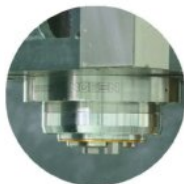


YSMV Gantry Structure Characteristics:

- Strong rigidity, high stability, excellent structure. Optimized structure design enhance cutting stability and dynamic precision for the perfect combination of high power, high torque, high efficiency and high precision processing. Suitable for large heavy processing fields: ship-building, metallurgy, petrochemical, mining machinery, electric power energy, engineering machinery.



Optional 24T, 40T BT50 ATC

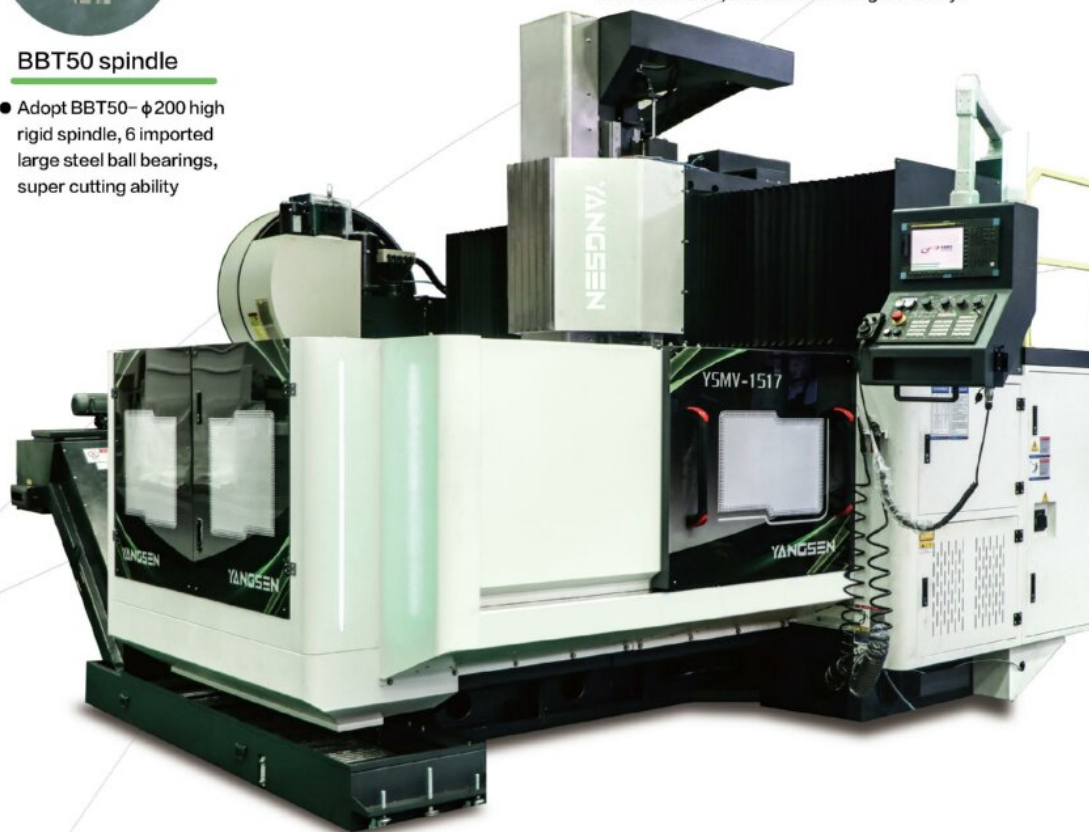
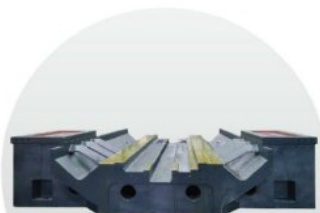


BBT50 spindle

- Adopt BBT50- $\phi 200$ high rigid spindle, 6 imported large steel ball bearings, super cutting ability

Base structure

- Chute integrated casting base, stable rigidity.
- The column equipped with convex rib reinforcement structure, the rib supporting the guideway vertically, without component force.
- Reasonable height of bed design, making the base more stable.



Triangular step design

- Increase the span of the Y-axis guideway, reduce the machining vibration, make the moving center of gravity closer to the transmission axis.



Ram four-guideway symmetrical design

- The symmetrical distribution design of the four-guideway, excellent rigidity for high-speed and high-precision cutting.
- DDS BBT50 spindle, the small size of the headstock section to reduce the interference.
- The inclined plate on the top dissipates heat to reduce heat extension, ensure machining accuracy.



The integrated of the symmetrical column and beam

- The integrated design of the column and beam.
- Improve the rigidity of the machine when roughing, can also process thin workpieces.

YANGSEN**YSMV series****YSMV Gantry Structure Characteristics:**

- Strong rigidity, high stability, excellent structure. Optimized structure design enhance cutting stability and dynamic precision for the perfect combination of high power, high torque, high efficiency and high precision processing. Suitable for large heavy processing fields: ship-building, metallurgy, petrochemical, mining machinery, electric power energy, engineering machinery.

Vertical and horizontal ATC**Auto milling head**

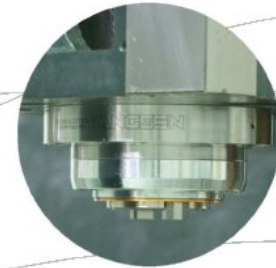
- The Gleason spiral transmission bevel gear.
- Smooth transmission, high precision, long service life.
- The internal drive quenched parts of the milling head.
- The small fit clearance between teeth.

**BBT50 spindle**

- Adopt BBT50- $\phi 200$ high rigid spindle, 6 imported large steel ball bearings, super cutting ability

Five-axis simultaneously dual-direction head

- A/C axis torque motor + motorized spindle
- A/C axis torque motor structure.
- A/C axis hydraulic clamping for high-speed cutting.

**Italy BF gear box**

- High performance, low noise.
- Available to expand the range of constant motor power, easy to install.
- Available to be used with multiple series of motors.
- Available to adapt to high tensile strength, compact appearance.



YANGSEN**YSM SERIES****YSM Gantry Structure Characteristics:**

- Strong rigidity, high stability, excellent structure. Optimized structure design enhance cutting stability and dynamic precision for the perfect combination of high power, high torque, high efficiency and high precision processing. Suitable for large heavy processing fields: ship-building, metallurgy, petrochemical, mining machinery, electric power energy, engineering machinery.

