

SFLC40 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC40 series are the kind of economical, practical machining lathes, with mature structures of products, stable functions and quality. The lathes are widely used for machining in automobile industry, petroleum industry, and military industry and so on. This series CNC lathes are with complete models and specifications can be used in machining inside and outside, surfaces of axes and discs, taper surfaces arc surfaces, threads, and boring holes, teaming holes, as well as machining noncircular curved surfaces, different control systems such as Fanuc, Siemens and equipment like hydraulic chuck, tailstock etc. are optional according to the requirements of customers.

Features

- Single spindle headstock combined with variable frequency spindle motor can meet the most cutting requirements
- The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret etc.
- Variable CNC controller can be selected Fanuc, Siemens, and etc.
- Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
- Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil
- It is quick and convenient to operate under the mechanical, electrical and hydraulic control over the headstock.

Technical specifications

Item	Unit	SFLC40
Max. swing diameter over bed	mm	ø400
Max swing diameter over slide	mm	ø200
Max cutting diameter over slide	mm	ø200
Max turning length	mm	4-station 850/6-station 750
Diameter of spindle bore	mm	ø53
Form of spindle nose		A6
Main motor power (frequency-change)	kw	7.5
Spindle speed	r/min	200-2400(manual chuck 1600)
Diameter of tailstock sleeve	mm	ø60
Travel of tailstock sleeve	mm	140
Taper bore of tailstock sleeve		Morse 4
Max. travel of X-axis	mm	220
Max. travel of Z-axis	mm	4-station 850/6-station 750
Rapid speed (X/Z-axis)	m/min	6/10
Number of tools in turret		4
Cross section of tool shank	mm	20×20
X/Z-axis repeatability		0.01/0.013
Machining accuracy		IT6-IT7
Steady rest	mm	ø30-ø80 (optional)
Following rest		ø30-ø80 (optional)
Total capacity of power supply	KVA	15
Overall external dimensions of machine	mm	2490×1360×1510
Net/ Gross weight of machine	kg	1990/2290
Packing size (L×W×H)	mm	2770×1660×2200

Standard Accessories

1. Fanuc 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Single spindle structure
5. Step less speed change
6. Manual 3-jaw chuck φ200mm
7. Vertical 4-position automatic turret
8. Manual tailstock
9. Heat exchanger for electrical cabinet
10. Full- enclosed cover
11. Transformer
12. Tool kits
13. Instruction manual book
14. 380v/50hz/3ph
15. Grey and white color

Optional Accessories

1. Siemens 802D
2. Hydraulic hollow chuck 8"
3. Hydraulic tailstock
4. Hydraulic station
5. Horizontal 6 position turret
6. Variable voltage 220v/400/600v, 50Hz or 60Hz can be supplied



SFLC50 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC50 series are the kind of economical, practical machining lathes, with mature structures of products, stable functions and quality. The lathes are widely used for machining in automobile industry, petroleum industry, and military industry and so on. This series CNC lathes are with complete models and specifications can be used in machining inside and outside, surfaces of axes and discs, taper surfaces arc surfaces, threads, and boring holes, teaming holes, as well as machining noncircular curved surfaces. Such lathe has an AC frequency motor with inverter drive to realize auto change among the 3 steps.

Features

1. Gear box in headstock make the machine with high cutting force
2. Automatic change of speed grade among the 3 steps by the CNC control
3. The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret etc.
4. Variable CNC controller can be selected Fanuc or Siemens
5. Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
6. Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil

