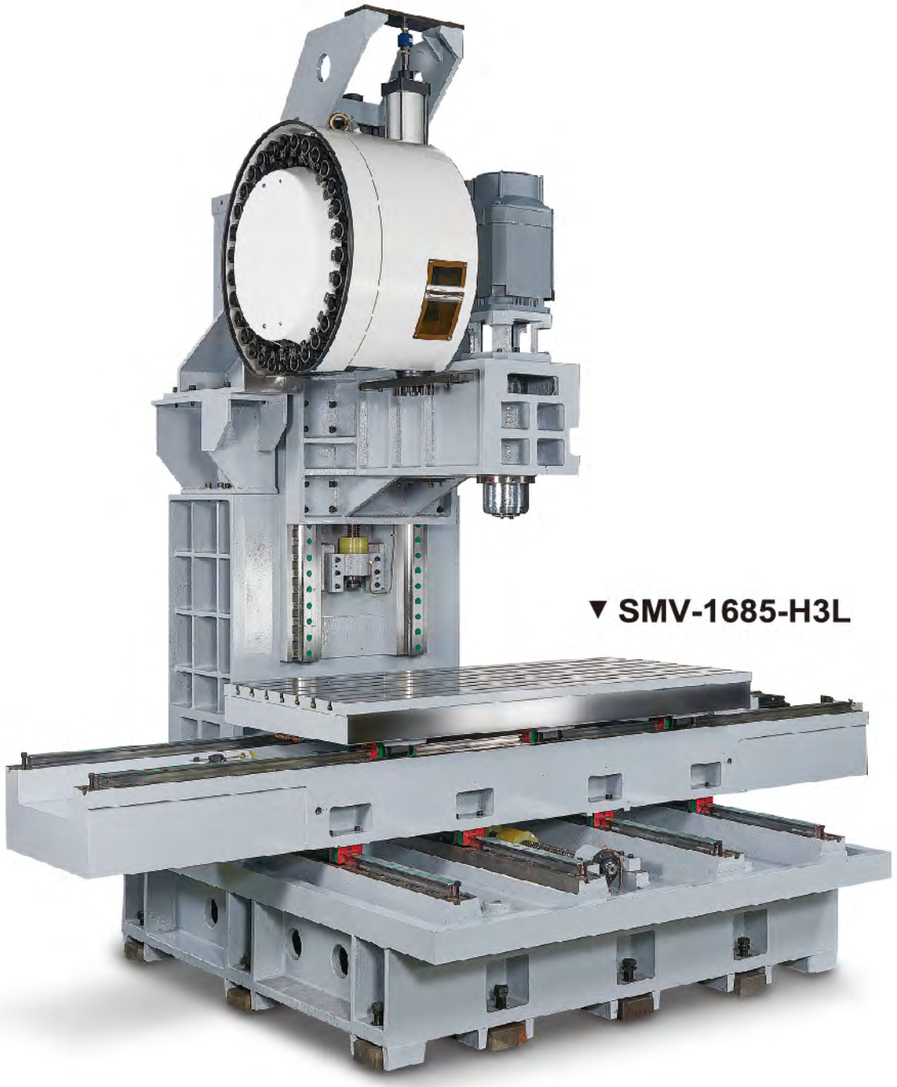
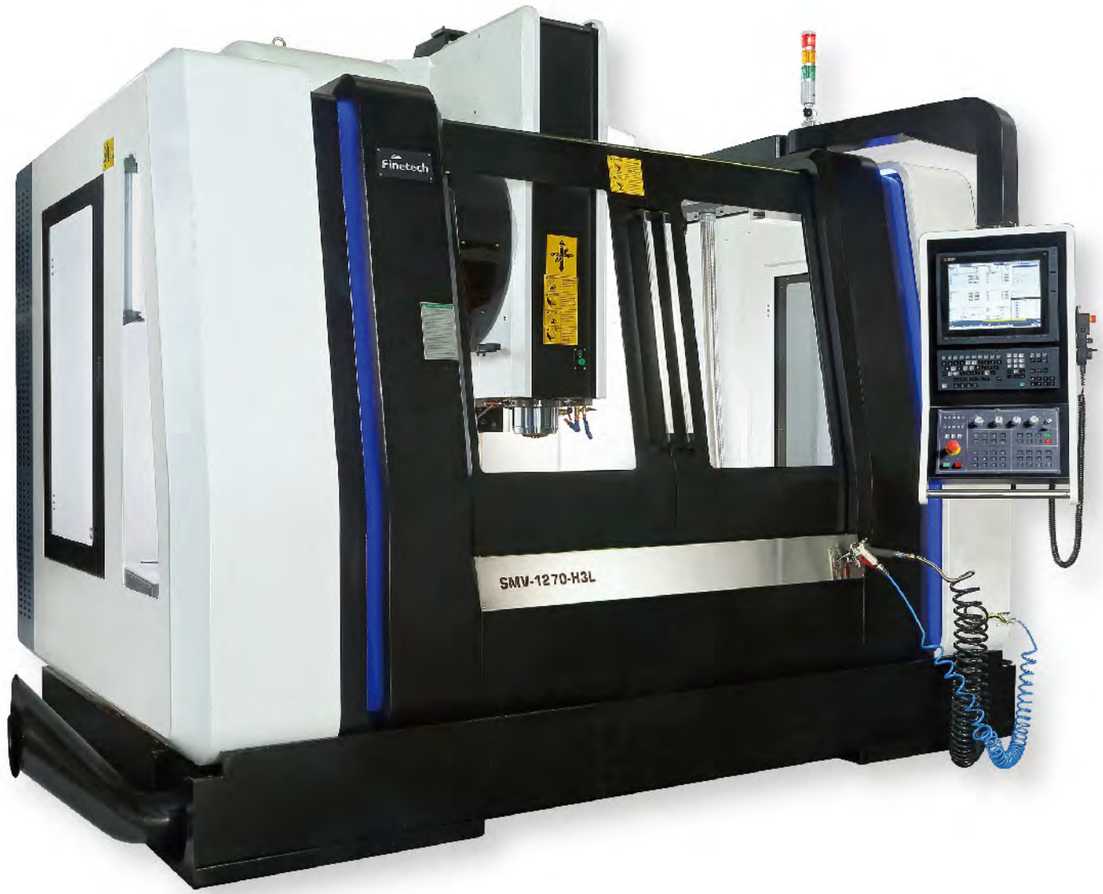
Finetech

