you have any questions about other CNC controllers, please contact YCM sales representative.