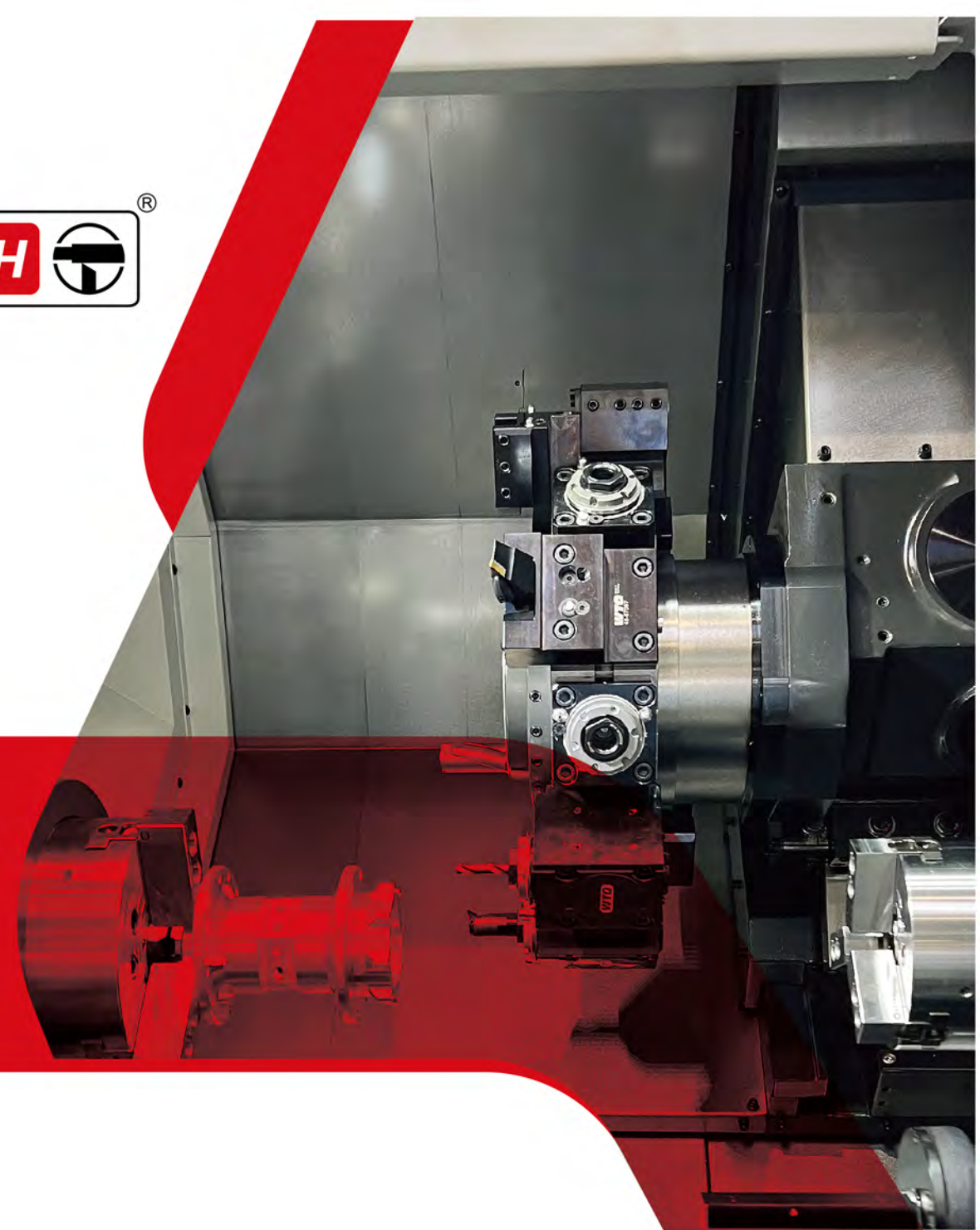




Turning expert, leading the world!

2025



Manufacturer:

Zhejiang Turntech CNC Machine Tool Manufacturing Co.,Ltd.

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浙江领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 lathes. Headquartered in Ningbo, a key city in China's dynamic Yangtze River Delta manufacturing hub, the company spans approximately 40,000 square meters, employs over 260 professionals, and produces around 4,000 CNC lathes annually.

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

Product Portfolio

1.CNC Swiss-type Lathes:

Collaborating with Swiss and Japanese partners, Turntech produces premium Swiss-type lathes with turning diameters ranging from $\phi 4$ mm to $\phi 46$ mm ($\phi 4$, $\phi 7$, $\phi 12$, $\phi 20$, $\phi 26$, $\phi 32$, $\phi 38$, $\phi 42$, $\phi 46$ mm). These machines are widely used in automotive, electronics, medical, aerospace, and other precision industries.

2.CNC Lathes & Turning Centers:

In partnership with Zhejiang University, the company operates a provincial-level R&D center to develop innovative CNC lathes and turning centers. Key specifications include swing diameters from $\phi 400$ mm to $\phi 1000$ mm, featuring servo turret, power turret, Y-axis, and dual-spindle configurations. These products serve aerospace, defense, electronics, and automotive sectors.

