



CE

**VERTICAL MACHINING CENTER**

## Linear Guideway Series

### SHV-550A

X axis 550mm  
Y axis 400mm  
Z axis 460mm



### SHV-550

X axis 550mm  
Y axis 400mm  
Z axis 460mm



### SHV-1800

X axis 1800mm  
Y axis 900mm  
Z axis 750mm  
(1000mm opt.)

### SHV-2000

X axis 2000mm  
Y axis 900mm  
Z axis 750mm  
(1000mm opt.)



### SHV-710

X axis 710mm  
Y axis 460mm  
Z axis 580mm



### SHV-800

X axis 800mm  
Y axis 500mm  
Z axis 580mm

### SHV-850

X axis 850mm  
Y axis 550mm  
Z axis 580mm



### SHV-1020

X axis 1020mm  
Y axis 550mm  
Z axis 580mm

## Box Way Series

### SMV-1100

X axis 1100mm  
Y axis 600mm  
Z axis 600mm



### SMV-1200A

X axis 1200mm  
Y axis 650mm  
Z axis 600mm  
(800mm opt.)



### SHV-1100

X axis 1100mm  
Y axis 650mm  
Z axis 610mm  
(810mm opt.)



### SHV-1200

X axis 1200mm  
Y axis 650mm  
Z axis 610mm  
(810mm opt.)

### SHV-1300

X axis 1300mm  
Y axis 750mm  
Z axis 700mm

### SHV-1500

X axis 1500mm  
Y axis 750mm  
Z axis 700mm

### SHV-1600

X axis 1600mm  
Y axis 750mm  
Z axis 700mm



### SMV-1400

X axis 1400mm  
Y axis 720mm  
Z axis 610mm  
(700mm opt.)



### SMV-1600

X axis 1600mm  
Y axis 850mm  
Z axis 750mm

### SMV-1800

X axis 1800mm  
Y axis 850mm  
Z axis 750mm



## Linear Guideway Series

### SHV-550A

X axis 550mm / Y axis 400mm / Z axis 460mm



### SHV-550

X axis 550mm / Y axis 400mm / Z axis 460mm



## Specifications

MODEL	UNIT	SHV-550A	SHV-550
3- Axes travel		Linear Guideway Series	Linear Guideway Series
X axis travel	mm	550	550
Y axis travel	mm	400	400
Z axis travel	mm	460	460
Distance from spindle nose to table surface	mm	120-580	120-580
TABLE		Auto Pallet Changer	
Table area	mm	600 x 400	650 x 410
Max. load table	kgs	200 x 2	250
T-slot	mm	3 x 14 x 100	3 x 14 x 100
Pallet changing time	sec	12	—
Pallet exchange method		180 °changing (rotary)	—
SPINDLE			
Spindle taper	type	BT-40	BT-40
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	5.5 / 7.5	5.5 / 7.5
Spindle cooling	type	oil cooler	oil cooler
FEED RATE			
Rapid traverse (X, Y,Z)	m/min	36 / 36 / 36	36 / 36 / 36
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	1.2 / 1.2 / 3.0	1.2 / 1.2 / 3.0
X, Y, Z axis servo motor (MITSUBISHI)	kw	1.5 / 1.5 / 2	1.5 / 1.5 / 2
ATC			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	200	200
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
OTHER			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	3000 x 3110 x 2740	1860 x 2450 x 2600
Machine weight	kgs	4800	3400

Design and specifications are subject to change without prior notice.

## Linear Guideway Series

### SHV-710

X axis 710mm / Y axis 460mm / Z axis 580mm



### SHV-800

X axis 800mm / Y axis 500mm / Z axis 580mm



## Specifications

MODEL	UNIT	SHV-710	SHV-800
3- Axes travel		Linear Guideway Series	
X axis travel	mm	710	800
Y axis travel	mm	460	500
Z axis travel	mm	580	580
Distance from spindle nose to table surface	mm	120-700	120-700
TABLE			
Table area	mm	760 x 420	900 x 500
Max. load table	kgs	450	500
T-slot	mm	3 x 14 x 126	5 x 18 x 100
SPINDLE			
Spindle taper	type	BT-40	BT-40
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	5.5 / 7.5	5.5 / 7.5
Spindle cooling	type	oil cooler	oil cooler
FEED RATE			
Rapid traverse (X, Y, Z)	m/min	30 / 30 / 24	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	1.2 / 1.8 / 3.0	1.2 / 1.8 / 3.0
X, Y, Z axis servo motor (MITSUBISHI)	kw	1.5 / 1.5 / 2	1.5 / 1.5 / 2
ATC			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	250	250
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
OTHER			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	2400 x 2600 x 2800	2400 x 2600 x 2800
Machine weight	kgs	4300	4500

Design and specifications are subject to change without prior notice.