SMV Series

CNC VERTICAL MACHINING CENTERS



▼ SMV-1685-H3L



Finetech

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Internationally Recognized Machine Tools From Finetech

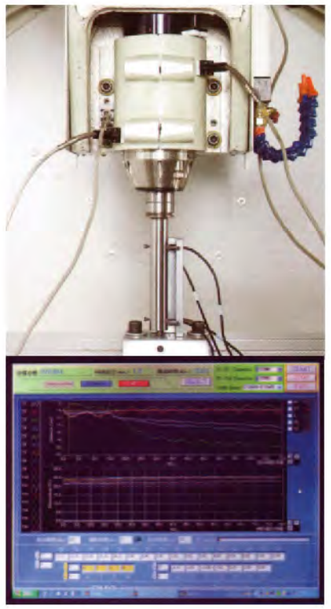
From its beginnings in 1979, Finetech has been one of the top machine tool manufacturers in the world. Finetech manufactures a wide range of CNC vertical machining centers. Finetech's machines are built to deliver high speed with more accuracy, efficiency and durability with more standard features, high-tech innovations and solid engineering.

Every Finetech machine is designed to provide more flexibility and productivity, making for a very sound investment.

Finetech

Extensive Quality Control

Before shipping, each machining center from Finetech is subject to rigorous quality inspections during assembly. If it does not measure up to our standards, it does not leave our factory. Our objective is to ensure that each machine will provide optimum performance and fully satisfy customers.



SPINDLE DYNAMIC BALANCE TESTING

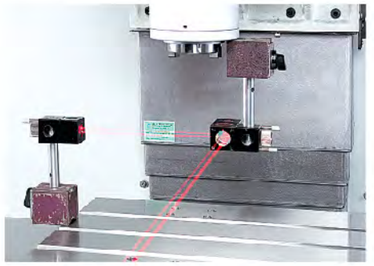
After machine assembly, the spindle is re-balanced to ensure smooth operation.

SPINDLE THERMAL GROWTH TESTING

Each spindle is tested through the complete speed range and thermal growth is measured to ensure the spindle is within normal values.

FINAL TEST CUT

Dynamic cutting process test ensures precision and performance of machine.



CALIBRATION

Every Finetech machine is laser calibrated for pitch error compensation and backlash.

BALL BAR TESTING

Every machine is put through a Dynamic Ballbar test to test circularity and reversal spike errors.

Extensive Quality Control During Assembly

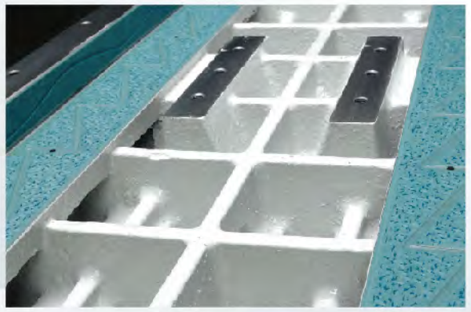
SPINDLE TRAM

Every spindle mount is hand scraped to ensure accurate alignment of the spindle to worktable.

BALLSCREW ALIGNMENT

The ballscrew bearing mounts are aligned using a precision test mandrel.

The mounting surface is hand scraped to ensure a highly precise alignment.



GUIDEWAYS ARE FITTED WITH "TURCITE B"

Box way type machines are hand scraped and set matched to ensure high geometric accuracy.

STRAIGHTNESS

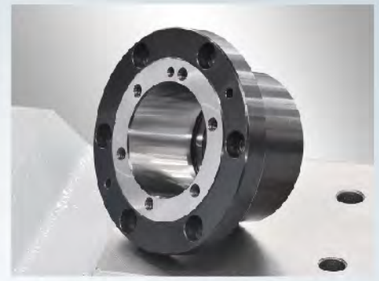
Every linear guideway has a precision ground mounting surface and is checked using a high precision Granite straight edge.

LEVEL

The machine level is continuously checked through each stage of the assembly process using precision levels.

