TURNTECH®

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TURNTECH®

CNC SWISS LATHES

2026

Manufacturer:

Zhejiang Turntech CNC Machine Tool Manufacturing Co.,Ltd.

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浙江颂傲数控机床有限公司

Zhejiang Turntech CNC Machine Tool Manufacturing Co.,Ltd.

ALWAYS ONE STEP AHEAD

Company Profile

Zhejiang Turntech CNC Machine Tool Manufacturing Co., Ltd. is a leading manufacturer of high-quality CNC Swiss lathes. Based in Ningbo-a key city in China's dynamic Yangtze River Delta manufacturing hub-the company covers an area of approximately 55,000 square meters, employs over 260 professionals, and produces around 1000 sets of CNC Swiss lathes annually.

Equipped with advanced CNC machining centers and high-precision testing equipment, the company ensures robust manufacturing capabilities and stringent quality control.

Co-developed by Swiss-Japanese engineering teams, we have launched a full range of Swiss lathe models with turning diameters ranging from 4 mm to 42 mm (including Φ4, Φ7, Φ12, Φ20, Φ26, Φ32, Φ38, Φ42 mm, etc.). Available configurations include 5-axis, 6-axis, and automatic B-axis variants, as well as the high-rigidity SL-H model. Compatible CNC systems include FANUC, SIEMENS, Mitsubishi, and SYNTEC, complemented by a complete selection of optional accessories.

Over the past five years, our Swiss lathes have gained significant traction in the international market. We have participated in trade shows across Germany, Spain, Italy, Poland, the UK, Turkey, Egypt, Brazil, Mexico, Argentina, Thailand, Indonesia, Vietnam, and more. TURNTECH's products are exported to over 70 countries and regions, spanning Europe, North America, South America, Southeast Asia, and the Middle East.

Through continuous technological innovation, TURNTECH strives to deliver superior CNC Swiss lathes that empower industries worldwide.

The leading expert in CNC Swiss–type lathe technology.

Why choose Turntech?

1.Unwavering commitment to international quality standards.
2.Reliable CNC manufacturing - ensuring lifetime accuracy and maximum rigidity.
3.Extensive range of efficient, high-speed, precision CNC Swiss-type lathes.
4.Guaranteed timely delivery within agreed-upon timeframes.
5.Significant investment in R&D to deliver innovative solutions with cutting-edge technology.
6.24/7 technical support and comprehensive after-sales service.

"World-Class Quality, Made in Zhejiang"

We actively align with advanced manufacturing standards from Germany, Switzerland, Japan, and other nations, positioning ourselves as a top-tier domestic and globally advanced enterprise. Guided by our core values of "Ultimate Precision, Sincere Commitment, and Long-Term Vision", we strive for international recognition of our product quality and brand value through high standards, mass production, and global outreach.

Professional manufacturing – Lifetime accuracy and the utmost rigidity.

Our Machining Equipment:

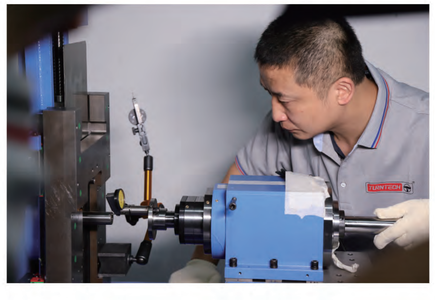
At TURNTECH, high-quality products begin with advanced machining equipment. Machining is a critical phase in the manufacturing process, transforming raw materials into precise components through turning, milling, grinding, and other processes. To achieve superior accuracy and efficiency, we implement rigorous quality control protocols starting from cast iron, alongside integrating our proprietary CNC turning center manufacturing with internationally advanced machining centers. This integrated strategy ensures uncompromising precision and cutting-edge solutions for every project.

Quality Control:

At TURNTECH, quality is embedded into every stage of production. We implement rigorous protocols starting from raw material inspection, ensuring only premium-grade materials and parts meet our standards.

Precision craftsmanship defines our process: from surface finishing (scraping and lapping) to component assembly and final machine integration, every detail undergoes multi-stage verification using advanced metrology tools. Our ISO 9001:2015-certified workflows integrate real-time SPC monitoring during machining and laser alignment systems for assembly, guaranteeing micron-level accuracy.
Each machine undergoes final testing with CMM machines and functional simulations, supported by full traceability logs.

Our team receives continuous training to maintain zero-defect targets, fostering a culture of compliance driven by innovation. This commitment ensures unmatched reliability and internationally certified quality across aerospace, automotive, medical, and energy sectors.



Service:

Lifetime Technical Support for TURNTECH Lathes
Ensure peak productivity and reliability throughout your machine's lifecycle with our comprehensive support programs.

Key Services Include:

1.Free factory–based training
Hands-on training sessions at our facility to maximize operator proficiency.

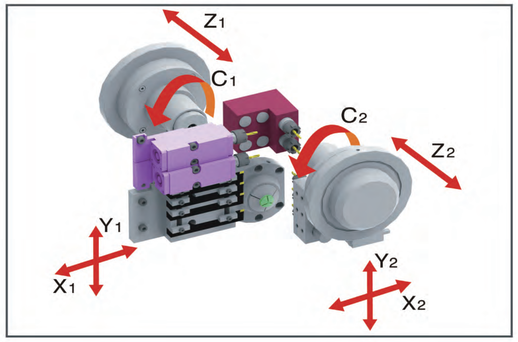
2.On–site installation & operator training
Factory-certified technicians provide full installation and customized training at your plant.

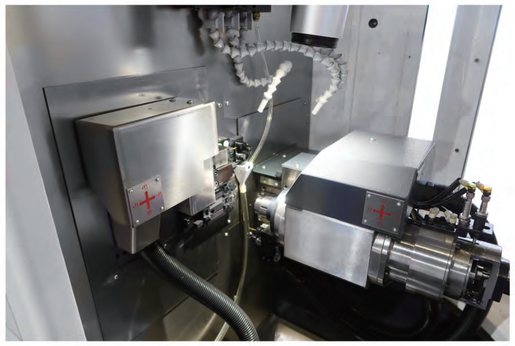
3.24/7 Remote support
Instant access to our expert online team via remote connectivity for real-time troubleshooting.

CNC Swiss Lathe

1. Our most compact CNC Swiss Lathe, co-developed by Swiss-Japanese engineering teams; Ideal for micro-components (watch parts,probes, connector plugs).
2. Symmetrical semi-circular design with 180° visible/accessible machining area (overlapping arc sliding doors + large observation window) for easy tooling and maintenance.
3. Optimized symmetric cast frame: excellent thermal stability, consistent precision, compact footprint, and low vibration/noise.
4. Ergonomic adjustable control panel bracket to enhance operational comfort and efficiency.
5. Main/sub-spindles equipped with built-in motors and high-precision ball bearings; support CS-axis control and precise indexing.
6. Total tool capacity: 11 units. Reserve one station for the radial live tool, and the turning tool count can be increased by 2 to 6.
7. All linear axes (X1/X2/Z1/Z2/Y1/Y2): AC servo drive with override protection, 8-axis 4-linkage capability; integrated with built-in absolute encoders, high-precision linear guideways and ball screws for superior positioning accuracy and rapid traverse.
8. FANUC 0i-TF Plus dual-channel system: LCD display, MPG (manual pulse generator), and comprehensive self-diagnosis for efficient fault troubleshooting.
9. Compatible with automatic bar feeders for unattended continuous operation.
10. Repeat positioning accuracy (all axes) – 0.002mm; Spindle quill locating hole radial runout – 0.004mm.

CNC Swiss Lathe



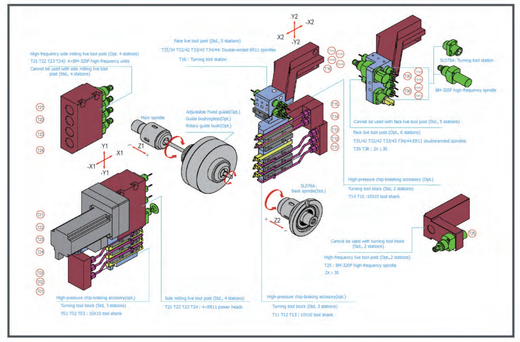


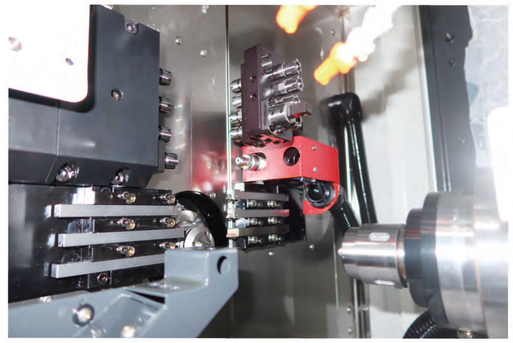
MODEL		UNIT	SL-046A
Max. turning dia.		mm	ϕ4
Spindel bore		mm	ϕ10
Main spindle speed		rpm	16000
Sub spindle speed		rpm	16000
Radial live tool speed		rpm	8000
Max. machining length	Rotary guide bush	mm	30
	Fixed guide bush	mm	30
	Non guide bush	mm	2.5xD
Rapid feed rate		m/min	20
O.D. turning tool		T (mm)	4 x[□8] (100~120)
Axial drilling tool		T	3x[ER11]
Radial live tool		T	2x[ER11]
Back drilling tool		T	2x[ER11]
Main spindle motor power		kW	0.75
Sub spindle motor power		kW	1.1
Linear drive axis motor power		kW	0.4 (Y1,Y2: 0.5)
Radial live tool motor power		kW	0.4
Coolant motor power		kW	0.15
Overall dimensions		mm	1880x940x1750
Weight		kg	1000

CNC Swiss Lathe

1.Our most compact CNC Swiss lathe, co-developed by Swiss-Japanese engineering teams; Ideal for high-precision, efficient, and multi-process machining of micro parts.
2.Symmetrical semi-circular design with a 180° visible/accessible machining area (overlapping arc sliding doors + large observation window), for effortless tool setup and maintenance.
3.Optimized symmetric cast frame: boasts excellent thermal stability, consistent machining precision, a compact footprint, and low vibration/noise levels.
4.CNC control system: SYNTECH 220TB PLUS (10.4-inch display).
5.Total tool capacity: 22 units, including an optional 2 pieces high-frequency side milling motor spindles (model: NAKANISHI BM-320F,8000rpm,140W).
6.Three machining modes available: Standard fixed guide bush, optional mechanical synchronous guide bush, and servo-electric synchro nous guide bush.
7. High-speed internally cooled electric spindle and sub-spindle for enhanced machining efficiency and precision retention. Repeat positioning accuracy: ≤0.003mm.
8. Imported precision bearings, ball screws, and linear guideways guarantee long-term machining precision stability.
9. Optional bar feeder enables automatic cyclic loading/unloading, supporting one-operator-multiple-machines operation as well as efficient, fast, and clean production.

