

SENFENG



Machine

VERTICAL MACHINING CENTER

SF-VL855/SF-VL1160/SF-VL1370/SF-VL1690/SF-VL1890

GANTRY MACHINING CENTER

SF-DT2220/SF-DT3220/SF-DT6237/SF-DT8542/SF-DT8542/SF-DZ16562

FLAT BED CNC LATHE

SF-CK6140/SF-CK6150/SF-CK6180/SF-CK61125/SF-CK61160

SLANT BED CNC LATHE

SF-TCK40/SF-TCK56/SF-TCK70/SF-TCK80/SF-TCK600S
SF-TCK6050/SF-TCK6350B

VERTICAL CNC LATHE

SF-VTC50/SF-VTC60/SF-VTC80/SF-VTC80A/SF-VTC100A

HORIZONTAL MACHINING CENTER

SF-H50S/SF-HD63/SF-HD80/SF-HD100/SF-HD125

SENFENG Introduction

SENFENG is a global metal processing equipment enterprise, aiming to provide metal processing automation solutions for global users. It has mastered a number of core technologies, integrating cutting, bending, welding, cladding, automation, new energy, and CNC Milling Machines, and has become a technologically innovative enterprise in the development of the whole metal processing industry chain. Senfeng is deeply cultivating the global market and laying out the globalization strategy. At present, we have set up subsidiaries and service centers in Germany, the United States, the United Arab Emirates, India, Pakistan, Vietnam, Jordan and

other countries, and our products are sold to more than 100 countries and regions all over the world. Our products are widely used in the manufacture of precision parts and components in the fields of automotive parts, construction machinery, bridge construction templates, assembled buildings, special transformer transmission towers, coal mining and petrochemical equipment, etc. With green metal processing solutions, we meet the global manufacturing industry's demand for low-carbon and environmentally friendly development, and promote the industry's production efficiency and industrial upgrading.

VERTICAL MACHINING CENTER SERIES

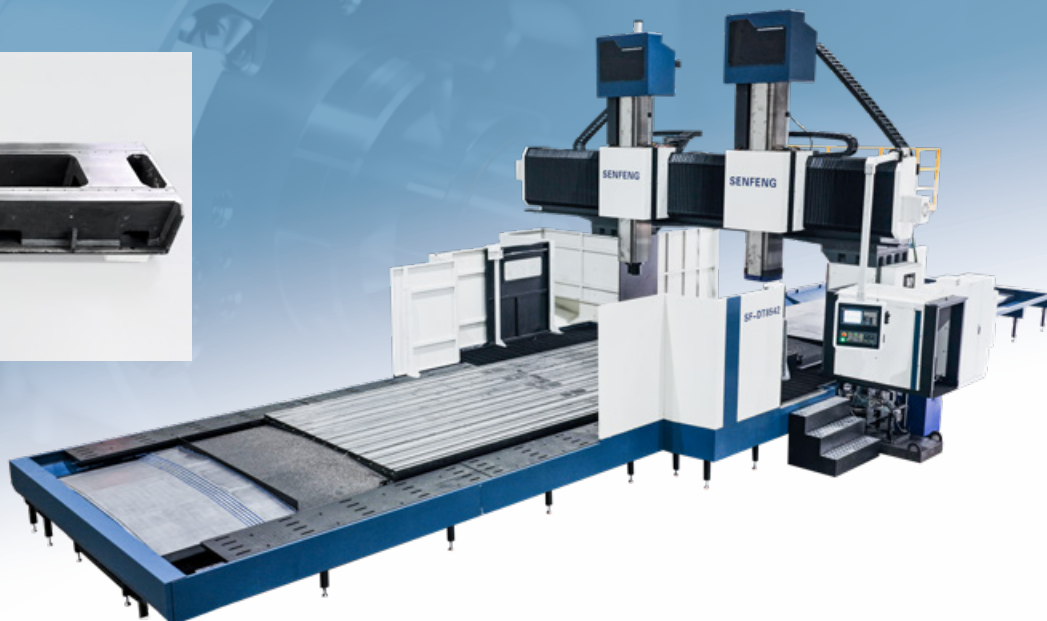
- Linear Guideway
- Automatic Tool Change System
- CNC System
- High Speed, High Precision



