



2025 Version
Vertical Machining Center

ZOPO CNC

Vertical Machining Center

Focus on Complete Series Application Solution

Professional R&D concept

- Humanized design appearance
- Years of front-line manufacturing and assembly process
- Profound technology accumulation

High stability and high reliability

- First-class processing equipment
- Top brands of core functional components
- Standard Operating Procedure, strict quality control flow

Complete product ran

- 3 series /10 categories /100+ models
- Wide processing range, high scalability, and diverse options
- Flexible application for multi-scenario processing needs
- Comprehensive automation integration capabilities



SE series Efficiency Models SV series Excellent Models VMC series Classic Models

3 product series | 100+ product models
One-stop solution for metal cutting



Independent R&D based on combination of world leading design concepts and experience accumulated from abundant market feedback, devoted to product iteration for wider application scene.

SE series

Based on the customer needs and feedback of 20,000+ stock machines in the market, independently develop new series of SE products.

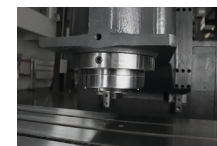
High accuracy | High efficiency-SE/SED



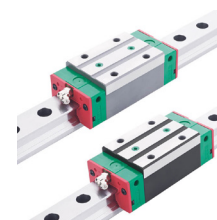
The best choice for pan-aluminum processing, high-precision molds, and parts processing

SE series structure features

Short nose high rigidity spindle unit.



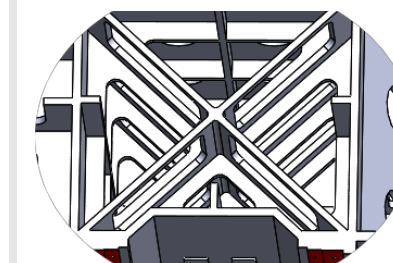
Three-axis high rigidity roller linear guideway.



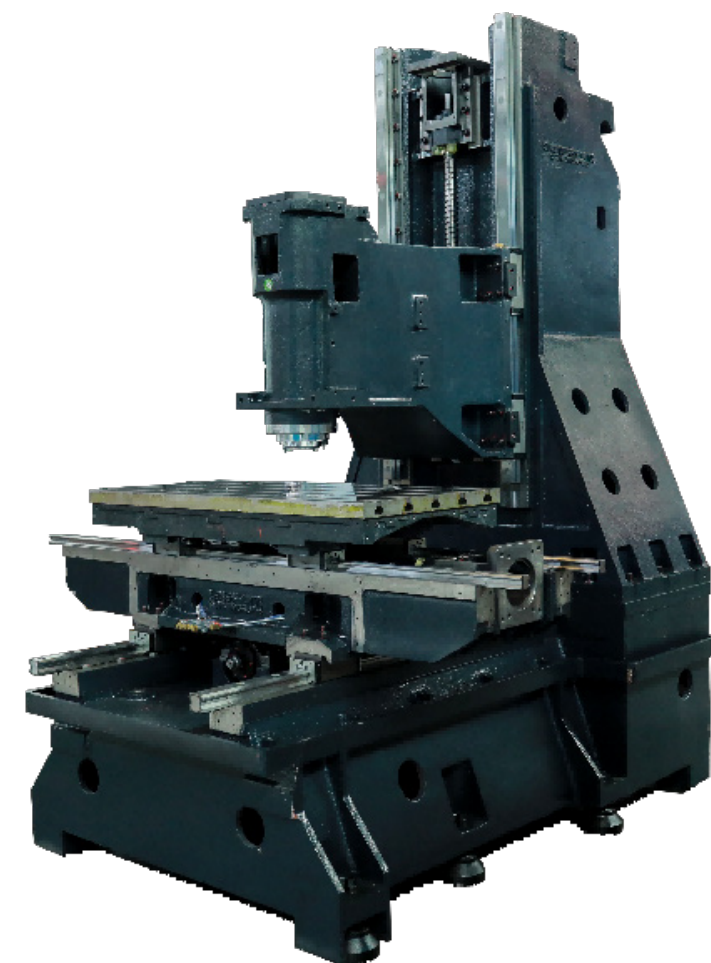
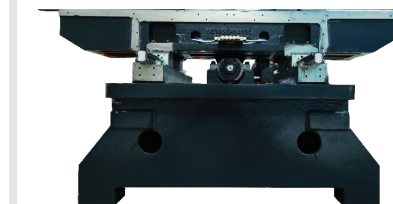
The herringbone column structure design ensures strong stability during heavy-load processing.



After finite element analysis, integral machine body with interlaced reinforced ribs adopts mechanite cast iron, which provides better processing rigidity among machines of similar size.



Triangular shaped machine body and saddle design which strengthens the rigidity of the mainload-bearing parts and thus ensures precision stability.

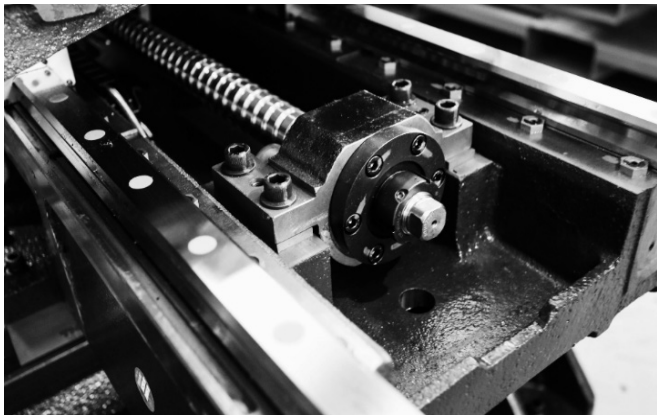


SEB belt series - General high efficiency models

Stable and fast transmission system

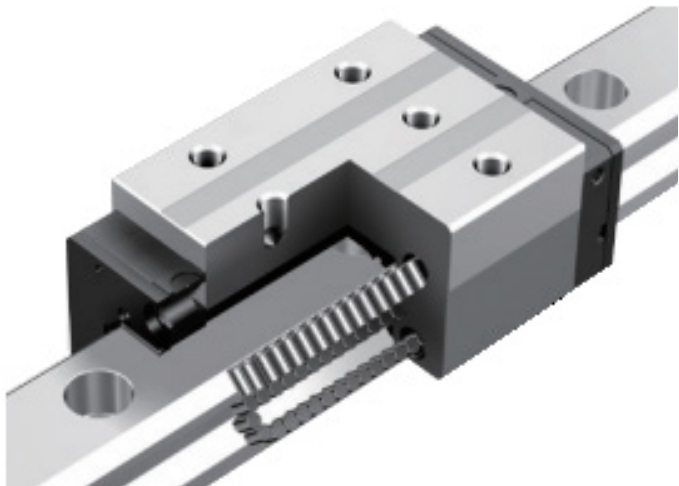
- The lightweight design of moving parts further improves the dynamic response speed of the machine.
- The feed axis is distributed in 3+2 bearings and is grease lubricated.
- Guide way, ball screw and ball screw support all applied with heavy load preloading for accuracy processing.

The lightweight spindle-shaped structure combined with finite element analysis, enhances the spindle box rigidity and dynamic response capability.



Three-axis roller guideway

- Three-axis roller guideways, Y/Z axis guide width 45mm, ensure greater load-bearing rigidity;
- Extended guide sliders effectively improve the service life and load capacity of the machine.



SEB series

	Unit	SEB855	SEB1055	SEB1165	SEB1265
3 axis Travel X/Y/Z	mm	850/550/600	1000/550/600	1100/650/600	1200/650/600
Distance from column front to spindle center	mm	597	597	697	697
Distance from table top surface to spindle nose	mm	120-720	120-720	120-720	120-720
Worktable size	mm	500×1000	500×1100	600×1200	600×1300
T-slot size	mm	5-18*100	5-18*100	5-18*100	5-18*100
Max. load bearing of worktable	kg	600	600	800	800
Spindle hole taper		BT40	BT40	BT40	BT40
Spindle power	kW	11/15	11/15	11/15	11/15
Max. spindle speed	rpm	8000	8000	8000	8000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/36	48/48/36	36/36/32	36/36/32
Tool magazine capacity	T	24	24	24	24
Tool change time	S	2.5	2.5	2.5	2.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004
Machine dimension	mm	2650*2700*2850	2650*2700*2850	3200*2985*2960	3200*2985*2960
Machine weight	kg	4700	4800	5500	5600

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4” display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing

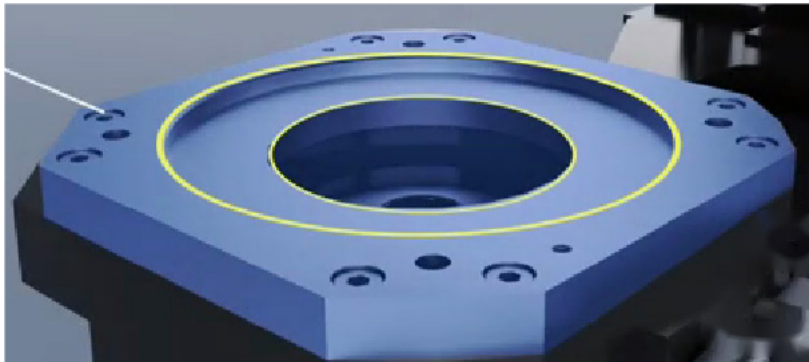
Optional Configurations

- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- Spindle oil cooling
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- 4/5th axis
- CTS
- CE

SED direct series - High-speed and high-efficiency models

Spindle connection design to isolate heat sources

A cooling and heat insulation device is added to the connection between the main motor and the spindle box to reduce the impact of thermal deformation and improve the maintenance of the spindle processing accuracy.



Direct drive spindle (Std. with oil cooling)

Direct drive spindle, featured by low vibration and low noise, ideal option for high-speed and high-precision machining.



Spindle oil cooling system

Oil cooling system can effectively control the thermal deformation of the spindle and make it rotate with a constant temperature to achieve precision processing during high speed.