CNC Swiss Lathe



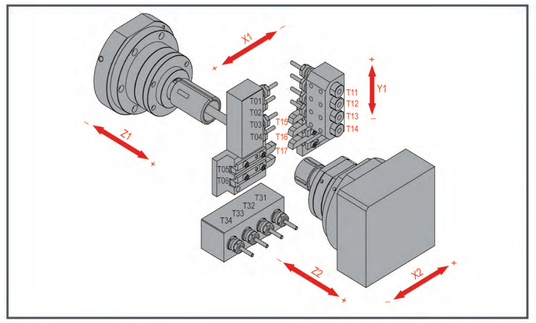


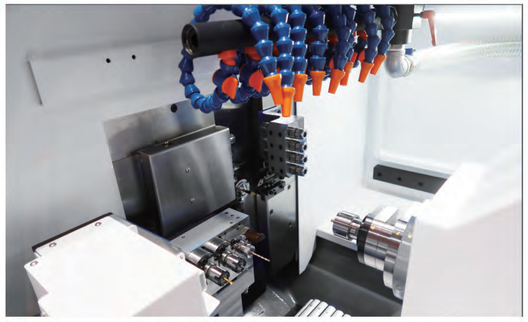
MODEL		UNIT	SL–076A
Max. turning dia.		mm	ϕ7
Spindel bore		mm	ϕ13
Main spindle speed		rpm	15000
Sub spindle speed		rpm	15000
Radial live tool speed		rpm	12000
Max. machining length	Rotary guide bush	mm	Mechanical: 55; Servo–electric: 60–80
	Fixed guide bush	mm	120
	Non guide bush	mm	2–3D (Hardly used)
Rapid feed rate		m/min	30
O.D. turning tool		T (mm)	8x[□10]
Axial machining tool		T	8x[ER11] + 2 (High–frequency front mount)
Radial live tool		T	3x[ER11]
Back machining tool		T (mm)	1x[□10]
Main spindle motor power		kW	2.0
Sub spindle motor power		kW	1.0
Linear drive axis motor power		kW	0.75 (Z2: 0.4)
Radial live tool motor power		kW	0.4
Coolant motor power		kW	0.2
Overall dimensions		mm	1700x1300x1680
Weight		kg	1500

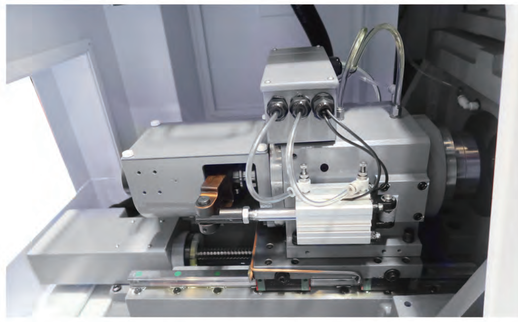
CNC Swiss Lathe

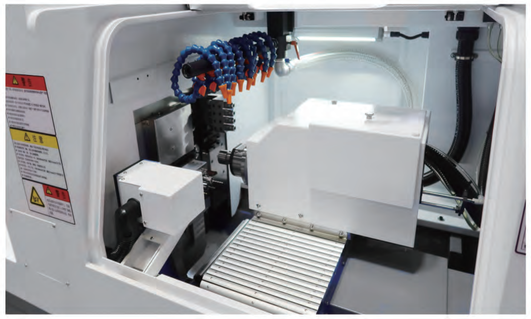
1.CNC Control System:
• Standard: SYNTEC. Optional: FANUC, SIEMENS or Mitsubishi on request.
2.High precision spindle
• Imported high precision angular contact bearings for rigidity and long term accuracy.
• Radial runout ≤0.002mm.
3.High performance cast iron construction
• One piece high - quality Meehanite cast iron body with stable design.
• Stress relief annealing for rigidity and dimensional stability.
4.Precision feed system
• Servo driven axes with imported ball screw bearings and linear guideways.
• ≤0.003mm repeat positioning accuracy and long term repeatability.
5.Adjustable guide bushing system
• Quick switch between bushing and non-bushing modes for different workpieces.
6.Advanced tooling configuration
• Total tool capacity: 17 units.
• Compact vertical double-row tool layout for fast tool changes
• Radial live tools to support complex combined turning, milling and drilling operations.
7.Max. drilling and tapping capacity
• Spindle/Sub spindle: ф7mm, M6.
• Radial live tool：ф6mm, M5.

CNC Swiss Lathe



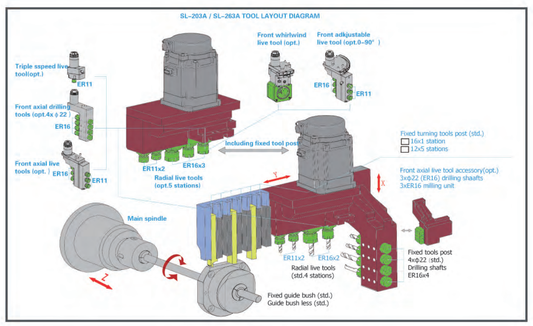






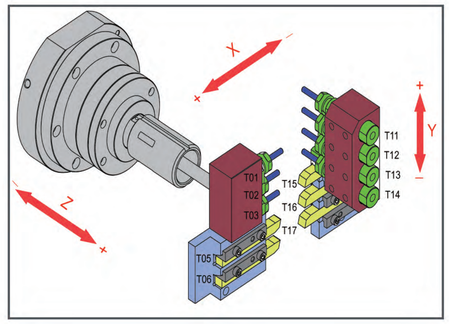
MODEL		UNIT	SL–125A
Max. turning dia.		mm	ϕ12
Spindel bore		mm	ϕ16
Main spindle speed		rpm	12000 (Rotary guide bush 8000)
Sub spindle speed		rpm	12000
Radial live tool speed		rpm	6000
Back live tool speed		rpm	6000 (opt.)
Max. processing length	Rotary guide bush	mm	60 (opt.)
	Fixed guide bush	mm	180
	Non guide bush	mm	Max.30, 2.5xD
Rapid feed rate		m/min	24(X1/Z2), 30(X2,Y1,Z1)
O.D. turning tool		T (mm)	5x[□10]
Axial machining tool		T	4x[ER11]
Radial live tool		T	4x[ER11]
Back machining tool		T	4x[ER11]
Back live tool		T	4x[ER11] (opt.)
Main spindle motor power		kW	1.5
Sub spindle motor power		kW	1.5
Linear drive axis motor power		kW	0.75
Radial live tool motor power		kW	0.75
Back live tool motor power		kW	0.75 (opt.)
Coolant motor power		kW	0.25
Overall dimensions		mm	2100x1100x1700
Weight		kg	1800

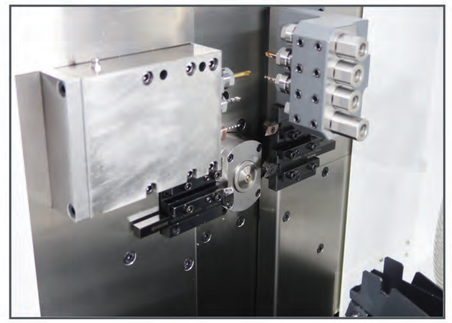
CNC Swiss Lathes



1.Single-spindle; Spindle indexing (C-axis), 3-axis linear linkage (X, Y, Z); high efficiency & precision.
2.High precision spindle: Premium angular contact bearings ensure high rigidity and long-term accuracy retention; Spindle runout ≤ 0.002mm.
3.High performance cast iron: Stable structure; integral Meehanite cast iron bed & slides; excellent rigidity & stability.
4.High precision feeding: Full servo-driven axes; imported precision ball screw bearings & guideways; Repeat positioning accuracy ≤ 0.003mm.
5.SYNTEC 22TB，8”-display.
6.Typical workpieces: Eccentric shafts/holes (micro pump shafts, sensor eccentric pins); Cross slots/multi-sided planes (connector plugs, locating pin flats); Spatial curved/special profiles (micro valve stems, optical instrument parts); Radial multi-hole arrays (hydraulic connectors, atomizer nozzles); End-face special slots/complex cavities (precision gear blanks, instrument part end faces).