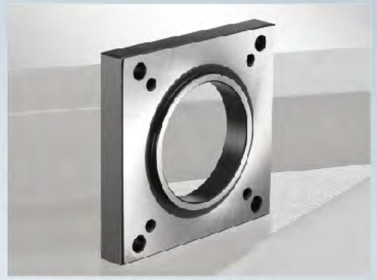
SCREW AND LINEAR RAIL PARALLEL TEST

The straightness of the ballscrew is measured against the straightness of the linear guideway to ensure both components are parallel to each other.



THRUST BEARING ASSEMBLY

The thrust bearing housings are inspected and ground for proper clearances to allow the ballscrew to be properly supported.



SERVO MOTOR MOUNT

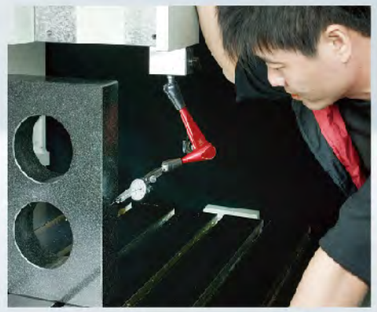
Each servo motor mounting surface is ground to ensure the motor is correctly aligned to the ballscrew.

EFFICIENT AXES LUBRICATION

Each axis uses volumetric oil or grease distribution to ensure even and efficient lubrication.

BALLSCREW MOUNT

The ball nut is hand scraped and aligned using a precision test mandrel.



Z AXIS ALIGNMENT TEST

The Z axis is tested for accuracy using a high precision granite square in X, Z and Y, Z directions.

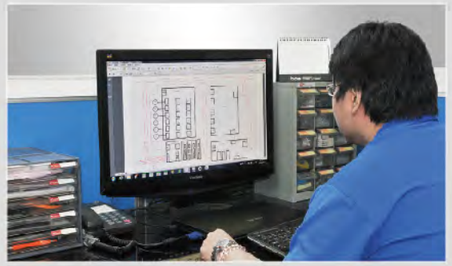
Excellent Mechanical Features

COOLANT-THROUGH-SPINDLE (CTS) 20-70 BAR (Optional)

Coolant-Through-Spindle provides coolant directly to the machining process through the center of the spindle. CTS may extend the life of the cutting tool and improve the evacuation of chips, especially when used for deep hole drilling and pocket milling.

SPINDLE CHILLER (Oil or Water)

The spindle chiller will help maintain a stable spindle temperature and will reduce the effects of thermal expansion of the spindle main shaft as well as extend the life of the spindle.

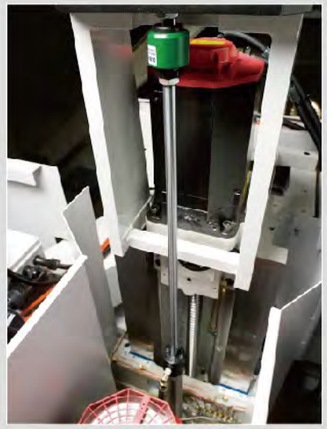


IN HOUSE CIRCUIT DESIGN

The Finetech R&D team can design both hardware and software components for the machine tools and allows for better quality control and quick response to customers requests.

Ø63mm EXTRA LARGE BALLSCREW

Finetech's model 1890 and larger use ø63mm ball screws to handle heavier cutting and table loads while still providing smooth motion.



AIR COUNTER BALANCE

LINEAR SCALE MOUNTING SURFACE

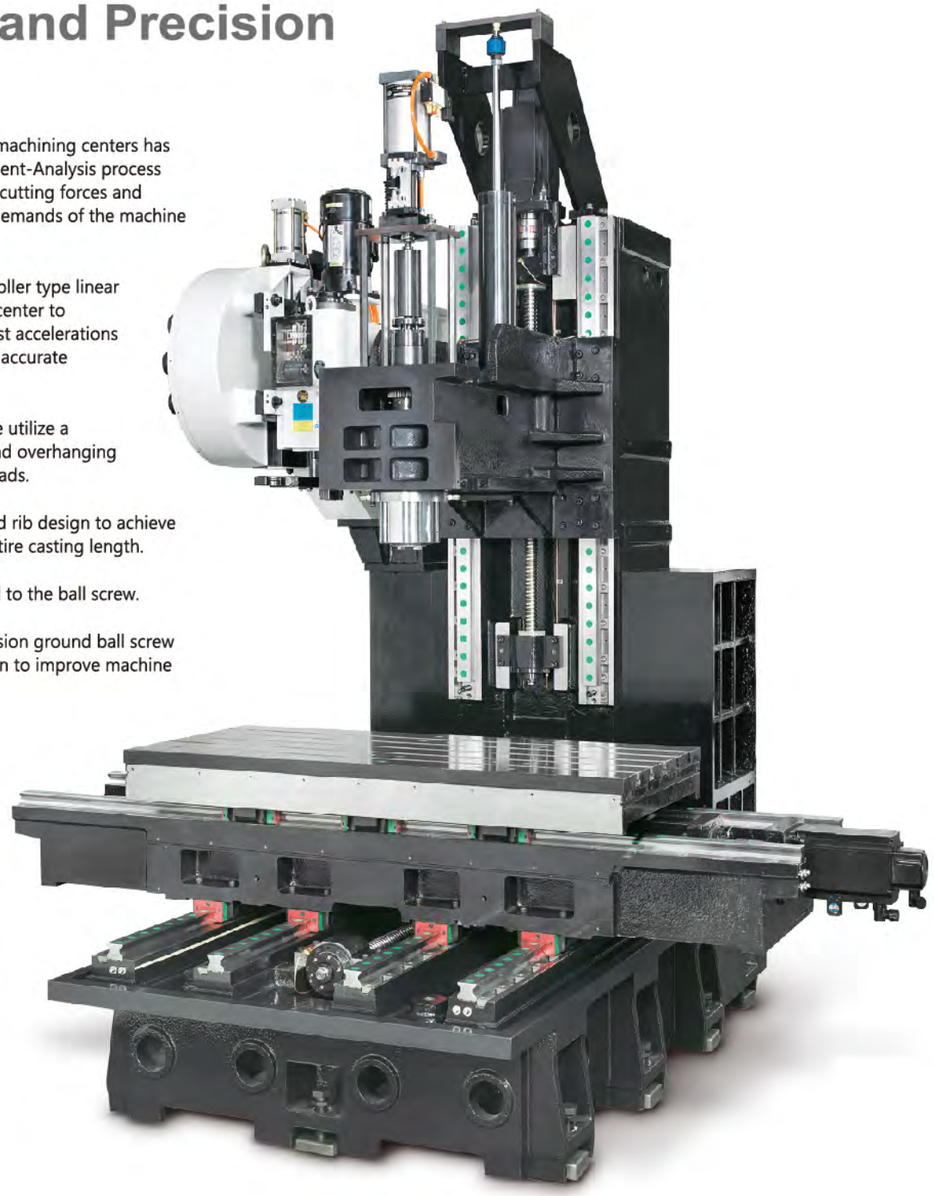
A precision ground surface can be added to each axis to allow for easy installation of linear scales by ensuring a straight and parallel surface.