Global Reach

Turntech exports to over 70 countries and regions, including Europe, North America, South America, Southeast Asia, and the Middle East. Additionally, the company provides OEM and frame/body manufacturing services for international clients in Germany, the United States, Japan, South Korea, Turkey, and beyond.

Commitment

With continuous technological innovation, Turntech strives to deliver superior CNC lathes that empower global industries.



The leading expert in CNC Swiss-type lathe and CNC turning center technology.

Professional manufacturing – Lifetime accuracy and the utmost rigidity.

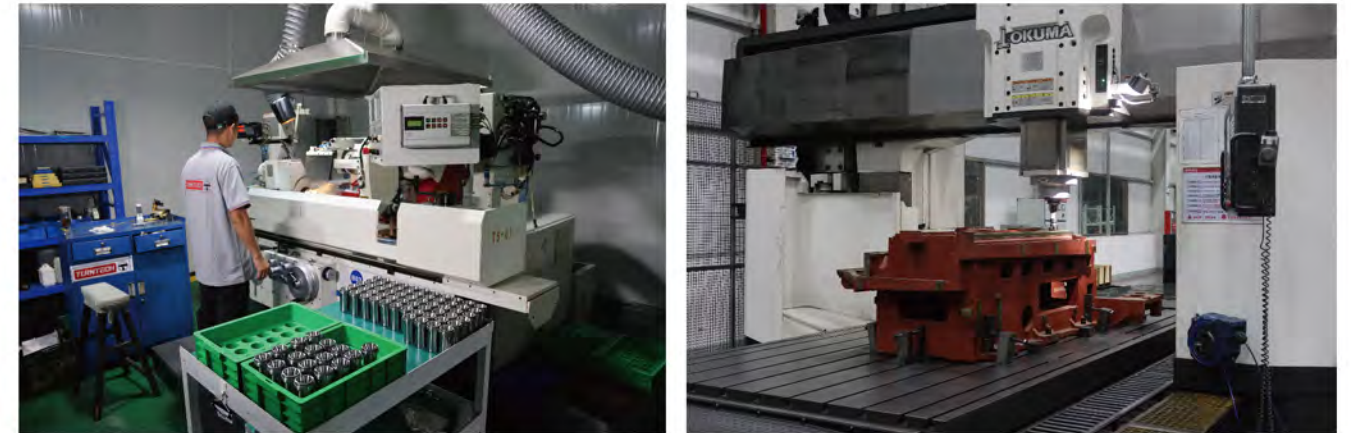
Why choose Turntech?

- 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 and turning centers.
- 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.



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.



TURNTECH has been awarded National High-tech Enterprise, multiple Utility Model Patent Certificates, the 2024 CCMT Spring Swallow Award by CMTBA, and Zhejiang Provincial Star Enterprise.



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

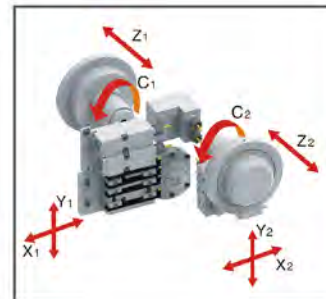
Factory-certified technicians provide full installation and customized training at your plant.

3. 24/7 Remote support

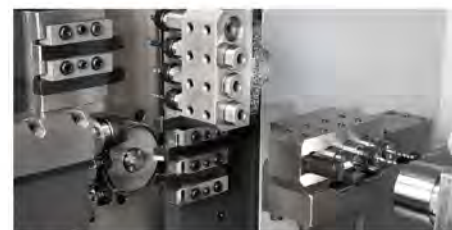
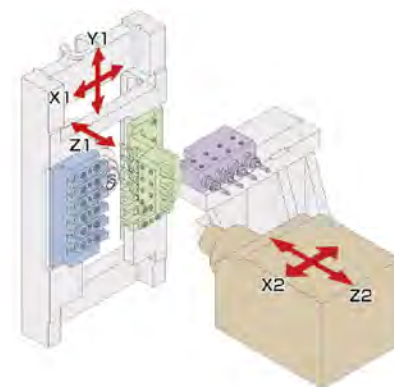
Instant access to our expert online team via remote connectivity for real-time troubleshooting.



CNC Swiss Lathes



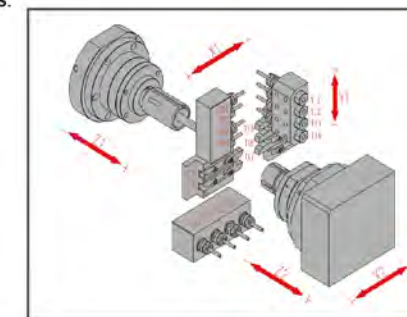
- 1.SL-046A Model:**
Jointly designed by Swiss and Japanese engineers, manufactured by a Chinese OEM partner.
- 2.Control System:**
Dual-channel CNC control with 8-axis 4-linkage, optimized for high-precision machining of small components.
- 3.Structural Rigidity:**
Monolithic machine base construction ensures stability and vibration resistance during precision operations.
- 4.Spindle Technology:**
Built-in spindle motors for both main and back spindles.
High-performance ball bearings support tight tolerances.
CS-axis control with indexing functionality for complex rotational machining.



