

**SVMM13150****Features**

Machines meet the essential safety requirements of the following European Community New and Global Approach Directives:

- Machinery Directive 2006/42/EC;
- Low Voltage Directive 2006/95/EC;
- EMC Directive 2004/1108/EC.

Main units are produced from grey iron CQ25 (GG-25 / GJL-250) and have optimal expedient form and high rigidity, allowing maximal table loading up to 1,5 tons.

Wide cross and vertical guide ways have turcite coating with good antifriction properties (low friction constant) and anticoring ability, providing stability of accuracy parameters within many years. Minimal guide ways hardness is 52 HRC.

Availability of automatic machining cycles widens technological possibilities of the machines and allows their using both in small-batch and mass serial production. According to the customer's request machines can be equipped with the digital readouts.

Availability of knee lowering device eliminates possibility of contact between tool and machined surface during rapid reverse travel.

Availability of following feed device in the longitudinal coordinate ensures rigidity and absence of vibration. Following feed milling allows more effective machining of deep grooves and parts from high strength materials. Elimination of backlash between feed screw and split nut in the longitudinal direction for following feed milling is ensured by the hydraulic device. Automatic enabling, of the following

feed device during feed travels and its disabling during rapid travels protect split nut of the feed screw from wear and tear.

Electrical equipment:

Machine is designed for work at 380 V / 50 Hz / 3 ph. but special version for work in the 'another electrical network can be made according to your request.

SKMM13150 equipped with relay-type control cabinet containing low voltage devices made by Siemens.

**Technical specifications**

Specifications:	SVMM13150
Table working surface, mm	450 x 1800
Number of clamping grooves	5
Table load, kg	1500
Longitudinal table motion, mm	1320
Table rotation, deg.	45
Cross slide rest motion, mm	345
Vertical knee motion, mm	630
Main drive power, kW	11
Maximal torque, Nm	1850
Tool taper	ISO 50
Main spindle speed range, rpm	28 ... 1400
Number of speeds	18
Common ratio	1.25
Vertical milling head	integrated
Vertical drive power, kW	11
Vertical spindle speed range, rpm	28 ... 1400
Number of feeds	18
Longitudinal and cross feeds, mm/min	16 ... 800
Vertical feeds, mm/min	5 ... 250
Feed drive power, kW	2.2
Rapid longitudinal and cross motion, mm/min	3150
Rapid vertical motion, mm/min	1000
Coolant feed speed, l/min	10
Total power consumption, kW	26

**Standard accessories**

1. - two milling arbors;
2. - one crank handle;
3. - one machine's lamp;
4. - one coolant tray;
5. - one set of plastic cams for cycle milling;
6. - Two guide ways covers.

### SVMM8055



#### Features

These models are suit for milling flat, inclined face, angle surface, slots by employing disc cutters, angular cutters, formed cutters and face metal milling cutters. When mounted with the index, the machine will be able to perform milling operations in gears, cutter, helix groove, cam and tub wheel. The longitudinal, cross and vertical movements of the table can both be operated by hand and power, and it can be rapid moved. Working table and slide ways adopted quality cast hardened ensure high accuracy.

#### Technical specifications

SPECIFICATIONS:	SVMM8055	SVMM1055
Table size	320 x 1320mm	320 x 1600mm
T slots (N x W x D)	3 x 18 x 80mm	3 x 18 x 80mm
Table load-bearing	550kg	550kg
Longitudinal travel(Manual/Power) X	800/780mm	1020/1000mm
Cross travel(Manual/Power) Y	300/280mm	300/280mm
Vertical travel(Manual/Power) Z	410/400mm	410/400mm
Max. rotary angle of table	±45°	±45°
Feed speed steps	18 steps	18 steps
Feed speed ranges: Longitudinal X	15~750mm/min	15~750mm/min
Cross Y	15~750mm/min	15~750mm/min
Vertical Z	5.7~280mm/min	5.7~280mm/min
Rapid feed ranges: Longitudinal X	2250mm/min	2250mm/min
Cross Y	2250mm/min	2250mm/min
Vertical Z	844mm/min	844mm/min
Distance from spindle center to arm	155mm	155mm
Distance between table center to vertical guide way	235~535mm	235~535mm
Arbor diameter	φ22 φ27 φ32mm	φ22 φ27 φ32mm
Min. distance from spindle center to table	40~450mm	40~450mm
Spindle hole taper	7:24 No:50	7:24 No:50
Diameter of spindle hole	φ29mm	φ29mm

**VERTICAL MILLING MACHINES**

Your partner for presentation of the needs

Spindle speed steps	18 steps	18 steps
Spindle speed ranges	30~1500r/min	30~1500r/min
Main motor power	7.5kw	7.5kw
Feed motor power	1.5kw	1.5kw
Cooling pump power	0.12kw	0.12kw
Overall size	2327 x 1792 x 1720mm	2327 x 2028 x 2096mm
Packing box size (Export)	2240 x 1790 x 1900mm	2220 x 2180 x 2200mm
Net weight	3300kg	3350kg
Voltage/Frequency	380V/50HZ	380V/50HZ