SED series

	Unit	SED855	SED1055	SED1165	SED1265
3 axis Travel X/Y/Z	mm	850/550/600	1000/550/600	1100/650/600	1200/650/600
Distance from column front to spindle center	mm	597	597	697	697
Distance from table top surface to spindle nose	mm	120-720	120-720	120-720	120-720
Worktable size	mm	500×1000	500×1100	600×1200	600×1300
T-slot size	mm	5-18*100	5-18*100	5-18*100	5-18*100
Max. load bearing of worktable	kg	600	600	800	800
Spindle hole taper		BT40	BT40	BT40	BT40
Spindle power	kW	7.5/11	7.5/11	11/15	11/15
Max. spindle speed	rpm	12000	12000	12000	12000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/36	48/48/36	36/36/32	36/36/32
Tool magazine capacity	T	24	24	24	24
Tool change time	S	2.5	2.5	2.5	2.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004
Machine dimension	mm	2650*2700*2850	2650*2700*2850	3200*2985*2960	3200*2985*2960
Machine weight	kg	4700	4800	5500	5600

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4” display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing
- Spindle oil cooling

Optional Configurations

- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- 4/5th axis
- CTS
- CE

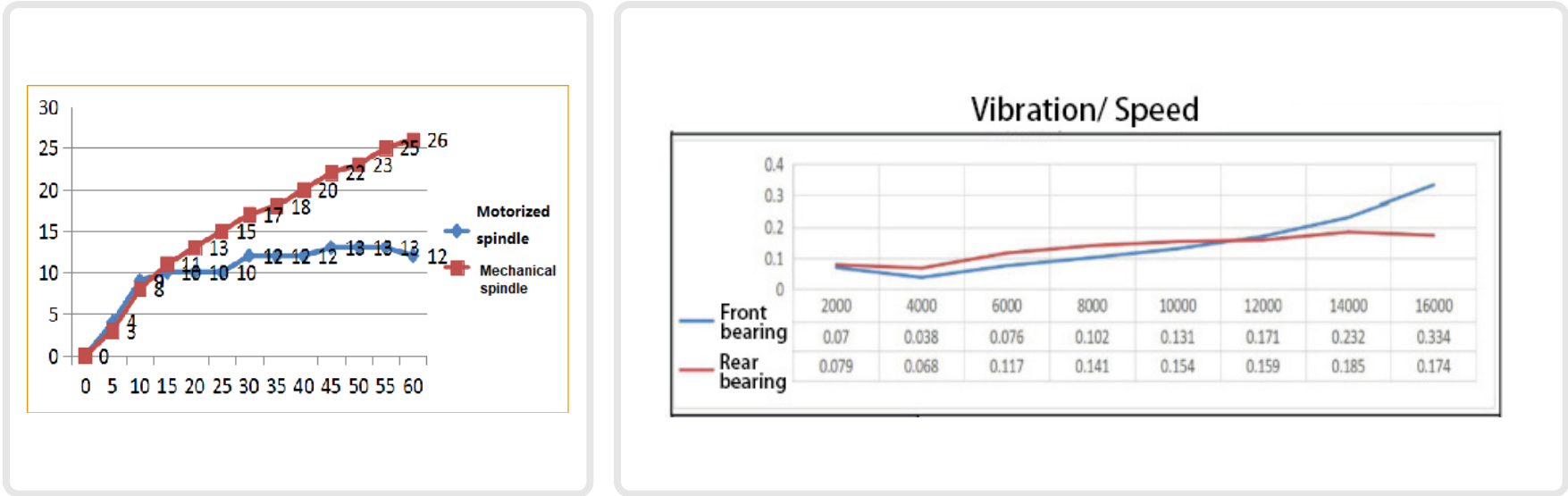
SE motorized spindle series - High-speed and high-accuracy models

Lightweight moving parts



Low vibration & high accuracy

Half the vibration, twice the accuracy



Vertical machining center-SE series

	Unit	SE855	SE1055	SE1165	SE1265
3 axis Travel X/Y/Z	mm	850/550/600	1000/550/600	1100/650/600	1200/650/600
Distance from column front to spindle center	mm	597	597	697	697
Distance from table top surface to spindle nose	mm	120-720	120-720	120-720	120-720
Worktable size	mm	500×1000	500×1100	600×1200	600×1300
T-slot size	mm	5-18*100	5-18*100	5-18*100	5-18*100
Max. load bearing of worktable	kg	600	600	800	800
Spindle hole taper		BBT40	BBT40	BBT40	BBT40
Spindle power	kW	16/18.5	16/18.5	16/18.5	16/18.5
Max. spindle speed	rpm	16000	16000	16000	16000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/36	48/48/36	36/36/32	36/36/32
Tool magazine capacity	T	24	24	24	24
Tool change time	S	2.5	2.5	2.5	2.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004
Machine dimension	mm	2650*2700*2850	2650*2700*2850	3200*2985*2960	3200*2985*2960
Machine weight	kg	4700	4800	5400	5500

Standard Configurations

- High-rigidity structure
 - High-speed precision spindle
 - Precision roller guideway
 - Precision ball screw
 - CNC system
 - Main motor and servo motor
 - Outer protective guard
 - Air gun
 - Water gun
 - Tool No. display
 - MPG
- LCD 10.4” display
 - Three-color light
 - Working light
 - Pneumatic system
 - Automatic lubrication system
 - P4-grade bearing set
 - Telescopic guards for 3-axis
 - Spindle air blowing and flushing
 - Internal chip flushing
 - Spindle water cooling

Optional Configurations

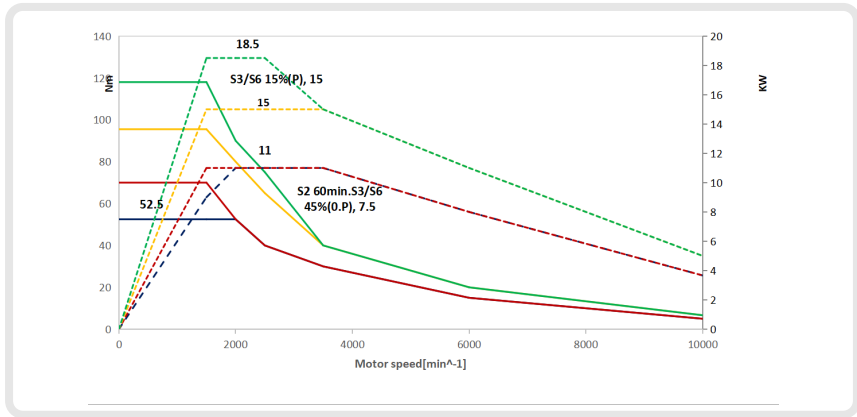
- System function expansion
 - Air conditioning
 - Column heightening
 - Automation preparation
 - Workpiece measurement
 - Tool measurement
 - Safety door
 - Automatic door
- ATC servo/frequency
 - ATC enlargement
 - Oil mist collector
 - Oil skimmer
 - Chip conveyor
 - 4/5th axis
 - CTS
 - CE

Spindle power curve: No.40 (FANUC CNC system)