- 1.Model SL - 075A:**
This is a compound CNC precision automatic lathe. It features a double - spindle, double - control - system, double - toolholder design and 5 - axis control, enabling highly efficient and precise machining operations.
- 2.Tool Post Design:**
The opposed gang tool post design minimizes the movement distance of the tools, thereby achieving the shortest possible indexing time. This significantly enhances the machining efficiency.
- 3.Bar Processing Capability:**
This lathe is designed for processing small - diameter bars ranging from $\phi 1$ to $\phi 7$ mm. It is an ideal choice for machining high - precision micro parts, such as telecom connectors and watch components.

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 $\leq 2\mu\text{m}$.
- 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.
 - $\leq 3\mu\text{m}$ positioning repeatability for 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**
 - Horizontal linear tool layout for efficient chip evacuation and compact operation.
 - Radial live tools and spindle indexing for complex multi - axis operations.
 - Optional live tool setups for specific needs.



MODEL	UNIT	SL-046A	SL-075A	SL-125A
Max. turning dia.	mm	$\Phi 4$	$\Phi 7$	$\Phi 12$
Spindel bore	mm	$\Phi 10$	$\Phi 10$	$\Phi 16$
Main spindle speed	rpm	16000	15000	10000
Back spindle speed	rpm	16000	12000	10000
Cross live tool speed	rpm	8000	10000	6000
Max. machining length	Rotary guide bush	mm	30	40
	Fixed guide bush	mm	30	70
	No bushing	mm	Max. 2.5D	/
Rapid feed rate	m/min	20	X2, Z2: 36 Y1, Z1: 32 X1:24	X1:24 X2/Y1/Z1/Z2:30
O.D tools	T	4	9/(5)	5x[□10]
Front tools	T	3	4	4x[ER11]
Cross tools	T	2	/ (4)	4x[ER11]
Back tools	T	2	4(opt.5)	4x[ER11]
Main spindle motor power	kW	0.75	1.1/1.5	1.5
Sub spindle motor power	kW	1.1	2.2/3.7	1.5
Cross live tool motor power	kW	0.4	1	0.75
Coolant motor power	kW	0.15	0.25	0.25
Overall dimensions	mm	1880x940x1750	2015x1175x1730	2100x1100x1700
Weight	kg	1000	1950	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 $\leq 2\mu\text{m}$.

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.

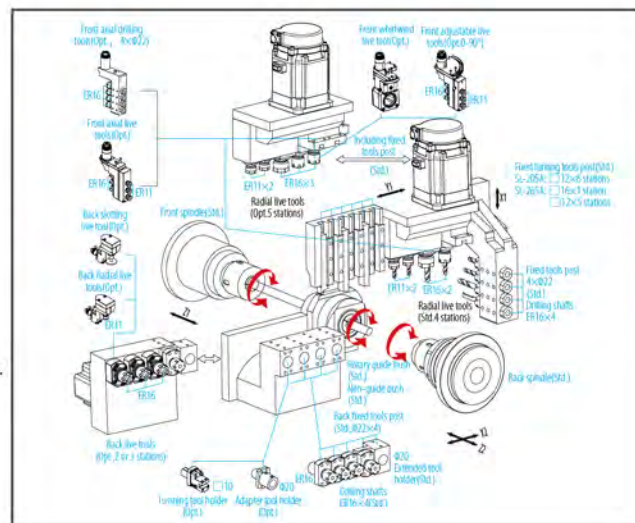
- $\leq 3\mu\text{m}$ positioning repeatability for accuracy and long - term repeatability.

5.Adjustable Guide Bushing System

- Quick switch between bushing and non - bushing modes for different workpieces.

6.Advanced Tooling Configuration

- Horizontal linear tool layout for efficient chip evacuation and compact operation.
- Radial live tools and spindle indexing for complex multi - axis operations.
- Optional live tool setups for specific needs.



CNC Swiss Lathes



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
Cross live tool speed	rpm	5000	5000
Max.machining length	mm	Rotary guide bush 180 Non guide bush Max. 50, 2.5xD	
Rapid feed rate	m/min	24(X2, Y1, Z1, Z2) 20(X1)	
O.D tools	T	6x[□12]	1x[□16] + 5x[□12]
Front tools	T	4x[ER16]	
Cross tools	T	2x[ER11] + 2x[ER16]	
Back tools	T	4x[ER16] + 1x[Φ20]	
Main spindle motor power	kW	4.2	
Sub spindle motor power	kW	3.1	
Cross live tool motor power	kW	1	
Coolant motor power	kW	0.4	
Overall dimensions	mm	2380x1300x1770	
Weight	kg	2400	

CNC High Rigidity 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 $\leq 2\mu\text{m}$.

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.
- $\leq 3\mu\text{m}$ positioning repeatability for accuracy and long - term repeatability.