Main Specifications and Parameters Table

Item		Unit	SF-VL640	SF-VL855	SF-VL1160	SF-VL1370	SF-VL1690	SF-VL1890
Travel	X/Y/Z Axis	mm	600/360/450	800/550/550	1100/600/600	1300/700/700	1600/900/700	1800/900/600
	Spindle nose To worktable	mm	100-550	120-670	120-720	110-810	150-850	115-715
	Spindle center to Column guide rail	mm	410	590	650	750	910	950
Spindle	Spindle speed	rpm	8000	8000	8000	8000	6000	6000
	Taper hole		BT40	BT40	BT40	BT40	BT50	BT50
	Motor power	kW	5.5	11	11	11	18.5	18.5
Worktable	Size	mm	800*300	1000*550	1200*600	1400*700	1600*800	2000*900
	Maximum load	kg	300	600	800	1000	1500	1600
Tool Magazine	Tool holder		BT40	BT40	BT40	BT40	BT50	BT50
	Capacity	T	16	24	24	24	24	24
	Maximum tool diameter	mm	78	78	78	78	112	112
	(No adjacent tools)		120	120	120	120	220	220
	Max. Tool length	mm	300	300	300	300	350	350
	Max. Tool weight	kg	8	8	8	8	15	15
Speed	X/Y/Z Rapid traverse speed	m/min	24/24/20	24/24/20	24/24/20	24/24/18	15/15/12	15/15/12
	Cutting feed speed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
Others	Machine weight	T	3	5.2(±5%)	6.5 (±5%)	8 (±5%)	12(±5%)	14(±5%)
	Power supply	kVA	15	15	20	20	30	30
	T-slot		3*16*90	5*18*90	5*18*100	7*18*122	7*22*110	5*22*165
	Overall dimensions (L*W*H)	mm	1900*1700*2100	2700*2250*3000	3300*2250*2800	3800*3400*3000	4200*3262*3672	5000*3000*2900

GANTRY MACHINING CENTER SERIES



Main Specifications and Parameters Table

Item		Unit	SF-DT2220	SF-DT3220	SF-DT4225	SF-DT6237	SF-DT8542	SF-DZ16562
Processing Range	Maximum Travel - X-Axis	mm	2200	3200	4200	6200	8500	16500
	Maximum Travel - Y-Axis	mm	2200	2200	2700	4200	4400	6800
	Maximum Travel - Z-Axis	mm	1000	1000	1000	1500	1500	1500
	Distance From Spindle Nose to Table Surface	mm	200-1200	200-1200	200-1200	300-1800	300-1800	300-1800
	Distance between columns	mm	2000	2000	2500	3700	4200	6200
Spindle	Spindle Speed	rpm	6000	6000	6000	6000	6000	6000
	Taper Hole		BT50	BT50	BT50	BT50	BT50	BT50
	Motor Power	kW	18.5	18.5	18.5	22	22	22
	Ram section	mm	Model T hard rail (OPT400*400)	Model T hard rail (OPT400*400)	Model T hard rail (OPT400*400)	500*500	500*500	500*500
Worktable	Size	mm	1700*2000	1700*3000	2000*4000	3000*6000	3000*8000	5000*16000
	Maximum Load	kg	5000	10000	15000	25000	25000	8000
Speed	Rapid Speed X-Axis	m/min	10	10	10	10	8	6
	Rapid Speed Y-Axis	m/min	10	10	10	10	10	8
	Rapid Speed Z-Axis	m/min	8	8	8	8	6	6
Processing Accuracy	Positioning Accuracy	mm	0.02	0.02	0.025	0.03	0.035	0.063
	Repeat Positioning Accuracy	mm	0.015	0.015	0.02	0.02	0.025	0.035
Others	Power Supply	kVA	80	80	80	100	100	150
	Compressed air source	Mpa	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8
	Overall dimensions (L×W×H)	mm	6000*4000*5000	6000*4000*5000	10700*5200*5600	16000*6600*6400	20000*7600*6700	26000*11000*7600