Technical specifications

Item		Unit	SFLC50
Max. swing over bed		mm	500
Width of guide way		mm	400
Max. work piece length		mm	640 890 1390 1900
Max. cutting length		mm	600 850 1350 1860
Max. cutting dia.	With vertical tool-post	mm	500(vertical, 4-station)360(vertical, 6-station)
Max. swing over slide		mm	300
Max. cutting dia.	With horizontal tool-post	mm	400
Max. swing over slide		mm	280
Spindle nose		mm	A8
Chuck	Manual		Ø250●
	Pneumatic		Ø250★
	Hydraulic		Ø250★
Inner taper of spindle nose			1:20
Spindle bore diameter		mm	70
Spindle speed	Variable frequency motor		Auto 3 step; step less speed change
Spindle speed range	Variable frequency motor	r/min	22-220 71-710 215-2200
Main power	Variable frequency motor	kW	7.5
Center height	From bed	mm	250
	From ground	mm	1130
Tool post rapid speed X/Z axis		m/min	10/5
Time for indexing turret one step/full step		s	2.4(vertical, 4-station) 2.2(vertical6-station) 1.6(horizontal, 6-station)
Repeatability accuracy of Tool post positioning		"	1.5 (vertical 4 turret);2 (Horizontal 6 turret)
Stroke of X axis		mm	250
Stroke of Z axis		mm	600 850 1350 1860
Work piece accuracy			IT6-IT7
Surface roughness		µm	Ra1.6
Dia. of tail stock sleeve/stroke of tailstock sleeve		mm	75/150
Bore taper of tailstock sleeve		mm	Morse 5
Mode of tool post	Vertical 4-station		●
	Vertical 6-station		★
	Horizontal 6-station		★
Size of tool shank	OD	mm	Ø25×25
	ID	mm	Ø32, Ø25
Power of general power supply		kW	15
Max. loading weight (disc type)		kg	600
Max. loading weight (shaft type)		kg	1300 1500 1600 1700
Weight of machine(NW/GW)	640	kg	2100/4160
	890	kg	2300/4590
	1390	kg	2600/5400
	1900	kg	2900/3500
Dimension of case(LXWXH)	640	mm	3200×2150×2160
	890	mm	3450×2150×2160
	1390	mm	3950×2150×2185
	1900	mm	4450×2150×2185

● Standard accessories ★ Optional accessories

Standard accessories

1. Fanuc 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 3-jaw chuck φ250mm
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional accessories

1. Siemens 802D CNC controller
2. Hydraulic solid chuck 10"
3. Hydraulic solid chuck 12"
4. Hydraulic hollow chuck 10"
5. Hydraulic hollow chuck 12"
6. Hydraulic tailstock
7. Hydraulic station
8. Horizontal 6 position turret
9. Vertical 6 position turret
10. Steady rest 20mm-120mm roller type
11. Bigger steady rest 140mm-210mm roller type
12. Follow rest 20mm-90mm
13. Manual pulse generator
14. Main 11kw motor
15. Hard jaw 10"
16. Hard jaw 12"
17. CE/UL/CSA electrical components can be supplied
18. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied



SFLC61 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC61 series are the kind of economical, practical machining lathes, with mature structures of products, stable functions and quality. The lathes are widely used for machining in automobile industry, petroleum industry, and military industry and so on. This series CNC lathes are with complete models and specifications can be used in machining inside and outside, surfaces of axes and discs, taper surfaces arc surfaces, threads, and boring holes, teaming holes, as well as machining noncircular curved surfaces. Such lathe has an AC frequency motor with inverter drive to realize auto change among the 3 steps.

Features

1. Gear box in headstock make the machine with high cutting force
2. Automatic change of speed grade among the 3 steps by the CNC control
3. The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret etc.
4. Variable CNC controller can be selected Fanuc or Siemens.
5. Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
6. Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil

Technical specifications

Item	Unit	SFLC61	
Max. swing over bed	mm	610	
Width of guide way	mm	400	
Max. work piece length	mm	640 890 1390 1900	
Max. cutting length	mm	600 850 1350 1860	
Max. cutting dia.	mm	610(vertical, 4-station)480(vertical, 6-station)	
Max. swing over slide	mm	370	
Max. cutting dia.	mm	500	
Max. swing over slide	mm	350	
Spindle nose	mm	A8	
Chuck	Manual	φ250●	
	Pneumatic	φ250★	
	Hydraulic	φ250★	
Inner taper of spindle nose		1:20	
Spindle bore diameter	mm	70	
Spindle speed	Variable frequency motor	Auto 3 step; stepless speed change	
Spindle speed range	r/min	22-220 71-710 215-2200	
Main power	kw	7.5	
Center height	From bed	305	
	From ground	1185	
Tool post rapid speed X/Z axis	m/min	10/5	
Time for indexing turret one step/full step	s	2.4(vertical, 4-station) 2.2(vertical6-station) 1.6(horizontal, 6-station)	
Repeatability accuracy of Tool post positioning	"	1.5 (vertical 4 turret);2 (Horizontal 6 turret)	
Stroke of X axis	mm	305	
Stroke of Z axis	mm	600 850 1350 1860	
Work piece accuracy		IT6-IT7	
Surface roughness	µm	Ra1.6	
Dia. of tail stock sleeve/stroke of tailstock sleeve	mm	75/150	
Bore taper of tailstock sleeve	mm	Morse 5	
Mode of tool post	Vertical 4-station	●	
	Vertical 6-station	★	
	Horizontal 6-station	★	
Size of tool shank	OD	□25×25	
	ID	φ32, φ25	
Power of general power supply	kw	15	
Max. loading weight (disc type)	kg	600	
Max. loading weight (shaft type)	kg	1300 1500 1600 1700	
Weight of machine(NW/GW)	640	kg	2200/4260
	890	kg	2400/4690
	1390	kg	2700/5500
	1900	kg	3000/3600
Dimension of case(LXWXH)	640	mm	3200×2150×2160
	890	mm	3450×2150×2160
	1390	mm	3950×2150×2185
	1900	mm	4450×2150×2185

● Standard accessories ★ Optional accessories

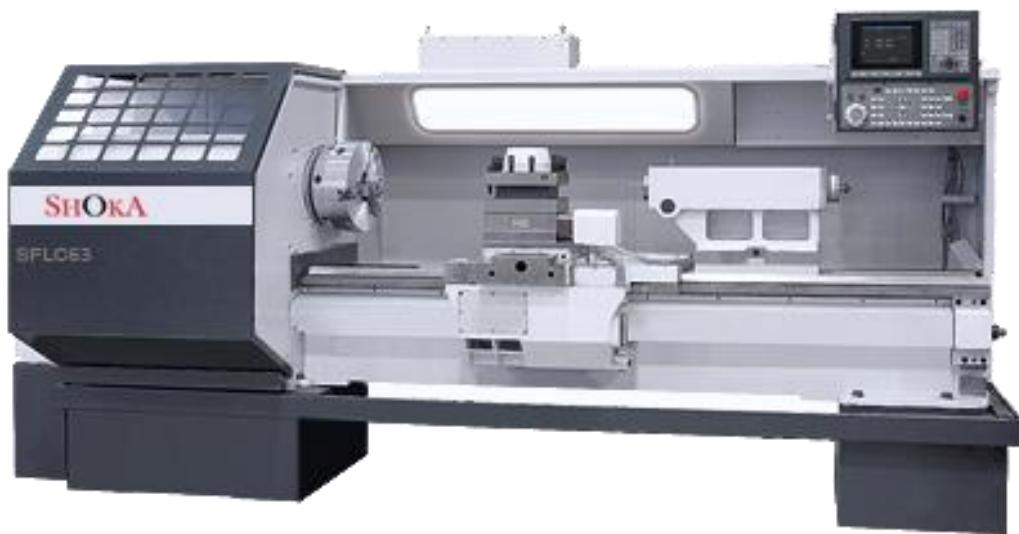
Standard accessories

1. FANUC 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 3-jaw chuck φ250mm
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full- enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional accessories