5.Adjustable Guide Bushing System

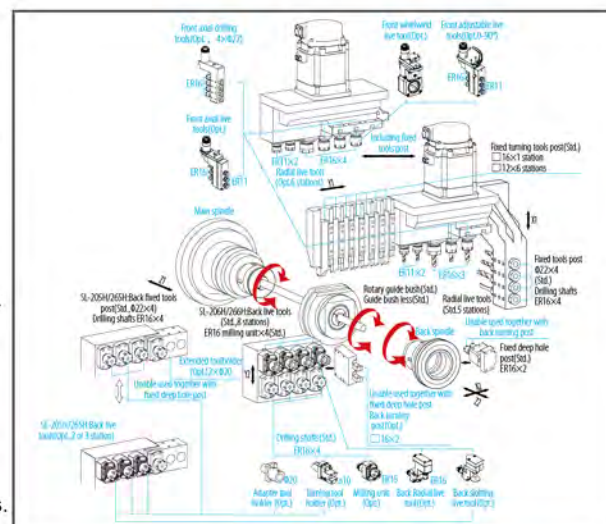
- Quick switch between bushing and non - bushing modes for different workpieces.

6.Advanced Tooling Configuration

- Horizontal linear tool layout for efficient chip evacuation and compact operation.
- Radial live tools and spindle indexing for complex multi - axis operations.
- Optional live tool setups for specific needs.

7.High Rigidity Structure

- Heavy-duty, high-rigidity design with monoblock bed and carriage.



CNC High Rigidity Swiss Lathes

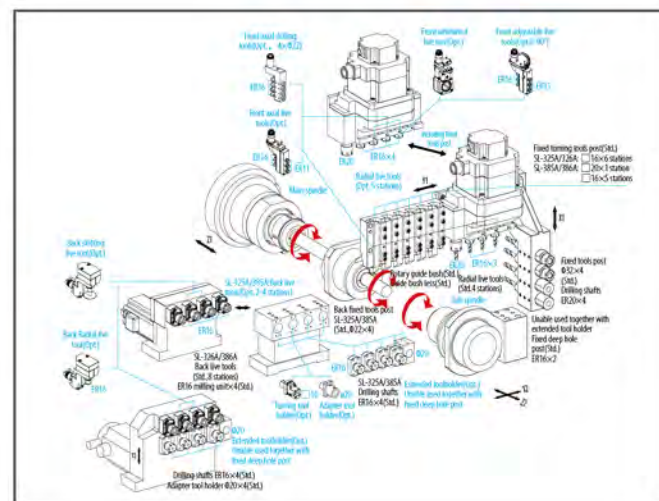


MODEL	UNIT	SL-205H	SL-206H	SL-265H	SL-266H
Max. turning dia.	mm	$\Phi 20$		$\Phi 26$	
Spindle bore	mm	$\Phi 25$		$\Phi 30$	
Main spindle speed	rpm	10000 (Rotary guide bushing 8000)		10000 (Rotary guide bushing 8000)	
Sub spindle speed	rpm	10000		10000	
Cross live tool speed	rpm	6000		6000	
Max. machining 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)	
	m/min	20(X1)	20(X1, Y2)	20(X1)	20(X1, Y2)
O.D tools	T	1x[$\square 16$]+6x[$\square 12$]		1x[$\square 16$]+6x[$\square 12$]	
Front tools	T	4x[ER16]		4x[ER16]	
Cross tools	T	2x[ER11] + 3x[ER16]		2x[ER11] + 3x[ER16]	
Back tools	T	4x[ER16](Fixed)	4x[ER16](Fixed)	4x[ER16](Fixed)	4x[ER16](Fixed)
			4x[ER16](Rotary)		4x[ER16](Rotary)
Main spindle motor power	kW	4.2		4.2	
Sub spindle motor power	kW	4.2		4.2	
Cross live tool motor power	kW	1		1	
Coolant motor power	kW	0.4		0.4	
Overall dimensions	mm	2565x1350x1850		2565x1350x1850	
Weight	kg	2900	3000	2900	3000

CNC Swiss Lathes



- CNC Control System:**
 - Standard: SYNTEC.
 - Optional: FANUC, SIEMENS or Mitsubishi on request.
- High – Precision Spindle**
 - Imported high - precision angular contact bearings for rigidity and long - term accuracy.
 - Radial runout $\leq 2\mu\text{m}$.
- High – Performance Cast Iron Construction**
 - One - piece high - quality Meehanite cast iron body with stable design.
 - Stress - relief annealing for rigidity and dimensional stability.
- Precision Feed System**
 - Servo - driven axes with imported ball screw bearings and linear guideways.
 - $\leq 3\mu\text{m}$ positioning repeatability for accuracy and long - term repeatability.
- Adjustable Guide Bushing System**
 - Quick switch between bushing and non - bushing modes for different workpieces.
- 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.
 - Optional live tool setups for specific needs.