Output torque: 52.5Nm

FANUC: 11/15kW

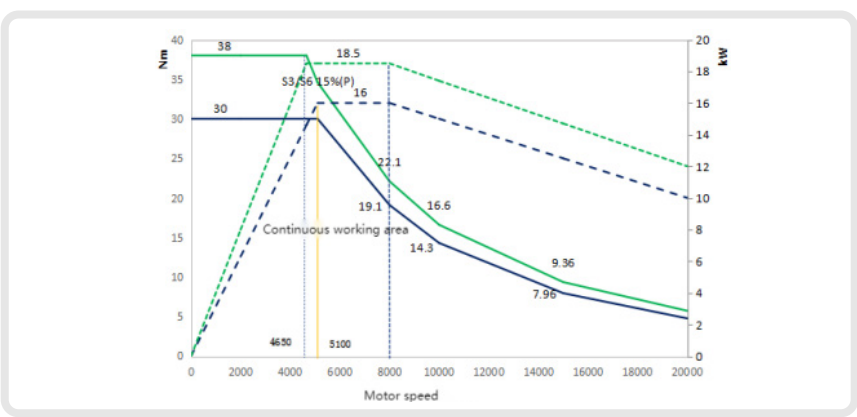
Models: SEB855/1055/1165/1265



Output torque: 38Nm

Motor power: 18.5kW

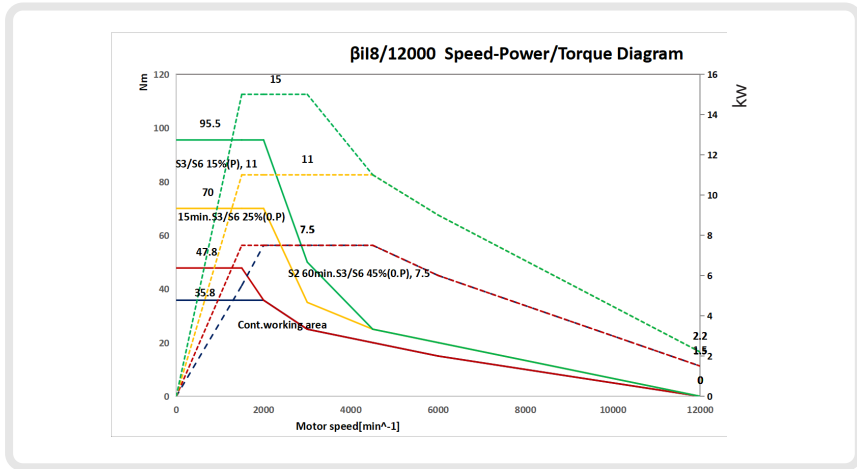
Models: SE855/1055/1165/1265



Output torque: 35.8Nm

FANUC: 7.5/11kW

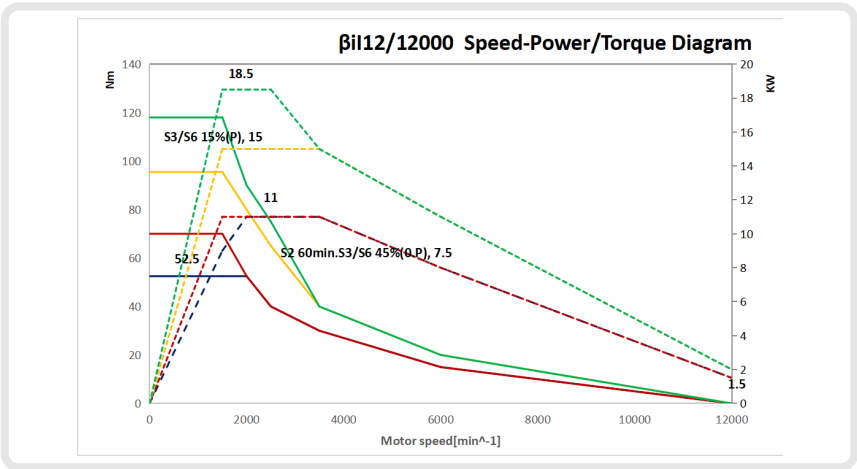
Models: SED855 / 1055



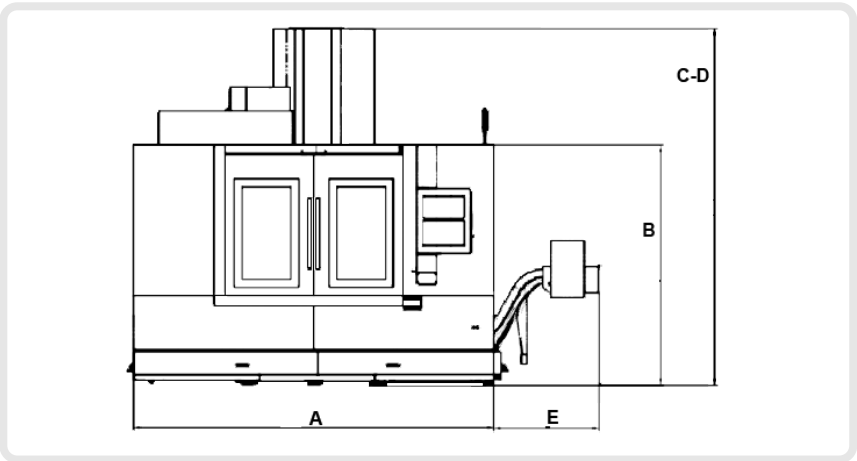
Output torque: 52.5Nm

FANUC: 11/15kW

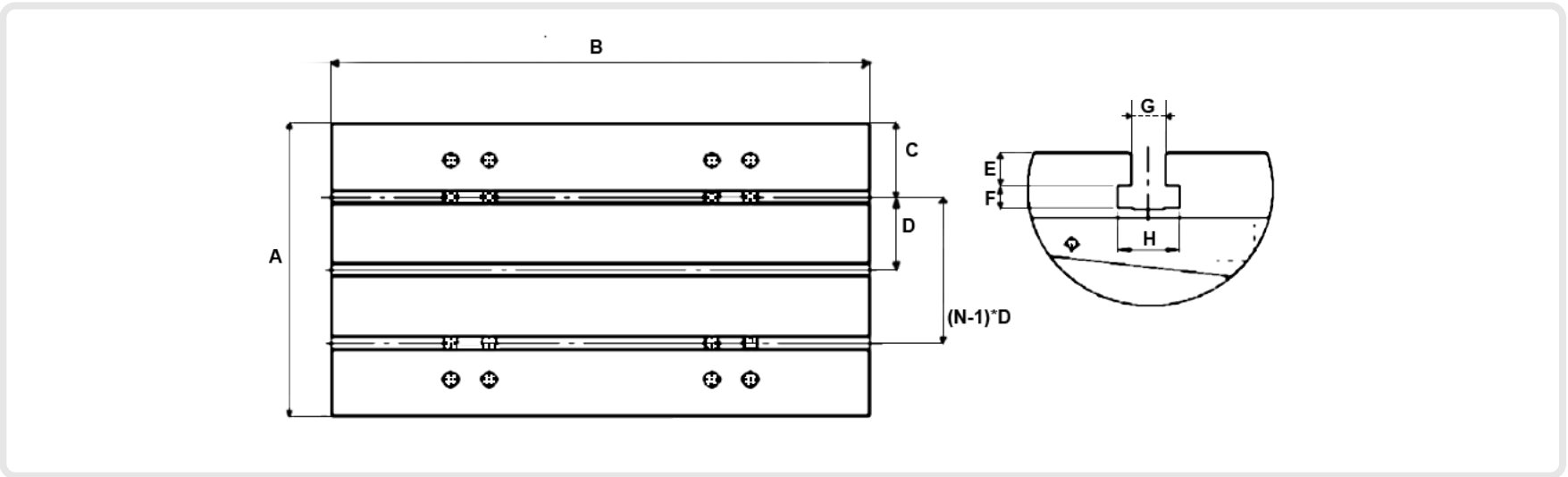
Models: SED1165 / 1265



Machine dimension



Model	A	B	C~D	E
SE/B/D855	2650	2200	2250-2850	1020
SE/B/D1055	2650	2200	2250-2850	1020
SE/B/D1165	3200	2160	2360-2960	1200
SE/B/D1265	3200	2160	2360-2960	1200



Model	A	B	C	D	E	F	G	H	N	Unit
SE/B/D855	500	1000	50	100	18	12	18	30	5	mm
SE/B/D1055	500	1100	50	100	18	12	18	30	5	mm
SE/B/D1165	600	1200	100	100	20	12	18	30	5	mm
SE/B/D1265	600	1300	100	100	20	12	18	30	5	mm

VMC Series

Flexibly meet customers' diverse processing needs



High Rigidity & High Efficiency: VMC850P / VMC1000P / VMC1060B / VMC1160B

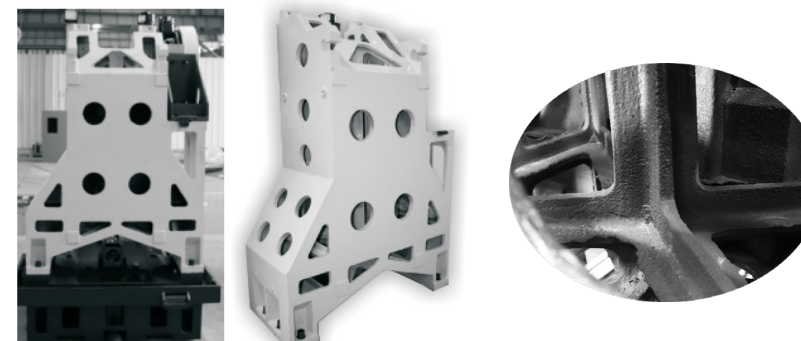
High Accuracy & High Efficiency: V8P / V10P / V10B / V11B

High Rigidity & Heavy Duty: VMC855 / VMC1000 / VMC1165 / VMC1265

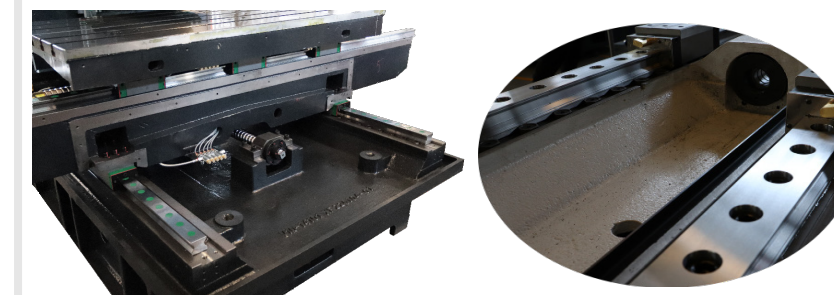
VMC1580L / VMC1690L / VMC1890L / VMC2090L

Structure with high stability

The machine adopted unique "pagoda-shaped" design of the column after finite element analysis and added cross-rib layout inside, providing better processing rigidity among machines of the same size.

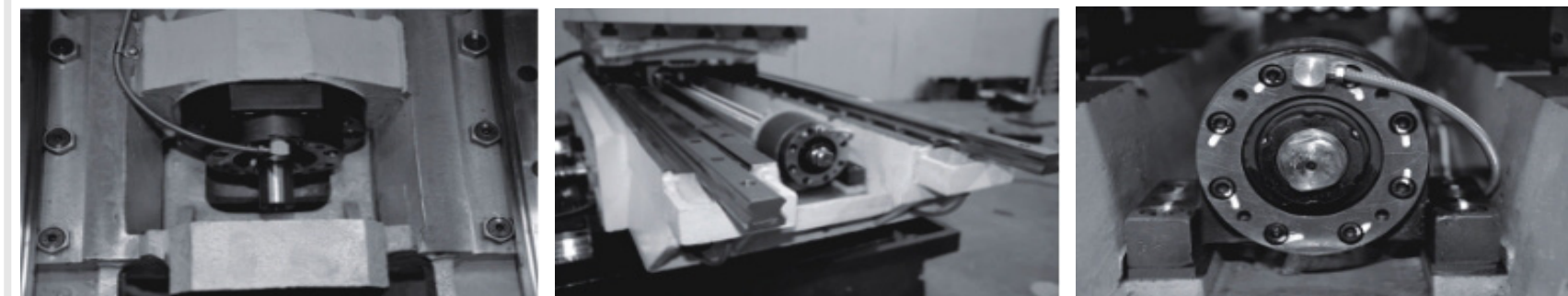


The base adopts a large-span base structure with two 45mm roller guideways, which provides the machine with a very strong load-bearing capacity and meets the high rigidity requirements during heavy cutting.



Stable fast axis feed structure

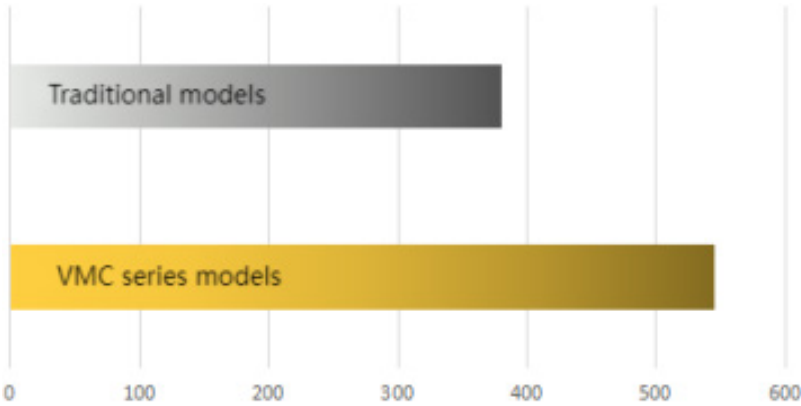
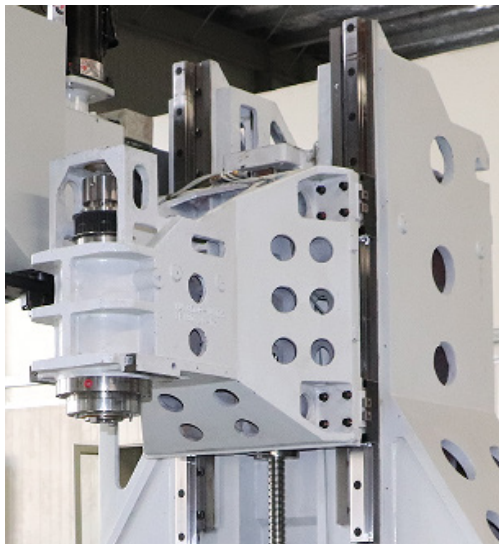
- The integrated motor seat design reduces the impact of axial load on positioning accuracy.
- The guideway, ball screw and ball screw support are all designed with heavy load preloading to ensure rigidity during processing.
- The guideway, ball screw and ball screw support all adopt a timed and quantitative lubrication system to effectively suppress the heat generation of key moving parts and ensure the operating life.