Vertical and horizontal ATC**Auto milling head**

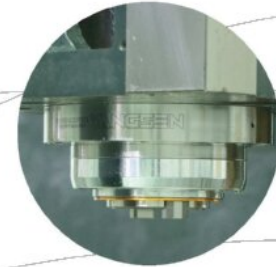
- The Gleason spiral transmission bevel gear.
- Smooth transmission, high precision, long service life.
- The internal drive quenched parts of the milling head.
- The small fit clearance between teeth.

**BBT50 spindle**

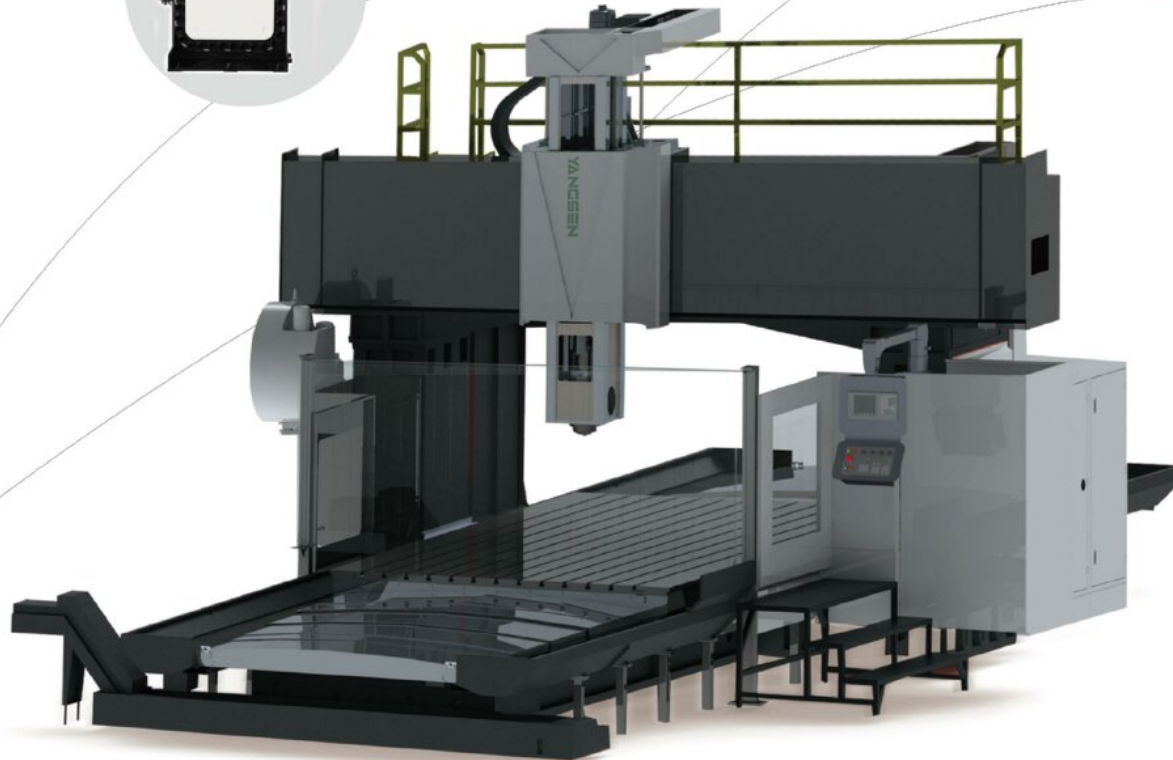
- Adopt BBT50- $\phi 200$ high rigid spindle, 6 imported large steel ball bearings, super cutting ability

Five-axis simultaneously dual-direction head

- A/C axis torque motor + motorized spindle
- A/C axis torque motor structure.
- A/C axis hydraulic clamping for high-speed cutting.

**Italy BF gear box**

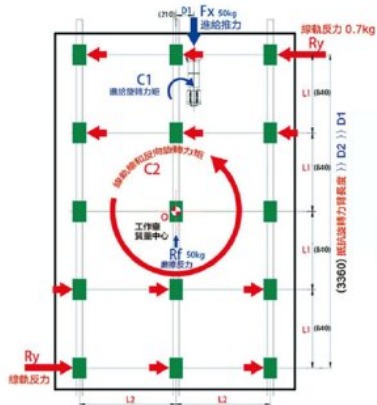
- High performance, low noise.
- Available to expand the range of constant motor power, easy to install.
- Available to be used with multiple series of motors.
- Available to adapt to high tensile strength, compact appearance.



YANGSEN**YSM SERIES**

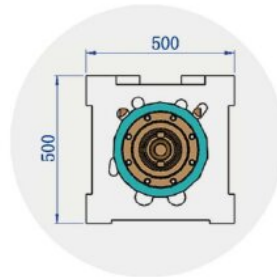
● Gantry moving nut structure

The X-axis is driven by a moving nut, and three-point support is used in the middle to maintain the rotation accuracy of the ballscrew rod. At the same time, the load capacity is large, and the cutting vibration resistance is good. It can improve the dynamic characteristics of the machine tool and increase the accuracy, stability, and service life of the machine tool.



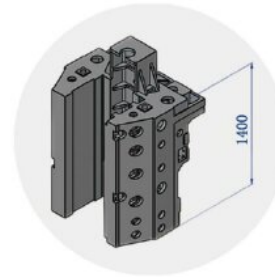
● Base structure

- ★ Compared with the double-guideway design, the rigidity is 50% higher;
- ★ Compared with the four-guideways design, it is more symmetrical and evenly distributed, reducing the power loss caused by the resistance of the multi-guideway slider;
- ★ 3m wide worktable, 2.1m base linear guideway. It is best ratio span of 0.7.



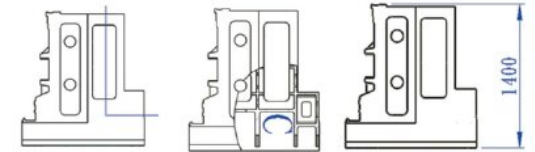
● Square ram

- ★ Bigger dimension 500*500, the original size is 460*460. It is a more heavy-duty design;
- ★ The built-in direct connection design reduces the power transmission consumption from the spindle motor to the spindle.