CNC Swiss Lathes



MODEL	UNIT	SL-325A	SL-326A	SL-385A	SL-386A
Max. turning dia.	mm	Φ32		Φ38	
Spindle bore	mm	Φ36		Φ39	
Main spindle speed	rpm	8000 (Rotary guide bushing 6000)		5000 (Rotary hydraulic cylinder)	
Sub spindle speed	rpm	8000		8000	
Cross live tool speed	rpm	6000		6000	
Max. machining length	Rotary guide bush	mm		310	
	Non guide bush	mm		Max.80, 2.5xD	
Rapid feed rate	m/min	30(X2, Y1, Z1, Z2)		30(X2, Y1,Z2)	
		24(X1)	24(X1, Y2)	24(X1, Z1)	24(X1, Y2, Z1)
O.D tools	T	6x[□16]		1 x [□20]+5 x [□16]	
Front tools	T	4x[ER20]		4x[ER20]	
Cross tools	T	1x[ER20] + 3x[ER16]		1x[ER20] + 3x[ER16]	
Back tools	T	4x[ER16](Fixed)	4x[ER16](Fixed) 4x[ER16](Rotary)	4x[ER16](Fixed)	4x[ER16](Fixed) 4x[ER16](Rotary)
Main spindle motor power	kW	6.3		6.3	
Sub spindle motor power	kW	4.2		4.2	
Cross live tool motor power	kW	1.1		1.1	
Coolant motor power	kW	0.4		0.4	
Overall dimensions	mm	2960x1660x1920		3100x1660x1920	
Weight	kg	3750		3850	

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!



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)



Live tools and tool holders



Transformer



Intelligent fire extinguishing device



Spindle oil cooler



70Bar/100Bar high pressure pump



Bar feeder



Collets



Auto cutting off sensor



Automatic B axis



Chip conveyor



Electrostatic oil mist filter



Long workpiece receiver

Bar Feeders



BF-65P

- 1.High loading speed, specially developed design, no special requirements or restrictions on material straightness.
- 2.Loaded material impacts and rests on urethane. Bumpers positioned above V channel.
- 3.Smooth horizontal bar loading provides excellent efficiency and durability. Material is presented up to spindle centerline.
- 4.Quick and accurate adjustment of centerline height depends on different diameters. Dual scale measurement.
- 5.The driver adapts MITSUBISHI/DELTA servomotor which allows the feeding of the bar to a accurate position.
- 6.Easy to operate and maintain. Small footprint.

MODEL	Bar dia.(mm)	Bar length(mm)	Weight(kg)
BF-65P	5-65	1200/1500	210/240
BF-65T	5-65	1250/1500	310/340



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:



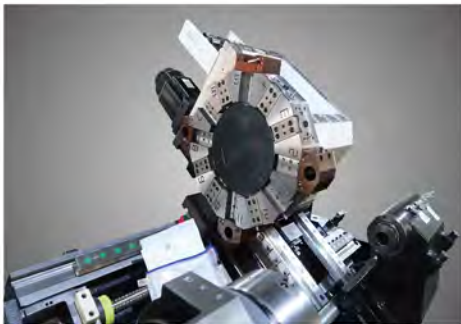
CNC Slant Bed Lathes



1. Roller linear guideways.
2. Slant bed structure with linear guideway highly increase the accuracy and stability.
3. Precision double row cylindrical roller bearings in spindle, improves accuracy and rigidity. Heat dissipating design in spindle sleeve to reduce temperature.
4. Integrated motor and carriage design ensure the accuracy that may be effected by installation.
5. X/Z axis servo motor is connected with ball screw by elastic joint coupling, with high precision and rigidity.
6. Fully guard protects all electric device from water, oil and metal shavings.
7. Hydraulic turret, high positioning accuracy, and little deformation for heavy cutting.
8. Hydraulic tailstock, high precision, high effective and stable.
9. 12T power turret on request.
10. SBL-500 with sub-spindle is available.

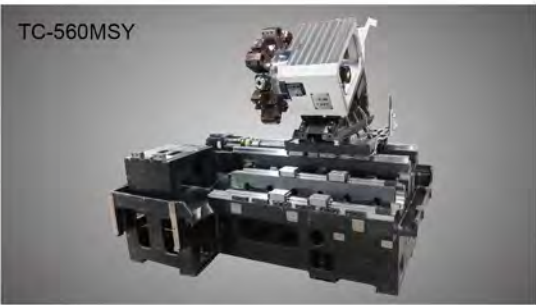
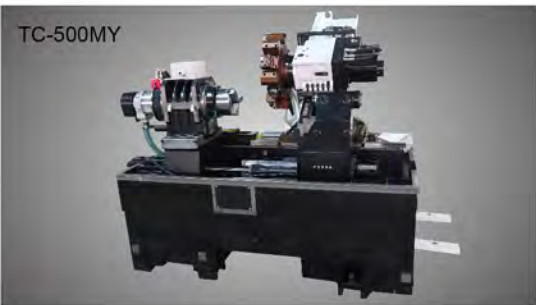