1. Siemens 802D CNC controller
2. Hydraulic solid chuck 10"
3. Hydraulic solid chuck 12"
4. Hydraulic hollow chuck 10"
5. Hydraulic hollow chuck 12"
6. Hydraulic tailstock
7. Hydraulic station
8. Horizontal 6 position turret
9. Vertical 6 position turret
10. Steady rest 20mm-120mm roller type
11. Bigger steady rest 140mm-210mm roller type
12. Follow rest 20mm-90mm
13. Manual pulse generator
14. Main 11kw motor
15. Hard jaw 10"
16. Hard jaw 12"
17. CE/UL/CSA electrical components can be supplied
18. Variable voltage 220v/400/600v, 50Hz or 60Hz can be supplied



SFLC63 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC63 series integrate proven structure, stable functionality, and reliable quality to make an economical, practical, universal machine; they are widely used in such industries as automotive, petroleum, military. This series have a wide range of applications, and can be used to machine inside or outside surfaces of shaft-type work-pieces and disc type work pieces, curved surfaces, arcs, threads, bores, and reaming holes.

Features

1. Flat-VE hardened guide ways with the undersides of slides coated with TSF anti-friction material for flexible operation and stable and reliable accuracy
2. Gear box in headstock make the machine with high cutting force
3. Automatic change of speed grade among the 4 steps by the CNC control
4. The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret or 8 position turret etc.
5. Variable CNC controller can be selected Fanuc or Siemens.
6. Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
7. Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil
8. The feed system used ball screws with high accuracy drives and directly-coupled motors to eliminate error due to backlash of screws, gears or belts.

Technical specifications

Item	Unit	SFLC63
Max. swing over bed	mm	630
Width of guideway	mm	550
Max. work piece length	mm	750/1500/3000
Max. cutting length	mm	600/1350/2850 (vertical 4 position turret))
Max. cutting dia.	mm	630
Max. swing over slide	mm	350
Max. cutting dia.	mm	500(horizontal, 6-station) 410(horizontal, 8-station)
Max. swing over slide	mm	350(horizontal, 6-station) 310(horizontal, 8-station)
Spindle nose	mm	D11
Chuck	Manual	ø325●
	Hydraulic	ø304★
Inner taper of spindle nose		1:20
Spindle bore diameter	mm	104
Spindle speed	Variable frequency motor	Auto 4 step; stepless speed change
Spindle speed range	Variable frequency motor	r/min 17-128; 38-278; 75-570; 170-1000
Main power	Variable frequency motor	kw 11
Center height	From bed	mm 315
	From ground	mm 1110
Tool post rapid speed X/Z axis	m/min	4/8
Time for indexing turret one step/full step	s	3.9(vertical, 4-station) 3.6(vertical, 6-station) 1.7(horizontal, 6-station) 1.6(horizontal, 8-station)
Repeatability accuracy of Tool post positioning	"	1.5 (vertical turret); 2 (Horizontal turret)
Stroke of X axis	mm	320
Stroke of Z axis	mm	600 1350 2850
Work piece accuracy		IT6-IT7
Surface roughness	µm	Ra1.6
Dia. of tail stock sleeve/stroke of tailstock sleeve	mm	100/250
Bore taper of tailstock sleeve	mm	Morse 5
Mode of tool post	Vertical 4-station	●
	Vertical 6-station	★(without taistock)
	Horizontal 6-station	★
	Horizontal 8-station	★
Size of tool shank	OD	□32×32
	ID	ø32
Power of general power supply	kW	22
Max. loading weight (disc type)	kg	800
Max. loading weight (shaft type)	kg	1500/2000/2500
Weight of machine(NW/GW)	750	kg 3900/4550
	1500	kg 4000/4800
	3000	kg 6000/7100
Dimension of case(LXWXH)	750	mm 3040×2070×2310
	1500	mm 4100×1980×2370
	3000	mm 5340×2080×2430

● Standard accessories ★ Optional accessories

Standard Accessories

1. FANUC 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 3-jaw chuck φ250mm
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional Accessories