T-SLOT GRINDING

Each T-Slot is ground to a H8 tolerance to provide an accurate datum surface allowing for easy and precise machine setup.

High Speed and Precision

- The casting assembly of the SMV machining centers has been designed using a Finite-Element-Analysis process to ensure the machine will handle cutting forces and weight loads associated with the demands of the machine specifications.
- All axes use an extra wide 45mm roller type linear guideway to allow the machining center to accommodate heavy loads with fast accelerations and low friction while maintaining accurate positioning.
- The machine base and saddle base utilize a wide design to prevent sagging and overhanging concerns with heavy work piece loads.
- The Z axis casting uses a reinforced rib design to achieve structural strength through the entire casting length.
- Each axis motor is directly coupled to the ball screw.
- Each axis will use a grade C3 precision ground ball screw and will use a pre-tensioned design to improve machine performance.



▲ SMV-1270-H3L

LINEAR WAY SERIES

▲ 610-H3L
- Travel : X610 Y400 Z460 mm
- Table : L650 × W400 mm

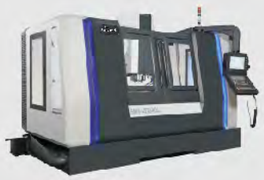
▲ 710-H3L
- Travel : X710 Y450 Z460 mm
- Table : L760 × W420 (500) mm

▲ 800-H3L
- Travel : X800 Y500 Z500 mm
- Table : L950 × W500 mm

▲ 850-H3L
- Travel : X850 Y600 Z650 mm
- Table : L1000 × W500 mm

▲ 1060-H3L
- Travel : X1000 Y600 Z650 mm
- Table : L1100 × W600 mm

▲ 1270-H3L
- Travel : X1200 Y700 Z700 mm
- Table : L1350 × W700 mm



▲ 1370-H3L
- Travel : X1300 Y700 Z700 mm
- Table : L1450 × W700 mm

▲ 1570-H3L
- Travel : X1500 Y700 Z700 mm
- Table : L1650 × W700 mm

▲ 1670-H3L
- Travel : X1600 Y700 Z700 mm
- Table : L1750 × W700 mm

▲ 1685-H3L
- Travel : X1600 Y850 Z850 mm
- Table : L1600 × W800 mm

▲ 2070-H3L
- Travel : X2000 Y700 Z700 mm
- Table : L2150 × W700 mm

Four linear guideways on Y axis
Two linear guideways with six bearing blocks on X axis

BOX WAY

Heavy Cutting Vertical **Machining Center**

- The casting assembly of the SMV machining centers has been designed using a Finite-Element-Analysis process to ensure the machine will handle cutting forces and weight loads associated with the demands of the machine specifications.
- All axes use box way design to allow the machining center to accommodate extremely heavy loads with smooth motion while increasing dampening of vibrations and cutting force characteristics.
- The machine base and saddle base utilize a wide design to prevent sagging and overhanging concerns with heavy work piece loads.
- The Z axis casting uses a reinforced rib design to achieve structural strength through the entire casting length.
- Each axis motor is directly coupled to the ball screw.
- Each axis will use a grade C3 precision ground ball screw and will use a pre-tensioned design to improve machine performance.