CNC Slant Bed Lathes



MODEL		UNIT	SBL-400		SBL-500
Capacity	Max. swing over bed	mm	400		500
	Max. swing over cross slide	mm	250		300
	Max. machining dia.	mm	320		430
	Max. turning length	mm	450(opt. 425)	950	650
	Bar diameter	mm	Φ50 (opt. Φ74)	Φ74	Φ74
Spindle	Slant bed angle		45°		35°
	Taper		A2-6 (opt. A2-8)	A2-8	A2-8
	Bore	mm	Φ62 (opt. Φ86)	Φ86	Φ86
	Speed	rpm	50-3000	50-2500	60-2500
	Main motor power	kW	11	11	15
	Chuck size	Inch	8" (opt. 10")	10"	10"
Feeding	X axis travel	mm	200	180	240
	Z axis travel	mm	500 (opt. 475)	950	680
	X/Z axis rapid speed	m/min	20/25		25/25
Turret	Hydraulic type	T	8/12		12
	Tool size	mm	25x25/Φ32		25x25/Φ40
Tailstock	Quill taper/dia./travel	mm	MT.5, Φ88, 80		MT.5, Φ100, 80
Others	Overall dimensions	mm	2620x1880x1870	3560x1700x2000	3320x2000x2020
	Weight	kg	3505	4055	5255

CNC Turning Centers



CNC Turning Centers



- TC-500MY/MSY Features:**
- 1.30° integrated slant bed, step type roller linear guideway.
 - High torque, high energy saving, and high performance electro spindle.
 - The power turret has high positioning accuracy, fast indexing speed, short tool change time, and no lifting tool thereby improving processing efficiency.
 - The X/Z axis servo motor is directly connected to the precision ball screw through an elastic coupling, with high accuracy.

- TC-560MY/MSY Features:**
- 1.35° integrated slant bed, step type roller linear guideway.
 - High-rigidity and high-torque built-in electro spindle.
 - Integrated power turret structure, and the high-precision 3-pc end-scale clutch is positioned to ensure positioning accuracy and clamping rigidity.

MODEL		UNIT	TC-500MY	TC-500MSY	TC-560MY	TC-560MSY
Capacity	Max. swing over bed	mm	500	500	560	560
	Max. machining dia.	mm	260	—	360	—
	Max. turning length	mm	350	350	560; 800	560
	Bar dia.	mm	Φ45	Φ45	Φ52 (opt. Φ85)	Φ52
Travel	XY/Z axis	mm	X:220 Y:±40 Z: 360	X:220 Y:±40 Z: 360	X:180 Y:±50 Z: 570;810	X:180 Y:±50 Z: 560
Feeding	XY/Z rapid feed rate	m/min	25/10/25	25/10/25	30/10/30	30/10/30
Spindle	Taper (Bore)	mm	A2-5 (Φ56)	A2-5 (Φ56) A2-4 (Φ36)	A2-6 (Φ62) (opt.A2-8)	A2-6 (Φ62) A2-5 (Φ55)
	Speed	rpm	50-5000	50-5000 50-6000	50-4000	50-4000 50-5000
	Motor power	kW	12.3	12.3 9.5	22	22 10.8
	Chuck		6"	6" 5"	8" (opt.10")	8" 6"
Turret	No. of tools	T	12 (BMT45)	12 (BMT45)	12 (BMT55)	12 (BMT55)
Tailstock	Taper/travel	mm	MT.4, 390	Sub-spindle travel:400	MT.5, 620/860	Sub-spindle travel:500
Others	Overall dimensions	mm	2190x1780x1800	2190x1780x1800	2790/3030x1900x1940	2790x1900x1940
	Weight	kg	3000	3100	4500; 4820	4800

CNC Turning Centers



MODEL		UNIT	TC-650		TC-650M	
Machining capacity	Max. swing over bed	mm	650		650	
	Max. machining dia.	mm	400		400	
	Max. turning length	mm	600/1000		600/1000	
	Bar dia.	mm	Φ 52	Φ 76	Φ 52	Φ 76
Spindle	Taper		A2-6	A2-8	A2-6	A2-8
	Bore	mm	Φ 62	Φ 86	Φ 62	Φ 86
	Speed (variable)	rpm	50-4000		50-4000	
	Spindle power	kW	11	15	11	15
	Chuck size	Inch	8	10	8	10
Feed rate	X,Y-axes travel	mm	230/--		230/--	
	Z axis travel	mm	650/1000		650/1000	
	X,Y,Z-axes rapid speed	m/min	30/10/30		30/10/30	
Turret	Type	T	Servo turret 12		Power turret 12(BMT55)	
	Tool size	mm	25x25/Φ 40		25x25/Φ 40/ER32	
Tailstock	Tailstock taper		MT.5		MT.5	
	Tailstock travel	mm	550/780		550/780	
Power source	Total rated power	KVA	25		30	
	Total rated current	A	50		60	
Others	Overall dimensions	mm	3200/3900x1950x2050		3200/3900x1950x2050	
	Weight	kg	4700/5700		4700/5700	

CNC Turning Centers

- 1.Modular Design:**
Serialized models with modular architecture simplify selection of the optimal configuration for diverse applications.
- 2.Structural Rigidity:**
Step-type linear guideways paired with a 30° integral slant bed design enhance stability and load-bearing capacity.
- 3.Spindle Technology:**
Large-span integral spindle supported by double-row cylindrical roller bearings ensures high-precision machining.
- 4.Motion System:**
45mm roller linear guideways enable rapid traverse rates while maintaining long-term durability.
- 5.Lubrication System:**
Grease-lubricated components reduce maintenance frequency and promote cleaner, eco-friendly operation.
- 6.Tailstock Options:**
Available with hydraulic tailstock or servo-programmable tailstock for flexible workpiece clamping.
- 7.Model Variants:**
TC-650/TC-650M/TC-650MY: Mechanical spindle configurations.
TC-650MSY: Dual electro-spindle for multi-tasking capabilities.