1. Siemens 802d CNC Controller
2. Solid Hydraulic Chuck 12"
3. Hollow Hydraulic Chuck 12"
4. Solid Hydraulic Chuck 15"
5. Hollow Hydraulic Chuck 15"
6. Hydraulic Tailstock
7. Hydraulic Station
8. Steady Rest 20mm-170mm
9. Steady Rest 80mm-250mm
10. Follow Rest 20mm-110mm
11. Follow Rest 100mm-150mm
12. Horizontal 6-Position Tool Turret
13. Horizontal 8-Position Tool Turret
14. Vertical 6-Position Turret(Without Tailstock)
15. Manual 3-Jaw Chuck 400mm
16. Manual 3-Jaw Chuck 500mm
17. Manual 4-Jaw Chuck 400mm
18. Manual 4-Jaw Chuck 500mm
19. Hard Jaw 12"
20. Hard Jaw 15"
21. CE/UL/CSA electrical components can be supplied
22. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied

SFLC80 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC80 series integrate proven structure, stable functionality, and reliable quality to make an economical, practical, universal machine; they are widely used in such industries as automotive, petroleum, military. This series have a wide range of applications, and can be used to machine inside or outside surfaces of shaft-type work-pieces and disc type work pieces, curved surfaces, arcs, threads, bores, and reaming holes.

Features

1. Flat-VE hardened guideways with the undersides of slides coated with TSF anti-friction material for flexible operation and stable and reliable accuracy
2. Gear box in headstock make the machine with high cutting force
3. Automatic change of speed grade among the 4 steps by the CNC control
4. The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret or 8 position turret etc.
5. Variable CNC controller can be selected Fanuc or Siemens.
6. Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
7. Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil
8. The feed system used ball screws with high accuracy drives and directly-coupled motors to eliminate error due to backlash of screws, gears or belts.

Technical specifications

Item	Unit	SFLC80
Max. swing over bed	mm	800
width of guide way	mm	600
Max. work piece length	mm	1500/3000/5000
Max. cutting length	mm	1350/2850/4850 (vertical 4 position turret))
Max. cutting dia.	mm	800
Max. swing over slide	With vertical tool-post	480
Max. cutting dia.	With horizontal tool-post	600(horizontal, 6-station)
Max. swing over slide	With horizontal tool-post	440(horizontal, 8-station)
Spindle nose	mm	D11
Chuck	Manual	ø325•
	Hydraulic	ø304 or 381★
Inner taper of spindle nose		1:20
Spindle bore diameter	mm	104
Spindle speed	Variable frequency motor	Auto 4 step; step less speed change
Spindle speed range	r/min	17-100; 38-222;76-445; 180-1000
Main power	kW	15
Center height	From bed	400
	From ground	1130
Tool post rapid speed X/Z axis	m/min	4/8
Time for indexing turret one step/full step	s	3.9(vertical, 4-station) 3.6(vertical, 6-station) 1.7(horizontal, 6-station) 1.6(horizontal, 8-station)
Repeatability accuracy of Tool post positioning	"	1.5 (vertical turret);2 (Horizontal turret)
Stroke of X axis	mm	420
Stroke of Z axis	mm	1350/2850/4850
Work piece accuracy		IT6-IT7
Surface roughness	µm	Ra1.6
Dia. of tail stock sleeve/stroke of tailstock sleeve	mm	100/250
Bore taper of tailstock sleeve	mm	Morse 5
Mode of tool post	Vertical 4-station	•
	Vertical 6-station	★(without tailstock)
	Horizontal 6-station	★
	Horizontal 8-station	★
Size of tool shank	OD	□32×32
	ID	ø32
Power of general power supply	KVA	22
Max. loading weight (disc type)	kg	800
Max. loading weight (shaft type)	kg	2000/3000/3000
Weight of machine(NW/GW)	1500	5500/6500
	3000	6500/7860
	5000	11000/13700
Dimension of case(LXWXH)	1500	3940×2360×2400
	3000	5540×2360×2400
	5000	7910×2320×2450

• Standard accessories ★ Optional accessories

Standard Accessories

1. Fanuc 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 3-jaw chuck φ250mm
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional Accessories