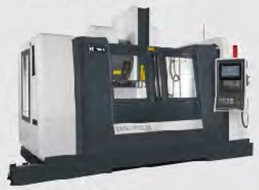
▲ SMV-2590-3B

BOX WAY SERIES

▲ 650-3B
- Travel：X650 Y500 Z500 mm
- Table：L800× W470 mm

▲ 1060-3B
- Travel：X1000 Y600 Z650 mm
- Table：L1100× W500 mm

▲ 1270-3B
- Travel：X1200 Y700 Z650 mm
- Table：L1300× W700 mm



▲ 1570-3B
- Travel：X1500 Y700 Z650 mm
- Table：L1650× W700 mm

▲ 1670-3B
- Travel：X1600 Y700 Z650 mm
- Table：L1750× W700 mm

▲ 1890-3B
- Travel：X1800 Y1000 Z900 mm
- Table：L1950× W900 mm

▲ 2090-3B
- Travel：X2000 Y1000 Z900 mm
- Table：L2150× W900 mm

▲ 2290-3B
- Travel：X2200 Y1000 Z900 mm
- Table：L2350× W1000 mm

▲ 2590-3B
- Travel：X2500 Y1000 Z900 mm
- Table：L2600× W1000 mm

Box way design on all three axes
Four box way on Y axis

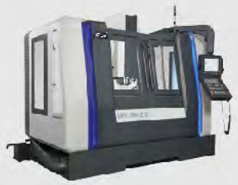
COMBINATION WAY

Combination Type Vertical **Machining Center**

- The casting assembly of the SMV machining centers has been designed using a Finite-Element-Analysis process to ensure the machine will handle cutting forces and weight loads associated with the demands of the machine specifications.
- The X and Y axes utilize roller type linear guideways to allow the machining center to accommodate heavy work piece loads with fast accelerations and low friction while maintaining accurate positioning.
- The Z axis uses box way design to allow the machining center to dampen heavier cutting forces.
- The machine base and saddle base utilize a wide design to prevent sagging and overhanging concerns with heavy work piece loads.
- The Z axis casting uses a reinforced rib design to achieve structural strength through the entire casting length.
- Each axis motor is directly coupled to the ball screw.
- Each axis will use a grade C3 precision ground ball screw and will use a pre-tensioned design to improve machine performance.