● Slide features

Large-size and heavy-duty design ensures that the upper part of the ram is firmly hugged by the three elongated sliders, and the lower part is supported by the four standard sliders.



● Nitrogen counterweight

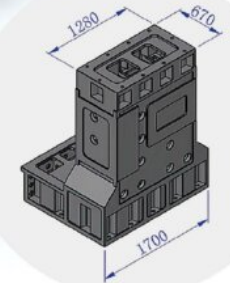
Reduce the load of the motor and the bearing force of the ballscrew, increase the life of the ballscrew and the motor, the acceleration of the Z axis to ensure the processing accuracy.

● Beam structure

- ★ Stepped L-shaped design improves rigidity;
- ★ The concave C-shaped structure has better bending resistance;
- ★ Large section design;
- ★ Finite element analysis.

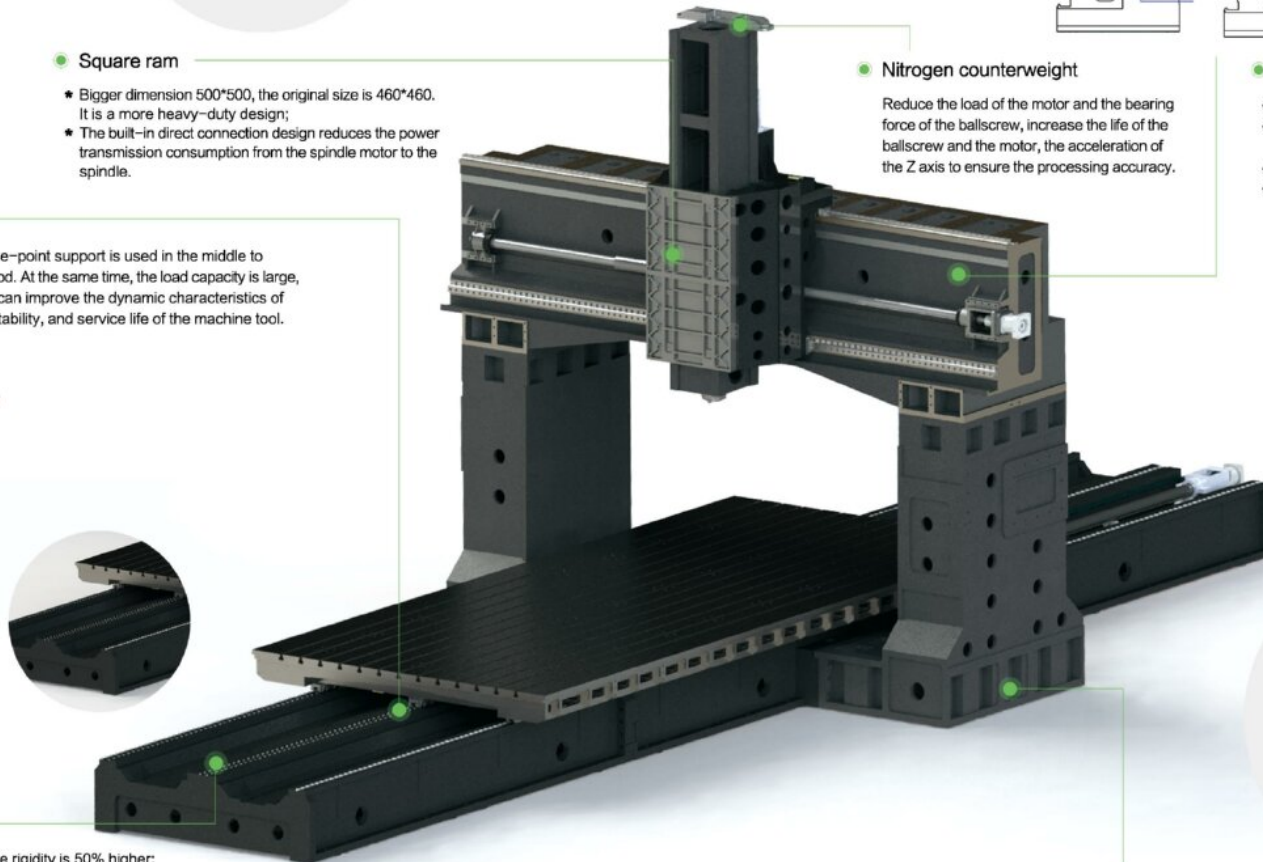


● Ballscrew support frame system



● Column structure

The 1.28m ultra-wide design of the column reduces the overall cutting vibration and makes the machine tool stable.





YSM Series Parameters

Model			YSM-1517	YSM-2013	YSM-2217	YSM-2518	YSM-2817
Subject	Specifications	Units					
Travel	X-Axis	mm	1500	2000	2200	2500	2800
	Y-Axis	mm	1700	1300	1700	2000	1700
	Z-Axis	mm	800	800	800	960	800
	Spindle Nose to Worktable	mm	90-890	190-990	90-890	140-1100	90-890
	Three-Axis Guideway	——	X/Y Heavy Load Roller Linear Guideway Z-Axis Box Way T- shape ram				
	Door Width	——	1700	1300	1700	1800	1700
Worktable	Worktable Size(L*W)	mm	1500*1400	2000*1000	2200*1400	2500*1600	2700*1400
	Maximum Table Load	t	2	3	6	10	7
	T-Slot	no/mm	7-22*220	7-22*150	7-22*200	9-22*180	7-22*200
Spindle	Spindle Type	type	BT-50	BT-50	BT-50	BT-50	BT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000	6000
	Spindle Drive Type	——	Belt				
Feedrate	Rapid Traverse (X/Y/Z)	m/min	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12
	Cutting Feedrate (X/Y/Z)	m/min	10	10	10	10	10
Tool Changer	ATC	——	24T(Option: 40/60)				
Motor	Spindle Motor	Nm	143-259	143-259	143-259	143-259	143-259
	Three-Axis Servo Motor	Nm	36/36/36	36/36/36	36/36/36	36/36/36	36/36/36
Accuracy	Accuracy	mm	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012	0.015/0.012/0.012	0.015/0.012/0.012
	Repeatability	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.008/0.008/0.008	0.010/0.010/0.008	0.010/0.010/0.008
Power Required	Power Requirement	kva	40	40	40	40	40
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	4092*4677*3941	6436*4402*4250	6212*4677*3941	7232*4845*4472	7212*5139*3977
	Gross Weight	t	16	18.5	18	25	20