1. Siemens 802d CNC Controller
2. Solid Hydraulic Chuck 12"
3. Hollow Hydraulic Chuck 12"
4. Solid Hydraulic Chuck 15"
5. Hollow Hydraulic Chuck 15"
6. Hydraulic Tailstock
7. Hydraulic Station
8. Steady Rest 120mm-350mm
9. Steady Rest 100mm-420mm
10. Follow Rest 20mm-140mm
11. Horizontal 6-Position Tool Turret
12. Vertical 6-Position Turret (Without Tailstock)
13. Manual 3-Jaw Chuck 400mm
14. Manual 3-Jaw Chuck 500mm
15. Manual 4-Jaw Chuck 400mm
16. Manual 4-Jaw Chuck 500mm
17. Hard Jaw 12"
18. Hard Jaw 15"
19. CE/UL/CSA electrical components can be supplied
20. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied

SFLC100 series**CNC Flat Bed Lathe machine**

CNC lathes SFLC100 series integrate proven structure, stable functionality, and reliable quality to make an economical, practical, universal machine; they are widely used in such industries as automotive, petroleum, military. This series have a wide range of applications, and can be used to machine inside or outside surfaces of shaft-type work-pieces and disc type work pieces, curved surfaces, arcs, threads, bores, and reaming holes.

Features

1. Flat-VE hardened guide ways with the undersides of slides coated with TSF anti-friction material for flexible operation and stable and reliable accuracy
2. Gear box in headstock make the machine with high cutting force
3. The machine has the flexible configuration, exchange manual chuck to hydraulic chuck, vertical 4 position turret into horizontal 6 position turret or 8 position turret etc.
4. Variable CNC controller can be selected Fanuc or Siemens.
5. Electrical cabinet is well-designed and simple in structure, door has the two points inter lock for safety operation
6. Automatic lubrication system was applicable to keep the guide way with enough and constant lubrication oil
7. The feed system used ball screws with high accuracy drives and directly-coupled motors to eliminate error due to backlash of screws, gears or belts.

Technical specifications

ITEMS	SFLC100
Max. swing over bed	1000MM
Max. swing over cross slide	610MM
Center distance	1400/1900/2900mm
Spindle hole	130MM
Width of bed	755MM
Diameter of tailstock sleeve	160MM
Longitude	530MM
Transverse	1500/2000/3000mm
Spindle speeds (4 steps)	5-500RPM/6040NM (hydraulic automatic three grade change)
Main motor power	22KW
Longitude	6000MM/MIN
Transverse	5000MM/MIN
Tool numbers on tool-post	4
Longitude	0.05MM(Z-AXIS)
Transverse	0.016MM(X-AXIS)
Longitude	0.02MM
Transverse	0.007MM
Floor space (L x W x H) (3m)	5300×2620×2120MM
CNC SYSTEM	FANUC OI-MATE TD
MAIN MOTOR	INVERTOR MOTOR 22KW
BALL SCREWS	THK or Europe brand
STEADY REST	φ50~φ300mm
Chuck size	8000mm

Standard Accessories

1. Fanuc Oi-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 4-jaw chuck800mm
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional Accessories

1. Siemens 802d CNC Controller
2. Solid Hydraulic Chuck 15"
3. Hollow Hydraulic Chuck 15"
4. Hydraulic Tailstock
5. Hydraulic Station
6. Horizontal 6-Position Tool Turret
7. Vertical 6-Position Turret (Without Tailstock)
8. Hard Jaw 15"
9. CE/UL/CSA electrical components can be supplied
10. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied

SFLC series**CNC Flat Bed Lathe machine**

CNC lathes SFLC series integrate proven structure, stable functionality, and reliable quality to make an economical, practical, universal machine; they are widely used in such industries as automotive, petroleum, military. This series have a wide range of applications, and can be used to machine inside or outside surfaces of shaft-type work-pieces and disc type work pieces, curved surfaces, arcs, threads, bores, and reaming holes.

