



**SVM-2 series
CNC Milling Machine
Mini VMC Workstation
Price List 2016 V1.0**

SUPER PERFORMANCE

HIGH PRECISION

LOW PRICE



Quick review to help your selections:

SUMMARY TABLE #1

Fixed Configurations						
Model	Enclosure	Spindle system	Spindle drive	Axis driving	CNC controller	Basic price
SVM-2L	Half enclosure	BT30	BLDC	Closed loop STEPPER	4 axis MACH3 USB Controller	\$9700
SVM-2P-1 <i>Workstation</i>	Full enclosure	BT30	AC SERVO	AC SERVO	14" Tablet PC +4 axis MACH3 USB Controller	\$12500
SVM-2P-1A <i>Workstation</i>	Full enclosure	BT30 +ATC	AC SERVO	AC SERVO	14" Tablet PC +4 axis MACH3 USB Controller	\$14400
SVM-2P-2 <i>Mini VM</i>	Full enclosure	BT30	AC SERVO	AC SERVO	SEIMENS 808D CNC controller	\$15000
SVM-2P-2A <i>Mini VMC</i>	Full enclosure	BT30 +ATC	AC SERVO	AC SERVO	SEIMENS 808D CNC controller	\$16900

SUMMARY TABLE #2

Optional Configurations						
Model	Engraving spindle kit	Power drawbar	4 th Axis kit	MPG	Mist cooling kit	More
SVM-2L	✓	•	✓	✓	✓	o
SVM-2P-1 <i>Workstation</i>	✓	•	✓	✓	✓	o
SVM-2P-1A <i>Workstation</i>	X	•	✓	✓	✓	o
SVM-2P-2 <i>Mini VM</i>	X	•	✓	✓	✓	o
SVM-2P-2A <i>Mini VMC</i>	X	•	✓	✓	✓	o
✓ optional X not optional • already installed o available						

Optional Parts of SVM-1 series

SVM-2L (Half Enclosure)

Basic FOB \$9700



some parts in the pictures are optional

KEY POINTS:

- Compact but **ALL IN ONE** original design
- Super rigid/high quality **HT250** resin sand casting iron structure
- Precision **LINEAR WAY** system for all 3 axis
- Ball screws for all 3 axis
- Industrial level motion **accuracy** control
- Industrial **BT30** spindle unit & air drive **power drawbar** installed
- Super powerful **BLDC** spindle driving system
- High speed **CLOSED LOOP** Microstep driving system for all 3 axis
- 4 axis USB CNC controller with 200kHz **HARDWARE** pulse generator
- One-shot lubrication system for all motion parts

- 2nd high speed engraving spindle optional
- Many expandable functions and accessories available

DIMENSIONS

Table Size:	760mm×240mm / 30"×9.8"
Table Slots:	5×14mm Slots
Travel Range (X Y Z):	420mm×240mm×400mm / 16.5"×9.8"×15.7"
MAX Spindle Nose to Table:	450mm / 17.7"
MIN Spindle Nose to Table:	50mm / 2"
Spindle Center to Column:	280mm / 11"

MOTION FEATURES

Max On Table Weight:	100Kgs
Max Feed Rate:	6MPM / 236IPM
Positional Tolerance:	0.03mm/200mm (C7 ballscrews) 0.01mm/200mm
Repeatable Tolerance:	≤0.01mm
XYZ Traveling Tolerance:	≤0.02mm /200mm
1 st Spindle Radio/Axial Run Out:	≤0.003mm at taper

SPINDLE CONFIGURATIONS **(DUAL SPINDLE SUPPORT!)**

1 st Spindle Taper:	BT30
1 st Spindle Speed:	300-6000RPM
1 st Spindle Driving System:	2200W BLDC Motor System
1 st Tool Changing:	Air drive power drawbar
2 nd Engraving Spindle System (optional) :	24000RPM/800W/ER11 water cooled high speed spindle kit Including mounting parts and VFD, wire set

