

CNC DOUBLE COLUMN MACHINING CENTER

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SDV Series

Special Design for 5-Face Machining Center Demands

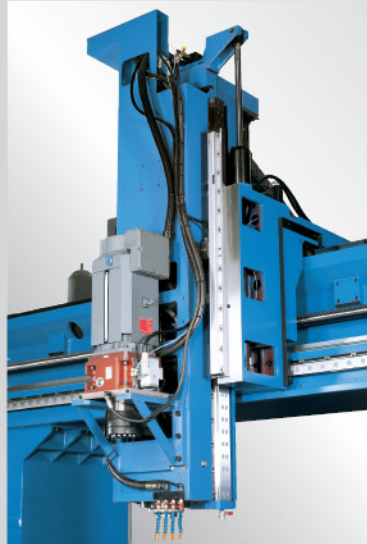
- Y-axis linear guide ways are configured for horizontal and vertical directions.
- Y-axis dual linear guide ways center to center distance is 737 mm.
- Y-axis beam with two linear guide ways supported with "Ladder" construction. The linear distance between two guide ways is 300 mm.
- Spindle center to Y-axis block distance just 315 mm.
- Spindle center to Z-axis linear guide way distance just 60 mm.
- Z-axis roller linear guide way THK. SRW85.

Y-Axis Special Construction

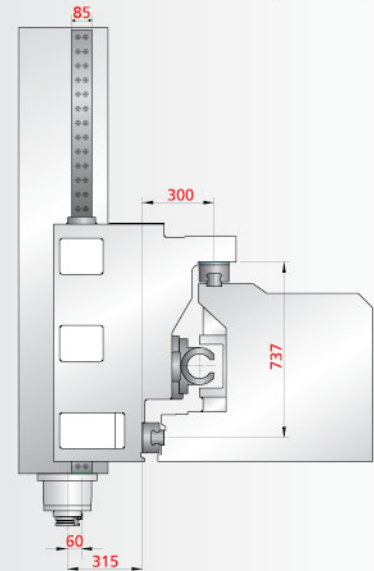
CNC Double Column Machining Center

- For SDV-series, the motion of Z-axis is supported by two linear guide ways.

Designation with two linear guide ways



Designation with two linear guide ways



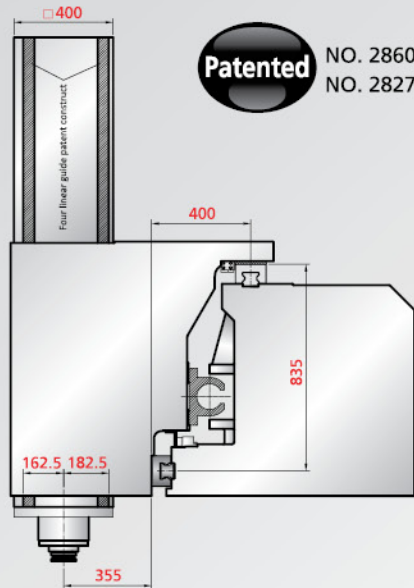
● Special Characteristics

- Any table over width of 2,200 mm is equally supported with 3 linear ways. Special design for positioning accuracy, loading balance and prevent heat deformation. Linear guide ways are configured for horizontal and vertical movement.
- X-axis table completely supported. Maintains the highest precision at any position with zero overlay.
- 1,000 mm and 1,200 mm between double column construction provide very good rigidity. Stability is 30% or more than ordinary frames.
- 25% or more strength than the ordinary parallel slide ways.
- Box-shape bed is supported with built-in reinforcing ribs.
- Super-wide column distances can be custom-made to order for super-long requirements.

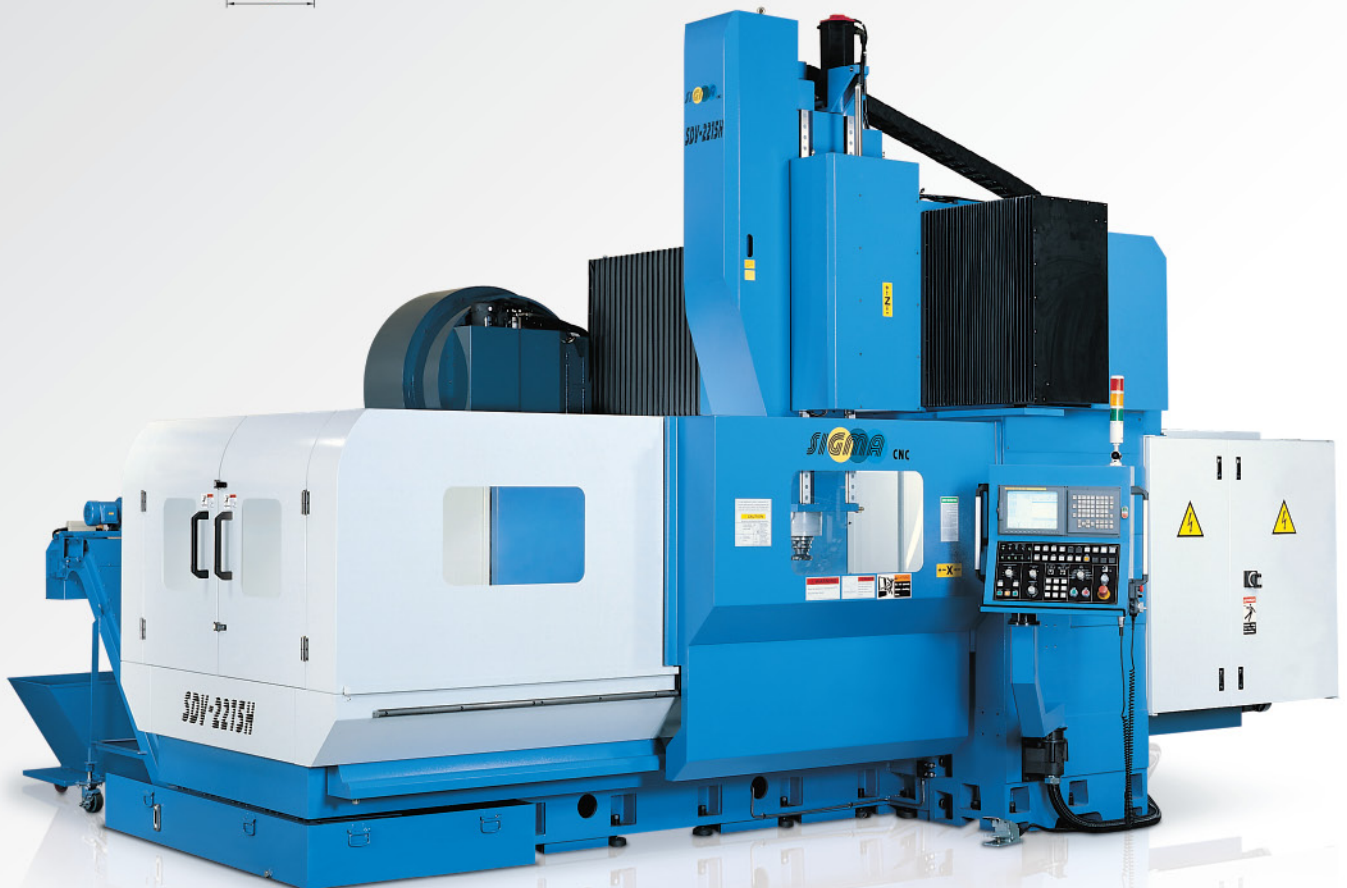
SDV-H Series Special Patented Design Construction

CNC Double Column Machining Center

- Patented SRG65 roller type linear guide way at the Y-axis allows for vertical and horizontal movement with 50% higher rigidity than normal set-ups.
- SRG45 roller type linear guide ways at the spindle head Z-axis, designed with 4-linear guide ways and box-way construction. During heavy duty cutting vibrations are eliminated, and during fine cutting inert doesn't occur, resulting in higher surface accuracy.