VMC Belt drive series - High rigidity & high efficiency

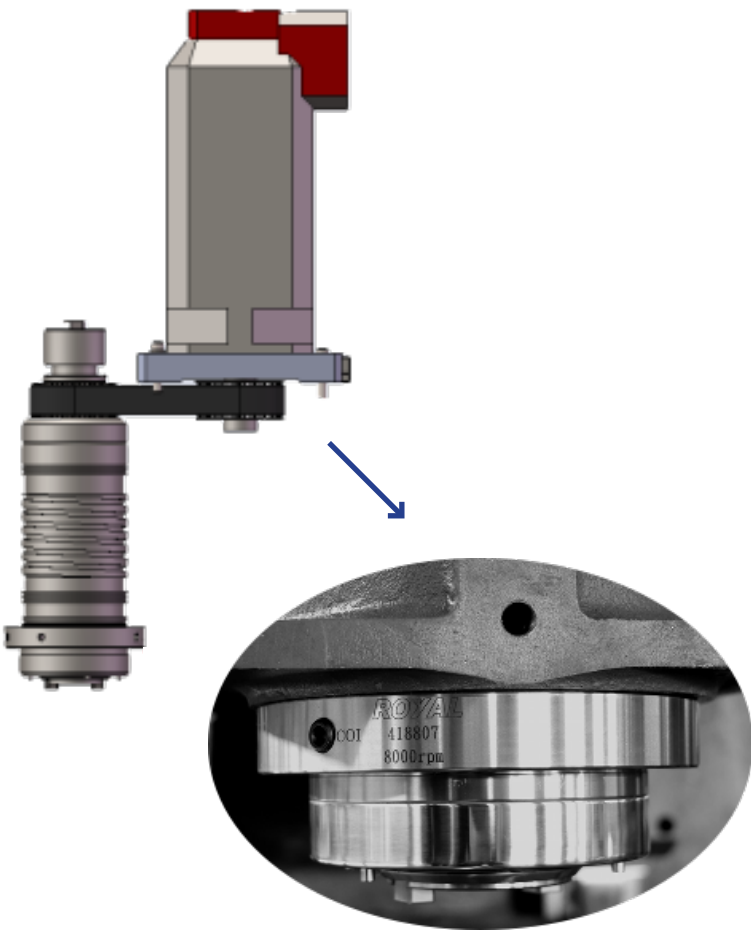
Spindle box with high power and high torque

Larger Z-axis guideway span plus wider contact area of the spindle box and the column ensures high torque of the spindle headstock.



High performance spindle

Optimized light weight designed spindle box and Z axis guarantee the stability and accuracy for vertical high-speed positioning.Front three and rear two bearing allocation type short nose spindle ensures the cutting rigidity.



VMC series

	Unit	VMC850P	VMC1000P	VMC1060B	VMC1160B
Worktable size	mm	500×1000	520×1200	600×1200	610×1300
T-slot size	mm	5-18*100	5-18*100	5-18*100	5-18*100
Max. load bearing of worktable	kg	500	500	800	900
3 axis Travel X/Y/Z	mm	850/500/550	1000/520/535	1000/620/630	1100/610/630
Distance from column front to spindle center	mm	582	582	667	667
Distance from table top surface to spindle nose	mm	100-650	80-615	110-740	110-740
Spindle hole taper		BT40	BT40	BT40	BT40
Spindle power	kW	11/15	11/15	11/15	11/15
Max. spindle speed	rpm	8000	8000	8000	8000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/32	48/48/32	36/36/32	36/36/32
Tool magazine capacity	T	24	24	24	24
Tool change time	S	2.5	2.5	2.5	2.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004
Machine dimension	mm	2978*2490*2885	2990*2490*2885	3186*2679*2850	3404*2679*2850
Machine weight	kg	5500	5800	6800	7000

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4” display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing

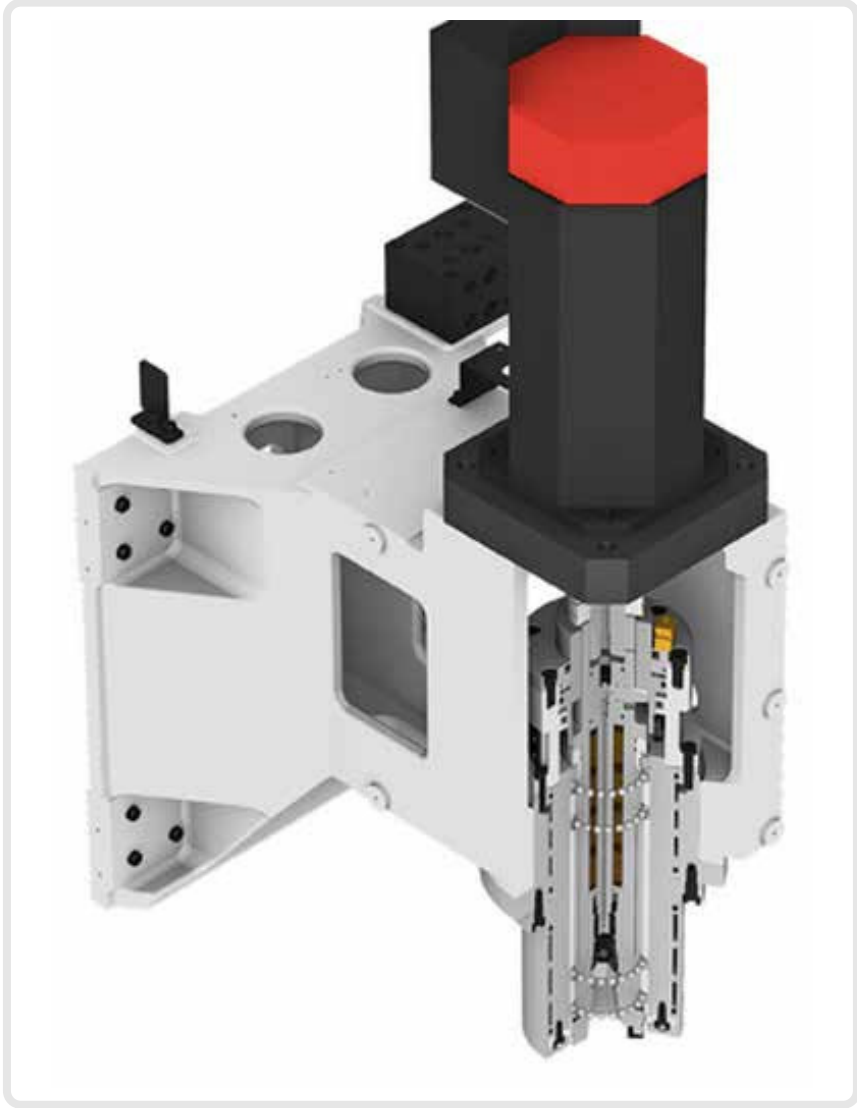
Optional Configurations

- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- Spindle oil cooling
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- 4/5th axis
- CTS
- CE

V Direct drive series - High speed & high efficiency

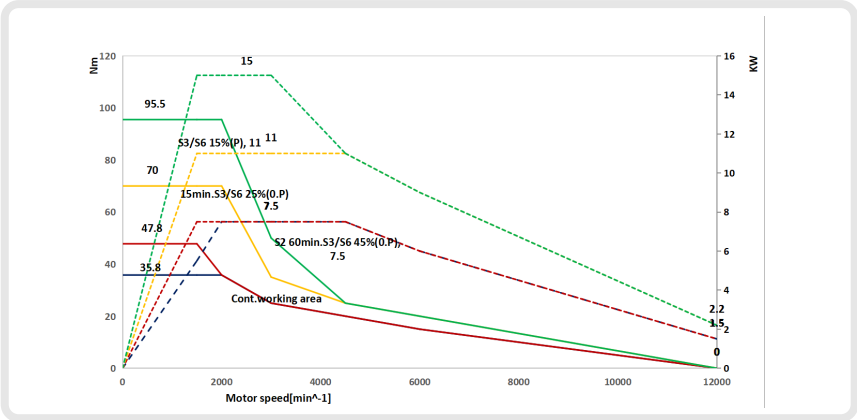
Direct spindle

The integrated structure design of the spindle box motor seat reduces the cumulative error of the motor seat assembly.

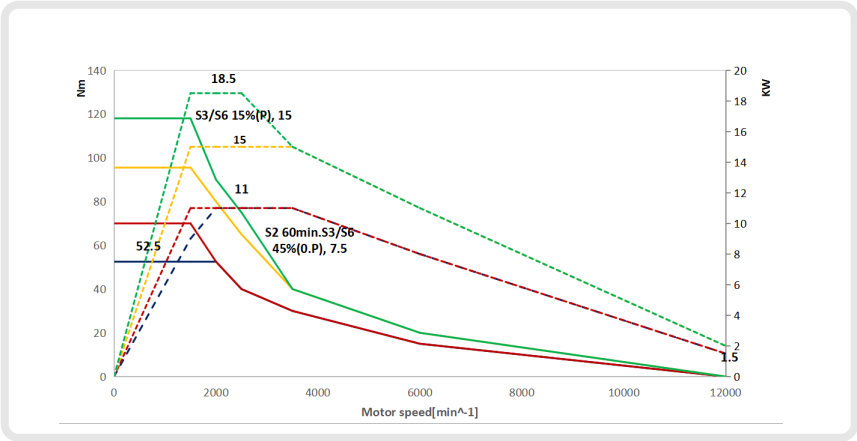


Spindle power curve: No.40 (FANUC CNC system)

Torque: 35.8Nm
FANUC: 7.5/11kW
Models: V8P/ V10P



Torque: 52.5Nm
FANUC: 11/15kW
Models: V10B/ V11B



V series

	Unit	V8P	V10P	V10B	V11B
Worktable size	mm	500×1000	520×1200	600×1200	610×1300
T-slot size	mm	5-18*100	5-18*100	5-18*100	5-18*100
Max. load bearing of worktable	kg	500	500	800	900
3 axis Travel X/Y/Z	mm	850/500/550	1000/520/535	1000/620/630	1100/610/630
Distance from column front to spindle center	mm	582	582	667	667
Distance from table top surface to spindle nose	mm	120-670	100-635	120-750	120-750
Spindle hole taper		BT40	BT40	BT40	BT40
Spindle power	kW	7.5/11	7.5/11	11/15	11/15
Max. spindle speed	rpm	12000	12000	12000	12000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/48	48/48/48	36/36/32	36/36/32
Tool magazine capacity	T	BT40-24T	BT40-24T	BT40-24T	BT40-24T
Tool change time	S	2.5	2.5	2.5	2.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004
Machine dimension	mm	2978*2490*2885	2990*2490*2885	3186*2679*2850	3404*2679*2850
Machine weight	kg	5500	5800	6800	7000

Standard Configurations

- High-rigidity structure
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- LCD 10.4” display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing
- Spindle oil cooling

Optional Configurations

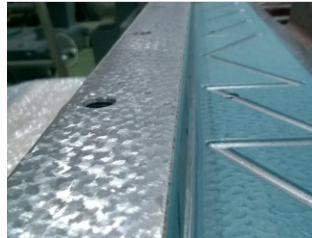
- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- 4/5th axis
- CTS
- CE

VMC 3-axis box guideway series - High rigidity for heavy cutting

Double-layer wrapped box structure for base, and all key parts like saddle, worktable, column had been comprehensively reinforced to avoid deformation and achieve better rigidity and precision.



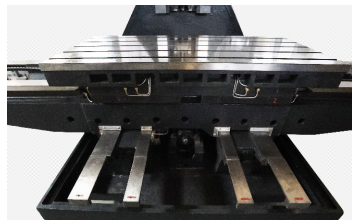
Manual precision scraping reduces wear and ensures high precision maintenance



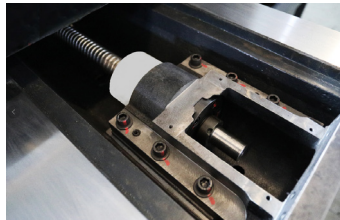
Uses large steel ball series bearings to enhance rigidity and heavy cutting capacity. The BT50 spindle has enhanced cutting capacity and rigidity.