## Linear Guideway Series

### SHV-850

X axis 850mm / Y axis 550mm / Z axis 580mm



### SHV-1020

X axis 1020mm / Y axis 550mm / Z axis 580mm



Ball type (std.)



Roller type (opt.)

## Specifications

MODEL	UNIT	SHV-850	SHV-1020
3- Axes travel		Linear Guideway Series	Linear Guideway Series
X axis travel	mm	850	1020
Y axis travel	mm	550	550
Z axis travel	mm	580	580
Distance from spindle nose to table surface	mm	120-700	120-700
TABLE			
Table area	mm	1020 x 550	1190 x 550
Max. load table	kgs	600	800
T-slot	mm	4 x 18 x 125	4 x 18 x 125
SPINDLE			
Spindle taper	type	BT-40	BT-40
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	7.5 / 11	7.5 / 11
Spindle cooling	type	oil cooler	oil cooler
FEED RATE			
Rapid traverse (X, Y, Z)	m/min	30 / 30 / 24	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	1.8 / 1.8 / 3.0	1.8 / 1.8 / 3.0
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
ATC			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	250	250
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
OTHER			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	3450 x 2650 x 2850	3450 x 2650 x 2850
Machine weight	kgs	6500	6800

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## Linear Guideway Series

### SHV-1100

X axis 1100mm / Y axis 650mm /  
Z axis 610mm (810mm opt.)



### SHV-1200

X axis 1200mm / Y axis 650mm /  
Z axis 610mm (810mm opt.)



## Specifications

MODEL	UNIT	SHV-1100	SHV-1200
3- Axes travel		Linear Guideway Series	
X axis travel	mm	1100	1200
Y axis travel	mm	650	650
Z axis travel	mm	610	810(BT40) - opt. / 720(BT50) - opt.
Distance from spindle nose to table surface	mm	120-730	120-930 / 150-870
<b>TABLE</b>			
Table area	mm	1250 x 630	1350 x 630
Max. load table	kgs	800	800
T-slot	mm	5 x 18 x 100	5 x 18 x 100
<b>SPINDLE</b>			
Spindle taper	type	BT-40 (BT-50 opt.)	BT-40 (BT-50 opt.)
Belt type	rpm	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	7.5 / 11	7.5 / 11
Spindle cooling	type	oil cooler	oil cooler
<b>FEED RATE</b>			
Rapid traverse (X, Y, Z)	m/min	30 / 30 / 24	30 / 30 / 24
Cutting feed rate	mm/min	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	3 / 3 / 3	3 / 3 / 3
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
<b>ATC</b>			
Magazine type	type	Arm	Arm
Tool magazine capacity	pcs	24	24
Max. tool diameter	mm	75 / 150	75 / 150
Max. tool length	mm	250	250
Max. tool weight	kgs	7	7
Tool selection	type	Random	Random
<b>OTHER</b>			
Power consumption	KVA	20	20
Floor space (L x W x H)	mm	3720 x 2600 x 2950	3720 x 2600 x 2950
Machine weight	kgs	7300	7800