MOTION PARTS

3 Axis Driving:	High Performance CLOSED LOOP Microstep Stepper System
3 Axis Motion:	HIWIN™ H Class LINEARS for all 3 axis
Ballscrews:	C7 Class Ballscrews
Bearings:	P5 Class Bearings

ELECTRONICS

CNC Controller:	4 Axis USB CNC Controller for MACH3-200kHz
Axis Driving Power Supply:	Ring Transformer Power Supply
Relay Output:	2 Way Relay Outlets Integrated (coolant/mist control)

POWER REQUIREMENTS

Power Input:	210-240VAC 50/60HZ Single Phase (Optional) 110VAC 50/60HZ Single Phase)
Power Consumption:	Max 3000W

MISCELLANEOUS FEATURES

Machine Enclosure:	Half enclosure with cabinet stand
Spindle Box Balancing:	Nitrogen spring

Lubrication:	Manual centralization lubrication
Work Light:	LED work light
Coolant System:	Integrated
Mist Cooling System:	optional
2 nd Operation Panel:	optional
MPG:	optional
Machine Cabinet Stand:	Integrated
Tooling & Accessories:	optional (refer to detailed tooling lists)
Other CNC Control System:	optional

OVERALL FEATURES

Overall Dimensions(L*W*H):	LWH 950*1500*1700mm
Net Weight:	600kgs
Package Dimensions(L*W*H):	LWH 1050*1600*1900mm
Gross Weight:	700kgs
Package Type:	Composite Plywood Case

STANDARD ACCESSORIES

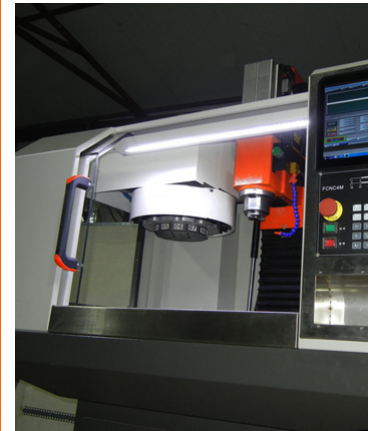
SKYFIRE™ CNC DRIVER DISK:	8G USB disk 1pcs
Power Wire:	16A 1.8m power wire 1pcs
USB Cable:	2m USB cable 1pcs
Machine Feet:	FOOT-MASTER casters 4pcs
Spanners:	Tool changing spanners

OPTIONAL CONFIGURATIONS:

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SVM-2P-1 (VM Workstation)

Basic FOB \$12500



****some parts in the pictures are optional****
SVM-2P-1 has NO ATC in the pictures

KEY POINTS:

- Compact but **ALL IN ONE** original design
- Super rigid/high quality **HT250** resin sand casting iron structure
- Precision **LINEAR WAYS & C3** class ground ball screws for all 3 axis
- Industrial level motion **accuracy** control
- Super powerful **AC SERVO** spindle driving system
- High speed **AC SERVO** driving system for all 3 axis
- Industrial **BT30** spindle unit & air drive **power drawbar** installed
- 4 axis USB CNC controller with 200kHz **HARDWARE** pulse generator
- **14" Touch panel** tablet industrial **PC** integrated
- **Full AUTO** One-shot lubrication system for all motion parts
- Many expandable functions and accessories available

DIMENSIONS

Table Size:	760mm×240mm / 30"×9.8"
Table Slots:	5×14mm Slots
Travel Range (X Y Z):	420mm×240mm×400mm / 16.5"×9.8"×15.7"
MAX Spindle Nose to Table:	450mm / 17.7"
MIN Spindle Nose to Table:	50mm / 2"
Spindle Center to Column:	280mm / 11"