Features

1. The machine can be equipped with FANUC, SIGMENS or NC system, high-reliability because of its STO total line structure, CRT Showing, line and circle interpolation.
2. 2 axle close-circle control. AC servo motor. Semi-closed loop control system. High-strength casting bed with high-frequency chilling and precise grinding.
3. Slide way is glued with low-friction plastics.
4. Spindle with frequenting converter and Infinitely variable speed .(optional)
5. Suited for cutting work pieces which have various shapes and sizes.
6. Loading capacity is 5 to12T

Technical specifications

specifications	SFLC128	SFLC148	SFLC168	SFLC198	SFLC208
Max. swing over bed	1280mm	1480mm	1680mm	1980mm	2080m
Max. swing over cross slide	840mm	1000mm	1240mm	1540mm	1640mm
Center distance			2 -16m		
Spindle hole			130mm		
Width of bed			1100mm		
Diameter of tailstock sleeve			260mm		
Max. distance of moving tool-post					
longitude			600mm		
Transverse			800mm		
Spindle speeds (Number)			4-16,12-48,20-80,50-200rpm		
Main motor power			30kw		
Speed of high-speed movement					
longitude			6000mm/min		
Transverse			3000mm/min		
Tool numbers on tool-post			4 or 6 or 8		
Positioning accuracy					
longitude			0.05mm		
Transverse			0.03mm		
Repeat ability					
longitude			0.025mm		
Transverse			0.012mm		
Repeat ability accuracy of tool-post			0.005mm		
N.W. SFLC168 x 4000mm			22000kg		
all dimension SFLC168/4000mm			7300 x 3000 x 2500mm		

Standard Accessories

1. Fanuc 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 4-jaw chuck
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional Accessories

1. Siemens 802d CNC Controller
2. Solid Hydraulic Chuck 12"
3. Hollow Hydraulic Chuck 12"
4. Solid Hydraulic Chuck 15"
5. Hollow Hydraulic Chuck 15"
6. Hydraulic Tailstock
7. Hydraulic Station
8. Different kind of Steady Rest
9. Horizontal 6-Position Turret
10. Different kind of turret
11. Bigger manual 4-Jaw Chuck
12. Hard Jaw 12"
13. Hard Jaw 15"
14. CE/UL/CSA electrical components can be supplied
15. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied

SFLC series**CNC Flat Bed Lathe machine**

CNC lathes SFLC series integrate proven structure, stable functionality, and reliable quality to make an economical, practical, universal machine; they are widely used in such industries as automotive, petroleum, military. This series have a wide range of applications, and can be used to machine inside or outside surfaces of shaft-type work-pieces and disc type work pieces, curved surfaces, arcs, threads, bores, and reaming holes.

Features

- This machine is suitable for machining ferrous-metal, non-ferrous metal or part non-metal components with carbide alloy or porcelain cutter, on the machine, cylindrical turning and boring, taping, surfacing, curving, slotting, threading as well as drilling can be carried out roughly and finely.
- Main drive is driven by D.C motor through two steps mechanism to reach speeds range for spindle, which is through structure and supported by high-precise double-row short cylindrical rolling bearings with adjustable radial clearance and has best supporting diameter and span because of optimized design so as to improve it is swiveling accuracy and static, dynamic rigid.
- Feed for CNC model is transmitted by A.C servo motor. High- precise ball screw is adopted for transversal movement, high-accurate imported rack with hardened and grinding in longitudinal to make carriage feed and rapid travel. Ball screw is adopted for longitudinal in 5000mm, and by double pinion with allowance eliminating-imported rack for over 5000mm. For universal type, concentrated transmission (by spindle) is adopted to get feed or threading.
- CNC system adopts SIEMENS or FANUC and semi-closed loop control. Other CNC systems can also be selected by customer's requirements.
- According to customer's demands, the followings can be provided that are entire-closed loop control, milling and boring, angle-dividing and feed for main spindle, grinding, cooling device as well as the second carriage and its closed loop control device.