CNC Swiss Lathes





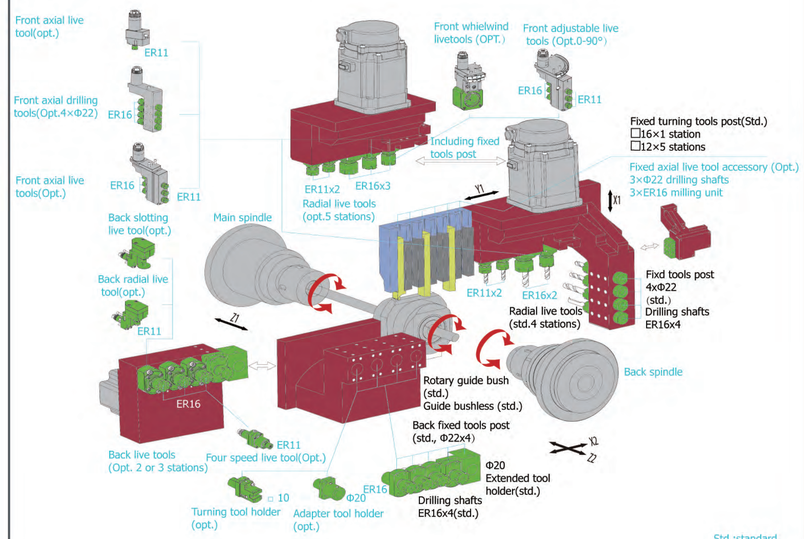
MODEL		UNIT	SL–123A	SL–203A	SL–263A
Max. turning dia.		mm	ϕ12	ϕ20	ϕ26
Spindel bore		mm	ϕ16	ϕ25	ϕ30
Main spindle speed		rpm	10000 (Rotary guide bush 8000)	10000 (Rotary guide bush 8000)	
Radial live tool speed		rpm	8000	6000	
Max. machining length	Rotary guide bush	mm	60 (opt.)	180 (opt.)	
	Fixed guide bush	mm	180	220	
	Non guide bush	mm	Max. 30, 2.5xD	Max. 50, 2.5xD	
Rapid feed rate		m/min	24 (X), 30 (Y,Z)	20 (X), 24 (Y,Z)	
O.D. turning tool		T (mm)	5x[□10]	1x[□16] + 5x[□12]	
Axial machining tool		T	4x[ER11]	4x[ER16]	
Radial live tool		T	3x[ER11]	2x[ER11] + 2x[ER16]	
Main spindle motor power		kW	1.5	4.2	
Linear drive axis motor power		kW	0.75	1	
Radial live tool motor power		kW	0.75	1	
Coolant motor power		kW	0.22	0.22	
Overall dimensions		mm	1600x1100x1700	1700x1300x1800	
Weight		kg	1100	1800	

CNC Swiss Lathes

1.CNC control system:
• Standard: SYNTEC. Optional: FANUC, SIEMENS or Mitsubishi on request.
2.High precision spindle
• Imported high precision angular contact bearings for rigidity and long term accuracy.
• Radial runout ≤0.002mm.
3.High performance cast iron construction
• One piece high - quality Meehanite cast iron body with stable design.
• Stress relief annealing for rigidity and dimensional stability.
4.Precision feed system
• Servo driven axes with imported ball screw bearings and linear guideways.
• ≤0.003mm repeat positioning accuracy and long term repeatability.
• Min. resolution 0.001mm.
5.Adjustable guide bushing system
• Quick switch between bushing and non-bushing modes for different workpieces.
6.Advanced tooling configuration
• Horizontal linear tool layout for efficient chip evacuation and compact operation.
• Radial live tools and spindle indexing for complexmulti - axis operations.
7.Max. drilling and tapping capacity
• Spindle/Sub spindle: ф10mm, M10/M8.
• Radial live tool: ф8mm, M6.

CNC Swiss Lathes

SL–205A/SL–265A TOOL LAYOUT DIAGRAM

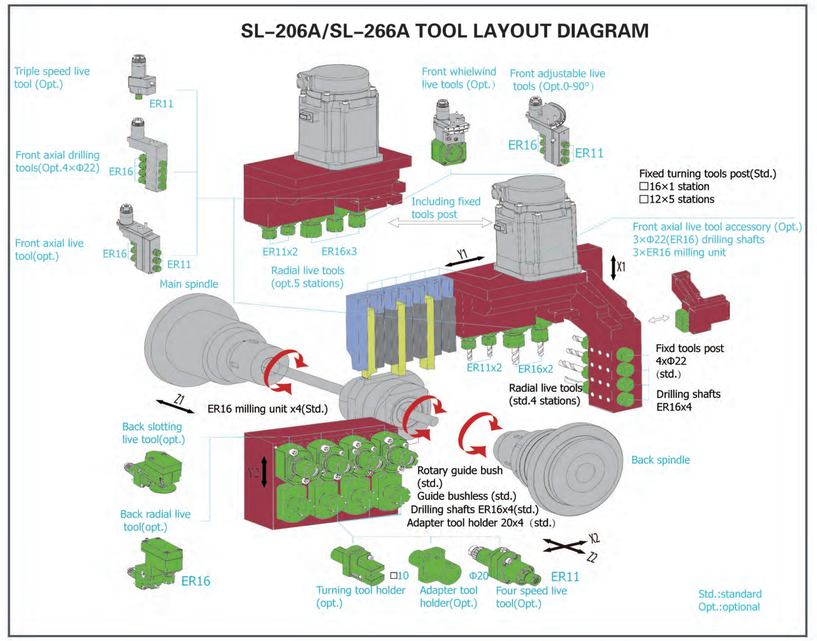


MODEL		UNIT	SL–205A	SL–265A
Max. turning dia.		mm	ϕ20	ϕ26
Spindle bore		mm	ϕ25	ϕ30
Main spindle speed		rpm	10000 (Rotary guide bushing 8000)	10000 (Rotary guide bushing 8000)
Sub spindle speed		rpm	10000	10000
Radial live tool speed		rpm	6000	6000
Back live tool speed		rpm	6000 (opt.)	6000 (opt.)
Max. machining length	Rotary guide bush	mm	180	180
	Non guide bush	mm	Max.50, 2.5xD	Max.50, 2.5xD
Rapid feed rate		m/min	24(X2, Y1, Z1, Z2))	24(X2, Y1, Z1, Z2)
			20(X1)	20(X1)
O.D. turning tool		T(mm)	1[□16]+5x[□12]	1[□16]+5x[□12]
Axial machining tool		T	4x[ER16]	4x[ER16]
Radial live tool		T	2x[ER11] + 2x[ER16]	2x[ER11] + 2x[ER16]
Back machining tool		T	4x[ER16] + 1x[ϕ20]	4x[ER16] + 1x[ϕ20]
Back live tool		T	Opt.	Opt.
Main spindle motor power		kW	4.2	4.2
Sub spindle motor power		kW	3.1	3.1
Linear drive axis motor power		kW	1.0	1.0
Radial live tool motor power		kW	1.0	1.0
Back live tool motor power		kW	1.0	1.0
Coolant motor power		kW	0.4	0.4
Overall dimensions		mm	2380x1300x1770	2380x1300x1770
Weight		kg	2400	2400

CNC Swiss Lathes

1.CNC control system:
• Standard: SYNTEC. Optional: FANUC, SIEMENS or Mitsubishi on request.
2.High precision spindle
• Imported high precision angular contact bearings for rigidity and long term accuracy.
• Radial runout ≤0.002mm.
3.High performance cast iron construction
• One piece high - quality Meehanite cast iron body with stable design.
• Stress relief annealing for rigidity and dimensional stability.
4.Precision feed system
• Servo driven axes with imported ball screw bearings and linear guideways.
• ≤0.003mm repeat positioning accuracy and long term repeatability.
• Min. resolution 0.001mm.
5.Adjustable guide bushing system
• Quick switch between bushing and non-bushing modes for different workpieces.
6.Advanced tooling configuration
• Horizontal linear tool layout for efficient chip evacuation and compact operation.
• Radial live tools and spindle indexing for complexmulti - axis operations.
7.Max. drilling and tapping capacity
• Spindle/Sub spindle: ф10mm, M10/M8.
• Radial live tool: ф8mm, M6.

CNC Swiss Lathes

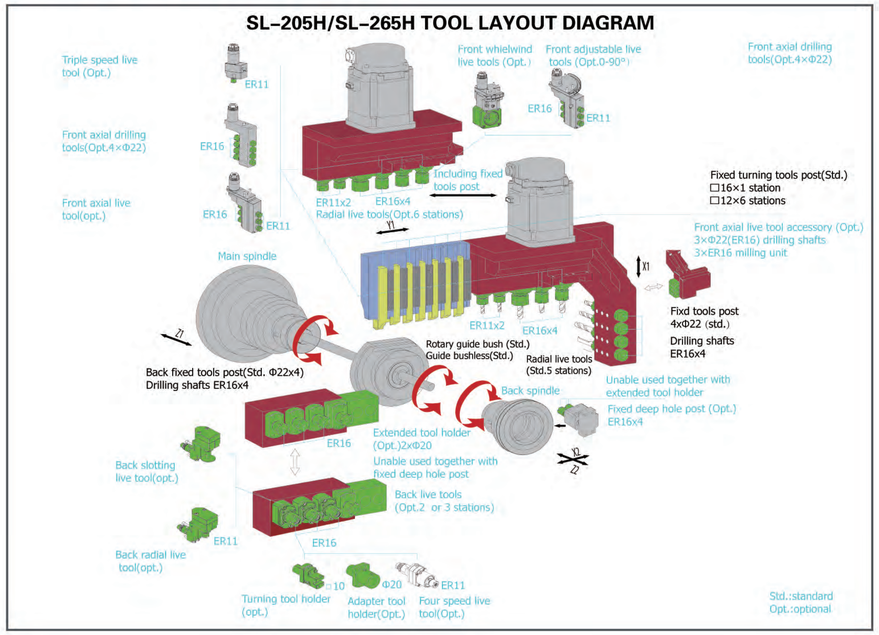


MODEL		UNIT	SL-206A	SL-266A
Max. turning dia.		mm	ϕ20	ϕ26
Spindle bore		mm	ϕ25	ϕ30
Main spindle speed		rpm	10000 (Rotary guide bushing 8000)	10000 (Rotary guide bushing 8000)
Sub spindle speed		rpm	10000	10000
Radial live tool speed		rpm	6000	6000
Back live tool speed		rpm	6000	6000
Max. machining length	Rotary guide bush	mm	180	180
	Non guide bush	mm	Max.50, 2.5xD	Max.50, 2.5xD
Rapid feed rate		m/min	24(X2, Y1, Z1, Z2))	24(X2, Y1, Z1, Z2)
			20(X1, Y2)	20(X1, Y2)
O.D. turning tool		T(mm)	1[□16]+5x[□12]	1[□16]+5x[□12]
Axial machining tool		T	4x[ER16]	4x[ER16]
Radial live tool		T	2x[ER11] + 2x[ER16]	2x[ER11] + 2x[ER16]
Back machining tool		T	4x[ER16]	4x[ER16]
Back live tool		T	4x[ER16]	4x[ER16]
Main spindle motor power		kW	4.2	4.2
Sub spindle motor power		kW	3.1	3.1
Linear drive axis motor power		kW	1.0	1.0
Radial live tool motor power		kW	1.0	1.0
Back live tool motor power		kW	1.0	1.0
Coolant motor power		kW	0.4	0.4
Overall dimensions		mm	2380x1300x1770	2380x1300x1770
Weight		kg	2450	2450