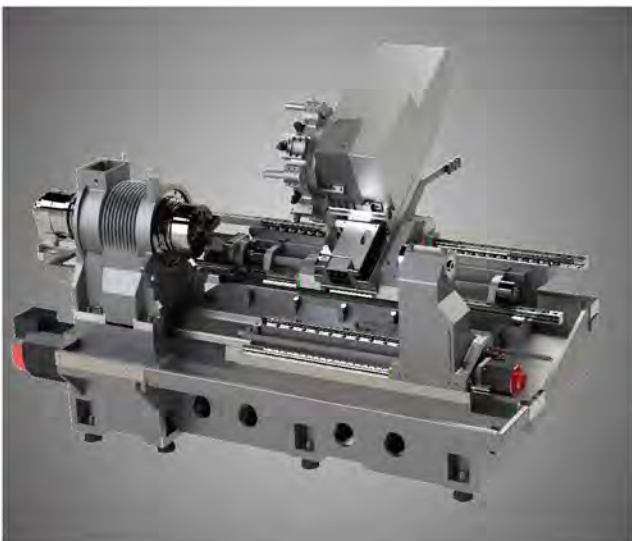


MODEL		UNIT	TC-650MY		TC-650MSY	
Machining capacity	Max. swing over bed	mm	650		650	
	Max. machining dia.	mm	400		400	
	Max. turning length	mm	600/1000		300/750	
	Bar dia.	mm	Φ 52	Φ 76	Φ 52 (Spindle)	Φ 46 (Sub-spindle)
Spindle	Taper		A2-6	A2-8	A2-6 (Optional:A2-8)	A2-5 (Optional:A2-6)
	Bore	mm	Φ 62	Φ 86	Φ 62(Φ 86)	Φ 56(Φ 62)
	Speed (variable)	rpm	50-4000		50-4000(50-2500)	50-5000(50-4000)
	Spindle power	kW	11	15	22(27)	11(22)
	Chuck size	Inch	8	10	8" (10")	6" (8")
Feed rate	X,Y-axes travel	mm	200/± 50		200/± 50	
	Z axis travel	mm	650/1000		500/890	
	X,Y,Z-axes rapid speed	m/min	30/10/30		24/10/24	
Turret	Type	T	Power turret 12(BMT55)		Power turret 12(BMT65)	
	Tool size	mm	25x25/Φ 40/ER32		25x25/Φ 50/ER40	
Tailstock	Tailstock taper		MT.5		--	
	Tailstock travel	mm	550/780		--	
Power source	Total rated power	KVA	35		50	
	Total rated current	A	70		100	
Others	Overall dimensions	mm	3200/3900x1950x2050		3200/3900x1950x2050	
	Weight	kg	4900/5900		5100/6000	

CNC Turning Centers



- 1.Structural Design:
- Employs Finite Element Analysis (FEA) to simulate complex working conditions, ensuring optimized structural rigidity and performance under dynamic loads.
 - Step-type headstock with large-span design for superior rigidity, ideal for heavy-duty cutting applications.
- 2.Spindle System:
- Advanced integral spindle assembly enhances machining precision and stability.
 - NN-type roller bearings support heavy radial loads, while angular contact ball bearings efficiently manage axial cutting forces.
- 3.Guideway Technology:
- 30° integral slant bed design with high-rigidity step guideways increases base stability and cutting efficiency.
 - X-axis rectangular box ways improve vibration damping and dynamic rigidity for heavy-duty operations.
 - Z-axis 55mm linear roller guideways deliver high-speed, high-precision movement.
- 4.Tailstock & Accessories:
- Standard hydraulic programmable tailstock; optional servo programmable tailstock for advanced positioning.
 - Extensive customization options: sub-spindle, chip conveyor, hydraulic steady rest, bar feeder, oil mist collector, safety door lock, etc.