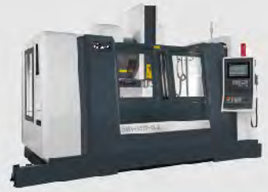
▲ SMV-2090-2LB

COMBINATION WAY SERIES



▲ 1060-2LB
- Travel：X1000 Y600 Z650 mm
- Table：L1100× W600 mm

▲ 1270-2LB
- Travel：X1200 Y700 Z650 mm
- Table：L1350× W700 mm



▲ 1570-2LB
- Travel：X1500 Y700 Z650 mm
- Table：L1650× W700 mm

▲ 1670-2LB
- Travel：X1600 Y700 Z650 mm
- Table：L1750 × W700 mm

▲ 1890-2LB
- Travel：X1800 Y900 Z900 mm
- Table：L1950× W900 mm

▲2070-2LB
- Travel：X2000 Y700 Z700 mm
- Table：L2150 × W700 mm

▲ 2090-2LB
- Travel：X2000 Y1000 Z1000 mm
- Table：L2150× W1000 mm

▲ 2290-2LB
- Travel：X2200 Y1000 Z1000 mm
- Table：L2350× W1000 mm

▲ 2590-2LB
- Travel：X2500 Y1000 Z1000 mm
- Table：L2600× W1000 mm

LINEAR WAY **CNC Vertical Machining Center**

SMV Specificaations

MODEL		unit	610-H3L	710-H3L	800-H3L	850-H3L	1060-H3L	1270-H3L	1370-H3L	1570-H3L	1670-H3L	2070-H3L	1685-H3L
TRAVEL	X-axis	mm	610	710	800	850	1000	1200	1300	1500	1600	2000	1600
	Y-axis	mm	400	450	500	600	600	700	700	700	700	700	850
	Z-axis	mm	460	460	500	650	650	700	700	700	700	700	850
	Spindel center to column	mm	390	514	514	598	598	730	730	730	730	730	850
	Spindle nose to table surface	mm	100~570	100~570	110~610	115~765	115~765	130~830	130~830	130~830	130~830	130~830	130~980
TABLE	Table (L x W)	mm	650 x 400	760 x 420 (500)	950 x 500	1000 x 500	1160 x 600	1350 x 700	1450 x 700	1650 x 700	1750 x 700	2150 x 700	1700 x 800
	T-slot (No. x Width)	mm	4 x 18 x 80 x 40 x 80	3(5) x 18 x 100	3(5) x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	7 x 18 x 100
	Max. table load	kgs	400	500	600	700	800	1000	1500	1500	1500	1600	1800
MAX. TRAVERSE SPEED	X / Y / Z-axis	M/min	36 / 36 / 32	36 / 36 / 32	36/ 36 / 32	36 / 36 / 32	36 / 36 / 32	30 / 30 / 24	24 / 24 / 24	24 / 24 / 24	24 / 24 / 24	18 / 18 / 18	24 / 24 / 24
ATC	Swing Arm type BT-40 (Opt.)	T	20 / 24	20 / 24	24 / 30	24 / 30	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40
	Chain type BT-50 (Opt.)	T	N / A	N / A	N / A	N / A	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40
SPINDLE	Type-CAT/BT/DIN (Opt. HSK)		40	40	40	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50
	Motor(Other power options)	kW	5.5~7.5	5.5~7.5 (7.5~11)	5.5~7.5 (7.5~11)	7.5~11 (11~15)	7.5~11 (11~15)	7.5~11 (11~15)	11~15 (15~18.5)	11~15 (15~18.5)	11~15 (15~18.5)	11~15 (15~18.5)	15~18.5 (18.5~22)
	Belt-drive BT-40(Opt.)	rpm	8000 rpm (10000 / 12000 rpm)			8000 rpm (10000 / 12000 rpm)							
	Direct-drive BT-40 (Opt.)	rpm	10000 / 12000 / 15000 rpm			10000 / 12000 / 15000 rpm							
	Build-in spindle(Opt.)	rpm	20000 / 30000 rpm (BT-40/ HSK-E40/50/63)			20000 / 30000 rpm (BT-40/ HSK-E40 / HSK-63A)							
	Belt-drive BT-50(Opt.)	rpm	N / A			6000-8000 rpm							
	Direct-drive BT-50(Opt.)	rpm	N / A			8000/10000 rpm							
MISCELLANEOUS	Power consumption	KVA	30	30	35	35	35	35	45	45	45	45	55
	Pneumatic supply	kg/cm^2	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5
	Coolant tank capacity	L	256	256	300	350	367	510	510	560	560	560	580
	Machine weight	kg	4500	4800	4800	6500	6800	7800	9000	11000	12000	13000	15000
	Floor space requirement (LxW)	mm	2572 x 1910	2605 x 1956	2988 x 2085	3064 x 2120	3337 x 2370	3874 x 2389	4188 x 2414	4556 x 2404	4756 x 2404	6000 x 2804	4805 x 3021
	Floor space requirement (with conveyor) (LxW)	mm	3313 x 1910	3340 x 1956	3724 x 2085	3822 x 2120	3948 x 2270	4519 x 2389	4805 x 2414	5316 x 2404	5516 x 2404	6857 x 2404	5554 x 3021

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STANDARD EQUIPMENT

- 8,000rpm belt type #40 taper spindle
- Spindle chiller
- Rigid tapping
- Spindle bearing air purge
- Z axis motor with brake system
- Guideway covers (X,Y,Z)
- Central lubrication system
- Fully enclosed machining area
- Wash down system
- Safety Door
- Mechanical oil/coolant separator
- LED work light
- Heat exchanger for electrical cabinet
- Coolant pump
- Spindle coolant nozzle system
- Auxiliary coolant gun
- Cutting air blast
- Auxiliary air gun
- Tool kit
- 3-color beacon light
- Leveling blocks & bolts
- Auto interrupt & power off system (M30)
- Portable hand wheel
- CNC control manuals, Operation manual, Maintenance manual
- Inspection report (CD format)

OPTIONAL ACCESSORIES

- Coolant Through Spindle (20-70Bar)
- Paper-type filter for CTS system
- Linear scale
- Programmable cutting coolant nozzle
- Oil mist coolant system
- Oil mist collector
- Chain type chip conveyor with chip cart
- Screw type chip auger with chip cart
- Laser type tool length measurement system
- Contact type tool length measurement system
- Workpiece measurement kinematic system
- 4th axis rotary table
- 4th/5th axis tilt/rotary table
- CE Certification
- Disk type oil Skimmer
- Air conditioner for electrical cabinet
- Transformer
- Jager high performanec spindles