CNC High Rigidity Swiss Lathes

1. The highest-quality Swiss lathe among Chinese brands.
2. H=High rigidity. This is an enhanced version of the Model SL-A. The SL-A is primarily designed for machining precision parts, while the SL-H is dedicated to processing complex parts.
3. Employs FEA (Finite Element Analysis) to simulate complex working conditions, ensuring optimized structural rigidity and performance for the machining of complex and irregularly shaped parts.
4. The integral bed and carriage are made of Meehanite cast iron, featuring a box-type structure with built-in grid ribs for ultra-high rigidity and excellent stability.
5. Equipped with more cutting tool holders for enhanced machining capability. It comes standard with 7 turning tools and 5 live tools on the main spindle side.
6. The sub-spindle delivers higher power (4.2kW) and supports a maximum tapping capacity of M10.
7. The Y1/Z1/X2/Z2 axes adopt linear roller guideways, which are ideal for high-speed operations with superior rigidity, outstanding deformation resistance, and higher machining precision.
8. Widely used in the machining of precision, complex, small-sized, and slender shaft parts across industries such as telecommunications, electronics, automotive, medical, instrumentation, aerospace, pneumatics, and hydraulics.

CNC High Rigidity Swiss Lathes

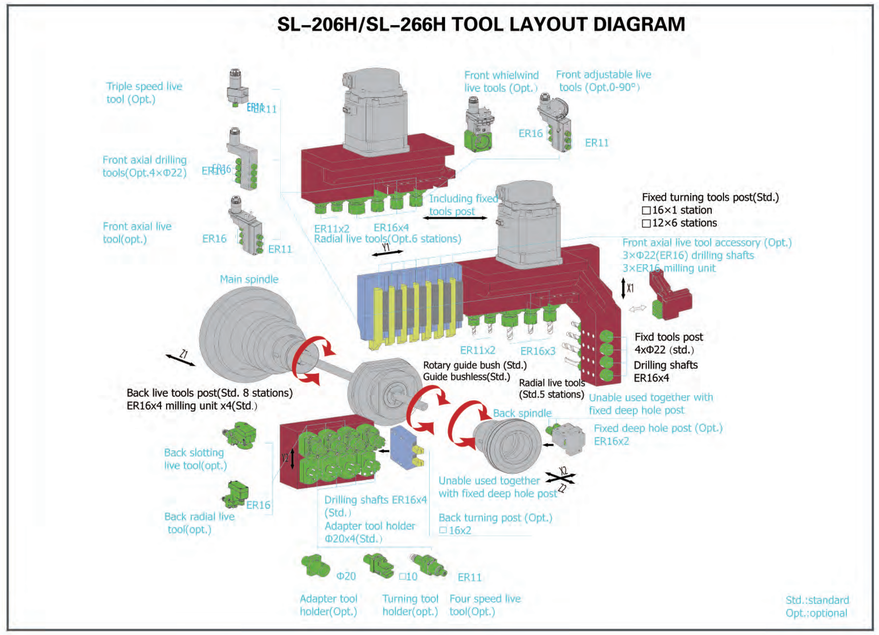


MODEL		UNIT	SL–205H	SL–265H
Max. turning dia.		mm	ϕ20	ϕ26
Spindle bore		mm	ϕ25	ϕ30
Main spindle speed		rpm	10000 (Rotary guide bushing 8000)	10000 (Rotary guide bushing 8000)
Sub spindle speed		rpm	10000	10000
Radial live tool speed		rpm	6000	6000
Back live tool speed		rpm	6000 (opt.)	6000 (opt.)
Max. machining length	Rotary guide bush	mm	180	180
	Non guide bush	mm	Max.50, 2.5xD	Max.50, 2.5xD
Rapid feed rate		m/min	24(X2, Y1, Z1, Z2)	24(X2, Y1, Z1, Z2)
			20(X1)	20(X1)
O.D. turning tool		T(mm)	1[□16]+6x[□12]	1[□16]+6x[□12]
Axial machining tool		T	4x[ER16]	4x[ER16]
Radial live tool		T	2x[ER11] + 3x[ER16]	2x[ER11] + 3x[ER16]
Back machining tool		T	4x[ER16]	4x[ER16]
Back live tool		T	Opt.	Opt.
Main spindle motor power		kW	4.2	4.2
Sub spindle motor power		kW	4.2	4.2
Linear drive axis motor power		kW	1.0	1.0
Radial live tool motor power		kW	1.0	1.0
Back live tool motor power		kW	1.0	1.0
Coolant motor power		kW	0.4	0.4
Overall dimensions		mm	2565x1350x1850	2565x1350x1850
Weight		kg	2900	2900

CNC High Rigidity Swiss Lathes

1. The highest-quality Swiss lathe among Chinese brands.
2. H=High rigidity. This is an enhanced version of the Model SL-A. The SL-A is primarily designed for machining precision parts, while the SL-H is dedicated to processing complex parts.
3. Employs FEA (Finite Element Analysis) to simulate complex working conditions, ensuring optimized structural rigidity and performance for the machining of complex and irregularly shaped parts.
4. The integral bed and carriage are made of Meehanite cast iron, featuring a box-type structure with built-in grid ribs for ultra-high rigidity and excellent stability.
5. Equipped with more cutting tool holders for enhanced machining capability. It comes standard with 7 turning tools and 5 live tools on the main spindle side. The 6-axis models enjoy higher market demand.
6. The sub-spindle delivers higher power (4.2kW) and supports a maximum tapping capacity of M10.
7. The Y1/Z1/X2/Z2 axes adopt linear roller guideways, which are ideal for high-speed operations with superior rigidity, outstanding deformation resistance, and higher machining precision.
8. Widely used in the machining of precision, complex, small-sized, and slender shaft parts across industries such as telecommunications, electronics, automotive, medical, instrumentation, aerospace, pneumatics, and hydraulics.

CNC High Rigidity Swiss Lathes

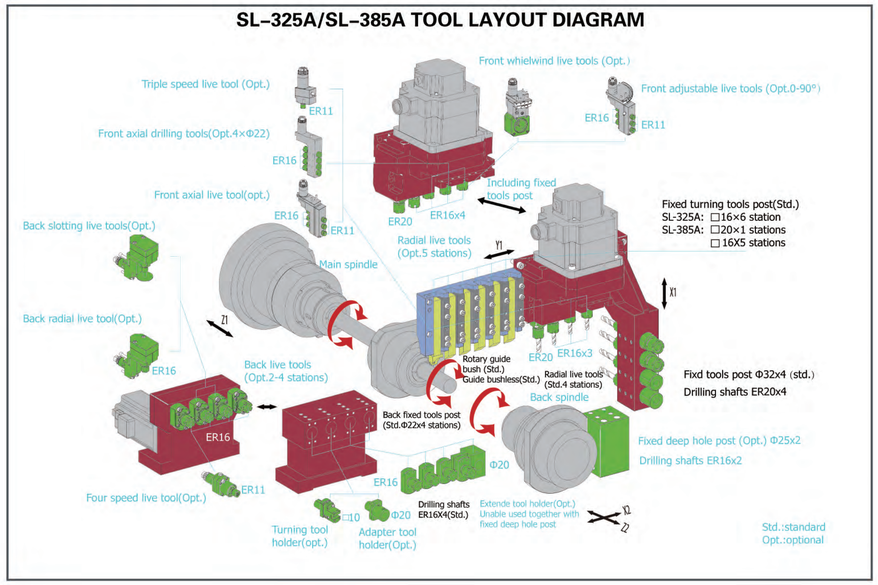


	UNIT	SL-206H	SL-266H
MODEL	mm	ϕ20	ϕ26
Max. turning dia.	mm	ϕ25	ϕ30
Spindle bore	rpm	10000 (Rotary guide bushing 8000)	10000 (Rotary guide bushing 8000)
Main spindle speed	rpm	10000	10000
Sub spindle speed	rpm	6000	6000
Radial live tool speed	rpm	6000	6000
Back live tool speed	mm	180	180
Max. machining length — Rotary guide bush	mm	Max.50, 2.5xD	Max.50, 2.5xD
Max. machining length — Non guide bush	m/min	24(X2, Y1, Z1, Z2)	24(X2, Y1, Z1, Z2)
Rapid feed rate		20(X1, Y2)	20(X1, Y2)
	T(mm)	1[□16]+6x[□12]	1[□16]+6x[□12]
O.D. turning tool	T	4x[ER16]	4x[ER16]
Axial machining tool	T	2x[ER11] + 3x[ER16]	2x[ER11] + 3x[ER16]
Radial live tool	T	4x[ER16]	4x[ER16]
Back machining tool	T	4x[ER16]	4x[ER16]
Back live tool	kW	4.2	4.2
Main spindle motor power	kW	4.2	4.2
Sub spindle motor power	kW	1.0	1.0
Linear drive axis motor power	kW	1.0	1.0
Radial live tool motor power	kW	1.0	1.0
Back live tool motor power	kW	0.4	0.4
Coolant motor power	mm	2565x1350x1850	2565x1350x1850
Overall dimensions	kg	3000	3000
Weight			