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Levelling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

Model			YSM-1518	YSM-2218	YSM-3018	YSM-3022
Subject	Specifications	Units				
Travel	X-Axis	mm	1500	2200	3000	3000
	Y-Axis	mm	1700	1800	1800	2200
	Z-Axis	mm	800	800	800	1000
	Spindle Nose to Worktable	mm	180-1180	110-1180	180-1180	180-1180
	Three-Axis Guideway	——	X/Y Heavy Load Roller Linear Guideway Z-Axis Box Way T- shape ram			
	Door Width	——	1800	1800	1800	2200
Worktable	Worktable Size(L*W)	mm	1500 × 1400	2200 × 1400	2700 × 1400	2700 × 1400
	Maximum Table Load	t	2	6	7	7
	T-Slot	no/mm	7-22*200	7-22*200	7-22*200	7-22*200
Spindle	Spindle Type	type	BT-50	BT-50	BT-50	BT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type	——	Belt			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	12/12/12	12/12/12	12/12/12	12/12/12
	Cutting Feedrate (X/Y/Z)	m/min	10	10	10	10
Tool Changer	ATC	——	24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	143-259	143-259	143-259
	Three-Axis Servo Motor	Nm	36/36/36	36/36/36	36/36/36	36/36/36
Accuracy	Accuracy	mm	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012	0.015/0.012/0.012
	Repeatability	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.010/0.010/0.008	0.010/0.010/0.008
Power Required	Power Requirement	kva	40	40	40	40
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	4092*4677*3941	6212*4677*3941	7212*5139*3977	7212*5139*3977
	Gross Weight	t	16	18	20	20

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Levelling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

YSMV Series Parameters

Model			YSMV-1517	YSMV-2217	YSMV-2817	YSMV-3018
Subject	Specifications	Units				
Travel	X-Axis	mm	1500	2200	2800	3000
	Y-Axis	mm	1700	1700	1700	1700
	Z-Axis	mm	800	800	800	800
	Spindle Nose to Worktable	mm	80-890	80-890	80-890	80-890
	Three-Axis Guideway		XYZ Heavy Load Roller Linear Guideway			
	Door Width		1700	1700	1700	1700
Worktable	Worktable Size(L*W)	mm	1500 × 1400	2200 × 1400	2800 × 1400	2800 × 1400
	Maximum Table Load	t	2	6	7	8
	T-Slot	no/mm	7-22*200	7-22*200	7-22*200	7-22*200
Spindle	Spindle Type	type	BT-50	BT-50	BT-50	BT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type		DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	12/12/12	12/12/12	12/12/12	12/12/12
	Cutting Feedrate (X/Y/Z)	m/min	10	10	10	10
Tool Changer	ATC		24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	143-259	143-259	143-259
	Three-Axis Servo Motor	Nm	36/36/36	36/36/36	36/36/36	36/36/36
Accuracy	Accuracy	mm	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012
	Repeatability	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.008/0.008/0.008	0.008/0.008/0.008
Power Required	Power Requirement	kva	40	40	40	40
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	4092*4677*3941	6212*4677*3941	7212*5139*3977	7412*5139*3977
	Gross Weight	t	16	18	20	22

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Leveling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

Model			YSMV-3021	YSMV-5021	YSMV-7021
Subject	Specifications	Units			
Travel	X-Axis	mm	3000	5000	7000
	Y-Axis	mm	2100	2100	2100
	Z-Axis	mm	1000	1000	1000
	Spindle Nose to Worktable	mm	200-1200	200-1200	200-1200
	Three-Axis Guideway		XYZ Heavy Load Roller Linear Guideway		
	Door Width		2100	2100	2100
Worktable	Worktable Size(L*W)	mm	3000 × 1800	5000 × 1800	6400 × 1800
	Maximum Table Load	t	10	18	25
	T-Slot	no/mm	9-28*200	9-28*200	11-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000
	Spindle Drive Type		DDS		
Feedrate	Rapid Traverse (X/Y/Z)	m/min	12/12/12	10/12/12	8/12/12
	Cutting Feedrate (X/Y/Z)	m/min	8	8	8
Tool Changer	ATC		24T(Option: 40/60)		
Motor	Spindle Motor	Nm	143-259	143-259	140-283
	Three-Axis Servo Motor	Nm	36/36/36	36/36/36	38/30/30
Accuracy	Accuracy	mm	0.03/0.02/0.015	0.03/0.02/0.015	0.045/0.02/0.015
	Repeatability	mm	0.018/0.015/0.01	0.018/0.015/0.01	0.035/0.015/0.01
Power Required	Power Requirement	kva	40	40	50
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	9000*5318*5350	10750*5318*5350	17000*5318*5350
	Gross Weight	t	28	35	56

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Leveling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

YSMV Series Parameters

Model			YSMV-3027	YSMV-4027	YSMV-7027	YSMV-9027
Subject	Specifications	Units				
Travel	X-Axis	mm	3000	4000	7000	9000
	Y-Axis	mm	2700	2700	2700	2700
	Z-Axis	mm	1300	1300	1300	1300
	Spindle Nose to Worktable	mm	150-1450	150-1450	150-1450	150-1450
	Three-Axis Guideway	——	XYZ Heavy Load Roller Linear Guideway			
	Door Width	——	2700	2700	2700	2700
Worktable	Worktable Size(L*W)	mm	3000×2200	4000×2200	6400×2200	8800×2200
	Maximum Table Load	t	12	18	25	35
	T-Slot	no/mm	11-28*200	11-28*200	11-28*200	11-28*200
Spindle	Spindle Type	type	BT-50	BT-50	BT-50	BT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type	——	DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	12/12/12	12/12/12	8/12/12	6/12/12
	Cutting Feedrate (X/Y/Z)	m/min	10	10	10	10
Tool Changer	-ATC	——	24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	143-259	140-283	140-283
	Three-Axis Servo Motor	Nm	36/36/36	36/36/36	38/30/30	38/30/30
Accuracy	Accuracy	mm	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012	0.012/0.012/0.012
	Repeatability	mm	0.008/0.008/0.08	0.008/0.008/0.08	0.008/0.008/0.08	0.008/0.008/0.08
Power Required	Power Requirement	kva	40	40	40	40
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	8657*6004*5287	10808*6304*5531	17000*6004*5287	21800*6004*5287
	Gross Weight	t	36	43	61	73