- Y-axis guide ways configured for horizontal and vertical directions.
- Y-axis dual linear guide ways center to center distance is 835 mm.
- Spindle center to Y-axis block distance just 355 mm.
- Spindle head constructed with 4-linear guide ways. (SIGMA's patented design)
- Y-axis dual guide ways supported with "Ladder" construction, distance between the two guide ways is 400 mm.



High Rigidity Structure

5-Face Machining
Center Construction
Makes the Machine
Unassailable

- High rigidity structure with heavy load linear guide ways. Linear guide ways fit with bearing blocks to balance the load. Low wear rate, high loading capacity and not easy to warp. Maintains precision against joggling. Machining plane precision ensured.
- 4 m X-axis and higher models:
 - Additional Y-axis ballscrew support design (limited to 3 rail X-axis models and higher only)
 - Additional X-axis backlash free drive (patented design)

Machine Structure



SDV Series
(Z-axis — 2 linear guide ways)



SDV-H Series
(Z-axis — 4 linear guide ways)

Beam Structure



Y-axis ballscrew support

Machine Base

- Welding or casting is customer-made to order for SDV-series column distance 2,000 mm.
- Welding or casting is customer-made to order for SDV-H series column distance 1,600 mm and 2,000 mm.



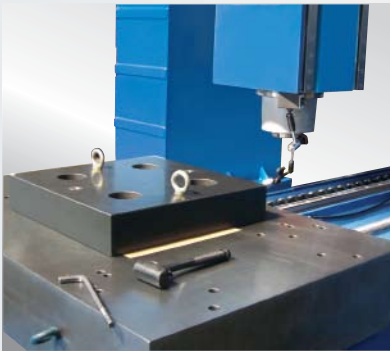
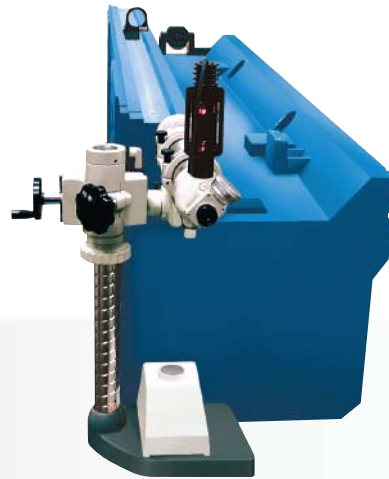
X-axis ballscrew support



X-axis gear transmission

3 Axes Transmission with Precision Adjustment

- All the three axes employ preloaded high precision C3 class double nut ball screws.
- Pre-loaded ball screw fits different screw specifications. Prevents thermal deformation and increases position accuracy.



- Transmission on all 3 axes fit with dust and water proofing to increase service life and maintain precision.
- A big coolant tank of 400-600 liters and a "big flow" pump provide cooling. Through hole tool shanks are available. Pump for coolant through spindle can be installed in the same coolant tank. An extra sub-coolant tank can be installed at any time.

- During linear guide way assembly, the straightness of linear guide ways the horizontal & vertical planes are calibrated by optical straight tester to ensure precision. All procedures in assembly pass geometric inspection.
- Screw type chip conveyers on two sides easily deliver debris to a chain type conveyer, which then deposits chips in a chip tank. Operation is simple, easy and safe... labor saving automation.



- Optimum design for work piece loading / unloading. Full access through door on operation side with a vertical action splash guard in front of the machine and an added lock for safety.

SDV Series

- All spindles run on P4 class bearings. The spindle transmission (4,000 and 6,000 rpm) and the hi / low speed shifts through the German Z/F 2-step gear box.
- SDV series available with 2 optional types of transmission shafts according to machining required.

● Z/F Gear box



Spindle BT-50

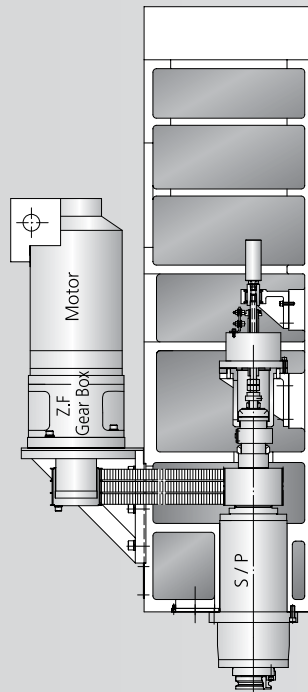
Available 4,000 rpm, 6,000 rpm (8,000 rpm only in SDV-H Series)

High Accuracy High Torque Spindle

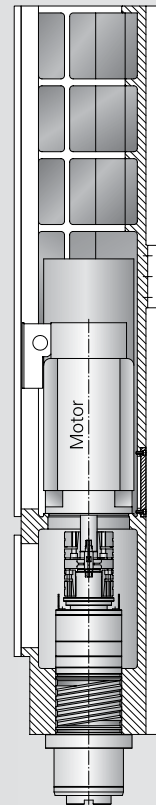
● Direct-Dirve Spindle



BT-50, CAT-50, DIN69871 (8,000, 1,0000rpm)



Gear box transmission system (4,000, 6,000 rpm)



Direct-drive spindle without Z.F gear box (8000, 10000 rpm)

Available collocates with Z.F gear box
Contact us for spindle details.

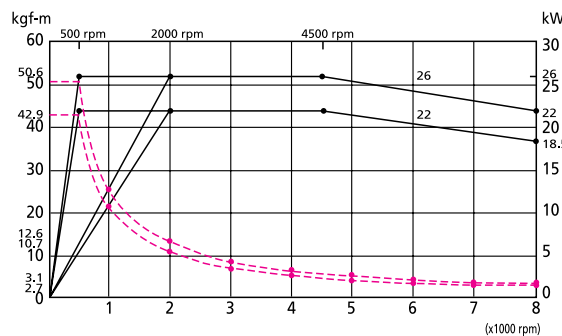
● Example

- 35/30 HP Spindle Motor. BT-50, 4,000 rpm Spindle

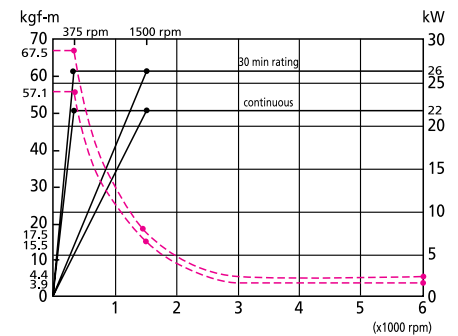
● Cutting Capacity

- Face cutter: 125 mm, 6 teeth; cutting width: 100 mm
- Feed rate: 1,250 mm/min; cutting depth: 6 mm
- Spindle speed: 650 rpm; Rate of metal removal: 750 c.c/min
- Material: S45C

Spindle Torque CNC Double Column M / C



Motor 26/22 kW BT-50 spindle 8,000 rpm output power and torque characteristic
RATE: (1:3, 1.34:1) with Z/F gear box 2k250



Motor 26/22 kW BT-50 spindle 6,000 rpm output power and torque characteristic
RATE: (1:4, 1:1) with Z/F gear box 2k250

SDV-H Series

● Built-in Motor Spindle



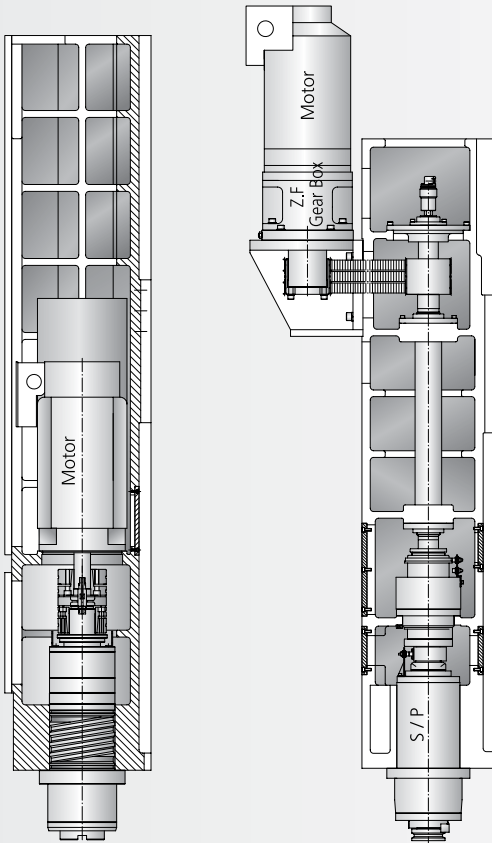
BT-50, CAT-50, DIN 69871



BT-40, HSK-A63



BT-50, HSK-A100



Direct-drive spindle without Z.F gearbox (8000, 10000 rpm)
Available collocates with Z.F. gear box
 Contact us for spindle details.