MOTION FEATURES

Max On Table Weight:	100Kgs
Max Feed Rate:	10MPM / 393IPM
Positional Tolerance:	0.01mm/200mm
Repeatable Tolerance:	≤0.01mm
XYZ Traveling Tolerance:	≤0.02mm /200mm
1 st Spindle Radio/Axial Run Out:	≤0.008mm at 200mm

SPINDLE CONFIGURATIONS **(DUAL SPINDLE SUPPORT!)**

1 st Spindle Taper:	BT30
1 st Spindle Speed:	200-8000RPM
1 st Spindle Driving System:	2200W AC SERVO Motor System
1 st Tool Changing:	Air drive power drawbar
2 nd Engraving Spindle System (optional) :	24000RPM/800W/ER11 water cooled high speed spindle kit Including mounting parts and VFD, wire set

MOTION PARTS

3 Axis Driving:	High Performance AC SERVO driving System
3 Axis Motion:	HIWIN™ H Class LINEARS for all 3 axis
Ballscrews:	C3 Class Ballscrews
Bearings:	P4 Class Bearings

ELECTRONICS

CNC Controller:	14" touch screen industrial PC + 4 Axis USB CNC Controller for MACH3-200kHz
Axis Driving Power Supply:	AC power supply
Relay Output:	2 Way Relay Outlets Integrated (coolant/mist control)

POWER REQUIREMENTS

Power Input:	210-240VAC 50/60HZ Single Phase
Power Consumption:	Max 5000W

MISCELLANEOUS FEATURES

Machine Shell:	Full closed enclosure with cabinet stand
Spindle Box Balancing:	2x Nitrogen springs
Lubrication:	AUTO centralization lubrication
Work Light:	LED work light
Coolant System:	Coolant system with swarf drawer integrated
Mist Cooling System:	optional

MPG:	<i>optional</i>
Air Blow Gun:	included
Air Source:	>0.5Mpa
Tooling & Accessories:	<i>optional (refer to detailed tooling lists)</i>
Other CNC Control System:	<i>optional</i>

OVERALL FEATURE

Overall Dimensions(L*W*H):	LWH 950*1500*1700mm
Net Weight:	650kgs
Package Dimensions(L*W*H):	LWH 1050*1600*1900mm
Gross Weight:	750kgs
Package Type:	Composite Plywood Case

STANDARD ACCESSORIES

SKYFIRE™ CNC DRIVER DISK:	8G USB disk 1pcs
Power Wire:	16A 1.8m power wire 1pcs
USB Cable:	2m USB cable 1pcs
Machine Feet:	FOOT-MASTER casters 4pcs
Spanners:	Tool changing spanners

OPTIONAL CONFIGURATIONS:

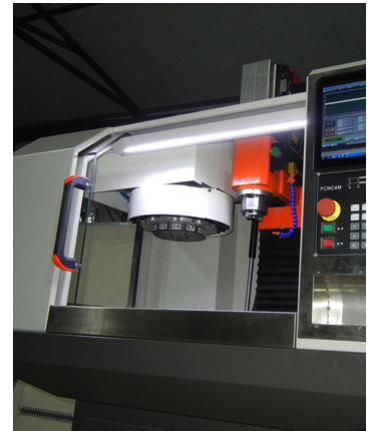
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SVM-2P-1A (VMC Workstation)

Basic FOB \$14400



some parts in the pictures are optional



KEY POINTS:

- Compact but **ALL IN ONE** original design
- Super rigid/high quality **HT250** resin sand casting iron structure
- Precision **LINEAR WAYS & C3** class ground ball screws for all 3 axis
- Industrial level motion **accuracy** control
- Super powerful **AC SERVO** spindle driving system
- High speed **AC SERVO** driving system for all 3 axis
- Industrial **BT30** spindle unit & air drive **power drawbar** installed
- 12 tool **ATC** installed
- 4 axis USB CNC controller with 200kHz **HARDWARE** pulse generator
- **14" Touch panel** tablet industrial **PC** integrated
- **Full AUTO** One-shot lubrication system for all motion parts