FLAT BED CNC LATHE SERIES

- Quenched Guide Rail
- Electric Turret
- CNC System
- Flat Bed



Main Specifications and Parameters Table

	Item	Unit	SF-CK6140	SF-CK6150	SF-CK6180	SF-CK61125	SF-CK61160
Processing Range	Swing over bed	mm	Φ400	Φ500	Φ800	Φ1350	Φ1700
	Swing over cross slide	mm	Φ200	Φ275	Φ485	Φ850	Φ1100
	Distance between centers	mm	750/1000	1000-2000	1000-4000	1500-8000	1500-5000
	Max. Machining diameter	mm	Φ400	Φ500	Φ800	Φ1250	Φ1600
	Bed frame guide rail width	mm	360	400	600	800	1100
	Diameter of the chuck	mm	200 Three-Jaw Manual Chucks	250 Three-Jaw Manual Chucks	Φ630 Four-jaw single-action type	Φ1000 Four-jaw single-action	Φ1250 Four-jaw single-action
Spindle	Spindle type		A2-6	A2-8	A2-11	A2-15	A2-15
	Spindle speed range	r/min	50-2000	60-1600	10-950	10-350	10-315
	Number of speed Change stages		CVT	Manual 3 steps	Manual 3 steps	Manual 4 steps	Manual 4 steps
	Spindle hole diameter	mm	Φ52	Φ82	Φ105	Φ130	Φ130
	Spindle hole taper		MT 5	MT 6	Φ120 1:20	/	/
Feed	X-axis travel	mm	220	250	420	900	1400
	Z-axis travel	mm	750/1000	1000/2000	1000-4000	1500-8000	1500-5000
	X/Z-axis rapid Traverse speed	mm/min	6000/8000	6000/8000	4000/6000	4000/6000	4000/6000
	X/Z-axis ball screws	mm	Φ20/Φ40	Φ25/Φ40	Φ32/Φ63	Φ50/Φ80	Φ50/Φ80
Turret	Tool holder type		Electric Vertical				
	No. Of tools		4	4	4	4	4
	Tool size	mm	20*20	25*25	32/Φ40	40*40	40*40
Tailstock	Tailstock quill diameter/Travel	mm	Φ65/140	Φ75/100	Φ140/250	Φ160/300	Φ180/300
	Tailstock spindle taper		MT4	MT5	MT6	1:20 Φ80mm	1:20 Φ80mm
	Screw quill movement form		Manual	Manual	Manual	Manual	Manual
	Tailstock movement form		Manual	Manual	Manual	Manual	Manual
Motor	Spindle motor powe	kW	5.5	7.5	11	22	55
	X/z-axis motor torquer	N.m	5/5	5/7.5	15/15	18/22	18/22

SLANT BED CNC LATHE SERIES

- Linear Guideway
- Horizontal Servo Turret
- CNC System
- Slant Bed



Main Specifications and Parameters Table

Item		Unit	SF-TCK 40	SF-TCK 56	SF-TCK 70	SF-TCK 80	SF-TCK 600S	SF-TCK 6050	SF-TCK 6350B
Processing Range	Swing over bed	mm	Φ450	Φ560	Φ720	Φ850	Φ600	Φ560	Φ630
	Swing over cross slide	mm	Φ125	Φ330	Φ420	Φ550	Φ380	Φ380	Φ370
	Maximum cutting length	mm	325	500	1000	1500	500	550	500
	Max. Machining diameter (Disk type)	mm	Φ120	Φ350	Φ500	Φ750	Φ550	Φ500	Φ480
	Standard. Machining diameter (Axes)	mm	Φ120	Φ280	Φ380	/	Φ430	Φ320	/
Spindle (Integral Spindle Units)	Spindle type		A2-5	A2-6	A2-11	A2-11	A2-8	A2-6	A2-8
	Spindle bore diameter	mm	Φ52	Φ65	Φ80	Φ120	Φ80	Φ65	Φ96
	Max. through-bar diameter	mm	Φ40	Φ50	Φ70	Φ105	Φ70	Φ50	Φ85
	Spindle speed range	r/min	35-3000	50-4000	1600	30-1300	50-3000	50-4000	50-4500
	Main motor power	kW	5.5	11/15	18.5/22	15/18.5	15/18.5	11/15	15/18.5
	Rated output torque	N.m	35	177	354	573	255	157	210
	Chuck size	inch	6	8	12	12	10	8	10
Feed	X-axis travel	mm	900	200	270	385	300	275	270
	Z-axis travel	mm	325	530	1020	1600	550	680	690
	X/Z rapid traverse speed	m/min	20/20	30/30	15/15	10/12	12/12	15/15	15/15
Turret	Tool holder type		Gang	Horizontal Servo Turret					
	No. Of tools		3	8	12	12	12	12	12
	Square tool holder	mm	20*20	25*25	32*32	32*32	32*32	25*25	32*32
	Boring bar diameter	mm	Φ25	Φ40	Φ50	Φ50	Φ50	Φ40	Φ50
	Can select tools from the nearest position		/	Yes	Yes	Yes	Yes	Yes	Yes
Tailstock	Tailstock quill travel	mm	/	/	/	/	/	100	100
	Tailstock spindle taper	MT	/	5#	5#	5#	/	5#	5#
	Tailstock travel	mm	/	450	900	1500	/	500	500

VERTICAL CNC LATHE SERIES

- Reliability
- Excellent Machining Capability
- High Productivity
- Convenient Tool Change