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## Linear Guideway Series

### SHV-1300

X axis 1300mm / Y axis 750mm / Z axis 700mm

### SHV-1500

X axis 1500mm / Y axis 750mm / Z axis 700mm



Rear Chip Conveyor



### SHV-1600

X axis 1600mm / Y axis 750mm / Z axis 700mm



## Specifications

MODEL	UNIT	SHV-1300	SHV-1500	SHV-1600
3- Axes travel		Linear Guideway Series Linear Guideway Series Linear Guideway Series		
X axis travel	mm	1300	1500	1600
Y axis travel	mm	750	750	750
Z axis travel	mm	700	700	700
Distance from spindle nose to table surface	mm	150-850	150-850	100-800
<b>TABLE</b>				
Table area	mm	1300 x 750	1500 x 750	1650 x 750
Max. load table	kgs	1000	1000	1200
T-slot	mm	5 x 18 x 150	5 x 18 x 150	5 x 18 x 150
<b>SPINDLE</b>				
Spindle taper	type	BT-40	BT-40	BT-40
Belt type	rpm	10000	10000	10000
Direct drive - opt.	rpm	10000 / 12000 / 15000	10000 / 12000 / 15000	10000 / 12000 / 15000
Spindle motor	kw	11 / 15	11 / 15	11 / 15
Spindle cooling	type	oil cooler	oil cooler	oil cooler
<b>FEED RATE</b>				
Rapid traverse (X, Y, Z)	m/min	24 / 24 / 24	24 / 24 / 24	24 / 24 / 24
Cutting feed rate	mm/min	1-15000	1-15000	1-15000
X, Y, Z axis servo motor (FANUC)	kw	4 / 4 / 7	4 / 4 / 7	4 / 4 / 7
X, Y, Z axis servo motor (MITSUBISHI)	kw	4.5 / 4.5 / 7	4.5 / 4.5 / 7	4.5 / 4.5 / 7
<b>ATC</b>				
Magazine type	type	Arm	Arm	Arm
Tool magazine capacity	pcs	24	24	24
Max. tool diameter	mm	75 / 150	75 / 150	75 / 150
Max. tool length	mm	300	300	300
Max. tool weight	kgs	7	7	7
Tool selection	type	Random	Random	Random
<b>OTHER</b>				
Power consumption	KVA	30 (40 opt.)	30 (40 opt.)	30 (40 opt.)
Floor space (L x W x H)	mm	4000 x 3740 x 2900	4000 x 3740 x 2900	4000 x 3740 x 2900
Machine weight	kgs	9000	10000	11000

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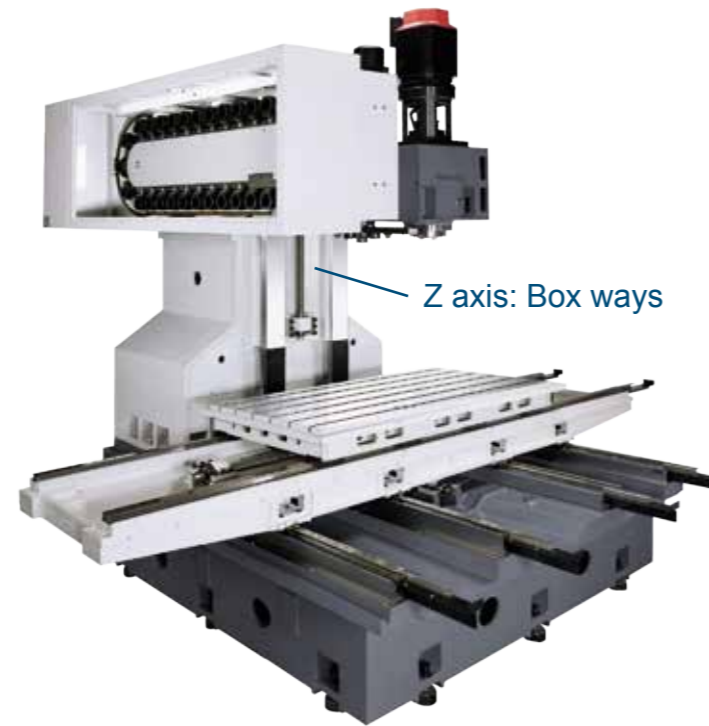
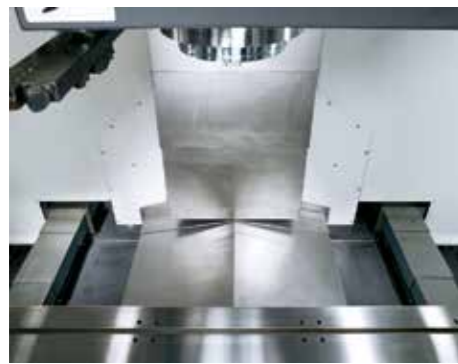
## Linear Guideway Series

### SHV-1800

X axis 1800mm / Y axis 900mm /  
Z axis 750mm (1000mm opt.)