BOX WAY **Heavy Cutting Machining Center**

SMV Specificaations

MODEL		unit	650-3B	1060-3B	1270-3B	1570-3B	1670-3B	1890-3B	2090-3B	2290-3B	2590-3B
TRAVEL	X-axis	mm	650	1000	1200	1500	1600	1800	2000	2000	2500
	Y-axis	mm	500	600	700	700	700	900 (1000)	900 (1000)	900 (1000)	900 (1000)
	Z-axis	mm	500	650 (BT-50: 630)	650(700)	650(700)	650(700)	900(1000)	1000	1000	1000
	Spindel center to column	mm	530	598	705	730	730	1055	1055	1055	1055
	Spindle nose to table surface	mm	125~620	100~750	130~780	130~780	130~780	(40)150-1050 (50)250-1150	(40)150-1050 (50)250-1150	(40)150-1050 (50)250-1150	(40)150-1050 (50)250-1150
TABLE	Table (L x W)	mm	800 x 470	1100 x 500 (BT-50: 1100 x 600)	1300 x 700	1650 x 700	1750 x 700	1950 x 900	2150 x 900	2350 x 1000	2600 x 1000
	T-slot (No. x Width)	mm	5 x 18 x 100	5 x 18 x 100	5 x 18 x 125	5 x 18 x 115	5 x 18 x 115	5 x 22 x 160	5 x 22 x 160	5 x 22 x 160	5 x 22 x 160
	Max. table load	kgs	500	800	1000	1400	1500	2000	2000	2000	2500
MAX. TRAVERSE SPEED	X / Y / Z-axis	M/min	24 / 24 / 24	24 / 24 / 24	24 / 24 / 20	20 / 20 / 15	20 / 20 / 15	15 / 15 / 12	15 / 15 / 12	15 / 15 / 12	15 / 15 / 12
ATC	Swing Arm type BT-40 (Opt.)	T	24	24 / 30	24 / 30	24 / 30	24 / 30	24 / 30	24 / 30	24 / 30	24 / 30
	Chain type BT-50 (Opt.)	T	N / A	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40 / 48	32 / 40 / 48	32 / 40 / 48
SPINDLE	Type-CAT/BT/DIN (Opt. HSK)		40	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50
	Motor(Other power options)	kW	5.5~7.5 (7.5~11)	7.5~11 (11~15)	7.5~11 (11~15)	11~15 (15~18.5)	11~15 (15~18.5)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)
	Belt-drive BT-40(Opt.)	rpm	8000 rpm (10000 / 12000 rpm)					8000 rpm (10000 / 12000 rpm)			
	Direct-drive BT-40 (Opt.)	rpm	10000 / 12000 / 15000 rpm					10000 / 12000 / 15000 rpm			
	Build-in spindle(Opt.)	rpm	20000 / 30000 rpm (BT-40/ HSK-E40/50/63)					20000 rpm (BT-40/ HSK-63A)			
	Belt-drive BT-50(Opt.)	rpm	N / A	6000 / 8000 rpm				6000 / 8000 rpm			
	Direct-drive BT-50(Opt.)	rpm	N / A	8000 / 10000 rpm				8000 / 10000 rpm			
MISCELLANEOUS	Power consumption	KVA	25	35	35	45	45	55	55	55	60
	Pneumatic supply	kg/cm²	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5
	Coolant tank capacity	L	256	367	510	560	560	650	650	650	650
	Machine weight	kg	4800	6800	7800	11000	12000	20000	23000	27000	30000
	Floor space requirement (LxW)	mm	2700 x 2100	2340 x 2270	3874 x 2389	4556 x 2404	4756 x 2244	4900 x 3312	5536 x 3673	5700 x 3700	6000 x 3700
	Floor space requirement (with conveyor) (LxW)	mm	3340 x 2100	3950 x 2270	4519 x 2389	5316 x 2404	5680 x 2244	6058 x 3312	6486 x 3673	6900 x 3700	7300 x 3700

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STANDARD EQUIPMENT

- 8,000rpm belt type #40 taper spindle
- Spindle chiller
- Rigid tapping
- Spindle bearing air purge
- Z axis motor with brake system
- Guideway covers (X,Y,Z)
- Central lubrication system
- Fully enclosed machining area
- Wash down system
- Safety Door
- Mechanical oil/coolant separator
- LED work light
- Heat exchanger for electrical cabinet
- Coolant pump
- Spindle coolant nozzle system
- Auxiliary coolant gun
- Cutting air blast
- Auxiliary air gun
- Tool kit
- 3-color beacon light
- Leveling blocks & bolts
- Auto interrupt & power off system (M30)
- Portable hand wheel
- CNC control manuals, Operation manual, Maintenance manual
- Inspection report (CD format)

OPTIONAL ACCESSORIES

- Coolant Through Spindle (20-70Bar)
- Paper-type filter for CTS system
- Linear scale
- Programmable cutting coolant nozzle
- Oil mist coolant system
- Oil mist collector
- Chain type chip conveyor with chip cart
- Screw type chip auger with chip cart
- Laser type tool length measurement system
- Contact type tool length measurement system
- Workpiece measurement kinematic system
- 4th axis rotary table
- 4th/5th axis tilt/rotary table
- CE Certification
- Disk type oil Skimmer
- Air conditioner for electrical cabinet
- Transformer
- Jager high performanec spindles