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Leveling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

Model			YSMV-5030	YSMV-7030	YSMV-9030	YSMV-10030
Subject	Specifications	Units				
Travel	X-Axis	mm	5000	7000	9000	10000
	Y-Axis	mm	3000	3000	3000	3000
	Z-Axis	mm	1300	1300	1300	1300
	Spindle Nose to Worktable	mm	150-1450	150-1450	150-1450	150-1450
	Three-Axis Guideway	——	XYZ Heavy Load Roller Linear Guideway			
	Door Width	——	3000	3000	3000	3000
Worktable	Worktable Size(L*W)	mm	4600×2600	6400×2600	8800×2600	10000×2600
	Maximum Table Load	t	22	25	35	40
	T-Slot	no/mm	11-28*200	11-28*200	11-28*200	11-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type	——	DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	10/12/12	8/12/12	6/12/12	6/12/12
	Cutting Feedrate (X/Y/Z)	m/min	8	8	8	8
Tool Changer	-ATC	——	24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	140-283	140-283	140-283
	Three-Axis Servo Motor	Nm	36/36/36	38/30/30	38/30/30	38/30/30
Accuracy	Accuracy	mm	0.03/0.02/0.015	0.03/0.02/0.015	0.055/0.02/0.015	0.045/0.02/0.015
	Repeatability	mm	0.018/0.015/0.01	0.022/0.015/0.01	0.045/0.015/0.01	0.035/0.015/0.01
Power Required	Power Requirement	kva	40	50	50	50
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	12168*6304*5531	17000*6304*5531	21800*6304*5531	23800*6304*5531
	Gross Weight	t	50	63	75	85

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Leveling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System

YSMV Series Parameters

Model			YSMV-5035	YSMV-7035	YSMV-9035	YSMV-10035
Subject	Specifications	Units				
Travel	X-Axis	mm	5000	7000	9000	10000
	Y-Axis	mm	3500	3500	3500	3500
	Z-Axis	mm	1300	1300	1300	1300
	Spindle Nose to Worktable	mm	150-1450	150-1450	150-1450	150-1450
	Three-Axis Guideway		XYZ Heavy Load Roller Linear Guideway			
	Door Width		3500	3500	3500	3500
Worktable	Worktable Size(L*W)	mm	4600 × 3000	6400 × 3000	8800 × 3000	10000 × 3000
	Maximum Table Load	t	22	25	35	40
	T-Slot	no/mm	11-28*200	11-28*200	11-28*200	11-28*200
Spindle	Spindle Type	type	BT-50	BT-50	BT-50	BT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type		DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	10/12/12	8/12/12	8/12/12	8/12/12
	Cutting Feedrate (X/Y/Z)	m/min	8	8	8	8
Tool Changer	ATC		24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	140-283	140-283	140-283
	Three-Axis Servo Motor	Nm	36/36/36	38/30/30	38/30/30	38/30/30
Accuracy	Accuracy	mm	0.03/0.02/0.015	0.03/0.02/0.015	0.055/0.02/0.015	0.055/0.02/0.015
	Repeatability	mm	0.018/0.015/0.01	0.022/0.015/0.01	0.045/0.015/0.01	0.045/0.015/0.01
Power Required	Power Requirement	kva	40	40	40	40
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	12428 × 6986 × 5500	16688 × 6986 × 5500	20965 × 6986 × 5500	26300 × 6986 × 5500
	Gross Weight	t	56	68	78	87

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Levelling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System
- ★ 90° Auto Milling Head with AHC

Model			YSMV-5041	YSMV-7041	YSMV-9041	YSMV-10041
Subject	Specifications	Units				
Travel	X-Axis	mm	5000	7000	9000	10000
	Y-Axis	mm	4100	4100	4100	4100
	Z-Axis	mm	1300	1300	1300	1300
	Spindle Nose to Worktable	mm	150-1450	150-1450	150-1450	150-1450
	Three-Axis Guideway		XYZ Heavy Load Roller Linear Guideway			
	Door Width		4100	4100	4100	4100
Worktable	Worktable Size(L*W)	mm	4600 × 3000	6400 × 3000	8800 × 3000	10000 × 3000
	Maximum Table Load	t	22	25	35	40
	T-Slot	no/mm	11-28*200	11-28*200	11-28*200	11-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type		DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	10/12/12	8/12/12	8/12/12	8/12/12
	Cutting Feedrate (X/Y/Z)	m/min	8	8	8	8
Tool Changer	ATC		24T(Option: 40/60)			
Motor	Spindle Motor	Nm	143-259	140-283	140-283	140-283
	Three-Axis Servo Motor	Nm	36/36/36	38/30/30	38/30/30	38/30/30
Accuracy	Accuracy	mm	0.03/0.02/0.015	0.03/0.02/0.015	0.055/0.02/0.015	0.055/0.02/0.015
	Repeatability	mm	0.018/0.015/0.01	0.022/0.015/0.01	0.045/0.015/0.01	0.045/0.015/0.01
Power Required	Power Requirement	kva	40	50	50	50
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	11740 × 7135 × 5800	16850 × 7135 × 5800	23700 × 7135 × 5800	26300 × 7135 × 5800
	Gross Weight	t	68	78	85	96

Standard Accessories

- ★ Rigid Tapping
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Dual LED Work Light
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Spindle Nose Air Blow
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off
- ★ Levelling Bolts and Pads

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 40T ATC
- ★ Tool Breakage System
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ 90° Manual Milling Head
- ★ Air Conditioner
- ★ Auto Parts Probe Measuring System
- ★ 90° Auto Milling Head with AHC

