

VMC0656E

PARTNER FOR YOUR METAL-CUTTING SOLUTION



GUARANTEED QUALITY



Our mission is to provide machine tools of the highest quality at economical prices. To achieve this, we have taken a series of quality and cost control measures. In order to ensure our quality, we strictly manufacture our machines in accordance with the related ISO standards and make use of advanced production and inspection equipment. In addition, our partnerships with well-known companies further guarantee and improve the performance of our machine tools. Moreover, we employ competent staff and offer them ongoing training, which helps improve our productivity and reduces our production costs.

As an international machine tool supplier we deliver our machine tools to customers worldwide. Capitalizing on its deep international resources, SYMG is establishing a tripartite product development system: R&D core technology and styling in Shanghai and Beijing, design engineering in Germany, and manufacturing in Shenyang.

Through this advanced arrangement SYMG's new generation of products will very shortly sweep across the globe with their never-before-seen combination of German engineering excellent and Chinese manufacturing efficiency.



HIGH EFFECTIVENESS

The VMC-e series door-type 5-axis machining center was independently developed by SMTCL in view of the die and mold industry. This series is used for machining cavity dies, die molds, cast molds, press-through dies, stamping dies, etc. It is also suitable for machining thin-walled, shell-shaped and frame-shaped parts with high efficiency.

The gantry or portal frame structure is superior to the conventional C-frame construction, providing higher rigidity, better thermal stability and higher retention of accuracy. The Y-axis incorporates double ball-screws which reduces vibration during operation.

The box-in-box structure of the frame provides high rigidity and faster machine axis reponse time. The regular-hexagon honeycomb rib grid system under the column guideway increases torsional rigidity and reduces shrinkage stress during casting thereby increasing the machine performance. There is a fine oil lubrication system for the cutting tool which reduces waste and preserves tool life while providing exceptional cooling performance. The machines can also be equipped with an oil-fog absorption device, tool measuring device and various CNC systems.

Machine type	Unit	VMC0656e
Trunnion table		
Table diameter	mm	Ø 400
Swivel range	Degree	± 115
Rotation range	Degree	n x 360
Swing speed A-axis	rpm	16.6
Rotation speed C-axis	rpm	33.3
Swing/Rotation accuracy	"	±5/±5
Max. table load	kg	250
Travel		
X-axis travel	mm	600
Y-axis travel	mm	560
Z-axis travel	mm	450
Accuracy		
Positioning accuracy X/Y/Z-axis	mm	0.01
Repeat accuracy X/Y/Z-axis	mm	0.006
Work spindle		
Type		Motor spindle
Max. speed	rpm	18,000
Drive power 100%/40% DC	kw	25/35
Max. torque 100%/40% DC	Nm	87/130
Spindle taper		HSK-A63
Tool magazine		
Number of tools	pcs	12
Tool diameter (full/adjacent stations empty)	mm	75/120
Max. tool length	mm	250
Max. tool weight	kg	7
Tool changing time	s	4 - 6
Control		
Fiyang		C0
Heidenhain		iTNC 530
Siemens		840D

Subject to modification



Please visit our website for further information

EN.SMTCL.COM

OUR SMTCL KEY PRODUCT LINE-UP



VMC



VTC



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