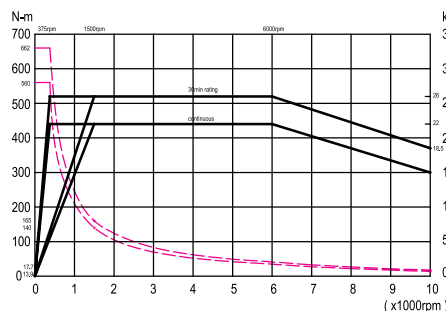
Gear box transmission system
 4,000 rpm, 6,000 rpm,
 8,000 rpm

■ H-type: Available with spindle BT-50 (4,000, 6,000, 8,000 rpm) with Z.F. gear box and built-in motor (BT-50, 10000 rpm / HSK-A100, 10,000, 12,000 rpm), (BT-40, HSK-A63, 18,000 rpm NSK spindle), (HSK-A63, 12,000~28,000 rpm inverter spindle)

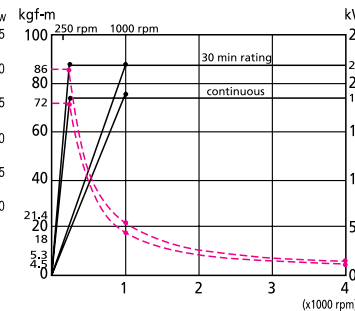
■ The spindle motor is a high torque / horse power servo motor with 2-step Hi / Low gear box. The low speed position with high torque, is suitable for heavy duty cutting. The high speed position for fast machining, meets the strict tolerance demands.

■ SIGMA developed gears transmission system, customer can choose according their demand.

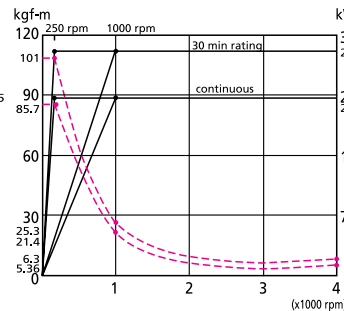
Refer to the torque chart below. Servo motors of different brands should be confirmed separately.



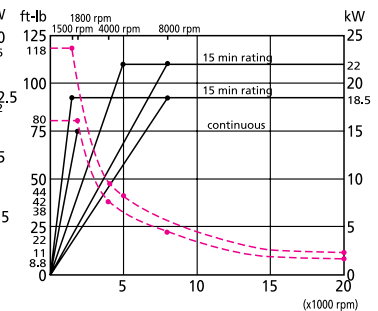
Motor 26/22 kW BT-50 spindle 10000 rpm output power and torque characteristic
 RATE: (1:4, 1:1) with Z.F gear box 2k250 direct drive



Motor 22/18.5 kW BT-50 spindle 4,000 rpm output power and torque characteristic
 RATE: (1:6, 1:1.5) with Z/F gear box 2k250



Motor 26/22 kW BT-50 spindle 4,000 rpm output power and torque characteristic
 RATE: (1:6, 1:1.5) with Z/F gear box 2k250



FANUC NSK-Built-in motor 18.5/22 kW spindle α B112L/20000i output power and torque characteristic

Standard Accessories



● **Spindle Oil Chiller Maintains Temperatures at Normal Levels**

During high-speed & long term turning the spindle holds steady accuracy, adding extended lifespan.



● **Centralized Automatic Lubricating System**

When a pre-set pressure is reached, all the lubricating points will release lubricant at the same time through a pressure feedback system. Any blockage or leakage is detectable, providing long term maintenance.



● **Swing Type Revolving Control Box with MPG Hand Wheel**

Easy to operate and adjust, increasing operation convenience.

Optional Accessories

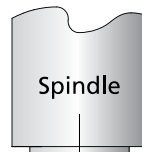
Manual

Head Stock

The head stock is equipped with a short spindle that allows installation of an optional special milling head, efficiently adding many machining applications.



Extension Head



Spindle



90° Angular Head



Swing Divided Angle Head

AAC Available Two Head Stocks (only for SDV-H series)

(AAC) 90° angle head, swing divided angle head index in C-axis (available 4, 8, 12, 24, 72 position), extension head (360, 560 mm)

Semi-Auto head change, head change by manual set-up, C-axis divided by G-code control.

You can choose max. random two heads for AAC

Semi - Auto

Auto

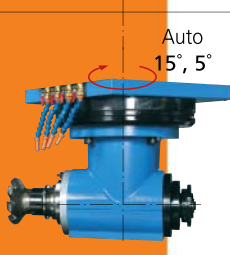


Spindle

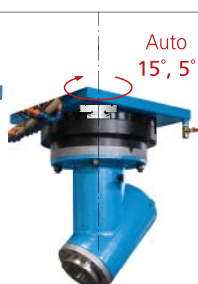
Automatic Index



Extension Head max. 4,500 rpm



90° Angular Head max. 3,000 rpm (Automatic tool changing)



45° Milling Head max. 2,500 rpm



Swing Divided Angle Head (1°) max. 3,000 rpm

Auto 15°, 5°

Auto 15°, 5°

Auto 15°, 5°

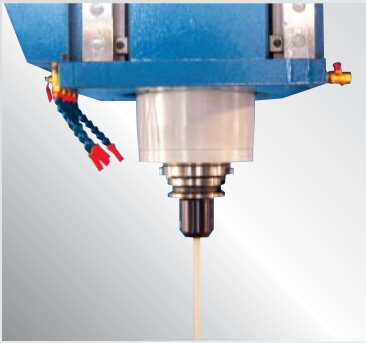
Manual 1°



"Head magazine" for A.A.C.

Optional Accessories

● CTS Coolant Through Spindle System



● ATC Various options available for different tool magazine capacities and tool change requirements.

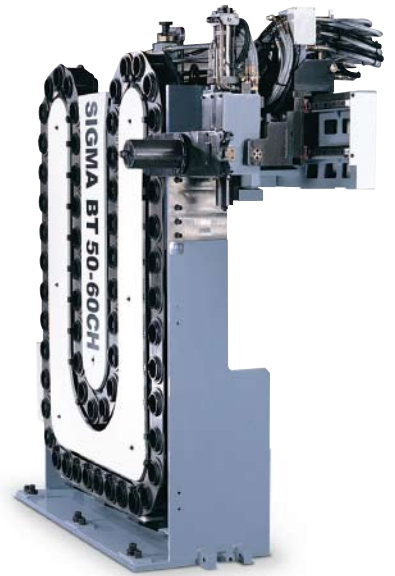
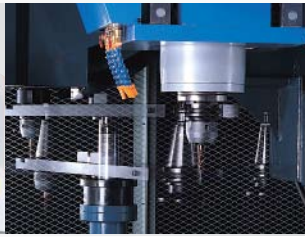
Chain Type

(capacity: 32, 40, 60 tools)

Drum Type (20 pcs)

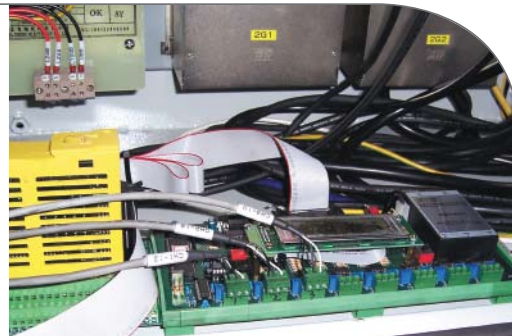
V & H Type

(capacity: 40, 60, 80 tools)