**SVMM 1280**

**SVMM 1580**

**Feature:**

These models are suit for milling flat, inclined face, angle surface, slots by employing disc cutters, angular cutters, formed cutters and face metal milling cutters. When mounted with the index, the machine will be able to perform milling operations in gears, cutter, helix groove, and cam and tub wheel. The longitudinal, cross and vertical movements of the table can both be operated by hand and power and it can be rapid moved. Working table and slide ways adopted quality cast hardened ensure high accuracy.

- The longitudinal, cross and vertical movements of the table can both be operated by hand and power and it can be rapid moved. It has the large working table, a set of cantilever for electric button and a longitudinal hand wheel in front of the table, so the machine can be easy to operate. Working table and slide ways adopted quality cast hardened ensure high accuracy.

**Technical specification:**

SPECIFICATIONS:	SVMM1280	SVMM1580
Table size	420 x 1800mm	420 x 2200mm
T slots (N x W x D)	3 x 18 x 90mm	
Table load-bearing	800kg	
Longitudinal travel(Manual/Power) X	1280/1250mm	1530/1500mm
Cross travel(Manual/Power) Y	370/350mm	
Vertical travel(Manual/Power) Z	470/450mm	
Max. rotary angle of table	±45°	
Spindle hole taper	7:24 No:50	
Diameter of spindle hole	φ29mm	
Arbor diameter	φ32 φ50mm	
Spindle speed steps	18 steps	

## VERTICAL MILLING MACHINES

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Distance between spindle center to arm	155mm
Distance between table center to vertical guide way	280~650mm
Min. distance from spindle center to table	40~510mm
Spindle speed ranges	30~1500r/min
Feed speed steps	18 steps
Power up the largest table	20
Feed speed ranges: Longitudinal X	22~1100mm/min
Cross Y	22~1100mm/min
Vertical Z	8.3~410mm/min
Rapid feed ranges: Longitudinal X	2400mm/min
Cross Y	2400mm/min
Vertical Z	900mm/min
Main motor power	11kw
Feed motor power	3kw
Overall size	2450 x 2040 x 2300mm
Net weight	5000kg
Voltage/Frequency	380V/50HZ

### Standard accessories:

1. Automatic vertical head feeding
2. Vertical and horizontal dual direction machining
3. X/Y/Z axis mechanical feeding driven by motor
4. X/Y/Z axis DRO
5. Integrated control panel
6. Coolant system
7. Lighting lamp
8. Chip plate
9. Operation manual
10. Foundation bolt

### Optional accessories

1. Manual dividing head 100mm/125mm/160mm/200mm
2. Machine vise 160mm/200mm/250mm/320mm



**SVMM8540**



**Technical specifications:**

	SVMM8540
Working Table	254X1270mm(305x1370mm opt.)
Working Table loading	350kgs
longitudinal Travel (X-axis)	850mm(900mm)
Cross Travel (Y-axis)	400mm
Knee Travel (Z-axis)	400mm
T-slots	3x16mm
Vertical milling	
Distance Between Spindle Nose to Table Surface	0-460mm
Distance From Spindle Center to Column	155-635mm
Spindle Motor	3HP(5HP ORLI)
Spindle Taper	R8(NT30/NT40 opt.)
Quill travel	127mm
Quill Feeds	0.04/0.08/0.15mm
Step Spindle Speeds (16 Steps)	50HZ: 66-4540rpm
	60HZ: 66-5440rpm
Variables Spindle Speeds(opt.)	50HZ: 80-3750rom
	60HZ: 80-4200~pm
Horizontal milling	
Spindle Motor	3kw
Spindle Speeds (12 Steps)	40-1300rpm
spindle Taper	NT40

**VERTICAL MILLING MACHINES**

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Vertical motor for Z-axis(opt.)	0.4kw
Overall Height(H)	2340mm
Overall Height(l)	1750mm
Overall Height(w)	1530mm
Over arm Swivel On Turret	360°
Head Tilt Front-to-back	-45°~0°~+45°
Head Tilt Left to Right	-90°~0°~+9°
Net Weight	1400kgs

**Standard accessories:**

V-type/Box/Box guide way for X/Y/Z axis Coolant  
Halogen lamp  
Oil collecting plate Manual lubrication  
XIV axes coated with Teflon-B X/Y/Z axes hardened and grounded X/Y T-type screw  
Machine vise 160mm  
Universal clamping set  
Collet chuck  
Y /Z axes cover Draw bar  
Tool box  
CE electrics