CNC Swiss Lathes

1.CNC control system:
• Standard: SYNTEC. Optional: FANUC, SIEMENS or Mitsubishi on request.
2.High precision spindle
• Imported high precision angular contact bearings for rigidity and long term accuracy.
• Radial runout ≤0.002mm.
3.High performance cast iron construction
• One piece high - quality Meehanite cast iron body with stable design.
• Stress relief annealing for rigidity and dimensional stability.
4.Precision feed system
• Servo driven axes with imported ball screw bearings and linear guideways.
• ≤0.003mm repeat positioning accuracy and long term repeatability.
• Min. resolution 0.001mm.
5.Advanced tooling configuration
• Horizontal linear tool layout for efficient chip evacuation and compact operation.
• Radial live tools and spindle indexing for complex multi - axis operations.
6.Max. drilling and tapping capacity
• Spindle/Sub spindle: ф13/ф10mm, M12/M10.
• Radial live tool: ф10mm, M8

CNC Swiss Lathes

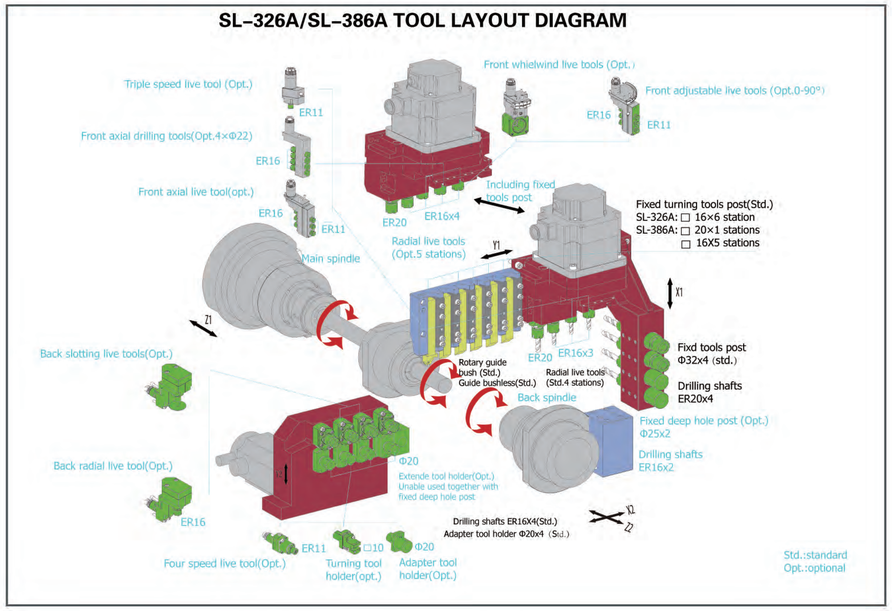


MODEL		UNIT	SL–325A	SL–385A
Max. turning dia.		mm	ϕ32	ϕ38
Spindle bore		mm	ϕ37	ϕ39
Main spindle speed		rpm	8000 (Rotary guide bush 6000)	6000 (Rotary hydraulic cylinder)
Sub spindle speed		rpm	8000	8000
Radial live tool speed		rpm	8000	8000
Back live tool speed		rpm	6000 (opt.)	6000 (opt.)
Max. machining length	Rotary guide bush	mm	310	310
	Non guide bush		Max.80, 2.5xD	Max.90, 2.5xD
Rapid feed rate		m/min	30(X2, Y1, Z1, Z2)	30(X2, Y1, Z2)
			24 (X1)	24(X1, Z1)
O.D. turning tool		T(mm)	6x[□16]	1×[□20]+5×[□16]
Axial machining tool		T	4x[ER20]	4[ER20]
Radial live tool		T	1x[ER20] + 3x[ER16]	1x[ER20] + 3x[ER16]
Deep hole tool holder		T	2x[ER16]	2x[ER16]
Back machining tool		T	4x[ER16]	4x[ER16]
Back live tool		T	Opt.	Opt.
Main spindle motor power		kW	6.3	6.3
Sub spindle motor power		kW	4.2	4.2
Linear drive axis motor power		KW	1.0	1.0
Radial live tool motor power		KW	1.0	1.0
Back live tool motor power		KW	1.0	1.0
Coolant motor power		KW	0.4	0.4
Overall dimensions		mm	2960x1660x1920	3100x1660x1920
Weight		kg	3750	3800

CNC Swiss Lathes

1.CNC control system:
• Standard: SYNTEC. Optional: FANUC, SIEMENS or Mitsubishi on request.
2.High precision spindle
• Imported high precision angular contact bearings for rigidity and long term accuracy.
• Radial runout ≤0.002mm.
3.High performance cast iron construction
• One piece high - quality Meehanite cast iron body with stable design.
• Stress relief annealing for rigidity and dimensional stability.
4.Precision feed system
• Servo driven axes with imported ball screw bearings and linear guideways.
• ≤0.003mm repeat positioning accuracy and long term repeatability.
• Min. resolution 0.001mm.
5.Advanced tooling configuration
• Horizontal linear tool layout for efficient chip evacuation and compact operation.
• Radial live tools and spindle indexing for complex multi - axis operations.
6.Max. drilling and tapping capacity
• Spindle/Sub spindle: ф13/ф10mm, M12/M10.
• Radial live tool: ф10mm, M8
7. **6–axis + Auto B axis = 7 axes model on request.**
• Auto B axis: Live tool 4(ER16) and axial drilling tool 3(ER16). Rotate angle 0-135°.
Max. speed 6000rpm. Drive power 0.4kW, live tool power 1.0kW.

CNC Swiss Lathes



MODEL		UNIT	SL–326A	SL–386A
Max. turning dia.		mm	ϕ32	ϕ38
Spindle bore		mm	ϕ37	ϕ39
Main spindle speed		rpm	8000 (Rotary guide bush 6000)	6000 (Rotary hydraulic cylinder)
Sub spindle speed		rpm	8000	8000
Radial live tool speed		rpm	8000	8000
Back live tool speed		rpm	6000	6000
Max. machining length	Rotary guide bush	mm	310	310
	Non guide bush		Max.80, 2.5xD	Max.90, 2.5xD
Rapid feed rate		m/min	30(X2, Y1, Z1, Z2)	30(X2, Y1, Z2)
			24(X1, Y2)	24(X1, Y2, Z1)
O.D. turning tool		T(mm)	6x[□16]	1×[□20]+5×[□16]
Axial machining tool		T	4x[ER20]	4[ER20]
Radial live tool		T	1x[ER20] + 3x[ER16]	1x[ER20] + 3x[ER16]
Deep hole tool holder		T	2x[ER16]	2x[ER16]
Back machining tool		T	4x[ER16]	4x[ER16]
Back live tool		T	4x[ER16]	4x[ER16]
Main spindle motor power		kW	6.3	6.3
Sub spindle motor power		kW	4.2	4.2
Linear drive axis motor power		kW	1.0	1.0
Radial live tool motor power		kW	1.0	1.0
Back live tool motor power		kW	1.0	1.0
Coolant motor power		kW	0.4	0.4
Overall dimensions		mm	2960x1660x1920	3100x1660x1920
Weight		kg	3850	3900

CNC Swiss Lathes

1.CNC control system: SYNTEC 220TB or FANUC 0i-TF Plus.

2.High precision spindle

- Imported high precision angular contact bearings for rigidity and long term accuracy.
- Radial runout ≤0.005mm.

3.High performance cast iron construction

- One piece high - quality Meehanite cast iron body with stable design.
- Stress relief annealing for rigidity and dimensional stability.

4.Precision feed system

- Servo driven axes with imported ball screw bearings and linear guideways.
- ≤0.003mm repeat positioning accuracy and long term repeatability.

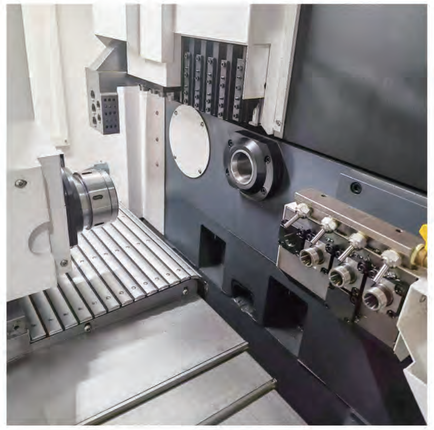
5. Powerful machining capabilities

- High-rigidity turn-mill compound machining: Replaces CNC lathes/turning centers. One-clamp processing covers turning (OD, face, thread, groove, parting), milling, drilling, tapping, and boring (front/back end faces post-parting).
- Precision slender shaft machining.