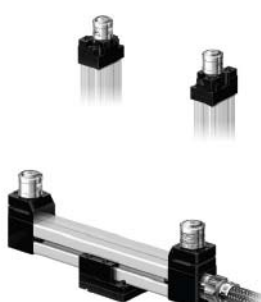
● Spindle Thermal Compensation System

keeps spindle displacement within 0.03mm



● Tool Length & Diameter Measure Equipment

Touch Probe



RENISHAW TS-27R

RENISHAW NC4

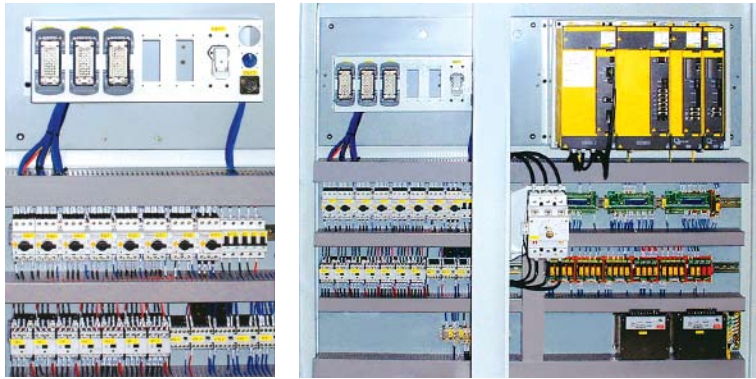
BLUM NT-A3(A5)

BLUM TC50

RENISHAW RMP60

Electric Parts for Controls

German Made CE Parts



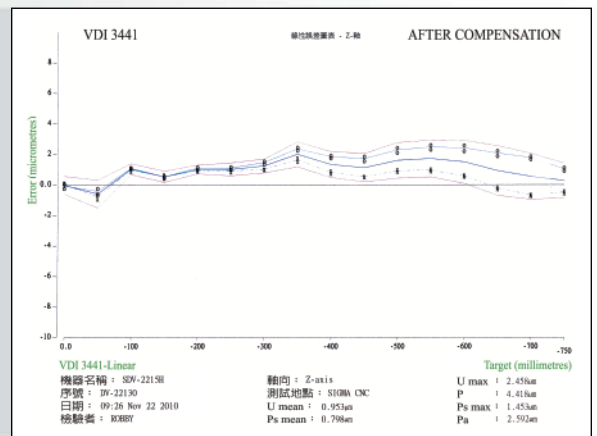
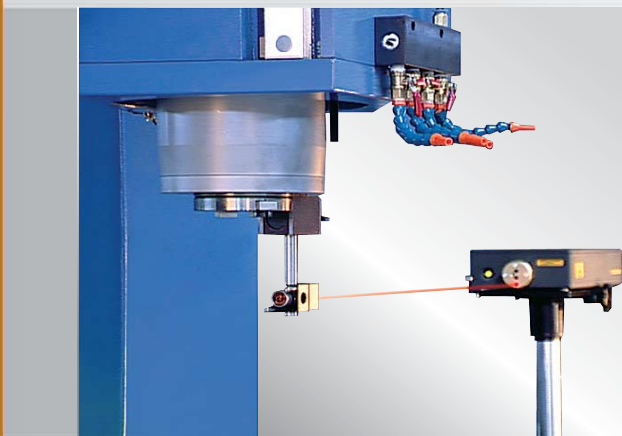
Cooler for Electric Cabinet



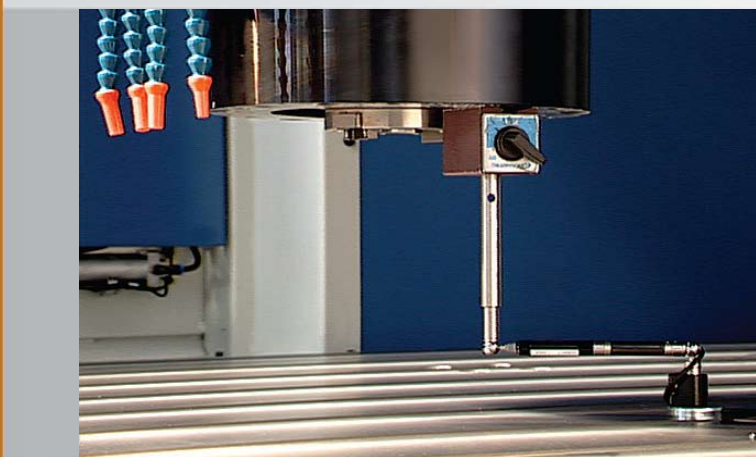
Heat Exchanger (Standard)

Air Conditioner (Optional)

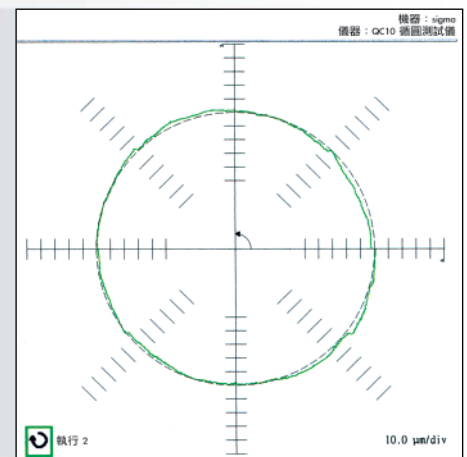
● Laser Inspection



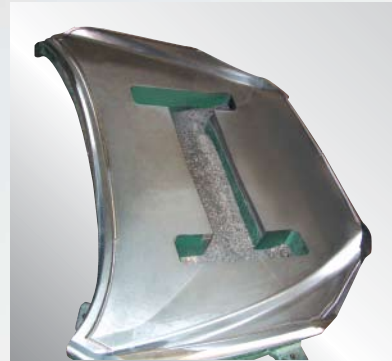
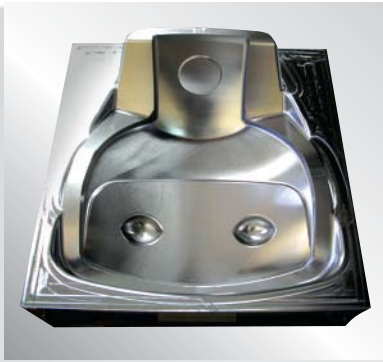
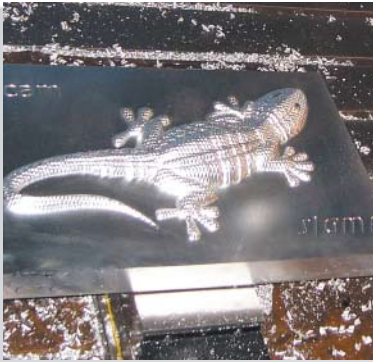
● Ball Bar Testing



Renishaw Ball Bar System

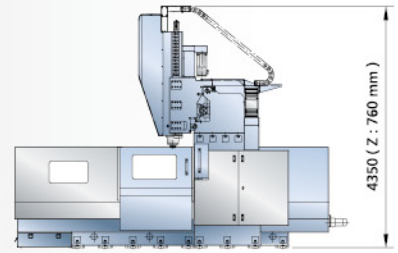
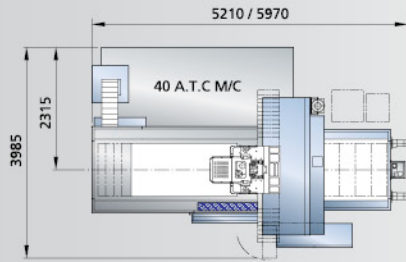