**Optional accessories:**

Variable 5 HP spindle  
Power feed for X-axis (Taiwan)  
Power feed for Y-axis (Taiwan)  
Gear box power feed(X/Y axis)  
X/Y/Z DRO  
Arm-type operation panel Spindle cover  
Z axis motor  
Automatic lubrication Table semi-cover  
X/Y axes ball screw from Taiwan Machine vise 200mm  
Air power draw bar  
Slotting head M 100mm /M125mm





### SVMM6035

#### Technical specifications:

	SVMM6035
Working Table	320X1250mm
Working Table Loading	350kgs
Longitudinal Travel (X-axis)	600mm
Cross Travel (Y-axis)	300mm
Knee Travel (Z-axis)	420mm
T-slots	3x14mm
<b>Vertical milling</b>	
Distance Between Spindle Nose to Table Surface	0-420mm
Distance From Spindle Center to Column	155-620mm
Spindle Motor	5HP
Spindle Taper	NT40
Quill travel	127mm
Quill Feeds	0.04/0.08/0.1Smm
Step Spindle Speeds (16 Steps)	50HZ: 66-4540rpm 60HZ: 66-5440rpm
Variable Spindle Speeds(opt.)	50HZ: 80-3750rpm 60HZ: 80-4200rpm
<b>Horizontal milling</b>	
Spindle Motor	2.2kw
Spindle Speeds (12 Steps)	40-1300rpm
Spindle Taper	NT40
Vertical motor for Z-axis	0.4kw
Overall Height (H)	2250mm
Overall Length (l)	1700mm
Overall Width (W)	1550mm
Over arm Swivel On Turret	3600
Head Tilt Left to Right	-90~00~+900
Net Weight	1450kgs

**Standard accessories:**

V-type/Box/Box guide way for X/Y/Z axis Gear box power feed  
Arm-type operation panel  
Z axis motor  
Coolant  
Halogen lamp  
Oil collecting plate Manual lubrication  
X/Y axes coated with Teflon-B  
X/Y IZ axes hardened and grounded X/Y T-type screw  
Machine vise 160mm  
Universal clamping set  
Collet chuck  
Y IZ axes cover Draw bar Toolbox

CE electrics

**Optional accessories:**

5 HP spindle (variable) X/Y/Z DRO  
Spindle covers Automatic lubrication Table semi-cover  
X/Y axes ball screw from Taiwan Machine vise 200mm  
Air power draw bar  
Slotting head M100mm/M 125mm



**SVM10040A**

**Technical specifications:**

	<b>SVM10040A</b>
<b>Working Table</b>	<b>330x1500mm</b>
<b>Working Table loading</b>	<b>600kgs</b>
<b>longitudinal Travel (X-axis)</b>	<b>1000mm</b>
<b>Cross Travel (Y-axis)</b>	<b>400mm</b>
<b>Knee Travel (Z-axis)</b>	<b>400mm</b>
<b>T-slots</b>	<b>3x18mm</b>
<b>Vertical milling</b>	
<b>Distance Between Spindle Nose to Table Surface</b>	<b>0-400mm</b>
<b>Distance From Spindle Center to Column</b>	<b>155-700mm</b>
<b>Spindle Motor</b>	<b>5HP</b>
<b>Spindle Taper</b>	<b>NT40</b>
<b>Quill travel</b>	<b>127mm</b>
<b>Quill Feeds</b>	<b>0.04/0.08/0.15mm</b>
<b>Step Spindle Speeds (16 Steps)</b>	<b>50HZ: 66-4540rpm</b> <b>60HZ: 66-5440rpm</b>
<b>Variable Spindle Speeds(opt.)</b>	<b>50HZ: 80-3750rpm</b> <b>60HZ: 80-4200rpm</b>
<b>Horizontal milling</b>	
<b>Spindle Motor</b>	<b>4kw</b>
<b>Spindle Speeds (12 Steps)</b>	<b>40-1300rpm</b>
<b>Spindle Taper</b>	<b>NT40</b>
<b>Vertical motor for Z-axis</b>	<b>0.4kw</b>
<b>Overall Height (H)</b>	<b>2250mm</b>
<b>Overall length (l)</b>	<b>2150mm</b>
<b>Overall Width (W)</b>	<b>1800mm</b>
<b>Head Tilt left to Right</b>	<b>-90°~0°~+90°</b>
<b>Net Weight</b>	<b>2200kgs</b>
<b>Packing Dimension</b>	<b>1700 x 1 900 x 2200mm</b>

**Standard accessories:**

V-type/Box/Box guide way for X/Y/Z axis x-axis servo power feed  
Y-axis gear Box power feed  
Arm-type operation panel  
Z axis motor  
Coolant  
Halogen lamp  
Oil collecting plate Manual lubrication  
XIV axes coated with Teflon-B  
XIV IZ axes hardened and grounded XIV axes ball screw from Taiwan Machine vise  
160mm  
Universal clamping set  
Collet chuck  
Y /Z axes cover Draw bar  
Tool box  
CE electrics