The three axes use C3 grade 40mm ball screws, all of which are pre-loaded with nuts and pre-tensioned at the tail end to ensure minimum backlash and thermal deformation.



Strengthen the support structure at both ends of the screw
3+2 imported brand bearings are used at both ends of the ball screw to improve the accuracy and stability



VMC series

	Unit	VMC855	VMC1000	VMC1165	VMC1265
Worktable size	mm	550*1000	550*1200	650*1300	650*1400
T-slot size	mm	5-18*100	5-18*100	5-18*125	5-18*125
Max. load bearing of worktable	kg	700	800	1000	1200
3 axis Travel X/Y/Z	mm	850/550/650	1000/570/650	1100/650/665	1200/670/665
Distance from column front to spindle center	mm	610	610	700	700
Distance from table top surface to spindle nose	mm	125-775	100-750	150-815	115-780
Spindle hole taper		BT40	BT40	BT40	BT50
Spindle power	kW	11/15	11/15	11/15	11/15
Max. spindle speed	rpm	8000	8000	8000	6000
Max. feed speed	mm/min	10000	10000	10000	10000
Rapid feed speed	m/min	12/12/12	12/12/12	12/12/12	12/12/12
Tool magazine capacity	T	BT40-24T	BT40-24T	BT40-24T	BT50-24T
Tool change time	S	2.5	2.5	2.5	4.5
Positioning accuracy	mm	0.01	0.01	0.01	0.01
Re-positioning accuracy	mm	0.005	0.005	0.005	0.005
Machine dimension	mm	3120*2540*3000	3120*2540*3000	4426*2620*3250	4426*2620*3250
Machine weight	kg	6200	6400	8500	8900

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4" display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing
- Z-axis counterbalance

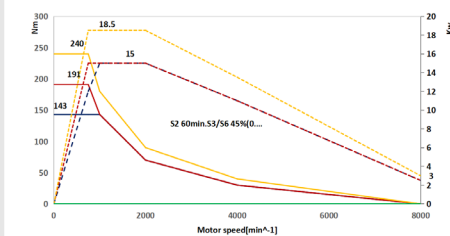
Optional Configurations

- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- Spindle oil cooling
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- 4/5th axis
- CTS
- CE

VMC Z-axis box guideway series - High rigidity for heavy cutting

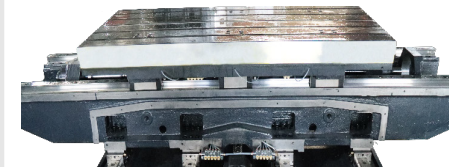
High torque main motor:

143Nm, more suitable for heavy cutting



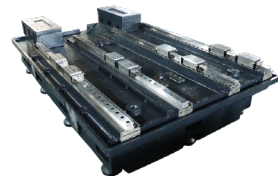
X axis roller guideway

The X-axis uses two 45mm high-rigidity, high-load roller linear guideways and heavy-duty 6-slide blocks to enhance rigidity and load-bearing capacity.



Y axis roller guideway

The Y-axis uses four 45mm high-rigidity, high-load roller linear guideways and heavy-load 8-slide blocks to enhance rigidity and load-bearing capacity.



Z-axis box guideway scraping process

Z axis 55mm roller guideway (optional)

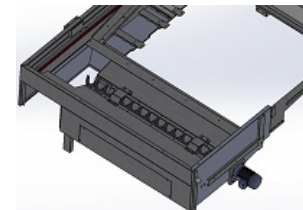


Three-axis full-travel support

Unique bed guideway design, no hanging phenomenon in the whole saddle travel, the worktable is fully supported in the X-axis travel, the center of gravity is in the middle of the two guideways during processing, and the load-bearing capacity is strong.

Convenient and efficient chip disposal

2 screw conveyor as standard to effectively remove the iron chips generated during processing. The external chain row plus chip removal car has a large conveying range and high conveying efficiency.



VMC series

	Unit	VMC1580L	VMC1690L	VMC1890L	VMC2090L
Worktable size	mm	850*1700	850*1700	900*2000	900*2000
T-slot size	mm	7-18 (5×125/2×100)	7-18 (5×125/2×100)	7-18*125	7-18*125
Max. load bearing of worktable	kg	1600	1600	1800	1800
3 axis Travel X/Y/Z	mm	1550/850/850	1650/900/900	1850/900/900	2000/900/900
Distance from column front to spindle center	mm	935	935	960	960
Distance from table top surface to spindle nose	mm	120-970	95-995	95-995	95-995
Spindle hole taper		BT50	BT50	BT50	BT50
Spindle power	kW	15/18.5	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	6000	6000	6000	6000
Max. feed speed	mm/min	10000	10000	10000	10000
Rapid feed speed	m/min	24/24/15	24/24/15	24/24/15	24/24/15
Tool magazine capacity	T	BT50-24T	BT50-24T	BT50-24T	BT50-24T
Tool change time	S	4.5	4.5	4.5	4.5
Positioning accuracy	mm	0.016	0.016	0.016	0.016
Re-positioning accuracy	mm	0.008	0.008	0.008	0.008
Machine dimension	mm	5800*3520*3750	5800*3520*3765	6400*3550*3880	6400*3550*3880
Machine weight	kg	13300	13500	14800	15200

Standard Configurations

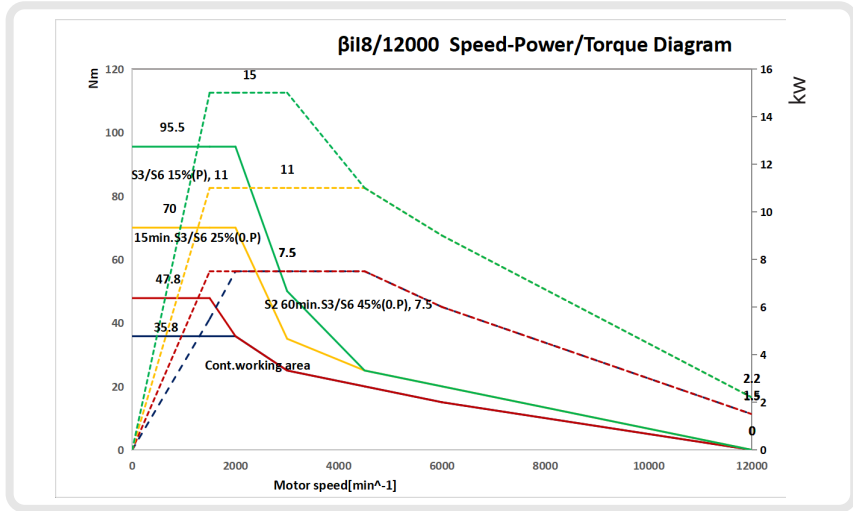
- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4” display
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Front chain-type chip conveyor
- Double screw chip conveyor
- Z axis weight balance cylinder

Optional Configurations

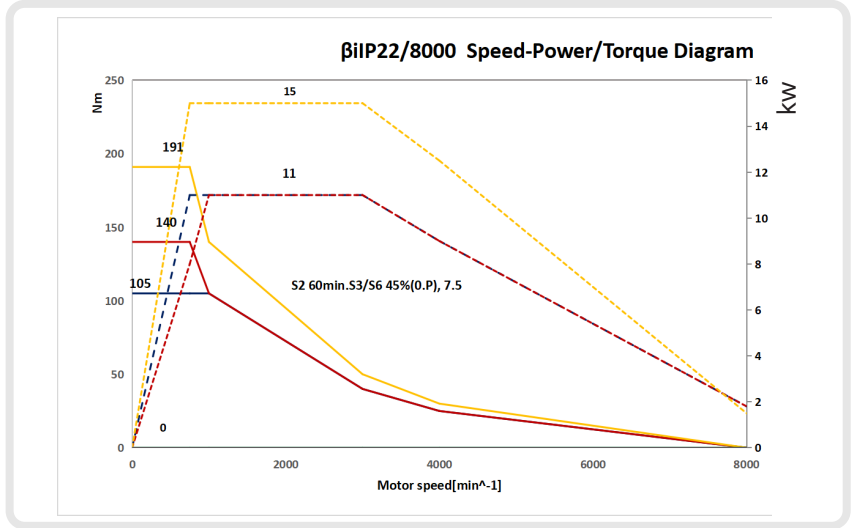
- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- Spindle oil cooling
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- Linear scale
- 4/5th axis
- CTS
- CE

Spindle power curve (FANUC CNC system)

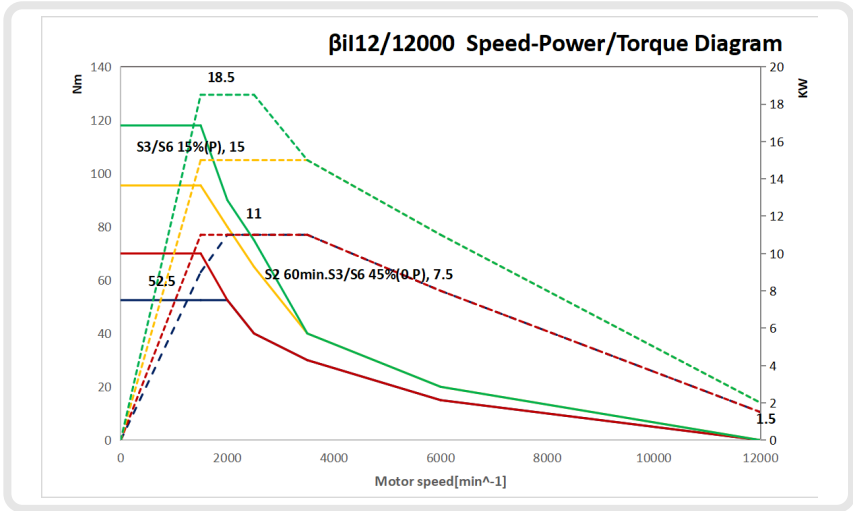
No.40 Belt/Direct
FANUC 7.5/11kW
Models: V8P / V10P



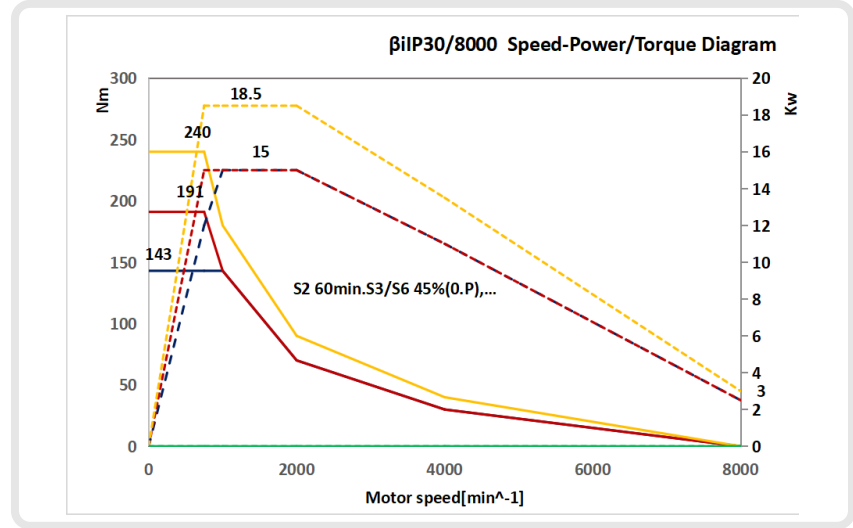
No.40 Belt/Direct
FANUC 11/15kW Wide area
Models: VMC1060B / 1160B