6. Motor powers

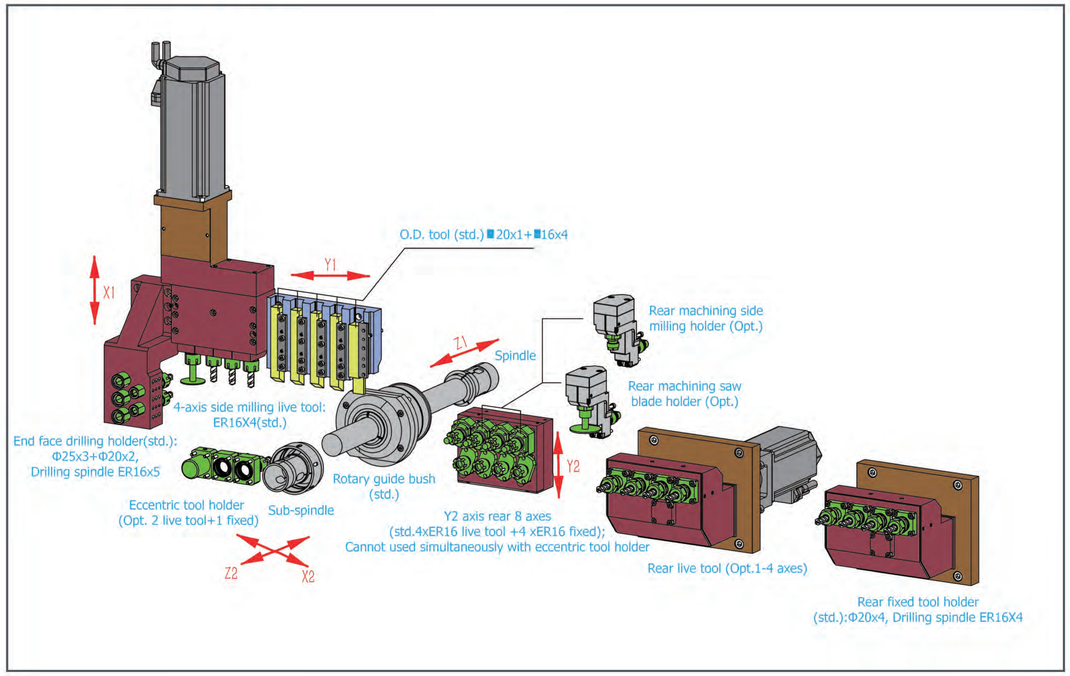
- Linear drive axis / Radial live tool / Back live tool / Coolant pump: 1.0/1.0/1.0/0.4kW.

7. Model SL-466A on request.



Motor spindle BM-320F(opt.)

CNC Swiss Lathes



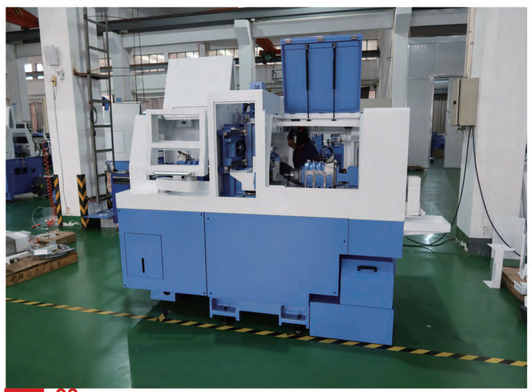
MODEL		UNIT	SL-425A	SL-426A
Max. turning dia.		mm	ϕ42	ϕ42
Spindle bore		mm	ϕ45	ϕ45
Main spindle speed		rpm	8000(FANUC); 6000(SYNTEC)	8000(FANUC); 6000(SYNTEC)
Sub spindle speed		rpm	8000(FANUC); 6000(SYNTEC)	8000(FANUC); 6000(SYNTEC)
Radial live tool speed		rpm	5000	5000
Back live tool speed		rpm	5000	5000
Max. machining length	Rotary guide bush	mm	210	210
	Non guide bush	mm	Max.90, 2.5xD	Max.90, 2.5xD
Rapid feed rate		m/min	32(Z1,Y1,Z2)	32(Z1,Y1,Z2)
			24(X1, X2)	24(X1,X2,Y2)
O.D. turning tool		T(mm)	4x□16+1x□20	4x□16+1x□20
Axial machining tool		T	5x[ER16]	5x[ER16]
Radial live tool		T(mm)	4x□16	4x□16
Deep hole tool holder		T	2x[ER16]	2x[ER16]
Back machining tool		T	4x[ER16]	8x[ER16]
Back live tool		T	Opt.	8x[ER16]
Main spindle motor power		kW	5.5/7.5(FANUC); 5.9(SYNTEC)	5.5/7.5(FANUC); 5.9(SYNTEC)
Sub spindle motor power		kW	1.5/2.2(FANUC); 3.9(SYNTEC)	1.5/2.2(FANUC); 3.9(SYNTEC)
Overall dimensions		mm	2760x1572x1882	2760x1572x1882
Weight		kg	4500	4600

CNC Swiss Lathe Frame/Body

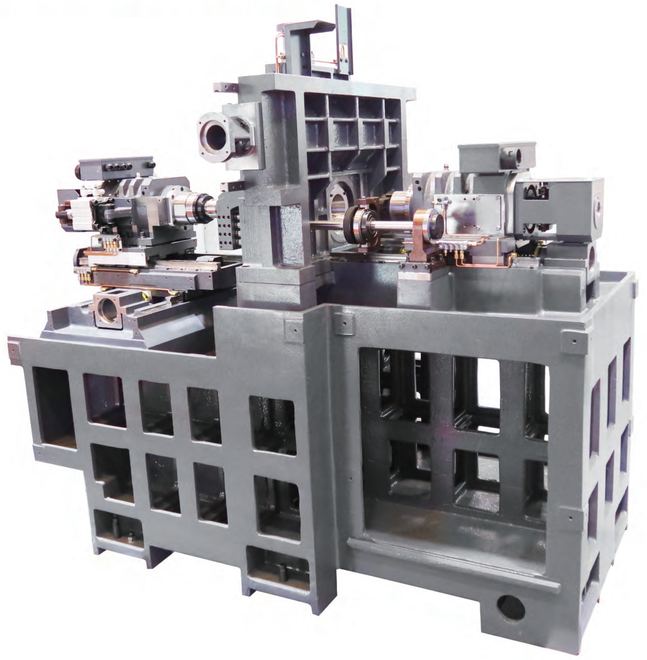
As a leading manufacturer of CNC Swiss lathes, TURNTECH excels in cost efficiency, advanced technology, and scalable production capabilities. These core strengths have enabled us to supply machine frames/body assemblies and OEM manufacturing services to clients in countries such as Germany, South Korea, Turkey, the United States, and Taiwan.

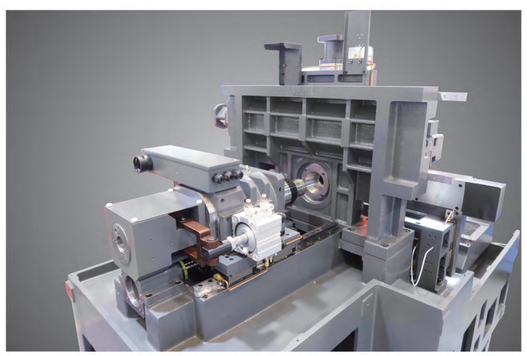
Outsourcing machine frames reflects the modern manufacturing industry's specialization trends. By leveraging our expertise, you can optimize your supply chain to balance cost-effectiveness, operational efficiency, and technological innovation—ultimately addressing the rapid expansion of market demands.

Partner with TURNTECH today to unlock tailored solutions for your CNC machining needs!



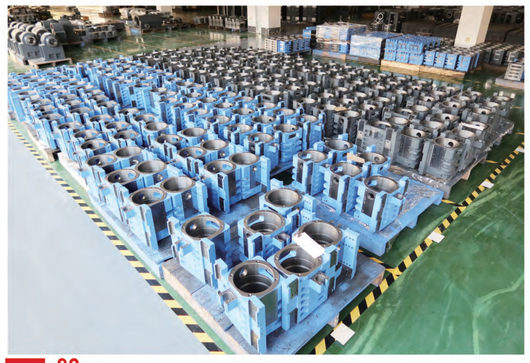
CNC Swiss Lathe Frame/Body





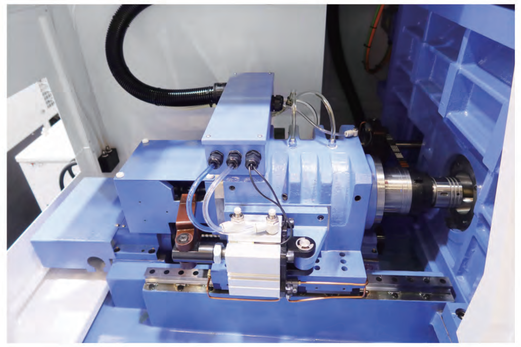
Warehouse Corner Area

What you see here is a glimpse of our warehousing hub, encompassing dedicated zones for in-house fabricated parts, outsourced parts, and machine frames/bodies. This systematic storage setup underpins our streamlined production workflow and rapid order fulfillment capability.

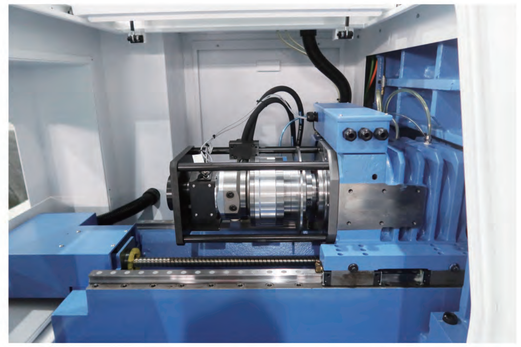


Main Configuration & Main Parts List

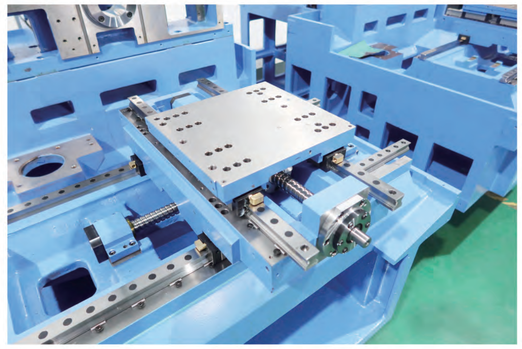
What we are showcasing here is the main configuration and core components of our equipment, which incorporate a strategic combination of self-manufactured key parts, premium domestic-brand components and world-renowned imported parts. This optimized component mix ensures both exceptional performance and reliable quality for our machines.