Molds Machining

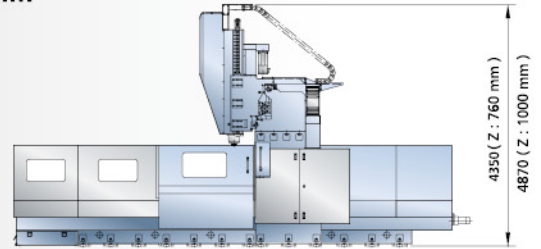
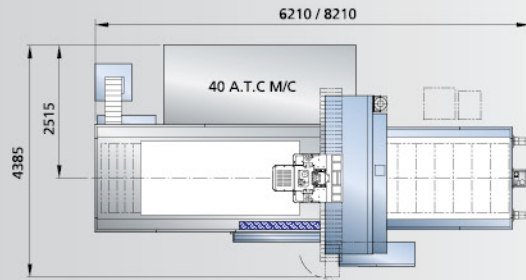


Machine Dimensions

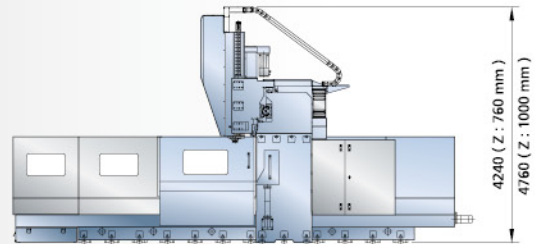
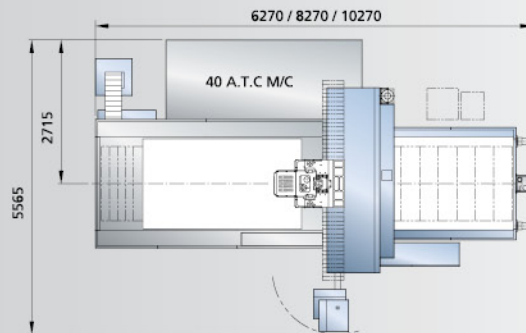
● SDV-1611, 2011 Two Columns Distance 1,200 mm



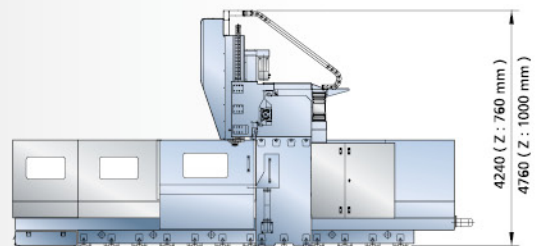
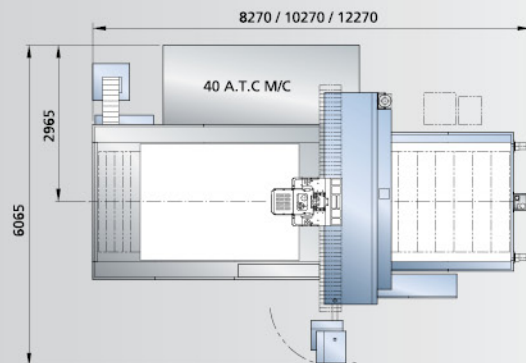
● SDV-2215, 3215 Two Columns Distance 1,600 mm



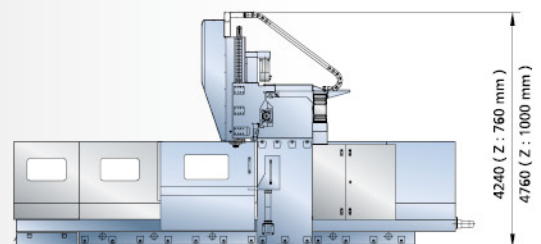
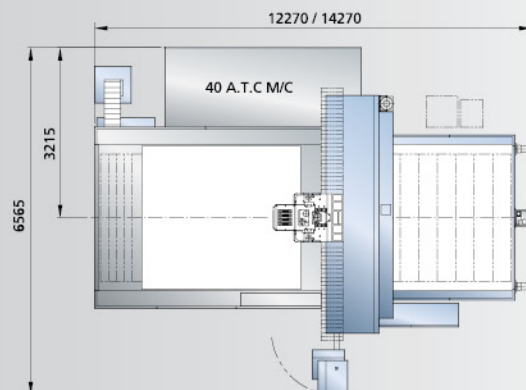
● SDV-2219, 3219, 4219 Two Columns Distance 2,000 mm



● SDV-3224, 4224, 5224 Two Columns Distance 2,500 mm

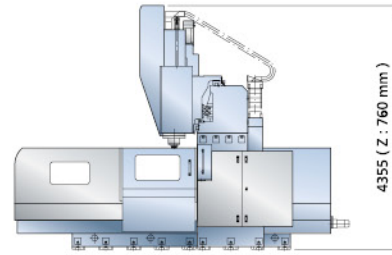
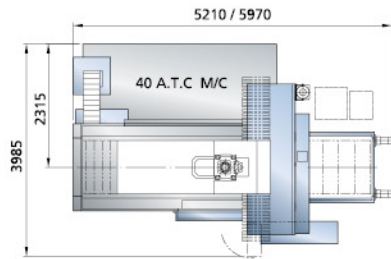


● SDV-5229, 6229 Two Columns Distance 3,000 mm

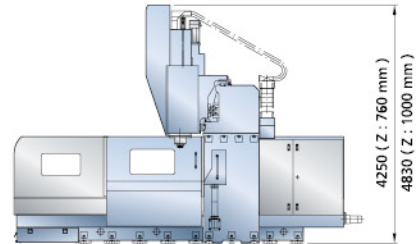
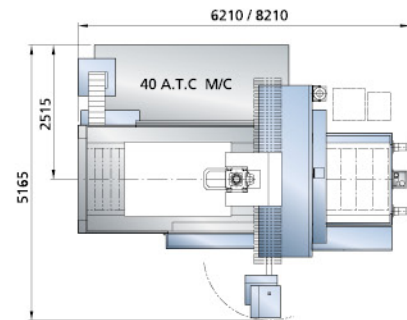


SDV-H Series Machine Dimensions

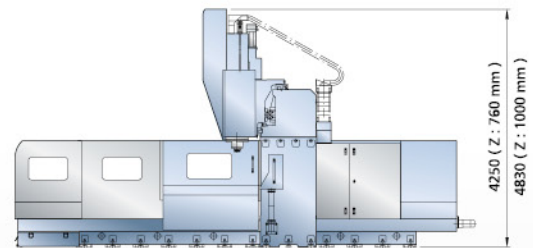
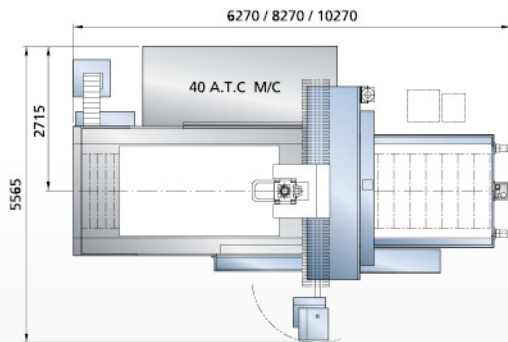
● SDV-1611H, 2011H Two Columns Distance 1,200 mm



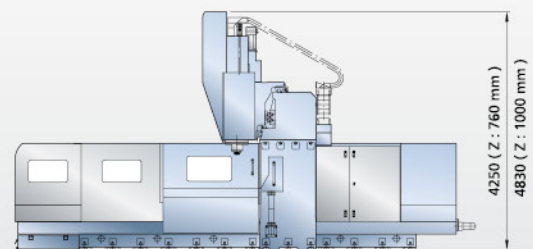
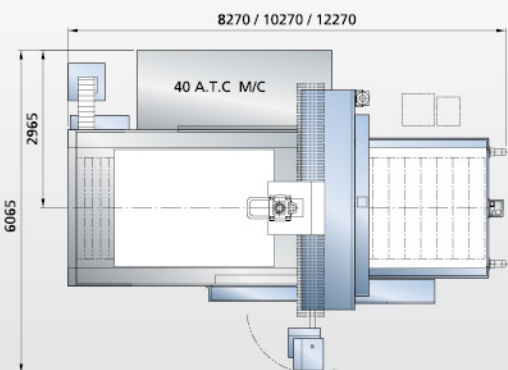
● SDV-2215H, 3215H Two Columns Distance 1,600 mm