### SHV-2000

X axis 2000mm / Y axis 900mm /  
Z axis 750mm (1000mm opt.)



## Specifications

MODEL	UNIT	SHV-1800	SHV-2000		
3-Axes travel		Linear Guideway (X/Y) + Box Way (Z)			
X axis travel	mm	1800	2000		
Y axis travel	mm	900	900		
Z axis travel	mm	750 (1000 opt.)	750 (1000 opt.)		
Distance from spindle nose to table surface	mm	150-900 (150-1150 opt.)	150-900 (150-1150 opt.)		
Spindle center to column surface	mm	950	950		
<b>TABLE</b>					
Table area	mm	1850 x 900	2050 x 900		
Max. load	kgs	2500	3000		
T-slot	mm	6 x 18 x 145	6 x 18 x 145		
<b>SPINDLE</b>					
Spindle speed	type	BT-50	BT-50		
Spindle taper	rpm	6000	6000		
<b>FEED RATE</b>					
Rapid traverse (X/Y/Z)	m/min	24 / 24 / 15	24 / 24 / 15		
Cutting feed rate	mm/min	1-10000	1-10000		
<b>ATC</b>					
Magazine type	type	Arm	Chain type (opt.)	Arm	Chain type (opt.)
Tool magazine capacity	pcs	24	32	24	32
Max. tool diameter	mm	110/220	125/250	110/220	125/250
Max. tool length	mm	300	300	300	300
Max. tool weight	kgs	15	15	15	15
Tool selection	type	Random		Random	
<b>MOTOR</b>					
Spindle motor	kw	11 / 15		15 / 18.5	
X/Y/Z axis motor	kw	7 / 7 / 7		7 / 7 / 7	
<b>BALL SCREW</b>					
Diameter of X,Y,Z axis	mm	50		50	
Pitch of X,Y,Z axis	mm	10		10	
<b>GUIDEWAYS</b>					
Width of linear guideways (X,Y)	mm	45 (8 blocks for each axis)		45 (8 blocks for each axis)	
Width of box ways (Z)	mm	140 (55 thickness)		140 (55 thickness)	
<b>OTHER</b>					
Machine Dia (LxWxH)	mm	5800 x 4000 x 3650		5800 x 4000 x 3650	
Machine weight	kgs	17500		18500	

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## Box Way Series

### SMV-1100

X axis 1100mm / Y axis 600mm / Z axis 600mm

### SMV-1200A

X axis 1200mm / Y axis 650mm / Z axis 600mm



### SMV-1400

X axis 1400mm / Y axis 720mm / Z axis 610mm



## Specifications

MODEL	UNIT	SMV-1100	SMV-1200A	SMV-1400
3- Axes travel		Box Way	Box Way	Box Way
X axis travel	mm	1100	1200	1400
Y axis travel	mm	600	650	720
Z axis travel	mm	600(120-720*)	600(120-720*)	610(150-760*)
Z axis travel (BT40) - opt.	mm	-	800(120-920*)	700(150-850*)
Z axis travel (BT50 belt type) -opt.	mm	-	720(150-870*)	680(170-850*)
Z axis travel (BT50 gear head) -opt.	mm	-	600(120-720*)	680(170-850*)
<b>TABLE</b>				
Table area	mm	1250 x 650	1350 x 650	1550 x 700
Max. load table	kgs	880	1000	2000
T-slot	mm	5 x 18 x 125	5 x 18 x 125	5 x 18 x 130
<b>SPINDLE</b>				
Spindle taper	type	BT-40	BT-40 (BT-50 opt.)	BT-40 (BT-50 opt.)
Spindle speed	rpm	10000	10000	10000
Spindle drive	rpm	Belt	Belt (Gear head opt.)	Belt (Gear head opt.)
Spindle motor	kw	7.5 / 11	7.5 / 11	11 / 15
Spindle cooling	type	oil cooler	oil cooler	oil cooler
<b>FEED RATE</b>				
Rapid traverse (X, Y, Z)	m/min	18 / 18 / 15	18 / 18 / 15	18 / 18 / 15
Cutting feed rate	mm/min	1-10000	1-10000	1-10000
X, Y, Z axis servo motor (FANUC)	kw	2.5 / 2.5 / 2.5	2.5 / 2.5 / 2.5	3 / 3 / 3
X, Y, Z axis servo motor (MITSUBISHI)	kw	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
<b>ATC</b>				
Magazine type	type	Arm	Arm	Arm
Tool magazine capacity	pcs	24	24	24
Max. tool diameter	mm	75 / 150	75 / 150	75 / 150
Max. tool length	mm	300	300	300
Max. tool weight	kgs	7	7	7
Tool selection	type	Random	Random	Random
<b>OTHER</b>				
Power consumption	KVA	20	20	30
Floor space (L x W x H)	mm	3430 x 2560 x 2870	3550 x 2570 x 2950	4150 x 3650 x 3050
Machine weight	kgs	7500	8200	11000