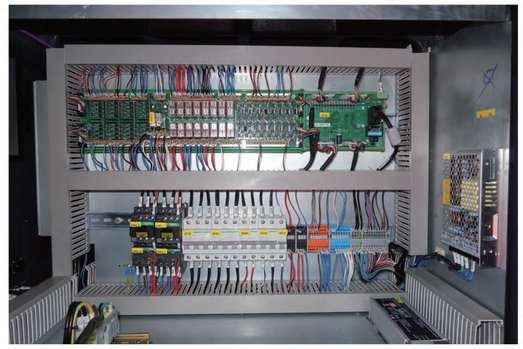
Built-in electro-spindle



Hydraulic spindle



Ball screw, Linear guideway, Bearing

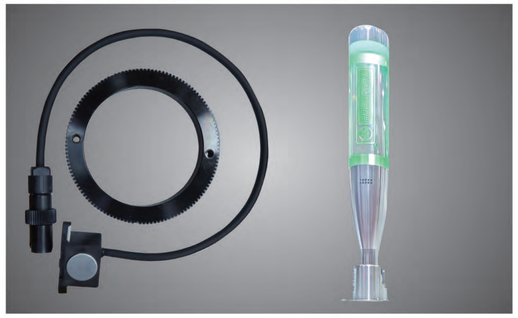


Electrical cabinet

Spindle oil cooler

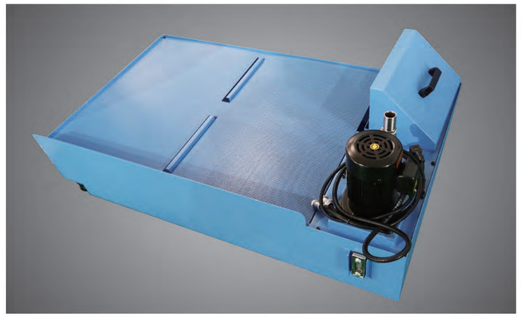
Transformer

Main Configuration & Main Parts List



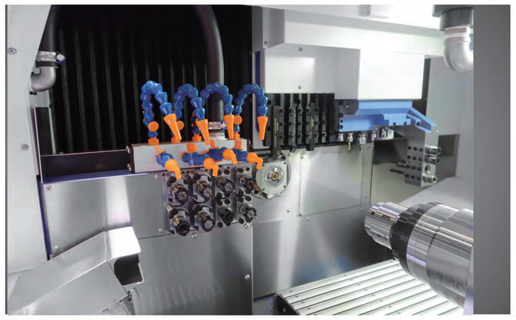
Spindle encoder Alarm lamp

Work lamp MPG

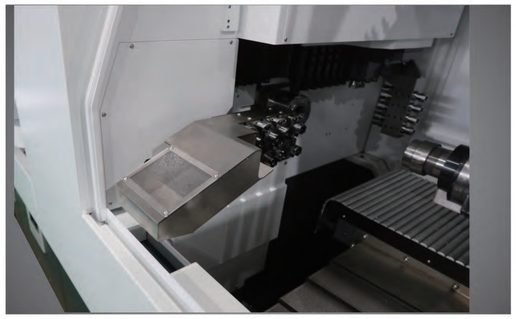


Coolant tank

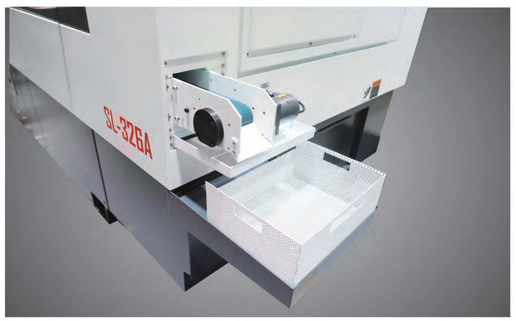
Automatic lubrication pump



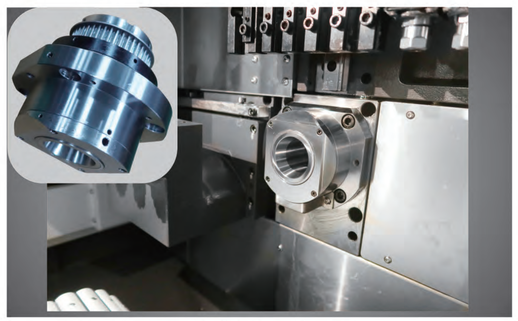
Y2 axis



Parts catcher

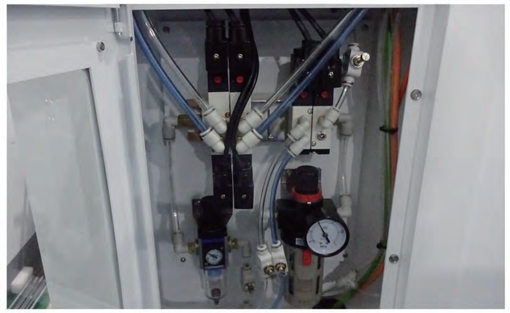


Conveyor belt

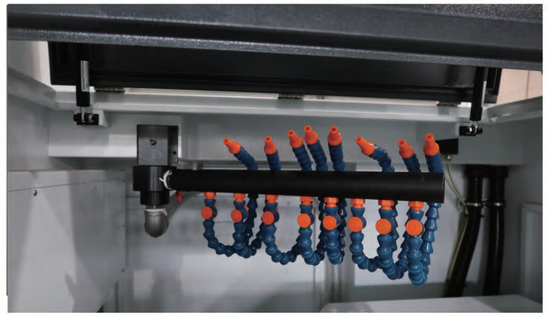


Guide bush

Main Configuration & Main Parts List



Pneumatic components



Coolant pipe

Item	Name	Core Function	Brand
Core control	CNC system	Lathe motion and process control	FANUC; MITSUBISHI; SYNTEC
	Servo system (Motor + Driver + Encoder)	Precise drive and closed-loop feedback for each axis	
	PLC & Operation panel	Logic control and human-machine interaction	TURNTECH
Spindle & collet	Spindle	Workpiece rotation drive	TURNTECH
	Sub-spindle	One-time clamping machining for both ends of the workpiece	TURNTECH
	Guide bush (Synchronous rotating/Fixed)	Support and guidance for long bar stock	TURNTECH
	Collet	Workpiece clamping	TURNTECH
Transmission system	Ball Screw	Conversion of rotational motion to linear motion	THK/HIWIN/PMI
	Linear guideway	Support and guidance for moving components	THK/HIWIN/PMI
	Bearing	Support for spindle/ball screw	NSK/NACHI, Japan
	Coupling	Power transmission, compensation for installation deviation, buffering and vibration reduction	KTR, Germany
Tool system	Tool holder	Tool installation and tool changing	TURNTECH
	Live tool	Drilling/tapping/milling	TURNTECH
	Fixed tool holder	Fixed turning/machining operations	TURNTECH
Auxiliary system	Coolant system (Coolant pump)	Temperature reduction and chip removal	A-RYUNG, South Korea
	Coolant system (Spindle oil cooler)	Temperature reduction for electro-spindle	TNP, China
	High-pressure cooling system (70Bar/100Bar)	Precise temperature reduction, efficient chip removal, tool lubrication and friction reduction	COPAIN, China
	Lubrication system (Auto lubrication pump)	Component lubrication and wear prevention	HERG, China
	Pneumatic components (Solenoid valve/Air cylinder)	Clamping/switching and other actions	AIRTAC, Taiwan
	Chip conveyor	Automatic discharge of cutting chips	LNS/TURNTECH
	Oil mist collector	Purification of cutting oil mist	CHUNMU, Japan
Feeding & receiving	Automatic bar feeder	Continuous feeding of long bar stock	LNS/PRO/BARLOAD/TURNTECH
	Short/Long workpiece receiver	Automatic workpiece collection	TURNTECH
Electrical & safety	Electrical components (Circuit breaker/Contactor)	Power supply and protection	SCHNEIDER
	Transformer/Voltage stabilizer	Voltage adaptation and stabilization	FUJIE, China

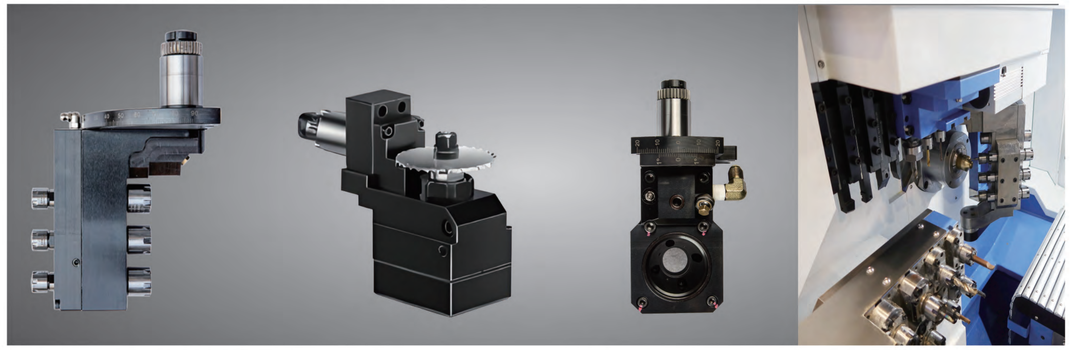
Various Configuration Options

1. Back radial live tool holder (Vertical)

2. Back radial live tool holder (Horizontal)

3.Spindle speed increasing live tool holder

4. Front axial live tool holder



5. Front adjustable live tool holder (Manual B axis)

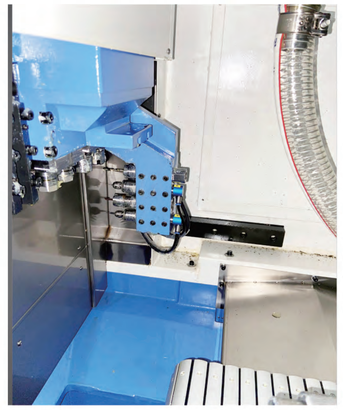
6. Rear saw blade holder

7. Front whirling milling headstock

8. Automatic B axis

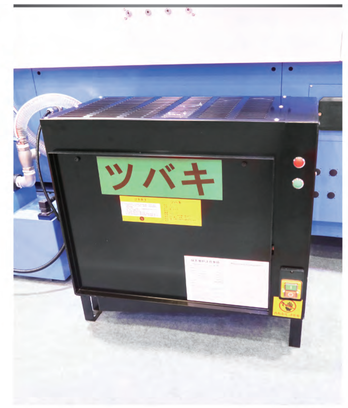
Live tool holders

Various Configuration Options



Side milling motor spindles (NAKANISHI BM-320)