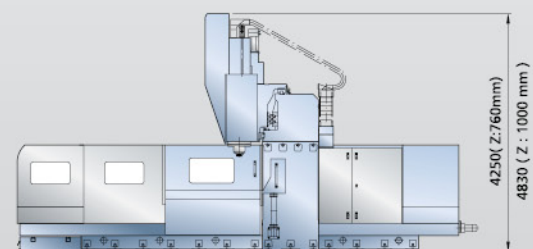
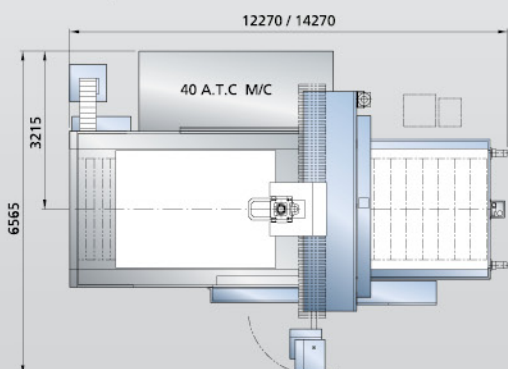
● SDV-2219H, 3219H, 4219H Two Columns Distance 2,000 mm



● SDV-3224H, 4224H, 5224H Two Columns Distance 2,500 mm



● SDV-5229H, 6229H Two Columns Distance 3,000 mm



Machine Specifications

| Item | Model | Unit | SDV-1611 | SDV-2011 | SDV-2215 | SDV-3215 | SDV-2219 | SDV-3219 | SDV-3224 | |
|---|-------|--------|---|-------------|---------------|-----------------------------|---|--------------------------|--------------|--|
| X-axis Travel | | mm | 1,600 | 2,040 | 2,200 | 3,200 | 2,200 | 3,200 | 3,200 | |
| Y-axis Travel | | mm | 1,100 | 1,100 | 1,500 | 1,500 | 1,900 | 1,900 | 2,400 | |
| Z-axis Travel | | mm | 760 (1,000) | | | | | | | |
| Table Size | | mm | 1,600x1,000 | 2,000x1,000 | 2,000x1,400 | 3,000x1,400 | 2,000x1,700 | 3,000x1,700 | 3,000x2,200 | |
| T-slots Dimension | | mm | 22 (24, 28) | | | | | | | |
| Table Load Capacity | | kgs | 3,000 | 3,500 | 5,000 | 7,000 | 5,000 | 8,000 | 10,000 | |
| Distance between Two Columns | | mm | 1,200 | 1,200 | 1,600 | 1,600 | 2,000 | 2,000 | 2,500 | |
| Distance from Spindle Nose to Table | | mm | 250~1,010 (250~1,250) / 355~1,115 (355~1,355) | | | | 250~1,010 (250~1,250) / 145~905 (145~1,145) | | | |
| Spindle Taper, Tool Shank | | | ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40) | | | | | | | |
| Spindle Speed Range | | rpm | 20~4,000 (30~6,000) (100~10,000) (80~8,000) | | | | | | | |
| Main Motor Output (30 min Rating / Cont) | | HP | 25 / 20 (30 / 25) | | | 25 / 20 (30 / 25) (35 / 30) | | | | |
| Rapid Traverse Rate X, Y Axis | | mm/min | 15,000 (20,000) | | | 12,000 (15,000) | | 10,000 (12,000) | | |
| Rapid Traverse Rate Z Axis | | mm/min | 12,000 (15,000) | | | | | | | |
| Cutting Feed Rate | | mm/min | 1~5,000 (1~8,000) | | | | | | | |
| Minimum Input Increment | | mm/min | 0.001 | | | | | | | |
| Tool Magazine Capacity | | pcs | (16 / 20 / 32 / 40) | | | | | (16 / 20 / 32 / 40 / 60) | | |
| Max. Tool Diameter / Adjacent Pockets Empty | | mm | ø125 / ø210 | | | | | | | |
| Max. Tool Length (from Gauge Line) | | mm | 350 | | | | | | | |
| Max. Tool Weight | | kgs | (18 / 20) | | | | | | | |
| Tool Selection Method | | | (ABS, Random Bi) | | | | | | | |
| Tool Change Time (T-T) (approx) | | secs | 8 (4.5) | | | | | | | |
| Power Requirement | | Kva | 40 (45) | | | | | | 45 (50) | |
| Floor Space Requirement | | mm | 7,200x4,800 | 8,000x4,800 | 8,100x5,200 | 10,100x5,200 | 8,200x6,500 | 10,700x6,500 | 10,700x7,000 | |
| Machine Height from Floor Level | | mm | 4,350 | | 4,350 / 4,870 | | 4,240 / 4,760 | | | |
| Machine Weight (approx) | | kgs | 18,500 | 19,000 | 21,000 | 24,500 | 22,000 | 29,000 | 32,500 | |
| CNC Controller | | | Fanuc, Meldas, Siemens, Heidenhain series etc. | | | | | | | |
| Positioning Accuracy | | mm | JIS B6338 0.01/300, VDI 3441 P0.025 | | | | | | | |
| Repeatability Accuracy | | mm | ±0.003 | | | | | | | |

| Item | Model | Unit | SDV-1611H | SDV-2011H | SDV-2215H | SDV-3215H | SDV-2219H | SDV-3219H | SDV-3224H | |
|---|-------|--------|--|-------------|---|-----------------|-------------|---------------------|--------------|--|
| X-axis Travel | | mm | 1,600 | 2,040 | 2,200 | 3,200 | 2,200 | 3,200 | 3,200 | |
| Y-axis Travel | | mm | 1,100 | 1,100 | 1,500 | 1,500 | 1,900 | 1,900 | 2,400 | |
| Z-axis Travel | | mm | 760 | | 760 (1,000) | | | | | |
| Table Size | | mm | 1,600x1,000 | 2,000x1,000 | 2,000x1,400 | 3,000x1,400 | 2,000x1,700 | 3,000x1,700 | 3,000x2,200 | |
| T-slots Dimension | | mm | 22 (24, 28) | | | | | | | |
| Table Load Capacity | | kgs | 3,000 | 3,500 | 5,000 | 7,000 | 5,000 | 8,000 | 10,000 | |
| Distance between Two Columns | | mm | 1,200 | 1,200 | 1,600 | 1,600 | 2,000 | 2,000 | 2,500 | |
| Distance from Spindle Nose to Table | | mm | 250~1,010 | | 165~925 / 270~1,030 • 165~1,165 / 270~1,270 | | | | | |
| Spindle Taper, Tool Shank | | | ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40), HSK-A63 | | | | | | | |
| Spindle Speed Range | | rpm | 20~4,000 (30~6,000) (100~10,000) (80~8,000) (12,000~24,000) | | | | | | | |
| Main Motor Output (30 min Rating / Cont) | | HP | 30 / 25 (35 / 30) | | | | | | | |
| Rapid Traverse Rate X, Y Axis | | mm/min | 15,000 (20,000) | | | 12,000 (15,000) | | 10,000 (12,000) | | |
| Rapid Traverse Rate Z Axis | | mm/min | 12,000 (15,000) | | | | | | | |
| Cutting Feed Rate | | mm/min | 1~5,000 (1~8,000) | | | | | | | |
| Minimum Input Increment | | mm/min | 0.001 | | | | | | | |
| Tool Magazine Capacity | | pcs | (20 / 32 / 40) | | | | | (20 / 32 / 40 / 60) | | |
| Max. Tool Diameter / Adjacent Pockets Empty | | mm | ø125 / ø210 | | | | | | | |
| Max. Tool Length (from Gauge Line) | | mm | 350 | | | | | | | |
| Max. Tool Weight | | kgs | (18 / 20) | | | | | | | |
| Tool Selection Method | | | (ABS, Random Bi) | | | | | | | |
| Tool Change Time (T-T) (approx) | | secs | 8 (4.5) | | | | | | | |
| Power Requirement | | Kva | 40 (45) | | | | | | 45 (50) | |
| Floor Space Requirement | | mm | 7,200x4,800 | 8,000x4,800 | 8,000x6,100 | 10,000x6,100 | 8,300x6,500 | 10,700x6,500 | 10,700x7,000 | |
| Machine Height from Floor Level | | mm | 4,355 | | 4,250 / 4,830 | | | | | |
| Machine Weight (approx) | | kgs | 20,000 | 20,500 | 23,500 | 27,000 | 25,500 | 31,500 | 34,000 | |
| CNC Controller | | | Fanuc, Meldas, Siemens, Heidenhain series etc. | | | | | | | |
| Positioning Accuracy | | mm | JIS B6338 0.01/300, VDI 3441 P0.025 | | | | | | | |
| Repeatability Accuracy | | mm | ±0.003 | | | | | | | |