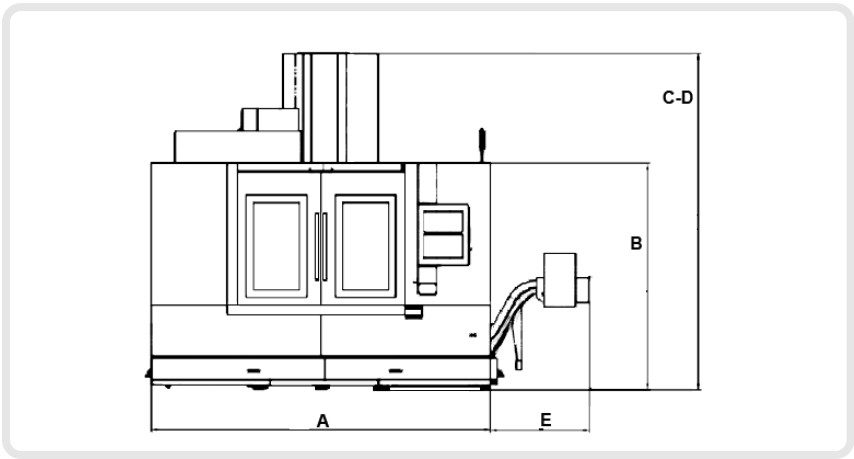
No.40 Belt/Direct
FANUC 11/15kW
Models: VMC850P / 1000P / 855 / 1000 / 1165 / 1265 / V10B / 11B



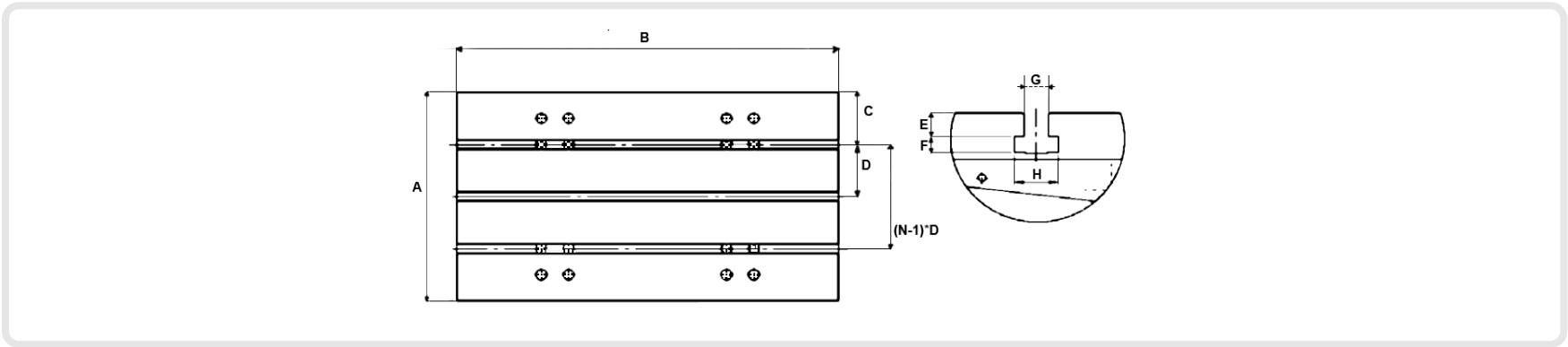
No.50 Belt
FANUC 15/18.5kW Wide area
Models: VMC1580L / 1690L / 1890L / 2090L



Machine dimension



Model	A	B	C-D	E
VMC850P/V8P	2978	2110	2615-2890	990
VMC1000P/V10P	2990	2110	2615-2890	1050
VMC1060B/V10B	2850	2040	2190-2820	1080
VMC1160B/V11B	3150	2040	2190-2820	1400
VMC855/1000	2700	2100	2675-3000	1300
VMC1165/1265	3280	2220	2665-3000	1275
VMC1580L	4205	2635	3325-3750	1495
VMC1690L	4205	2635	3435-3880	1495
VMC1890L	4605	2665	3435-3880	1165
VMC2090L	4605	2665	3435-3880	1165



Model	A	B	C	D	E	F	G	H	N	Unit
VMC850P/V8P	500	1000	50	100	18	12	18	30	5	mm
VMC1000P/V10P	520	1200	60	100	18	12	18	30	5	mm
VMC1060B/V10B	600	1200	100	100	19	13	18	32	5	mm
VMC1160B/V11B	610	1300	105	100	19	13	18	32	5	mm
VMC855	550	1000	75	100	20	12	18	31	5	mm
VMC1000	500	1200	75	100	21	12	18	30	5	mm
VMC1165	650	1300	75	125	23	12	18	30	5	mm
VMC1265	650	1400	75	125	23	12	18	30	5	mm
VMC1580L	850	1700	75	100-125	22	14	18	32	7	mm
VMC1690L	850	1700	75	100-125	22	14	18	32	7	mm
VMC1890L	900	2000	75	125	22	14	18	32	7	mm
VMC2090L	900	2000	75	125	22	14	18	32	7	mm

SV Series

Newly upgraded vertical machining center, the best choice for machining performance and range in the same class

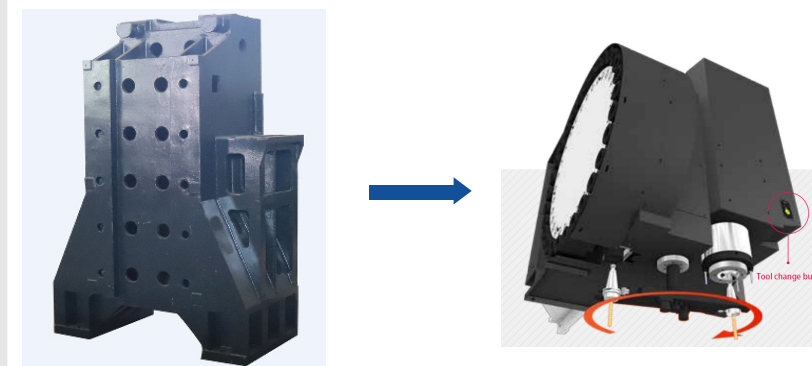


A wide range of products to meet different needs
A complete X-axis travel range from 600 to 1700
SV650 / SV850 / SV1060 / SV1160 / SV1270 / SV1470 / SV1580 / SV1780

Stable and reliable structure

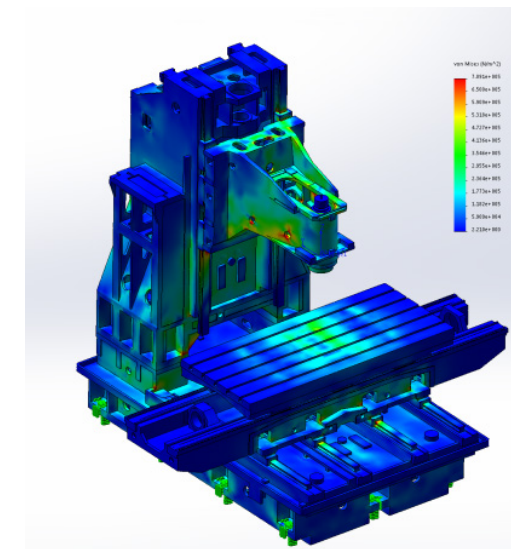
Stable and reliable automatic tool magazine device

- * Shorten cutting time through high-speed double-arm ATC
- * Fully enclosed tool magazine design as standard
- * Supports larger tool magazine capacity to meet various processing needs



The solid dense-baked casting and integral box-type bed and arched column structure improve the overall rigidity

The key parts have a unique cross-section design after finite element analysis, and the internal reinforcement ribs are reasonably distributed, which provides higher load-bearing rigidity among products of the same specifications.



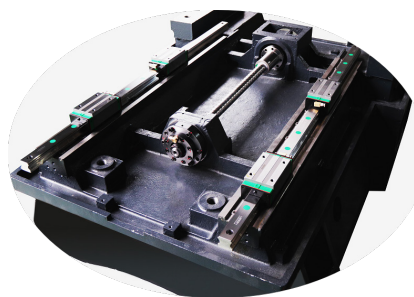
High-rigidity machine structure, greatly improved static rigidity, and 30% higher anti-deformation capability than traditional models.

3 axis motion rigidity has been improved, and the dynamic response speed has been increased by 30% compared to previous products.

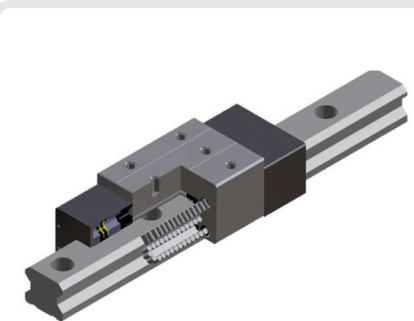


SVB Belt drive series - High rigidity & High precision

Stable and fast axis feed structure



The three-axis transmission seat and tail end bracket feature integrated casting, eliminating the traditional split and shim adjustment to greatly improve accuracy and stability.



Extended heavy-load rolling sliders improve machine's lifespan and load capacity vs. traditional models.

Dynamic load 30%
Static load 22%

High rigidity spindle

P4 grade high speed bearings

Permanent oil lubrication



Closed spindle box has large column - guideway contact, is lightweight and comes standard with a short nose spindle, enhancing Z axis positioning and spindle stability in processing.



Multi-row bearing + oil lubrication
45% UP compared to traditional models

Precision preloaded nuts eliminate ball screw drive clearance errors and enhance load bearing rigidity. The ball screw's double - fixed support design improves transmission system rigidity and reduces thermal deformation. Circulating thin oil lubrication for bearings prevents burns and ball screw overheating. The bearing seat's labyrinth dustproof design ensures cleanliness, improves lubrication, and extends bearing life.