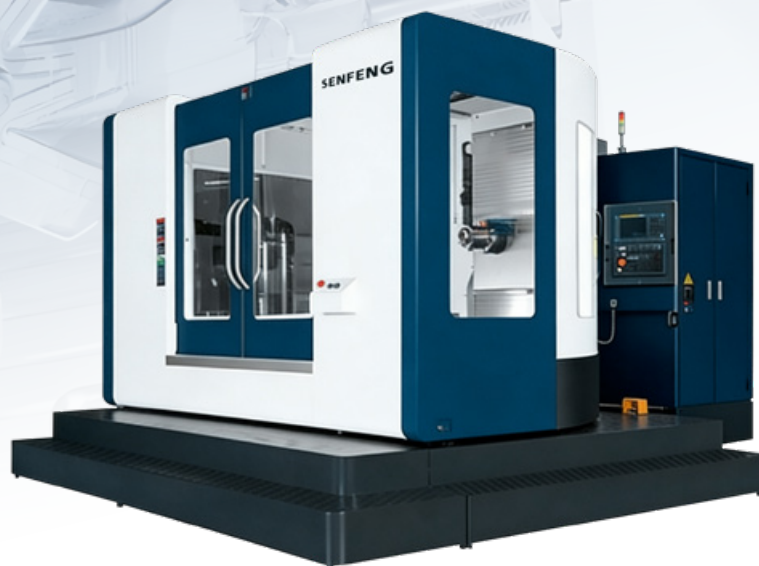


Main Specifications and Parameters Table

Item		Unit	SF-VTC50	SF-VTC60	SF-VTC80	SF-VTC80A	SF-VTC100A
Processing Range	Swing over bed	mm	Φ650	Φ650	Φ850	Φ1000	Φ1250
	Maximum Cutting Length	mm	500	500	850	850	1000
	Max. Machining Diameter	mm	Φ500	Φ600	Φ800	Φ800	Φ1000
Spindle	Spindle Type		A2-8	A2-11	A2-11	A2-11	A2-11
	Spindle Speed Range	r/min	100-1000	100-1000	50-800	50-800	50-800
	Main motor power	kW	18.5	18.5	22	22	22
	Rated output torque	N.m	470	470	560	1120	1120
	chuck size	inch	15	21	24	24	32
Feed	X-axis Travel	mm	500	425	700	670	850
	Z-axis Travel	mm	500	600	850	850	1000
	X/Z Rapid Traverse Speed	m/min	15/15	15/15	15/15	15/15	15/15
Turret	Tool Holder Type		Horizontal hydraulic 8 stations servo Turret				
	No. Of Tools		8	8	8	8	8
	Square Tool Holder	mm	32*32	32*32	32*32	32*32	32*32
	Boring Bar Diameter	mm	Φ50	Φ50	Φ50	Φ50	Φ50
	can select tools from the nearest position		Yes	Yes	Yes	Yes	Yes

HORIZONTAL MACHINING CENTER SERIES

- High Precision
- Stability
- High Productivity
- Spatial efficiency



Main Specifications and Parameters Table

Item		Unit	SF-H50S	SF-HD63	SF-HD80	SF-HD100	SF-HD125
Processing Range	Travel range of X-Axis	mm	800	1050	1600	1600	2400
	Travel range of Y-Axis	mm	600	750	900	1000	1600
	Travel range of Z-Axis	mm	600	900	900	1000	1600
	Dis.from spindle center to table surface	mm	40-640	120-870	0-900	120-1120	140-1740
	Dis.from spindle nose to table center	mm	158-758	130-1030	130-1030	200-1200	350-1950
Spindle	Spindle taper		BT50	BT50	BT50	BT50	BT50
	Spindle Speed Range	r/min	6000	6000	5300	6000	6000
	Main motor power	kW	18.5	18.5	18.5	18.5	18.5
Worktable	table size	mm	500×600	630×700	800×800	1000×1000	1250×1250
	Maximum turning diameter	mm	800	1400	1800	2000	3200
	Maximum load capacity	kg	1000	1000	2000	4000	6000
	Min.increment		1°	1°	1°	1°	1°
Tool magazin	Taper size		BT50	BT50	BT50	BT50	BT50
	tool magazine Capacity	mm	30	30	30	30	40
	Max.tool diameter	mm	112	112	112	112	112
	Max.tool length	mm	300	350	350	350	350
Feed	Max.tool weight	kg	18	18	18	18	25
	X-Axis Rapid Speed	m/min	30	30	24	24	18
	Y-Axis Rapid Speed	m/min	30	30	24	24	18
	Z-Axis Rapid Speed	m/min	30	30	24	24	18
	Cutting feed speed	mm/min	10-10000	10-10000	10-10000	10-10000	10-10000
Others	Machine weight	kg	8500	14000	13500	19000	25000
	Floor space	mm	4200*3000	5300*3700	5600*4000	6000*4900	7700*6000
	Power source required	KVA	30	35	35	40	50
	Air source required	kg/cm ²	6	6	6	6	6



JINAN SENFENG LASER TECHNOLOGY CO., LTD.

📍 No. 1777 Kejia Road, High-tech Zone, Jinan City, Shandong Province, PRC

☎ +86 132 1054 6543 ✉ senfeng@sfcnclaser.com

🌐 www.senfenglaser.com

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