

VS

Series

四軌重切削型加工中心機

Four-track Heavy Duty Machining Center



Features of VS series machines

- It is specially designed for heavy-duty cutting. All series of models can be equipped with a two-stage spur gearbox structure to meet the needs of heavy-duty cutting.
- The unique ultra-wide base with uniform distribution of mechanics improves the most stable support capacity of the workbench in the whole stroke.
- The whole series is equipped with Y-axis four-track design, and the workbench does not hang, so as to ensure the dynamic accuracy of the machine.
- The super-large span design of the joint surface between the base and the column ensures the stability of the machine during processing.
- The thickened design of the column and the horizontal high-strength five-layer casting structure can strengthen the rigidity of the structure and provide an excellent anti-seismic effect.



Mechanical Specification Sheet

MODEL	Unit	Grm-1370VS	Grm-1580VS	Grm-1690VS	Grm-1890VS	Grm-2190VS
WORK TABLE						
Table size	mm	1400x700	1600x800	1750x900	1900x900	2250x900
Max. loading	kg	1500	1700	1800	2000	2200
T-slot (no. x size x pitch)	mm	18x125x5	18x125x5	22x150x5		
AXIS TRAVEL						
X-axis Travel	mm	1300	1500	1600	1800	2100
Y-axis Travel	mm	700	800	900		
Z-axis Travel	mm	700	750	700		
Spindle nose to work table surface	mm	150 - 850	120 - 870	160 - 880		
Spindle center to column front	mm	700	820	920		
SPINDLE						
Max. Spindle speed *	rpm	6000	6000	6000		
Spindl motor (S2 30min/S1 cont.) *	kW	15 / 18.5	15 / 18.5	15 / 18.5		
Spindle Torque (S2 30min/S1 cont.) *	Nm	71.6 / 118	71.6 / 118	143 / 236		
Spindle Taper *		BT50	BT50	BT50		
Spindle Type		Belt-Type (direct-type + Gear Box Type are Optional)				
FEED						
X-axis Rapid feed rate	m/min	20	20	20		
Y-axis Rapid feed rate	m/min	20	20	20		
Z-axis Rapid feed rate	m/min	20	20	20		
Cutting Feed Speed	mm/min	15000	15000	12000		
ATC SYSTEM						
Tool shank	set	24	24	24	24	24
Max. tool diameter (with adj. tool)	mm	112	112	112	112	112
Max. tool diameter (w/o adj. tool)	mm	200	200	200	200	200
Max. tool length	mm	350	350	350	350	350
Max. tool weight	kg	18	18	18	18	18
Tool Change Time (Tool to Tool)	sec	5	5	5	5	5
ACCURACY (VDI 3441, JISB6338)						
Positioning Accuracy	mm	P0.012 (±0.005/300)		P0.015 (±0.005/300)		
Repeatability	mm	Ps0.01 (±0.003)		Ps0.012 (±0.003)		
OTHERS						
Power required	Kva	30	30	30		
Minimum Air Pressure Requirement	kg/cm ²	6	6	6		
Cutting Fluid Capacity	liter	350	350	400		
Machine Footprint (Length x Width)	mm(Ca.)	4600x2800	5000x2900	5300x3400	5800x3400	6200x3400
Machine Height	mm(Ca.)	3050	3050	3350	3350	3350
Machine Weight	kg(Ca.)	10600	12000	15000	16500	17500

* indicates optional items; please call for specific configuration

Note 1: The machine footprint in the table includes the dimensions of the standard configuration chip conveyor.

Note 2: Our company reserves the right to change the catalog content and text at any time due to technical requirements.



Standard Configuration

- Mitsubishi M80B System
- Tool Magazine
- Fully Enclosed Cover
- Work Light
- Tri-color Operation Indicator Light
- Coolant System
- Spindle Air Blower
- Automatic Lubrication System
- Electrical Cabinet Heat Exchanger
- Spindle Air Curtain Dust Protection Device
- Cleaning Air Gun
- Cleaning Water Gun
- Leveling Screws and Pads
- 2G Memory Card
- Operation and Maintenance Manual
- Tool Box

Optional Configuration

- FANUC / Siemens System
- Electrical Cabinet Air Conditioner
- Spindle Central Water Outlet and Cooling Device
- Built-in Electric Spindle
16000/20000/24000 rpm
- Direct Drive Spindle 15000 rpm
- Complete Set Fourth Axis Rotary Table
- Hinged Belt Chip Conveyor
- Oil Mist Collector
- Oil-Water Separator
- Rear Flushing Device
- Automatic Tool Length Measurement
- Automatic Door Device
- Tool Magazine
- Built-in Air Tank