YSM28/32 Square Ram Series Parameters

Model			YSM-3028	YSM-5028	YSM-7028
Subject	Specifications	Units			
Travel	X-Axis	mm	3000	5000	7000
	Y-Axis	mm	2800	2800	2800
	Z-Axis	mm	1250 (Optional 1500)		
	Spindle Nose to Worktable	mm	350-1350	350-1350	350-1350
	Three-Axis Guideway	////	X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram		
	Door Width	////	2800	2800	2800
	Type of Ram	////	Square Ram (500x500)		
Worktable	Worktable Size(L*W)	mm	3400*2200	4600*2200	6400*2200
	Maximum Table Load	t	10	14	20
	T-Slot	no/mm	11-28*200	11-28*200	11-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000
	Spindle Drive Type	////	DDS		
Feedrate	Rapid Traverse (X/Y/Z)	m/min	10/10/10	10/10/10	8/10/10
	Cutting Feedrate (X/Y/Z)	m/min	8	8	6
Tool Changer	ATC	////	24T(Option: 40/60)		
Motor	Spindle Motor	Nm	140-286	140-286	140-286
	Three-Axis Servo Motor	Nm	36/36/36	38/36/36	38/36/36
Accuracy	Accuracy	mm	0.03/0.025/0.015	0.03/0.025/0.015	0.045/0.025/0.015
	Repeatability	mm	0.02/0.02/0.01	0.025/0.02/0.01	0.03/0.02/0.01
Power Required	Power Requirement	kva	45	55	55
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	8800*6050*5820(6320)	11600*6050*5820(6320)	15600*6050*5820(6320)
	Gross Weight	t	45	51	63

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart

- ★ Geared Box
- ★ Levelling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

Model			YSM-5032	YSM-7032	YSM-9032
Subject	Specifications	Units			
Travel	X-Axis	mm	5000	7000	9000
	Y-Axis	mm	3200	3200	3200
	Z-Axis	mm	1250 (Optional 1500)		
	Spindle Nose to Worktable	mm	350-1350	350-1350	350-1350
	Three-Axis Guideway	////	X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram		
	Door Width	////	3200	3200	3200
	Type of Ram	////	Square Ram (500x500)		
Worktable	Worktable Size(L*W)	mm	4600*2600	6400*2600	8800*2600
	Maximum Table Load	t	20	25	30
	T-Slot	no/mm	13-28*200	13-28*200	13-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000
	Spindle Drive Type	////	DDS		
Feedrate	Rapid Traverse (X/Y/Z)	m/min	10/10/10	6/10/10	6/10/10
	Cutting Feedrate (X/Y/Z)	m/min	8	6	6
Tool Changer	ATC	////	24T(Option: 40/60)		
Motor	Spindle Motor	Nm	140-286	140-286	140-286
	Three-Axis Servo Motor	Nm	38/36/36	38/36/36	38/36/36
Accuracy	Accuracy	mm	0.035/0.025/0.015	0.045/0.025/0.015	0.045/0.025/0.015
	Repeatability	mm	0.025/0.02/0.01	0.03/0.02/0.01	0.03/0.02/0.01
Power Required	Power Requirement	kva	55	55	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	11600*6450*5820(6320)	15600*6450*5820(6320)	19600*6450*5820(6320)
	Gross Weight	t	56	66	76

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart

- ★ Geared Box
- ★ Levelling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

YSM38/42 Square Ram Series Parameters

Model			YSM-5038	YSM-7038	YSM-9038
Subject	Specifications	Units			
Travel	X-Axis	mm	5000	7000	9000
	Y-Axis	mm	3800	3800	3800
	Z-Axis	mm	1250 (Optional 1500)		
	Spindle Nose to Worktable	mm	350~1600	350~1600	350~1600
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram		
	Door Width		3800	3800	3800
	Type of Ram		Square Ram (500x500)		
Worktable	Worktable Size(L*W)	mm	4600*3000	6400*3000	8800*3000
	Maximum Table Load	t	20	30	35
	T-Slot	no/mm	15-28*200	15-28*200	15-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000
	Spindle Drive Type		DDS		
Feedrate	Rapid Traverse (X/Y/Z)	m/min	8/10/10	6/10/10	6/10/10
	Cutting Feedrate (X/Y/Z)	m/min	8	6	6
Tool Changer	ATC		24T(Option: 40/60)		
Motor	Spindle Motor	Nm	140~286	140~286	140~286
	Three-Axis Servo Motor	Nm	38/36/36	38/36/36	38/36/36
Accuracy	Accuracy	mm	0.03/0.025/0.015	0.045/0.03/0.015	0.05/0.03/0.015
	Repeatability	mm	0.025/0.02/0.01	0.03/0.02/0.01	0.035/0.02/0.01
Power Required	Power Requirement	kva	55	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	11600*7000*6320	15600*7000*6320	19600*7000*6320
	Gross Weight	t	66	77	91

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart

- ★ Geared Box
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

Model			YSM-5042	YSM-7042	YSM-9042
Subject	Specifications	Units			
Travel	X-Axis	mm	5000	7000	9000
	Y-Axis	mm	4200	4200	4200
	Z-Axis	mm	1250 (Optional 1500)		
	Spindle Nose to Worktable	mm	350~1600	350~1600	350~1600
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram		
	Door Width		4200	4200	4200
	Type of Ram		Square Ram (500x500)		
Worktable	Worktable Size(L*W)	mm	4600*3000	6400*3000	8800*3000
	Maximum Table Load	t	20	30	35
	T-Slot	no/mm	15-28*200	15-28*200	15-28*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000
	Spindle Drive Type		DDS		
Feedrate	Rapid Traverse (X/Y/Z)	m/min	8/10/10	6/10/10	6/10/10
	Cutting Feedrate (X/Y/Z)	m/min	8	6	6
Tool Changer	ATC		24T(Option: 40/60)		
Motor	Spindle Motor	Nm	140~286	140~286	140~286
	Three-Axis Servo Motor	Nm	38/36/36	38/36/36	38/36/36
Accuracy	Accuracy	mm	0.03/0.025/0.015	0.045/0.03/0.015	0.05/0.03/0.015
	Repeatability	mm	0.025/0.02/0.01	0.03/0.02/0.01	0.035/0.02/0.01
Power Required	Power Requirement	kva	60	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	11600*8000*6320	15600*8000*6320	19600*8000*6320
	Gross Weight	t	70	82	95

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ Geared Box
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

YANGSEN**YSMD SERIES**

● Square Ram and Sliding Seat Structure

- ★ Dimension: 500x500, Heavy-Duty Design;
- ★ Direct-Driven Design;
- ★ Large-Size and Heavy-Duty design ensures that the ram is firmly connected;
- ★ Three extended sliders at the top and four standard sliders at the bottom.