- Many expandable functions and accessories available

DIMENSIONS

Table Size:	760mm×240mm / 30"×9.8"
Table Slots:	5×14mm Slots
Travel Range (X Y Z):	420mm×240mm×400mm / 16.5"×9.8"×15.7"
MAX Spindle Nose to Table:	450mm / 17.7"
MIN Spindle Nose to Table:	50mm / 2"
Spindle Center to Column:	280mm / 11"

MOTION FEATURES

Max On Table Weight:	100Kgs
Max Feed Rate:	10MPM / 393IPM
Positional Tolerance:	0.01mm/200mm
Repeatable Tolerance:	≤0.01mm
XYZ Traveling Tolerance:	≤0.02mm /200mm
1 st Spindle Radio/Axial Run Out:	≤0.008mm at 200mm

SPINDLE CONFIGURATIONS

1 st Spindle Taper:	BT30
1 st Spindle Speed:	200-8000RPM
1 st Spindle Driving System:	2200W AC SERVO Motor System
1 st Tool Changing:	Air drive power drawbar
ATC System:	12 tool ATC installed

MOTION PARTS

3 Axis Driving:	High Performance AC SERVO driving System
3 Axis Motion:	HIWIN™ H Class LINEARS for all 3 axis
Ballscrews:	C3 Class Ballscrews
Bearings:	P4 Class Bearings

ELECTRONICS

CNC Controller:	14" touch screen industrial PC + 4 Axis USB CNC Controller for MACH3-200kHz
Axis Driving Power Supply:	AC power supply
Relay Output:	2 Way Relay Outlets Integrated (coolant/mist control)

POWER REQUIREMENTS

Power Input:	210-240VAC 50/60HZ Single Phase
Power Consumption:	Max 5000W

MISCELLANEOUS FEATURES

Machine Shell:	Full closed enclosure with cabinet stand
Spindle Box Balancing:	2x Nitrogen springs
Lubrication:	AUTO centralization lubrication
Work Light:	LED work light
Coolant System:	Coolant system with swarf drawer integrated

Mist Cooling System:	<i>optional</i>
MPG:	<i>optional</i>
Air Blow Gun:	included
Air Source:	>0.5Mpa
Tooling & Accessories:	<i>optional (refer to detailed tooling lists)</i>
Other CNC Control System:	<i>optional</i>

OVERALL FEATURE

Overall Dimensions(L*W*H):	LWH 950*1500*1700mm
Net Weight:	650kgs
Package Dimensions(L*W*H):	LWH 1050*1600*1900mm
Gross Weight:	750kgs
Package Type:	Composite Plywood Case

STANDARD ACCESSORIES

SKYFIRE™ CNC DRIVER DISK:	8G USB disk 1pcs
Power Wire:	16A 1.8m power wire 1pcs
USB Cable:	2m USB cable 1pcs
Machine Feet:	FOOT-MASTER casters 4pcs
Spanners:	Tool changing spanners

OPTIONAL CONFIGURATIONS:

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SVM-2P-2 (Mini VM)

Basic FOB \$15000



some parts in the pictures are optional
SVM-2P-2 has NO ATC in the pictures

KEY POINTS:

- Compact but **ALL IN ONE** original design
- Super rigid/high quality **HT250** resin sand casting iron structure
- Precision **LINEAR WAYS & C3** class ground ball screws for all 3 axis
- Industrial level motion **accuracy** control
- Super powerful **AC SERVO** spindle driving system
- High speed **AC SERVO** driving system for all 3 axis
- Industrial **BT30** spindle unit & air drive **power drawbar** installed
- SIEMENS 808D CNC controller
- **Full AUTO** One-shot lubrication system for all motion parts
- Many expandable functions and accessories available