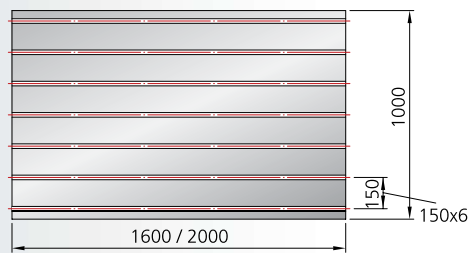
NOTE: 1. ()Description is optional accessories.

2. To research and improve our company keep the right of changing design and structure at any time, this data is just for reference.

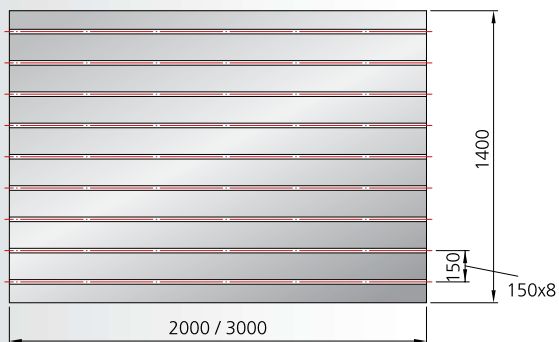
| SDV-3229 | SDV-4219 | SDV-4224 | SDV-4229 | SDV-4234 | SDV-4239 | SDV-5224 | SDV-5229 | SDV-5234 | SDV-5239 | SDV-6224 | SDV-6229 | SDV-6234 | SDV-6239 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 3,200 | 4,200 | 4,200 | 4,200 | 4,200 | 4,200 | 5,200 | 5,200 | 5,200 | 5,200 | 6,200 | 6,200 | 6,200 | 6,200 |
| 2,900 | 1,900 | 2,400 | 2,900 | 3,400 | 3,900 | 2,400 | 2,900 | 3,400 | 3,900 | 2,400 | 2,900 | 3,400 | 3,900 |
| 760 (1,000) | | | | | | | | | | | | | |
| 22 (24, 28) | | | | | | | | | | | | | |
| 3,000x2,700 | 4,000x1,700 | 4,000x2,200 | 4,000x2,700 | 4,000x3,200 | 4,000x3,700 | 5,000x2,200 | 5,000x2,700 | 5,000x3,200 | 5,000x3,700 | 6,000x2,200 | 6,000x2,700 | 6,000x3,200 | 6,000x3,700 |
| 12,500 | 12,000 | 15,000 | 17,000 | 19,000 | 21,000 | 17,500 | 20,000 | 22,500 | 25,000 | 25,000 | 27,500 | 30,000 | 32,500 |
| 3,000 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 2,500 | 3,000 | 3,500 | 4,000 | 2,500 | 3,000 | 3,500 | 4,000 |
| 250~1,010 (250~1,250) / 145~905 (145~1,145) | | | | | | | | | | | | | |
| ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40) | | | | | | | | | | | | | |
| 20~4,000 (30~6,000) (100~10,000) (80~8,000) | | | | | | | | | | | | | |
| 25 / 20 (30 / 25) (35 / 30) | | | | | | | | | | | | | |
| 10,000 (12,000) | | | | | | | 8,000 (10,000) | | | | | | |
| 12,000 (15,000) | | | | | | | | | | | | | |
| 1~5,000 (1~8,000) | | | | | | | | | | | | | |
| 0,001 | | | | | | | | | | | | | |
| (16 / 20 / 32 / 40 / 60) | | | | | | | | | | | | | |
| ø125 / ø210 | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | |
| (18 / 20) | | | | | | | | | | | | | |
| (ABS, Random Bi) | | | | | | | | | | | | | |
| 8 (4,5) | | | | | | | | | | | | | |
| 45 (50) | 50 (55) | | | | 55 (60) | | | | | | 60 (65) | | |
| 10,700x7,500 | 13,000x6,500 | 13,000x7,000 | 13,000x7,500 | 13,000x8,000 | 13,000x8,500 | 15,000x7,000 | 15,000x7,500 | 15,000x8,000 | 15,000x8,500 | 17,300x7,000 | 17,300x7,500 | 17,300x8,000 | 17,300x8,500 |
| 4,240 / 4,760 | | | | | | | | | | | | | |
| 35,000 | 34,000 | 37,000 | 40,000 | 43,000 | 46,000 | 55,000 | 58,500 | 62,000 | 65,000 | 69,000 | 72,000 | 75,000 | 78,000 |
| Fanuc, Melder, Siemens, Heidenhain series etc. | | | | | | | | | | | | | |
| VDI 3441 P0.035 | | | | | | | | | | | | | |
| ±0.005 | | | | | | | | | | | | | |
| SDV-3229H | SDV-4219H | SDV-4224H | SDV-4229H | SDV-4234H | SDV-4239H | SDV-5224H | SDV-5229H | SDV-5234H | SDV-5239H | SDV-6224H | SDV-6229H | SDV-6234H | SDV-6239H |
| 3,200 | 4,200 | 4,200 | 4,200 | 4,200 | 4,200 | 5,200 | 5,200 | 5,200 | 5,200 | 6,200 | 6,200 | 6,200 | 6,200 |
| 2,900 | 1,900 | 2,400 | 2,900 | 3,400 | 3,900 | 2,400 | 2,900 | 3,400 | 3,900 | 2,400 | 2,900 | 3,400 | 3,900 |
| 760 / 1,000 / 1,200 / 1,400 | | | | | | | | | | | | | |
| 22 (24, 28) | | | | | | | | | | | | | |
| 3,000x2,700 | 4,000x1,700 | 4,000x2,200 | 4,000x2,700 | 4,000x3,200 | 4,000x3,700 | 5,000x2,200 | 5,000x2,700 | 5,000x3,200 | 5,000x3,700 | 6,000x2,200 | 6,000x2,700 | 6,000x3,200 | 6,000x3,700 |
| 12,500 | 12,000 | 15,000 | 17,000 | 19,000 | 21,000 | 17,500 | 20,000 | 22,500 | 25,000 | 25,000 | 27,500 | 30,000 | 32,500 |
| 3,000 | 2,000 | 2,500 | 3,000 | 3,500 | 4,000 | 2,500 | 3,000 | 3,500 | 4,000 | 2,500 | 3,000 | 3,500 | 4,000 |
| 165~925 / 270~1,030 • 165~1,165 / 270~1,270 • 165~1,365 / 270~1,470 • 165~1,565 / 270~1,670 | | | | | | | | | | | | | |
| ISO NO.50 (40) BT-50, CAT-50, DIN 69871 (BT-40, CAT-40), HSK-A63 | | | | | | | | | | | | | |
| 20~4,000 (30~6,000) (100~10,000) (80~8,000) (12,000~24,000) | | | | | | | | | | | | | |
| 30 / 25 (35 / 30) | | | | | | | | | | | | | |
| 10,000 (12,000) | | | | | | | 8,000 (10,000) | | | | | | |
| 12,000 (15,000) | | | | | | | | | | | | | |
| 1~5,000 (1~8,000) | | | | | | | | | | | | | |
| 0,001 | | | | | | | | | | | | | |
| (20 / 32 / 40 / 60) | | | | | | | | | | | | | |
| ø125 / ø210 | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | |
| (18 / 20) | | | | | | | | | | | | | |
| (ABS, Random Bi) | | | | | | | | | | | | | |
| 8 (4,5) | | | | | | | | | | | | | |
| 45 (50) | 50 (55) | | | | 55 (60) | | | | | | 60 (65) | | |
| 10,700x7,500 | 13,000x6,500 | 13,000x7,000 | 13,000x7,500 | 13,000x8,000 | 13,000x8,500 | 15,000x7,000 | 15,000x7,500 | 15,000x8,000 | 15,000x8,500 | 17,300x7,000 | 17,300x7,500 | 17,300x8,000 | 17,300x8,500 |
| 4,250 / 4,830 / 5,510 / 6,110 | | | | | | | | | | | | | |
| 36,000 | 36,500 | 39,500 | 42,500 | 45,500 | 48,500 | 57,500 | 61,000 | 64,500 | 67,500 | 71,500 | 74,500 | 77,500 | 80,500 |
| Fanuc, Melder, Siemens, Heidenhain series etc. | | | | | | | | | | | | | |
| VDI 3441 P0.035 | | | | | | | | | | | | | |
| ±0.005 | | | | | | | | | | | | | |