70Bar/100Bar high pressure cooling pump



Electrostatic oil mist collector

Auto cutting off sensor

Chip conveyor

Long workpiece receiver

Collets

Door safety switch

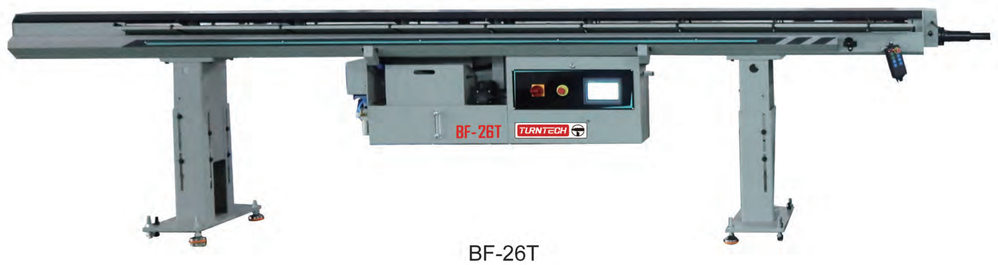
Intelligent fire extinguishing device

Bar Feeders

BF-42P

1.Hydraulic type, high loading and ensures silent turning.
2.Various parameter settings, alarm detection and function display.
3.Employs Mitsubishi AC servomotor to transmit.
4.Adopts PLC control circuit featuring excellent stability and easy operation.
5.Remote control box gives convenience of operation.
6.High-density steel structure ensuring rigidity and durability.
7.Mechanical synchronized device fits sliding headstock CNC lathe and assures fast and stable feeding.
8.Quick-change guide channel easy and convenient to change.

MODEL	Bar dia.(mm)	Bar length(mm)	Weight(kg)
BF–26P	3–26	3200	385
BF–32P	4–32	3200	500
BF–42P	5–42	2600/3200/3800	870/920/970



BF-26T

1.Advanced anti-vibration and electronic synchronization, suitable for high-speed precision part machining.
2.Easy-to-remove material tube for quick and simple maintenance.
3.No need for tool adjustment when changing bar material.
4.PLC combined with servo, touchscreen control, data-driven operation for easy handling.
5.Self-diagnosis of electrical and mechanical faults, facilitating easy and fast repairs.

MODEL	Bar dia.(mm)	Bar length(mm)	Weight(kg)
BF–20T	3–20	3000	460
BF–26T	3–26	3000/4000	460/490
BF–42T	5–42	3000	890

Bar Feeders

1.Compact and robust design.
2.Quick changeover simplicity and precise guiding.
3.Powerful self-centering vise for bar insertion and extraction.
4.Safe operation and optimum RPM.
5.Touchscreen HMI.
6.The BF-12L is particularly suitable for CNC Swiss type lathe SL-125A,SL-075A,SL-046A.

MODEL	Bar dia.(mm)	Bar length(mm)	Weight(kg)
BF–12L	1–12	3260/3726	377/410
BF–20L	3–20	3200/4100	393/440
BF–26L	3–26	3200/4100	393/440
BF–42L	3–42	3200/4285	798/1019

BF-26L

BF-26B

1.It adopts intelligent PLC controller+ LED remote monitoring system, high-efficiency communication interface software programming design, can be matched with any brand of CNC lathe, stable quality, cost-effective.
2.It is in response to the demand of CNC lathe, comprehensively improve the rigid strength of the structure, in order to meet the performance requirements of the rigid strength and shockproof performance of the feeder during the processing of the CNC lathe, and effectively improve the efficiency of the feeder.
3.Adjustment-free clamp holder.
4.Composite material pipe.

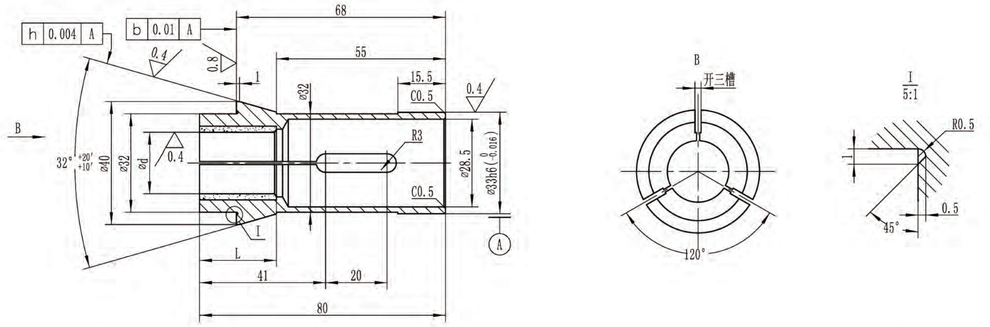
MODEL	Bar dia.(mm)	Bar length(mm)	Weight(kg)
BF–20B	3–20	2600/3100	368/390
BF–26B	3–26	2600/3100	368/390
BF–42B	5–42	2700/3200	800/900

All brands of bar feeder are available:

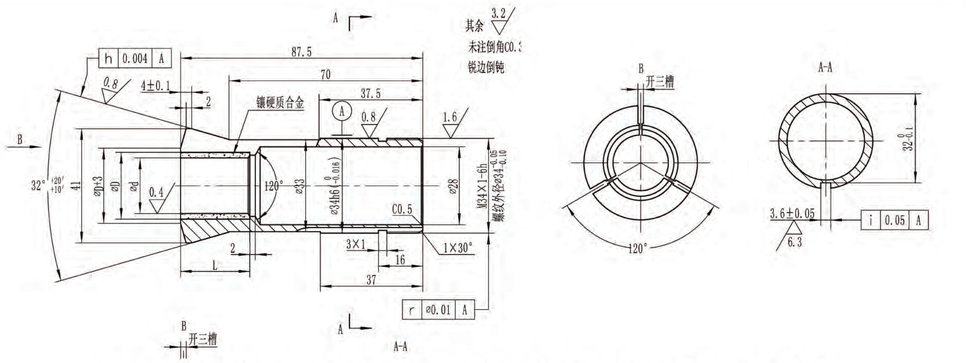
IEMCA TURNTECH® BIOADER Automatic Bar Feeder LNS® P30 Auto Bar Feeder

Collet for Swiss Lathe and Bar Feeder

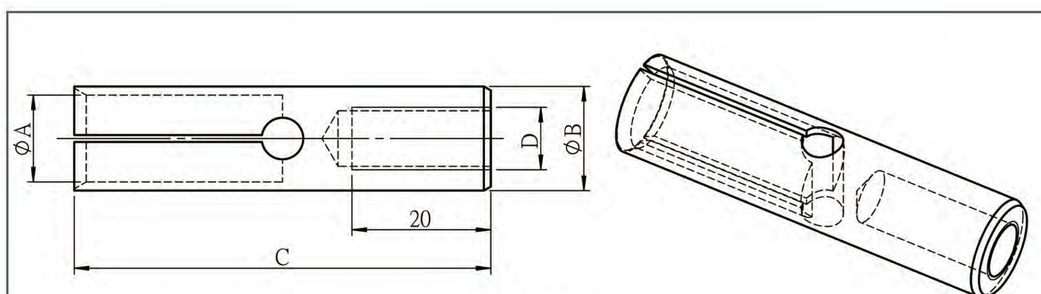
We can provide collet drawings for all models of Swiss lathes and bar feeders, facilitating your quick procurement of suitable collets in the local market.



Dimension drawing of spindle and sub-spindle collets for Swiss lathe (e.g. SL-265A)



Dimension drawing of guide bushing collets for Swiss lathe (e.g. SL-265A)



Dimension drawing of collets for bar feeder (e.g. 26#)

Collet and Mandrel Specification

Collet bore clamping diameter interval for Swiss lathes

The bore diameter interval varies with size ranges – narrower for small diameters and wider for large diameters. The common standard intervals (suitable for mass production) are as follows.

Diameter Range (mm)	Routine Interval	Application Scenario
0.8-10.0	0.1, 0.3, 0.5	Precision small part machining, e.g., electronic and medical components
10.0-20.0	0.5, 1.0	General mechanical machining
20.0-32.0	0.5, 1.0	Machining of larger-diameter workpieces, e.g., auto parts
Above 32.0	1.0	Machining of larger-diameter shafts and heavy-duty precision components

Collet specification interval for bar feeder

Diameter Range (mm)	Routine Interval
1-10	0.5
10-32	1.0
Above 32	2.0

Mandrel specification for bar feeder collet

Bar Feeder Model	Mandrel Outer Diameter (mm)	Thread Specification	Rotation Direction
04/07	10/12	M6×1.0	L/R
12	12/15	M9×1.0/M12×1.0	L/R
20	20/25	M17×1.0/M20×1.5	L
26/32	32/35/37	M25×1.5	L
38/42	37/42/50	M25×1.5	L
46	42/50	M25×1.5	L

L: Left-hand rotation; R: Right-hand rotation

TURNTECH CNC Swiss Lathes: Precision That Empowers Industries

Two decades of commitment

For over 20 years, TURNTECH has stayed true to its mission: enhancing quality of life and creating value for society, with a focus on R&D and manufacturing of Swiss lathes.

Core strengths

Backed by long-term R&D, advanced management, and state-of-the-art production & testing facilities, we deliver high-cost-performance Swiss lathes through leading technology, reliable quality, and attentive service - providing users with precise machining experiences.

Widely applied

Our products now serve sectors including pneumatics, telecommunications, valves, fishing gear, mobile phones, auto parts, and medical devices, earning market acclaim for their exceptional performance.

Future vision

We will continue to upgrade production capacity and quality, with long-term strategic planning, to build a better industry ecosystem through premium products and services.

Expanded Applications