DIMENSIONS

Table Size:	760mm×240mm / 30"×9.8"
Table Slots:	5×14mm Slots
Travel Range (X Y Z):	420mm×240mm×400mm / 16.5"×9.8"×15.7"
MAX Spindle Nose to Table:	450mm / 17.7"
MIN Spindle Nose to Table:	50mm / 2"
Spindle Center to Column:	280mm / 11"

MOTION FEATURES

Max On Table Weight:	100Kgs
Max Feed Rate:	10MPM / 393IPM
Positional Tolerance:	0.01mm/200mm
Repeatable Tolerance:	≤0.01mm
XYZ Traveling Tolerance:	≤0.02mm /200mm
1 st Spindle Radio/Axial Run Out:	≤0.008mm at 200mm

SPINDLE CONFIGURATIONS

1 st Spindle Taper:	BT30
1 st Spindle Speed:	200-8000RPM
1 st Spindle Driving System:	2200W AC SERVO Motor System
1 st Tool Changing:	Air drive power drawbar
2 nd Engraving Spindle System:	Not selectable

MOTION PARTS

3 Axis Driving:	High Performance AC SERVO driving System
3 Axis Motion:	HIWIN™ H Class LINEARS for all 3 axis
Ballscrews:	C3 Class Ballscrews
Bearings:	P4 Class Bearings

ELECTRONICS

CNC Controller:	SIEMENS 808D CNC controller
Axis Driving Power Supply:	AC power supply
Relay Output:	2 Way Relay Outlets Integrated (coolant/mist control)

POWER REQUIREMENTS

Power Input:	210-240VAC 50/60HZ Single Phase
Power Consumption:	Max 5000W

MISCELLANEOUS FEATURES

Machine Shell:	Full closed enclosure with cabinet stand
Spindle Box Balancing:	2x Nitrogen springs
Lubrication:	AUTO centralization lubrication
Work Light:	LED work light
Coolant System:	Coolant system with swarf drawer integrated
Mist Cooling System:	optional

MPG:	<i>optional</i>
Air Blow Gun:	included
Air Source:	>0.5Mpa
Tooling & Accessories:	<i>optional (refer to detailed tooling lists)</i>
Other CNC Control System:	<i>optional</i>

OVERALL FEATURE

Overall Dimensions(L*W*H):	LWH 950*1500*1700mm
Net Weight:	600kgs
Package Dimensions(L*W*H):	LWH 1050*1600*1900mm
Gross Weight:	700kgs
Package Type:	Composite Plywood Case

STANDARD ACCESSORIES

SKYFIRE™ CNC DRIVER DISK:	8G USB disk 1pcs
Power Wire:	16A 1.8m power wire 1pcs
USB Cable:	2m USB cable 1pcs
Machine Feet:	FOOT-MASTER casters 4pcs
Spanners:	Tool changing spanners

OPTIONAL CONFIGURATIONS:

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SVM-2P-2A (Mini VMC)

Basic FOB \$16900



some parts in the pictures are optional

KEY POINTS:

- Compact but **ALL IN ONE** original design
- Super rigid/high quality **HT250** resin sand casting iron structure
- Precision **LINEAR WAYS & C3** class ground ball screws for all 3 axis
- Industrial level motion **accuracy** control
- Super powerful **AC SERVO** spindle driving system
- High speed **AC SERVO** driving system for all 3 axis
- Industrial **BT30** spindle unit & air drive **power drawbar** installed
- 12 tool **ATC** installed
- SIEMENS 808D CNC controller
- **Full AUTO** One-shot lubrication system for all motion parts
- Many expandable functions and accessories available

DIMENSIONS

Table Size:	760mm×240mm / 30"×9.8"
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MOTION FEATURES

Max On Table Weight:	100Kgs
Max Feed Rate:	10MPM / 393IPM
Positional Tolerance:	0.01mm/200mm
Repeatable Tolerance:	≤0.01mm
XYZ Traveling Tolerance:	≤0.02mm /200mm
1 st Spindle Radio/Axial Run Out:	≤0.008mm at 200mm