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“\*” - Distance from spindle nose to table surface



## SMV-1600

X axis 1600mm / Y axis 850mm / Z axis 750mm

## SMV-1800

X axis 1800mm / Y axis 850mm / Z axis 750mm



## Specifications

MODEL	UNIT	SMV-1600		SMV-1800	
3- Axes travel		Box Way		Box Way	
X axis travel	mm	1600		1800	
Y axis travel	mm	850		850	
Z axis travel	mm	750		750	
Distance from spindle nose to table surface	mm	150-900		150-900	
Spindle center to column surface	mm	950		950	
<b>TABLE</b>					
Table area	mm	1800 x 850		2000 x 850	
Max. load table	kgs	2000		2500	
T-slot	mm	5 x 18 x 150		5 x 18 x 150	
<b>SPINDLE</b>					
Spindle taper	type	BT-50		BT-50	
Spindle speed	rpm	6000		6000	
Spindle drive	type	Belt	Gear head (opt.)	Belt	Gear head (opt.)
Spindle motor	kw	15 / 18.5		15 / 18.5	
Spindle cooling	type	oil cooler		oil cooler	
<b>FEED RATE</b>					
Rapid traverse (X, Y, Z)	m/min	18 / 18 / 15		18 / 18 / 15	
Cutting feed rate	mm/min	1-10000		1-10000	
Ballscrew	mm	Ø50 / 10		Ø50 / 10	
X, Y, Z axis servo motor	kw	7 / 7 / 7		7 / 7 / 7	
<b>ATC</b>					
Magazine type	type	Arm	Chain type (opt.)	Arm	Chain type (opt.)
Tool magazine capacity	pcs	24	32	24	32
Max. tool diameter	mm	110 / 220	125 / 250	110 / 220	125 / 250
Max. tool length	mm	300	300	300	300
Max. tool weight	kgs	15	15	15	15
Tool selection	type	Random		Random	
<b>OTHER</b>					
Power consumption	KVA	40		40	
Floor space (L x W x H)	mm	4520 x 3510 x 3350		4920 x 3510 x 3350	
Machine weight	kgs	14000		16000	

Design and specifications are subject to change without prior notice.

# Standard and Optional Accessories

## SHV-550A / SHV-550 / SHV-710 / SHV-800

### Standard Accessories

- Full splash guard
- Belt type spindle speed 10000 rpm, BT40
- Spindle motor 5.5 / 7.5kw
- Arm type ATC 24 tools, BT40
- Auto pallet exchanger (SHV-550A)
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Drawer type chip coolant tank (SHV-550)
- Screw type chip conveyor +chip cart (SHV-710/800)
- Chain type chip conveyor +chip cart (SHV-550A)

### Optional Accessories

- Transformer
- CE Mark
- Armless type ATC 20 tools (SHV-710/800)
- Belt type spindle speed 12000 rpm
- Direct drive spindle speed 10000/12000/15000 rpm
- Built-in type spindle speed 24000/30000/36000 rpm
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Screw type chip conveyor + chip cart
- Chain type chip conveyor + chip cart
- Roller type linear guideway

## SHV-850 / SHV-1020 / SHV-1100 / SHV-1200

### Standard Accessories

- Full splash guard
- Belt type spindle speed 10000 rpm, BT40
- Spindle motor 7.5 / 11kw
- Arm type ATC 24 tools, BT40
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