Technical specifications

specifications	SFLC160	SFLC180	SFLC200	SFLC220	SFLC240
Max. swing over bed	1600mm	1800mm	1680mm	2000mm	2200m
Max. swing over cross slide	1250mm	1450mm	1650mm	1850mm	2050mm
Center distance	3m,4m,5m,6m,8m,10m,12m,16m				
Max. weight of piece between center	32/40T				
Width of bed	1600mm				
Headstock					
Spindle bore	85mm				
Spindle taper	$\Phi 120\text{mm}$ taper1:7				
Range of Spindle speeds	0.86~160r/min manual operated gear 3 infinite speed variation (hydraulic)				
Positioning accuracy	0.05mm				
Repeating accuracy	0.03mm				
Fast travel (longitudinal/cross)	4000mm/min,4000mm/min				
Tool rest					
carriage					
Tool section	70x70mm				
Max cross travel of carriage	600mm				
Max. travel of middle tool rest	600mm				
Tailstock					
Dia. Of tailstock quill	300mm				
Taper of tailstock quill	$\Phi 100\text{mm}$ taper 1:7				
Max. travel of tailstock quill	300mm				
Steady rest					
Close- type steady rest	$\Phi 400\text{-}750\text{mm}$				
Open- type steady rest	$\Phi 650\text{-}1200\text{mm}$				
Motor					
Main motor	80kw (DC)				
Fast feeding motor	1.5kw				
Fast feeding motor in tailstock	1.5kw				

Technical specifications

specifications	SFLC160	SFLC180	SFLC200	SFLC220	SFLC240
Max. swing over bed	1600mm	1800mm	2000mm	2200	2200m
Max. swing over cross slide	1250mm	1450mm	1650mm	1850	2050mm
Center distance	3m,4m,5m,6m,8m,10m,12m,16m				
Max. weight of piece between center	63/80T				
Width of bed	2100mm				
Headstock					
Spindle bore	85mm				
Spindle taper	$\Phi 120$ mm taper 1:7				
Range of Spindle speeds	0.625~125r/min manual operated gear 3 infinite speed variation (hydraulic)				
Positioning accuracy	0.05mm				
Repeating accuracy	0.03mm				
Fast travel (longitudinal/cross)	4000mm/min,4000mm/min				
Tool rest					
carriage					
Tool section	70x70mm				
Max cross travel of carriage	900mm				
Max. travel of middle tool rest	600mm				
Tailstock					
Dia. Of tailstock quill	500mm				
Taper of tailstock quill	$\Phi 160$ mm taper 1:7				
Max. travel of tailstock quill	300mm				
Steady rest					
Close- type steady rest	$\Phi 400$ -750mm				
Open- type steady rest	$\Phi 650$ -1200mm				
Motor					
Main motor	110kw (DC)				
Fast feeding motor	1.5kw				
Fast feeding motor in tailstock	1.5kw				

Standard Accessories

1. Fanuc 0i-mate TD CNC controller
2. Main inverter motor
3. X/Z axis Fanuc servo motor
4. Gear box spindle head
5. Manual 4-jaw chuck
6. Vertical 4-position automatic turret
7. Manual tailstock
8. Heat exchanger for electrical cabinet
9. Full-enclosed cover
10. Transformer
11. Tool kits
12. Instruction manual book
13. 380v/50hz/3ph
14. Grey and white color

Optional Accessories

1. Siemens 802d CNC Controller
2. Solid Hydraulic Chuck 12"
3. Hollow Hydraulic Chuck 12"
4. Solid Hydraulic Chuck 15"
5. Hollow Hydraulic Chuck 15"
6. Hydraulic Tailstock
7. Hydraulic Station
8. Different kind of Steady Rest
9. Horizontal 6-Position Turret
10. Different kind of turret
11. Bigger manual 4-Jaw Chuck
12. Hard Jaw 12"
13. Hard Jaw 15"
14. CE/UL/CSA electrical components can be supplied
15. Variable voltage 220v/440v/600v, 50Hz or 60Hz can be supplied