SVB series

	Unit	SVB650	SVB1270	SVB1470	SVB1580	SVB1780
Worktable size	mm	400×850	700×1400	700×1600	800×1700	800×1900
T-slot size	mm	3-18*100	5-18*125	5-18*125	5-22*160	5-22*160
Max. load bearing of worktable	kg	400	1000	1100	1200	1300
3 axis Travel X/Y/Z	mm	650/400/500	1200/700/700	1400/700/700	1500/800/800	1700/800/800
Distance from column front to spindle center	mm	451	766	766	887	887
Distance from table top surface to spindle nose	mm	100-600	150-850	150-850	180-980	180-980
Spindle hole taper		BT40	BT50	BT50	BT50	BT50
Spindle power	kW	7.5/11	15/18.5	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	8000	6000	6000	6000	6000
Max. feed speed	mm/min	12000	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/32	24/24/20	24/24/20	24/24/24	24/24/24
Tool magazine capacity	T	20T	24T	24T	24T	24T
Tool change time	S	2.5	3.5	3.5	3.5	3.5
Positioning accuracy	mm	0.008	0.01	0.01	0.01	0.01
Re-positioning accuracy	mm	0.004	0.005	0.005	0.005	0.005
Machine dimension	mm	2110*2320*2750	4350*2955*3320	4850*2955*3320	5300*3250*3560	5500*3250*3560
Machine weight	kg	4100	9700	10000	14500	15000

Standard Configurations

- High-rigidity structure
 - High-speed precision spindle
 - Precision roller guideway (ex SVB650)
 - Precision ball screw
 - CNC system
 - Main motor and servo motor
 - Outer protective guard
 - Air gun
 - Water gun
 - Tool No. display
 - MPG
 - LCD 10.4” display
- Three-color light
 - Working light
 - Pneumatic system
 - Automatic lubrication system
 - P4-grade bearing set
 - Telescopic guards for 3-axis
 - Spindle air blowing and flushing
 - Internal chip flushing
 - Front chain-type chip conveyor (ex SVB650)
 - Double screw chip conveyor (ex SVB650)
 - Z axis weight balance cylinder (SVB1580/1780)

Optional Configurations

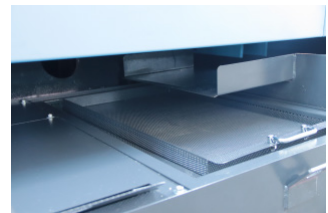
- System function expansion
 - Air conditioning
 - Column heightening
 - Automation preparation
 - Workpiece measurement
 - Tool measurement
 - Safety door
 - Automatic door
 - Spindle oil cooling
- ATC servo/frequency
 - ATC enlargement
 - Oil mist collector
 - Oil skimmer
 - Chip conveyor
 - Linear scale
 - 4/5th axis
 - CTS
 - CE

SVD Direct drive series - High speed & High precision

Spindle blow

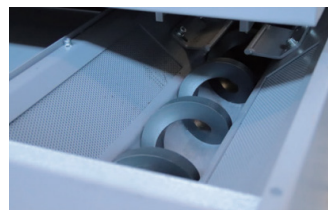


Water tank



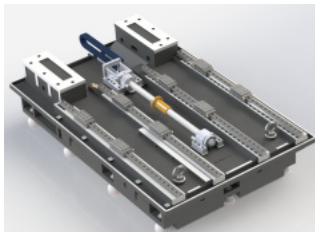
Inner screw type chip conveyor

Note: Standard of SV1270 above



Y axis 4 guideways, high rigidity

Note: Standard of SV1270 above



C.T.S(Opt)

2Mpa/3Mpa/5Mpa/7Mpa



D.D.S



Flushing device



SVD series

	Unit	SVD650	SVD850	SVD1060	SVD1160	SVD1270	SVD1470
Worktable size	mm	400×850	500×1000	600×1200	600×1360	700×1400	700×1600
T-slot size	mm	3-18*100	5-18*100	5-18*100	5-18*100	5-18*125	5-18*125
Max. load bearing of worktable	kg	400	600	800	900	1000	1100
3 axis Travel X/Y/Z	mm	650/400/500	850/520/560	1000/620/620	1160/620/620	1200/700/700	1400/700/700
Distance from column front to spindle center	mm	451	592	663	663	766	766
Distance from table top surface to spindle nose	mm	100-600	120-680	150-770	150-770	150-850	150-850
Spindle hole taper		BT40	BT40	BT40	BT40	BT50	BT50
Spindle power	kW	7.5/11	7.5/11	11/15	11/15	11/15	11/15
Max. spindle speed	rpm	12000	12000	12000	12000	10000	10000
Max. feed speed	mm/min	12000	12000	12000	12000	12000	12000
Rapid feed speed	m/min	48/48/32	48/48/32	36/36/24	36/36/24	24/24/20	24/24/20
Tool magazine capacity	T	20T	24T	24T	24T	24T	24T
Tool change time	S	2.5	2.5	2.5	2.5	3.5	3.5
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.01	0.01
Re-positioning accuracy	mm	0.004	0.004	0.004	0.004	0.005	0.005
Machine dimension	mm	2110*2320*2750	2250*2700*2850	3540*2620*2930	3740*2620*2930	4350*2955*3320	4850*2955*3320
Machine weight	kg	4100	6500	6800	7000	9700	10000

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway(ex SVD650)
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4" display

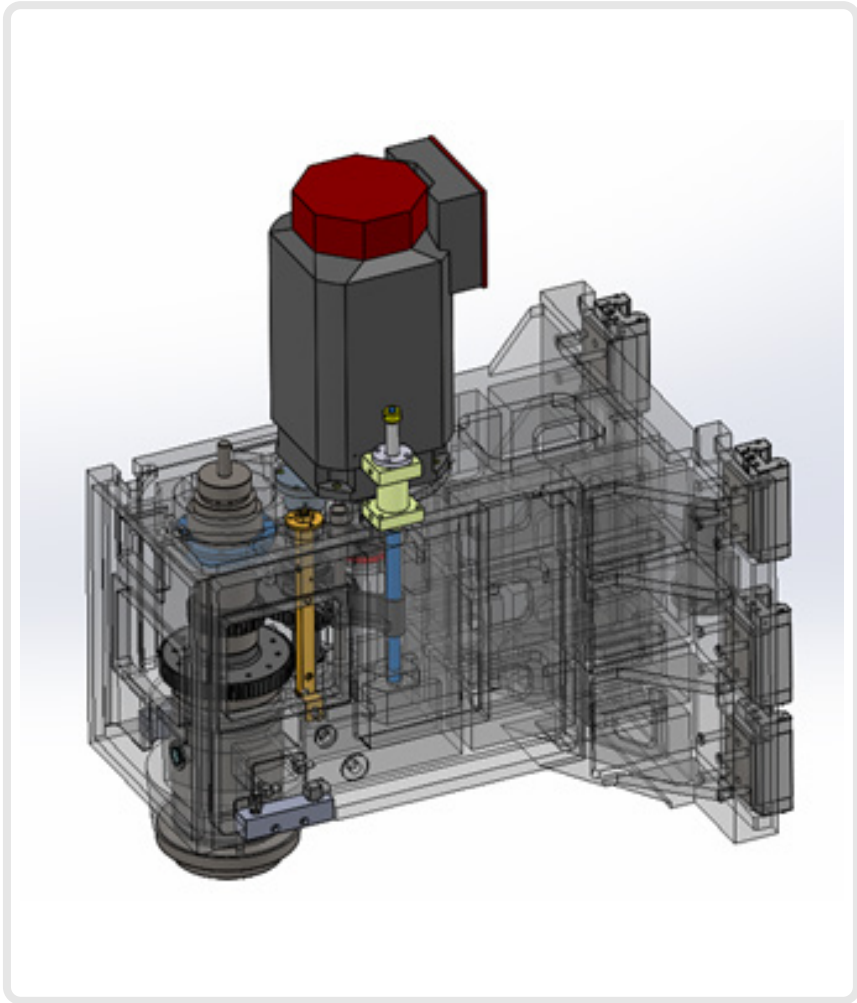
- Three-color light
- Spindle oil cooling
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing
- Front chain-type chip conveyor (ex SVD650)
- Double screw chip conveyor (ex SVD650)
- Z axis weight balance cylinder (SVD1580/1780)

Optional Configurations

- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- CE
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- Linear scale
- 4/5th axis
- CTS

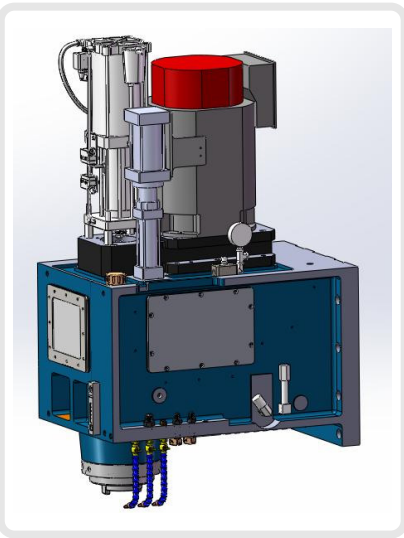
SVG Gearhead spindle series - High rigidity for heavy cutting

Gear head

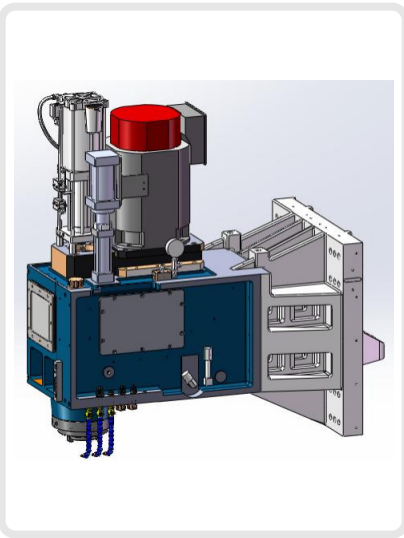


The new generation SVG series gear head vertical machining center adopts high rigidity heavy-duty roller guideway for X/Y/Z axis and two-stage gear direct drive spindle, which achieves strong cutting force output at low speed. Combined with high rigidity spindle design, it meets the requirements of heavy cutting and high-speed cutting.

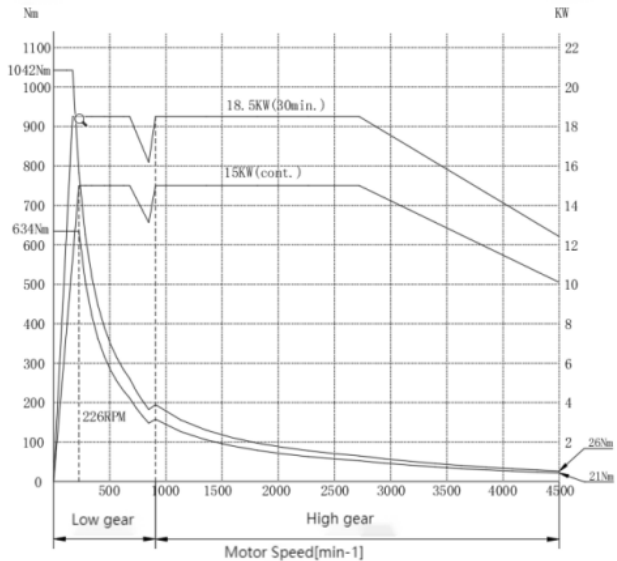
1270/1470



1580/1780



Max. torque is 1042Nm in low shift, suitable for heavy-duty cutting.