SPINDLE CONFIGURATIONS

1 st Spindle Taper:	BT30
1 st Spindle Speed:	200-8000RPM
1 st Spindle Driving System:	2200W AC SERVO Motor System
1 st Tool Changing:	Air drive power drawbar
ATC System:	12 tool ATC installed

MOTION PARTS

3 Axis Driving:	High Performance AC SERVO driving System
3 Axis Motion:	HIWIN™ H Class LINEARS for all 3 axis
Ballscrews:	C3 Class Ballscrews
Bearings:	P4 Class Bearings

ELECTRONICS

CNC Controller:	SIEMENS 808D CNC controller
Axis Driving Power Supply:	AC power supply
Relay Output:	2 Way Relay Outlets Integrated (coolant/mist control)

POWER REQUIREMENTS

Power Input:	210-240VAC 50/60HZ Single Phase
Power Consumption:	Max 5000W

MISCELLANEOUS FEATURES

Machine Shell:	Full closed enclosure with cabinet stand
Spindle Box Balancing:	2x Nitrogen springs
Lubrication:	AUTO centralization lubrication
Work Light:	LED work light
Coolant System:	Coolant system with swarf drawer integrated
Mist Cooling System:	optional
MPG:	optional
Air Blow Gun:	included

Air Source:	>0.5Mpa
Tooling & Accessories:	<i>optional (refer to detailed tooling lists)</i>
Other CNC Control System:	<i>optional</i>

OVERALL FEATURE

Overall Dimensions(L*W*H):	LWH 950*1500*1700mm
Net Weight:	650kgs
Package Dimensions(L*W*H):	LWH 1050*1600*1900mm
Gross Weight:	750kgs
Package Type:	Composite Plywood Case

STANDARD ACCESSORIES

SKYFIRE™ CNC DRIVER DISK:	8G USB disk 1pcs
Power Wire:	16A 1.8m power wire 1pcs
USB Cable:	2m USB cable 1pcs
Machine Feet:	FOOT-MASTER casters 4pcs
Spanners:	Tool changing spanners

OPTIONAL CONFIGURATIONS:

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OPTIONAL PARTS For SVM-2 series:

- ☐ **6" 4th Axis Kit-Harmonic Drive Vertical Type** **+\$1600**

ZERO backlash / tolerance<3'

Including 6" rotary table, tail stock, stepper motor & driver, cables set



- ☐ **3-jaw Chuck Kit for 4th Axis** **+\$120**

O.D 125mm, including mounting adapter and accessories



- ☐ **2nd High Speed Engraving Spindle Kit (can't be with ATC)** **+\$450**

Including 800W/24000RPM/ER11/Water Cooled spindle, Bracket, mini VFD, cable sets and cooling pump, water tubes



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| <input type="checkbox"/> | Mist Cooling Kit | +\$80 |
| | Air drive type, air/oil volume adjustable | |
| | Including mist sprayer, tubes and a coolant bottle | |



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|--------------------------|-----------------------------|----------------------------------------------------|
| <input type="checkbox"/> | R8/BT30 Series Tools | Refer to tooling system price list |
|--------------------------|-----------------------------|----------------------------------------------------|



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|--------------------------|---------------------|---------------|
| <input type="checkbox"/> | Handheld MPG | +\$160 |
| | 100P/R, 4 axis | |



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| <input type="checkbox"/> | Electronic Tool Setter
50mm set height/ magnet bottom/ LED light/ probe plug | +\$85 |
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|--------------------------|---------------------------------------------|
| <input type="checkbox"/> | 5" Precision Milling Vise |
| <input type="checkbox"/> | 58pcs Clamping Kit-M10 |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | Other tooling accessories please contact us |

Please visit our website www.skyfirecnc.com for more information.

Any question Please email sales@skyfirecnc.com for answers ASAP.

Any technical questions please email support@skyfirecnc.com for our service ASAP.

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