Table Size

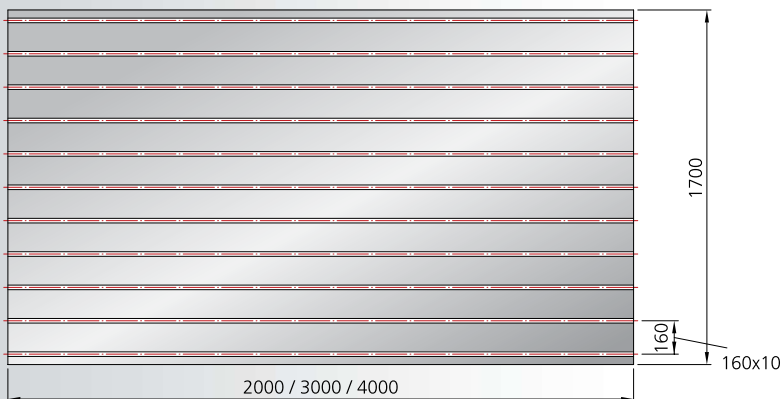
SDV • SDV-H (1611 • 2011)



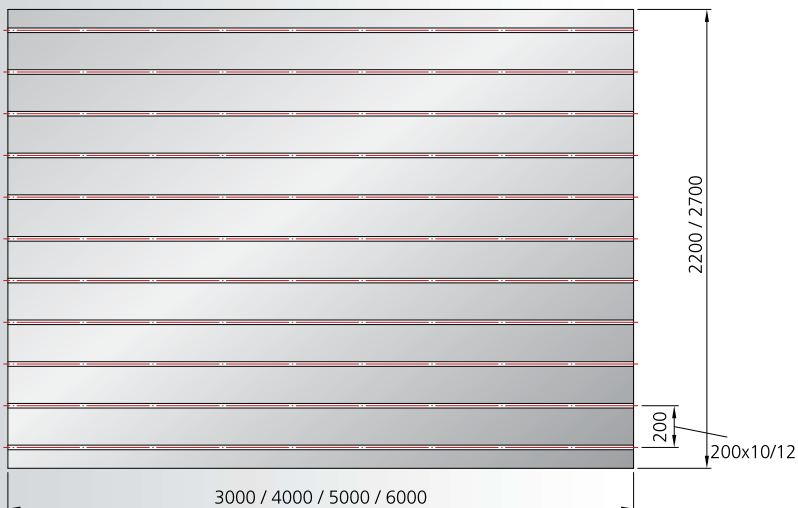
SDV • SDV-H (2215 • 3215)



SDV • SDV-H (2219 • 3219 • 4219)



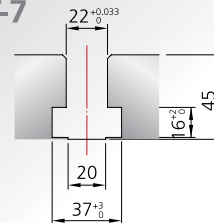
SDV • SDV-H (3224 • 4224 • 5224 • 5229 • 6229)



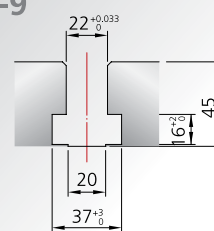
T-slot Dimension

Standard

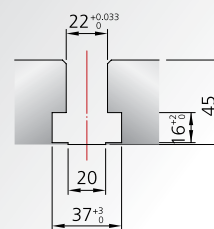
T-7



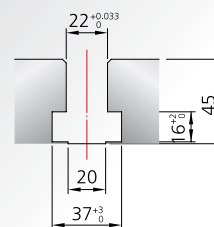
T-9



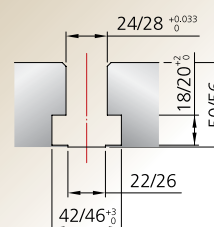
T-11



T-11/13

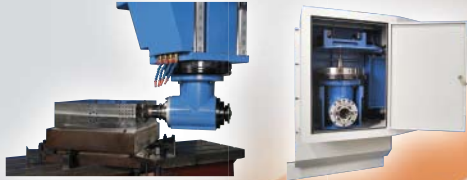


Optional



SDV-HLA Series

CNC Double Column
Machining Center
Z-axis 4 linear guide ways



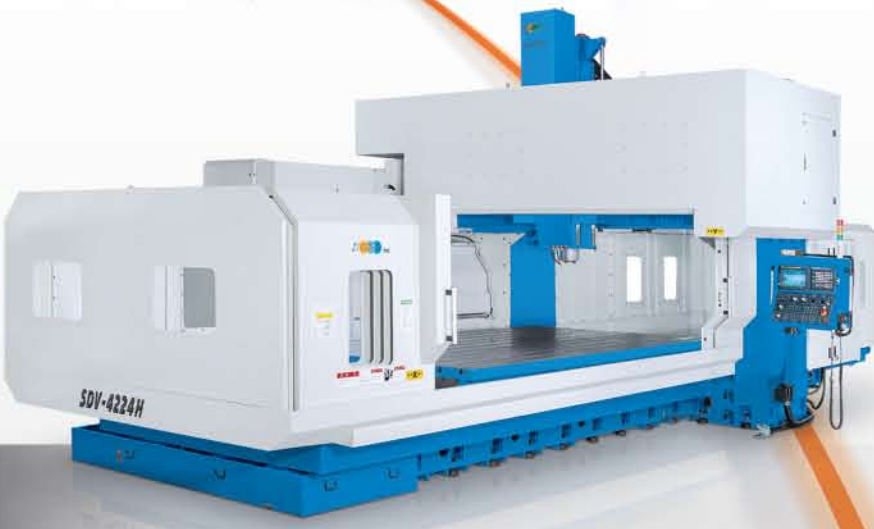
S5F Series

CNC Double Column 5-Face
Machining Center



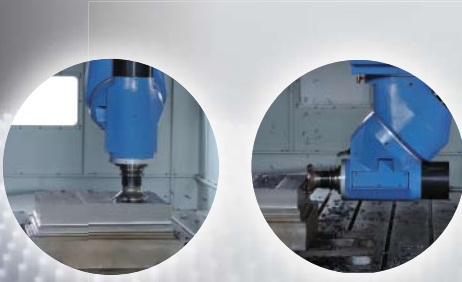
SDV Series

CNC Double Column
Machining Center
Z-axis 2 linear guide ways



FULL GUARDING

Optional Item for SDV-H
and SDV Series



SDV-VH Series

CNC Double Column
Machining Center with
Vertical & Horizontal Head



SMH-MC Series

CNC Horizontal Moving
Column Machining Center



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Agent Stamp