### Optional Accessories

- Transformer
- CE Mark
- Arm type ATC 30 tools, BT40
- Spindle motor 11 / 15kw
- Spindle motor 15 / 18.5kw
- Belt type spindle speed 12000 rpm
- Direct drive spindle speed 10000/12000/15000 rpm
- Built-in type spindle speed 16000/20000/24000/36000 rpm
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Chain type chip conveyor + chip cart
- 4th axis rotary table
- Gear box
- Roller type linear guideway

## SHV-1300 / SHV-1500 / SHV-1600

### Standard Accessories

- Full splash guard
- Belt type spindle speed 10000 rpm, BT40
- Spindle motor 11 / 15kw
- Arm type ATC 24 tools, BT40
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

### Optional Accessories

- Transformer
- CE Mark
- Arm type ATC 30 tools, BT40
- Spindle motor 15 / 18.5kw
- Belt type spindle speed 6000 / 8000 rpm, BT50
- Direct drive spindle speed 10000/12000/15000 rpm, BT40
- Built-in type spindle speed 16000/20000/24000/30000 rpm
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Chain type chip conveyor + chip cart
- 4th axis rotary table
- Gear box
- Roller type linear guideway

## SHV-1800 / SHV-2000

### Standard Accessories

- Full splash guard
- Roller type linear guideway for X,Y axes
- Box way for Z axis
- Belt type spindle speed 6000 rpm, BT50
- Spindle motor 11 / 15kw (SHV-1800)
- Spindle motor 15 / 18.5kw (SHV-2000)
- Arm type ATC 24 tools, BT50
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

### Optional Accessories

- Transformer
- CE Mark
- Chain type ATC 32/40 tools, BT50
- Spindle motor 15 / 18.5kw
- Spindle motor 18.5 / 22kw
- Belt type spindle speed 8000 rpm, BT50
- Direct drive spindle speed 10000 rpm, BT50
- Rear coolant flushing device
- Oil skimmer
- Coolant through spindle (With sealed splash guard)
- Chain type chip conveyor + chip cart
- 4th axis rotary table
- CNC Tilting and rotary table
- Z axis travel 1000 mm
- Spindle speed 8000 rpm, BT40 + Arm type ATC 24, BT40

## SMV-1100 / SMV-1200A / SMV-1400 / SMV-1600 / SMV-1800

### Standard Accessories

- Full splash guard
- Belt type spindle speed 10000 rpm, BT40 (SMV-1100-1400)
- Belt type spindle speed 6000 rpm, BT50 (SMV-1600/1800)
- Spindle motor 7.5 / 11kw (SMV-1100/1200A)
- Spindle motor 11 / 15kw (SMV-1400)
- Spindle motor 15 / 18.5kw (SMV-1600/1800)
- Arm type ATC 24 tools, BT40 (SMV-1100-1400)
- Arm type ATC 24 tools, BT50 (SMV-1600/1800)

- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger
- Telescopic covers for 3 axes
- Work lamp
- Three-color call light
- Tool box
- Coolant gun
- Screw type chip conveyor

### Optional Accessories

- Transformer
- CE Mark
- Arm type ATC 30 tools, BT40 or BT50
- Spindle motor 11 / 15kw (SMV-1100/1200A)
- Spindle motor 15 / 18.5kw (SMV-1400)
- Belt type spindle speed 6000 / 8000 rpm, BT50
- Spindle motor 15 / 18.5kw (SMV-1600/1800)
- Arm type ATC 24 tools, BT40 (SMV-1100-1400)

- Arm type ATC 24 tools, BT50 (SMV-1600/1800)
- Rigid tapping
- Cooling system
- Auto lubrication system
- Spindle oil cooler unit
- Heat exchanger



**SELICA**  
**INTERNATIONAL CO.,LTD**

No. 48-26, Xilin Ln., Xitun Dist., Taichung City 407, Taiwan

TEL : +886-4-24630182 FAX : +886-4-24638910

E-MAIL : [info@selica.com.tw](mailto:info@selica.com.tw)

[www.selica.com.tw](http://www.selica.com.tw)