● Gear Transmission

High Precision, Heavy Load, High Speed,
Low Noise, Longer Service Life.



● Dual Motor with Anti-Backlash Transmission Structure

High Precision, Heavy Load, High Speed, Low Noise, Longer Service Life.



● Vertical / Horizontal Automatic Tool Magazine



● Italy BF Gear Box

High performance speed, low noise. It could expand motor constant power range. It is easy to install. The machine can be used in conjunction with multiple series of motors. It can adapt to high-strength tension, small size.



● Extended Angle Milling Head



● Two-Way Spindle Angle Milling Head



● Automatic Hydraulic Angle Milling Head

YSMD42 Moving Column Series Parameters

Model			YSMD-6042	YSMD-8042	YSMD-10042	YSMD-12042
Subject	Specifications	Units				
Travel	X-Axis	mm	6000	8000	10000	12000
	Y-Axis	mm	4200	4200	4200	4200
	Z-Axis	mm	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram			
	Door Width		4200	4200	4200	4200
	Type of Ram		Square Ram (500x500)			
Worktable	Worktable Size(L*W)	mm	6000*3500	8000*3500	10000*3500	12000*3500
	Maximum Table Load	t	50	50	50	50
	T-Slot	no/mm	36*200	36*200	36*200	36*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type		DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6
Tool Changer	ATC		24T(Option: 40/60)			
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.04/0.035/0.02	0.04/0.035/0.02	0.055/0.035/0.02	0.06/0.035/0.02
	Repeatability	mm	0.03/0.025/0.015	0.035/0.025/0.015	0.04/0.025/0.015	0.045/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	15200 × 7730 × 5800	17200 × 7730 × 5800	19200 × 7730 × 5800	21200 × 7730 × 5800
	Gross Weight	t	95	105	115	125

Standard Accessories

- ★ Spindle Coolant System
- ★ Rigid Tapping
- ★ Dual LED Work Light
- ★ Geared Box
- ★ Automatic Lubricating System
- ★ Heat Exchange for Electric Cabinet
- ★ LED 3 Color Warning Light
- ★ Levelling Bolts and Pads
- ★ Semi-Enclosed Guard
- ★ Dual-Screw Type Chip Conveyor
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ Workpieces Probe
- ★ Oil Mist System
- ★ Manual/Semi-Auto 90° Milling Head
- ★ CTS
- ★ Chip Conveyor System
- ★ Oil Skimmer
- ★ Auto Parts Probe Measuring System
- ★ 20T/40T/60T ATC
- ★ Rotary Table

Model			YSMD-14042	YSMD-16042	YSMD-18042	YSMD-21042
Subject	Specifications	Units				
Travel	X-Axis	mm	14000	16000	18000	21000
	Y-Axis	mm	4200	4200	4200	4200
	Z-Axis	mm	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram			
	Door Width		4200	4200	4200	4200
	Type of Ram		Square Ram (500x500)			
Worktable	Worktable Size(L*W)	mm	14000*3500	16000*3500	18000*3500	21000*3500
	Maximum Table Load	t	50	50	50	50
	T-Slot	no/mm	36*200	36*200	36*200	36*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type		DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6
Tool Changer	ATC		24T(Option: 40/60)			
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.07/0.035/0.02	0.08/0.035/0.02	0.09/0.035/0.02	0.10/0.035/0.02
	Repeatability	mm	0.055/0.025/0.015	0.065/0.025/0.015	0.075/0.025/0.015	0.085/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6^8	6^8	6^8	6^8
Others	External Dimensions (L*W*H)	mm	23200 × 7730 × 5800	25200 × 7730 × 5800	27200 × 7730 × 5800	29200 × 7730 × 5800
	Gross Weight	t	135	145	155	170

Standard Accessories

- ★ Spindle Coolant System
- ★ Rigid Tapping
- ★ Dual LED Work Light
- ★ Geared Box
- ★ Automatic Lubricating System
- ★ Heat Exchange for Electric Cabinet
- ★ LED 3 Color Warning Light
- ★ Levelling Bolts and Pads
- ★ Semi-Enclosed Guard
- ★ Dual-Screw Type Chip Conveyor
- ★ Chain Type Chip Conveyor and Cart
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ Workpieces Probe
- ★ Oil Mist System
- ★ Manual/Semi-Auto 90° Milling Head
- ★ CTS
- ★ Chip Conveyor System
- ★ Oil Skimmer
- ★ Auto Parts Probe Measuring System
- ★ 20T/40T/60T ATC
- ★ Rotary Table



YSMD46 Moving Column Series Parameters

Model			YMSD-6046	YMSD-8046	YMSD-10046	YMSD-12046
Subject	Specifications	Units				
Travel	X-Axis	mm	6000	8000	10000	12000
	Y-Axis	mm	4600	4600	4600	4600
	Z-Axis	mm	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway	——	X/Geared Transmission , Y/ Heavy Load Roller Linear Guideway, Z-Axis Square Ram			
	Door Width	——	4600	4600	4600	4600
	Type of Ram	——	Square Ram (500x500)			
Worktable	Worktable Size(L*W)	mm	6000*3500	8000*3500	10000*3500	12000*3500
	Maximum Table Load	t	50	50	50	50
	T-Slot	no/mm	36*200	36*200	36*200	36*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type	——	DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6
Tool Changer	ATC	——	24T(Option: 40/60)			
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.04/0.035/0.02	0.04/0.035/0.02	0.055/0.035/0.02	0.06/0.035/0.02
	Repeatability	mm	0.035/0.025/0.015	0.035/0.025/0.015	0.04/0.025/0.015	0.045/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	15200×8130×5800	17200×8130×5800	19200×8130×5800	21200×8130×5800
	Gross Weight	t	98	108	118	128