LINEAR WAYS + BOX WAYS **Complex Type Vertical Machining Center**

SMV Specificaations

MODEL		unit	1060-2LB	1270-2LB	1570-2LB	1670-2LB	2070-2LB	1890-2LB	2090-2LB	2290-2LB	2590-2LB
TRAVEL	X-axis	mm	1000	1200	1500	1600	2000	1800	2000	2200	2500
	Y-axis	mm	600	700	700	700	700	900 (1000)	1000	1000	1000
	Z-axis	mm	650	650(700)	650(700)	650(700)	650(700)	900	1000	1000	1000
	Spindel center to column	mm	598	709	730	730	730	1055	1055	1055	1055
	Spindle nose to table surface	mm	110~760	130~780	130~780	130~780	130~780	(40)1501050 (50)2501150	(40)1501050 (50)2501150	(40)1501050 (50)2501150	(40)1501050 (50)2501150
TABLE	Table (L x W)	mm	1160 x 600	1350 x 600(700)	1650 x 700	1750 x 700	2150 x 700	1950 x 900	2150 x 1000	2350 x 1000	2600 x 1000
	T-slot (No. x Width)	mm	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 22 x 160	5 x 22 x 165	5 x 22 x 165	5 x 22 x 160
	Max. table load	kgs	800	700	1500	1500	1800	2000	2000	2000	2500
MAX. TRAVERSE SPEED	X / Y / Z-axis	M/min	30 / 30 / 24	30 / 30 / 24	24 / 24 / 20	25 / 25 / 20	18 / 18 / 18	20 / 20 / 15	15 / 15 / 15	15 / 15 / 12	15 / 15 / 12
ATC	Swing Arm type BT-40 (Opt.)	T	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40	24 / 30 / 40
	Chain type BT-50 (Opt.)	T	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40	32 / 40 / 48
SPINDLE	Type-CAT/BT/DIN (Opt. HSK)		40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50	40 / 50
	Motor(Other power options)	kW	7.5~11 (11~15)	7.5~11 (11~15)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)	15~18.5 (18.5~22)
	Belt-drive BT-40(Opt.)	rpm	8000 rpm (10000 / 12000 rpm)					8000 rpm (10000 / 12000 rpm)			
	Direct-drive BT-40 (Opt.)	rpm	10000 / 12000 / 15000 rpm					10000 / 12000 / 15000 rpm			
	Build-in spindle(Opt.)	rpm	20000 rpm (BT-40/ HSK-63A)					20000 / 30000 rpm (BT-40/ HSK-E40/50/63)			
	Belt-drive BT-50(Opt.)	rpm	6000 / 8000 rpm					6000 / 8000 rpm			
	Direct-drive BT-50 (Opt.)	rpm	8000/10000 rpm					8000 / 10000 rpm			
MISCELLANEOUS	Power consumption	KVA	35	45	45	45	45	55	55	55	60
	Pneumatic supply	kg/cm^2	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5	5.5~6.5
	Coolant tank capacity	L	367	510	560	560	560	650	650	650	650
	Machine weight	kg	6800	7800	11000	12000	13000	20000	23000	27000	30000
	Floor space requirement (LxW)	mm	3337 x 2270	3874 x 2389	4556 x 2404	4756 x 2404	6000 x 2804	4900 x 3312	5536 x 3700	5700 x 3700	6000 x 3700
	Floor space requirement (with conveyor) (LxW)	mm	3948 x 2270	4519 x 2389	5316 x 2404	5516 x 2404	6857 x 2404	6059 x 3312	6578 x 3700	6900 x 3700	7300 x 3700

All the product images and specification are for reference only,which is not aictual product. FINETECH reserves the right to modity product images and specification at anytime without prior notice.

STANDARD EQUIPMENT

- 8,000rpm belt type #40 taper spindle
- Spindle chiller
- Rigid tapping
- Spindle bearing air purge
- Z axis motor with brake system
- Guideway covers (X,Y,Z)
- Central lubrication system
- Fully enclosed machining area
- Wash down system
- Safety Door
- Mechanical oil/coolant separator
- LED work light
- Heat exchanger for electrical cabinet
- Coolant pump
- Spindle coolant nozzle system
- Auxiliary coolant gun
- Cutting air blast
- Auxiliary air gun
- Tool kit
- 3-color beacon light
- Leveling blocks & bolts
- Auto interrupt & power off system (M30)
- Portable hand wheel
- CNC control manuals, Operation manual, Maintenance manual
- Inspection report (CD format)

OPTIONAL ACCESSORIES

- Coolant Through Spindle (20-70Bar)
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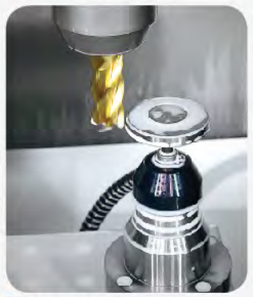
Optional Equipment

RENISHAW
(OMP 40/60)

BLUM (TC 50)

HEIDENHAIN
(TS 640)

RENISHAW (TS27R)



BLUM (Z3D)

HEIDENHAIN
(TT 160)

RENISHAW (NC-4)

BLUM (NT)

CTS-Coolant Through
Spindle

20/40/60/70 BAR

Spindle Oil Cooler

Oil Skimmer

Work Piece Measuring System	
	RENISHAW (OMP 40/60)
	BLUM (TC 50)
	HEIDENHAIN (TS 640)

Tool Measuring System	
	RENISHAW (TS27R)
	BLUM (Z3D)
	HEIDENHAIN (TT 160)
	RENISHAW (NC-4)
	BLUM (NT)

CTS-Coolant Through Spindle	
	20 BAR
	50 BAR
	60 BAR
	70 BAR
	120 BAR

Transformer

HEIDENHAIN Linear
Scale

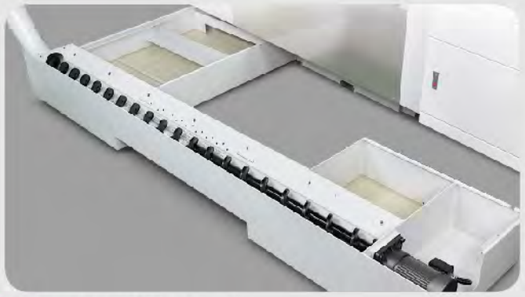
HEIDENHAIN
Rotary Encoder

Gear Box

4th Axis Rotary Table

4/5th Axis Rotary Table

Chain Type Chip Conveyor



Screw Type Chip Auger

All Of Matching Checklist					
	HEIDENHAIN Linear Scale		4/5th Axis Rotary Table		Screw Type Chip Auger
	Built-in Coolant Nozzles		HEIDENHAIN Rotary Encoder		
	Oil Skimmer		Gear Box		
	Spindle Oil Cooler		Transformer		
	4th Axis Rotary Table		Chain Type Chip Conveyor		

Memo

Memo