SVG series

	Unit	SVG1270	SVG1470	SVG1580	SVG1780
Worktable size	mm	700×1400	700×1600	800×1700	800×1900
T-slot size	mm	5-18*125	5-18*125	5-22*160	5-22*160
Max. load bearing of worktable	kg	1000	1100	1200	1300
3 axis Travel X/Y/Z	mm	1200/700/700	1400/700/700	1500/800/800	1700/800/800
Distance from column front to spindle center	mm	766	766	887	887
Distance from table top surface to spindle nose	mm	140-840	140-840	180-980	180-980
Spindle hole taper		BT50	BT50	BT50	BT50
Spindle power	kW	15/18.5	15/18.5	15/18.5	15/18.5
Max. spindle speed	rpm	6000	6000	6000	6000
Max. feed speed	mm/min	12000	12000	12000	12000
Rapid feed speed	m/min	24/24/20	24/24/20	24/24/24	24/24/24
Tool magazine capacity	T	24	24	24	24
Tool change time	S	3.5	3.5	3.5	3.5
Positioning accuracy	mm	0.01	0.01	0.01	0.01
Re-positioning accuracy	mm	0.005	0.005	0.005	0.005
Machine dimension	mm	4350*2955*3320	4850*2955*3320	5300*3250*3560	5500*3250*3560
Machine weight	kg	10700	11000	16000	16500

Standard Configurations

- High-rigidity structure
- High-speed precision spindle
- Precision roller guideway
- Precision ball screw
- CNC system
- Main motor and servo motor
- Outer protective guard
- Air gun
- Water gun
- Tool No. display
- MPG
- LCD 10.4" display

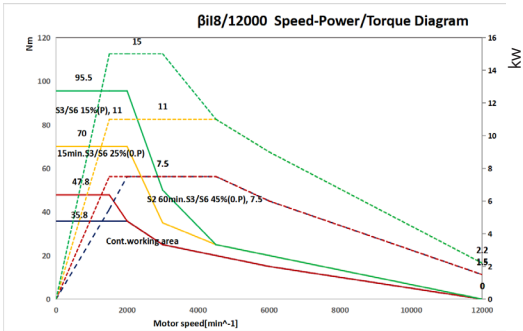
- Three-color light
- Working light
- Pneumatic system
- Automatic lubrication system
- P4-grade bearing set
- Telescopic guards for 3-axis
- Spindle air blowing and flushing
- Internal chip flushing
- Front chain-type chip conveyor
- Double screw chip conveyor
- Z axis weight balance cylinder
- Spindle oil cooling

Optional Configurations

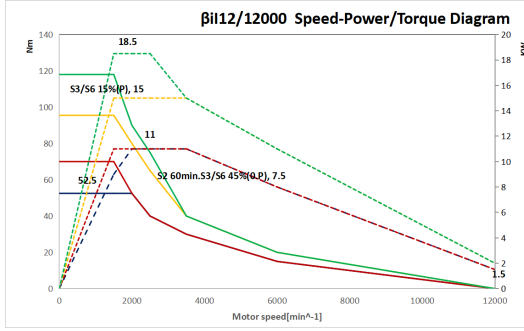
- System function expansion
- Air conditioning
- Column heightening
- Automation preparation
- Workpiece measurement
- Tool measurement
- Safety door
- Automatic door
- CE
- ATC servo/frequency
- ATC enlargement
- Oil mist collector
- Oil skimmer
- Chip conveyor
- Linear scale
- 4/5th axis
- CTS

Spindle power torque curve (FANUC CNC system)

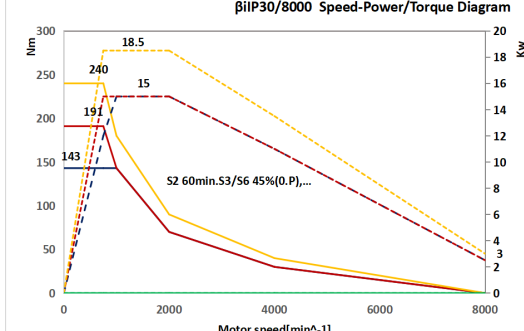
No.40 belt/direct drive
FANUC 7.5/11kW
Model: SVB650/SVD650



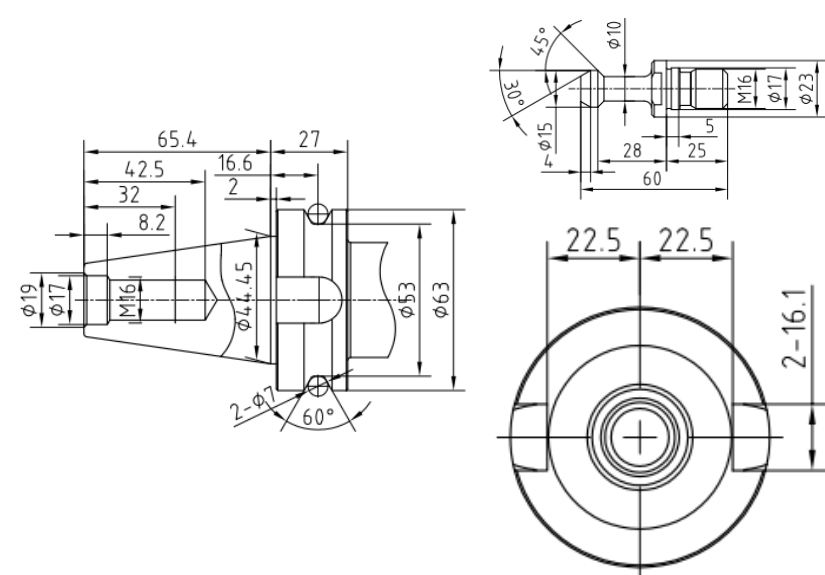
No.40 belt/direct drive
FANUC 11/15kW
Model: SVD 1270 / 1470



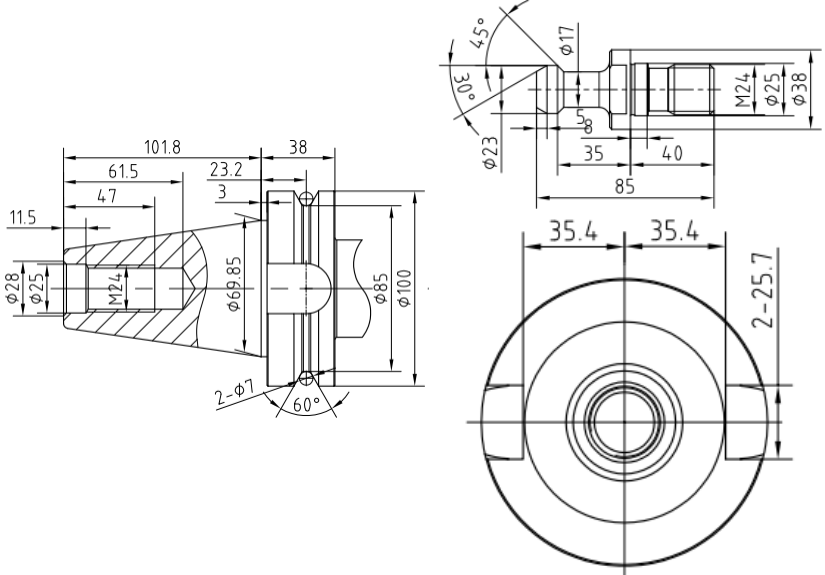
No.50 belt
FANUC 15/18.5kW wide area
Models: SVB1270/ 1470/ 1580/ 1780



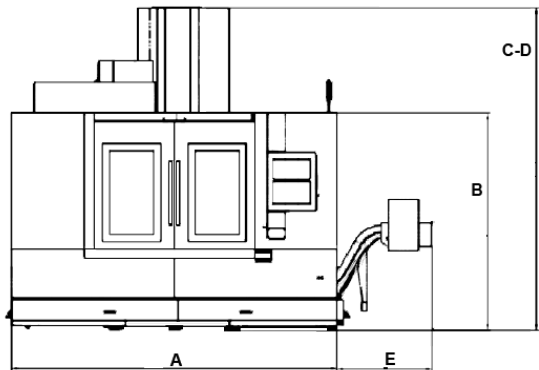
BT40 tool holder



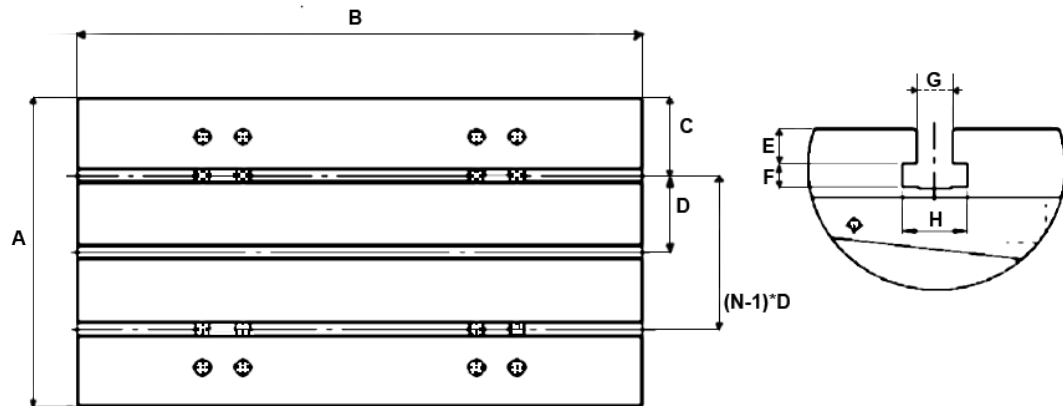
BT50 tool holder



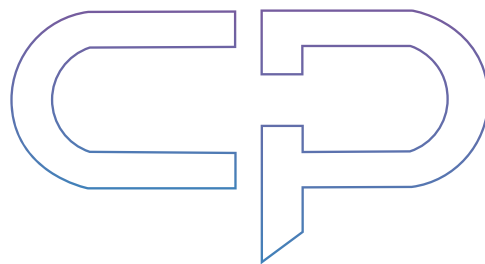
Machine dimension



Model	A	B	C~D	E
SVB/D650	2110	1975	2160-2660	1080
SVB/D/G1270	3350	2220	2620-3320	1000
SVB/D/G1470	3850	2220	2620-3320	1000
SVB/D/G1580	4040	2440	2758-3558	1110
SVB/D/G1780	4240	2440	2758-3558	1110



Model	A	B	C	D	E	F	G	H	N	Unit
SVB/D650	400	850	100	100	19	12	18	32	3	mm
SVB/D/G1270	700	1400	100	125	19	13	18	32	5	mm
SVB/D/G1470	700	1600	100	125	19	13	18	32	5	mm
SVB/D/G1580	800	1700	80	160	25	17	22	38	5	mm
SVB/D/G1780	800	1900	80	160	25	17	22	38	5	mm



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