**Optional accessories:**

5 HP spindle (variable) X/Y/Z DRO  
Spindle covers Automatic lubrication Table semi-cover  
X/Y axes ball screw from Taiwan Machine vise 200mm  
Air power draw bar  
Slotting head M100mm/M 125mm

### SVMM10040



#### Technical specifications:

	SVMM10040
Working Table	360x1370mm
Working Table loading	800kgs
longitudinal Travel (X-axis)	1000mm
Cross Travel (Y-axis)	320mm
Knee Travel (Z-axis)	400mm
T-slots	3x18mm
<b>Vertical milling</b>	
Distance Between Spindle Nose to Table Surface	100-600mm
Distance From Spindle Center to Column	155-700mm
Spindle Motor	5HP(7.5HP opt.)
Spindle Taper	NT40
Quill travel	127mm
Quill Feeds	0.04/0.08/0.15mm
Step Spindle Speeds (16 Steps)	50HZ: 66-4540rpm 60HZ: 66-5440rpm
Variable Spindle Speeds(opt.)	50HZ: 80-3750rpm 60HZ: 80-4200rpm
<b>Horizontal milling</b>	
Spindle Motor	4kw
Spindle Speeds (12 Steps)	60-1800rpm
Spindle Taper	NT50
Vertical motor for Z-axis	0.4kw
Overall Height (H)	2360mm
Overall length (L)	2220mm
Overall Width (W)	1790mm
Over arm Swivel On Turret	360°
Head Tilt left to Right	-90°~0°~+90°

<b>Net Weight</b>	<b>2500kgs</b>
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**Standard accessories:**

V-type/Box/Box guide way for X/Y/Z axis x-axis servo power feed  
Y-axis gear Box power feed  
Arm-type operation panel  
Z axis motor  
Coolant  
Halogen lamp  
Oil collecting plate Manual lubrication  
XIV axes coated with Teflon-B  
XIV IZ axes hardened and grounded XIV axes ball screw from Taiwan Machine vise  
160mm  
Universal clamping set  
Collet chuck  
Y /Z axes cover Draw bar  
Tool box  
CE electrics

CE electrics

**Optional accessories:**

5 HP spindle (variable) X/Y/Z DRO  
Spindle covers Automatic lubrication Table semi-cover  
X/Y axes ball screw from Taiwan Machine vise 200mm  
Air power draw bar  
Slotting head M100mm/M 125mm



**SVMC900C**

**Technical specifications:**

	SVMC900C	SVMC130C
Working Table	320x1500mm	400x1700mm
Working Table Loading	500kgs	900kgs
Longitudinal Travel (x-axis)	900mm	1300mm
Cross Travel (Y-axis)	400mm	400mm
Knee Travel (Z-axis)	500mm	500mm
T-slots	3X14mm	3X18mm
Spindle motor	5HP	5HP (7.5HP opt.)
Quill travel	127mm	127mm
Quill Diameter	87.525mm	87.525mm
Distance Between Spindle Nose to Table Surface	100-580mm	100-600mm
Distance Between Spindle Center to Column	400mm	500mm
Spindle Taper	NT40	NT40
Quill Feeds	0.04/0.08/0.15mm	0.04/0.08/0.15mm
Step Spindle Speeds(16 Steps)	50HZ: 66-4540rpm	50HZ: 66-4540rpm
	60HZ: 66-5440rpm	60HZ: 66-5440rpm
Variable Spindle Speeds(opt.)	50HZ: 80-3750rpm	50HZ: 80-3750rpm
	60HZ: 80-4200rpm	60HZ: 80-4200rpm
Overall Height (H)	2350mm	2300mm
Overall Length (L)	2100mm	2600mm
Overall Width (W)	1900mm	2200mm
Net Weight	2200kgs	3800kgs
Packing Dimensions	2100x2100x2500mm	2300x2150x2500mm

**Standard accessories:**

V-type/Box/Box guide way for X/VIZ axis

Siemens808D

X/VIZ axis servo motor(1.6kw/1.6kw/2.3kw)BM320CNC

X/VIZ axis servo motor(2.3kw/2.3kw/2.3kw)BM400CNC Coolant

Halogen lamp

Oil collecting plate Auto lubrication

X/V axes coated with Teflon- B

X/V /Z axes hardened and grounded

X/V ball screw from Taiwan (dia.32mm, pitch 5mm) Y /Z axes cover

Spindle cover

Draw bar

Toolbox

CE electrics

**Optional accessories:**

5HP variable milling head

7.5HP 16 steps spindle (SVMC130C)

Air power draw bar