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart

- ★ Geared Box
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

Model			YMSD-14046	YMSD-16046	YMSD-18046	YMSD-21046
Subject	Specifications	Units				
Travel	X-Axis	mm	14000	16000	18000	21000
	Y-Axis	mm	4600	4600	4600	4600
	Z-Axis	mm	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway	——	X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram			
	Door Width	——	4600	4600	4600	4600
	Type of Ram	——	Square Ram (500x500)			
Worktable	Worktable Size(L*W)	mm	14000*3500	16000*3500	18000*3500	21000*3500
	Maximum Table Load	t	50	50	50	50
	T-Slot	no/mm	36*200	36*200	36*200	36*200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000
	Spindle Drive Type	——	DDS			
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6
Tool Changer	ATC	——	24T(Option: 40/60)			
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.07/0.035/0.02	0.08/0.035/0.02	0.09/0.035/0.02	0.10/0.035/0.02
	Repeatability	mm	0.055/0.025/0.015	0.065/0.025/0.015	0.075/0.025/0.015	0.085/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	23200×8130×5800	25200×8130×5800	27200×8130×5800	29200×8130×5800
	Gross Weight	t	138	148	158	173

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ Geared Box
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

YSMD55 Moving Column Series Parameters

Model			YSMD-10055	YSMD-12055	YSMD-14055	YSMD-16055	YSMD-18055	YSMD-21055
Subject	Specifications	Units						
Travel	X-Axis	mm	10000	12000	14000	16000	18000	21000
	Y-Axis	mm	5500	5500	5500	5500	5500	5500
	Z-Axis	mm	1500	1500	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram					
	Door Width		5500	5500	5500	5500	5500	5500
	Type of Ram		Square Ram (500x500)					
Worktable	Worktable Size(L*W)	mm	3500 × 10000	3500 × 12000	3500 × 14000	3500 × 14000	3500 × 14000	3500 × 14000
	Maximum Table Load	t	50	50	50	50	50	50
	T-Slot	no/mm	36 × 200	36 × 200	36 × 200	36 × 200	36 × 200	36 × 200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000	6000	6000
	Spindle Drive Type		DDS					
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6	6	6
Tool Changer	ATC		24T(Option: 40/60)					
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.055/0.035/0.02	0.06/0.035/0.02	0.07/0.035/0.02	0.08/0.035/0.02	0.09/0.035/0.02	0.10/0.035/0.02
	Repeatability	mm	0.04/0.025/0.015	0.045/0.025/0.015	0.055/0.025/0.01	0.065/0.025/0.015	0.075/0.025/0.015	0.085/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	19200 × 9030 × 5800	21200 × 9030 × 5800	27200 × 9030 × 5800	29200 × 9030 × 5800	31200 × 9030 × 5800	34200 × 5860 × 5800
	Gross Weight	t	128	138	148	158	168	183

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System

YSMD62 Moving Column Series Parameters

Model			YSMD-10062	YSMD-12062	YSMD-14062	YSMD-16062	YSMD-18062	YSMD-21062
Subject	Specifications	Units						
Travel	X-Axis	mm	10000	12000	14000	16000	18000	21000
	Y-Axis	mm	6200	6200	6200	6200	6200	6200
	Z-Axis	mm	1500	1500	1500	1500	1500	1500
	Spindle Nose to Worktable	mm	350-1850	350-1850	350-1850	350-1850	350-1850	350-1850
	Three-Axis Guideway		X/Y Heavy Load Roller Linear Guideway Z-Axis Square Ram					
	Door Width		6200	6200	6200	6200	6200	6200
	Type of Ram		Square Ram (500x500)					
Worktable	Worktable Size(L*W)	mm	3500 × 10000	3500 × 12000	3500 × 14000	3500 × 14000	3500 × 14000	3500 × 14000
	Maximum Table Load	t	50	50	50	50	50	50
	T-Slot	no/mm	36 × 200	36 × 200	36 × 200	36 × 200	36 × 200	36 × 200
Spindle	Spindle Type	type	BBT-50	BBT-50	BBT-50	BBT-50	BBT-50	BBT-50
	Spindle R.P.M.	rpm	6000	6000	6000	6000	6000	6000
	Spindle Drive Type		DDS					
Feedrate	Rapid Traverse (X/Y/Z)	m/min	6/8/8	6/8/8	6/8/8	6/8/8	6/8/8	6/8/8
	Cutting Feedrate (X/Y/Z)	m/min	6	6	6	6	6	6
Tool Changer	ATC		24T(Option: 40/60)					
Motor	Spindle Motor	KW	17-42	17-42	17-42	17-42	17-42	17-42
	Three-Axis Servo Motor	KW	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2	5.2/5.2/5.2
Accuracy	Accuracy	mm	0.055/0.035/0.02	0.06/0.035/0.02	0.07/0.035/0.02	0.08/0.035/0.02	0.09/0.035/0.02	0.10/0.035/0.02
	Repeatability	mm	0.04/0.025/0.015	0.045/0.025/0.015	0.055/0.025/0.01	0.065/0.025/0.015	0.075/0.025/0.015	0.085/0.025/0.015
Power Required	Power Requirement	kva	60	60	60	60	60	60
	Air Pressure Requirement	kg/cm ²	6*8	6*8	6*8	6*8	6*8	6*8
Others	External Dimensions (L*W*H)	mm	19000 × 9730 × 5800	21200 × 9730 × 5800	23200 × 9730 × 5800	25200 × 9730 × 5800	27200 × 9730 × 5800	29200 × 9730 × 5800
	Gross Weight	t	138	148	158	168	188	193

Standard Accessories

- ★ Spindle Coolant System
- ★ Automatic Lubricating System
- ★ Semi-Enclosed Guard
- ★ Rigid Tapping
- ★ Heat Exchange for Electric Cabinet
- ★ Dual-Screw Type Chip Conveyor
- ★ Dual LED Work Light
- ★ LED 3 Color Warning Light
- ★ Chain Type Chip Conveyor and Cart
- ★ Geared Box
- ★ Leveling Bolts and Pads
- ★ M30 Auto Off

Options

- ★ Optical Linear Scale
- ★ CTS
- ★ 20T/40T/60T ATC
- ★ Workpieces Probe
- ★ Chip Conveyor System
- ★ Rotary Table
- ★ Oil Mist System
- ★ Oil Skimmer
- ★ Manual/Semi-Auto 90° Milling Head
- ★ Auto Parts Probe Measuring System