CNC Turning Centers

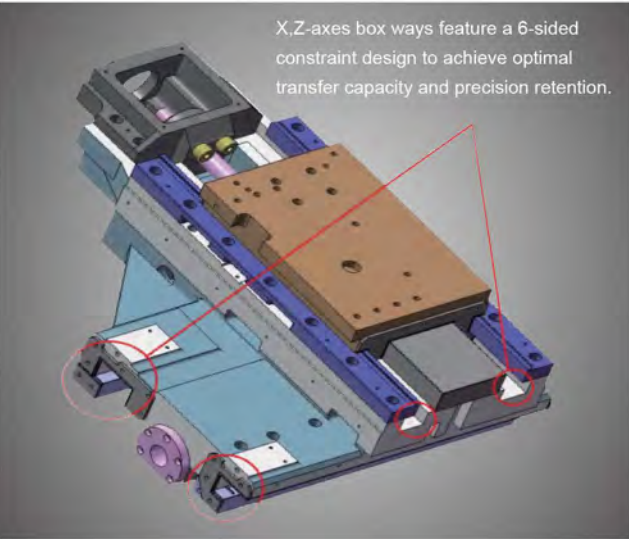


MODEL		UNIT	TC-700		TC-700M	
Capacity	Max. swing over bed	mm	700		700	
	Max. machining dia.	mm	530		510	
	Standard machining dia.		400		400	
	Max. turning length	mm	1000/1500/2000/3000		1000/1500/2000/3000	
	Bar dia.	mm	Φ 75	Φ 100	Φ 75	Φ 100
Spindle	Taper		A2-8	A2-11	2-8	A2-11
	Bore	mm	Φ 92	Φ 120	Φ 92	Φ 120
	Speed	rpm	3000	2000	3000	2000
	Spindle power	kW	11/15	18.5/22	11/15	18.5/22
	Chuck size	Inch	10"	12" (Optional:15")	10	12" (Optional:15")
Feed rate	X axis travel	mm	265+25		255+30	
	Z axis travel	mm	1090/1500/2000/3000		1000/1500/2000/3000	
	X,Y-axes rapid speed	m/min	18/24		18/24	
Turret	Type	T	Hydraulic turret 12		Power turret 12(BMT65)	
	Tool size	mm	25x25/Φ40		25x25/Φ50/ER40	
Tailstock	Tailstock taper		MT.5		MT.5	
	Tailstock travel	mm	800/1370/1870/2870		800/1370/1870/2870	
Power source	Total rated power	KVA	30		35	
	Total rated current	A	60		70	
Others	Overall dimensions	mm	3310/3850/4310/5310x1950x1900		3310/3850/4310/5310x1950x1900	
	Weight	kg	5500/5900/6500/7500		5500/5900/6500/7500	

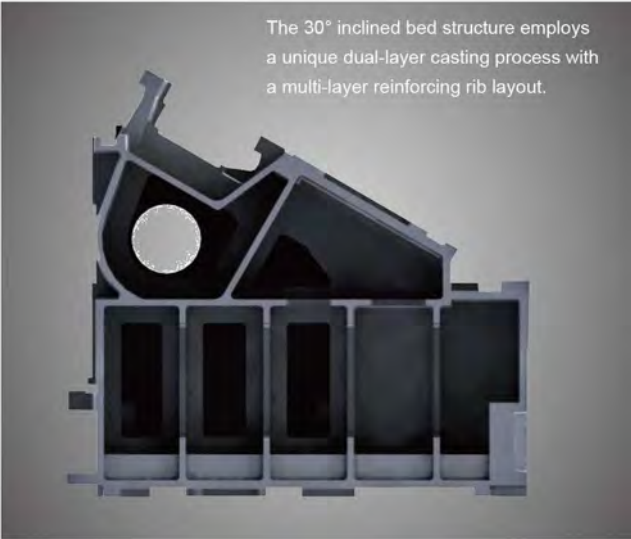
CNC Turning Centers



- Optimized main unit structure via FEA reduces machine height while maintaining dynamic rigidity under heavy cutting.
- Integral 30° slant bed made of high-strength HT300 cast iron. High-rigidity stepped box ways undergo precision grinding in single clamping; slideways feature wear-resistant inserts with hand-scraped precision mating. Bearing/motor housings use embedded scraped assembly, significantly improving stability and accuracy retention during heavy cutting.
- The spindle employs a low-speed high-torque motor with a two-speed automatic hydraulic shifting mechanism.
 - 1:2.5/1:7.4 reduction ratios enhance low-speed torque, enabling both rigid and high-speed cutting. X/Z axes utilize high-power servo motors ensuring rapid response. Eight Japanese industrial-grade multi-groove belts increase contact area and friction with pulleys for stable high-speed operation.
- Standard MT.5 (Opt: MT.6, ϕ 150/150mm sleeve diameter/stroke) hydraulic programmable tailstock. Optional servo programmable tailstock.
- Options: Hydraulic steady rest; The electric spindle and dual spindles; The spindle gear box.



X,Z-axes box ways feature a 6-sided constraint design to achieve optimal transfer capacity and precision retention.



The 30° inclined bed structure employs a unique dual-layer casting process with a multi-layer reinforcing rib layout.

CNC Turning Centers



MODEL		UNIT	TC-900			TC-900M			TC-900MY		
Capacity	Max. swing over bed	mm	920(Opt:750)			920(Opt:750)			920		
	Max. machining dia.	mm	630			630			600		
	Carriage machining dia.	mm	630(450)			630(450)			600		
	Max. turning length	mm	740/1020/11640/2240/3200			630/930/1530/2130/3100			580/830/1430/2030/3100		
	Bar dia.	mm	Φ 75	Φ 90	Φ 135	Φ 75	Φ 90	Φ 135	Φ 75	Φ 90	Φ 135
Spindle	Taper		A2-8	A2-11	A2-15	A2-8	A2-11	A2-15	A2-8	A2-11	A2-15
	Bore	mm	Φ 87	Φ 105	Φ 157	Φ 87	Φ 105	Φ 157	Φ 87	Φ 105	Φ 157
	Speed	rpm	2800	2500	2000	2800	2500	2000	2800	2500	2000
	Spindle power	kW	22	22	22	22	22	22	22	22	22
	Chuck size	Inch	10"	12"	15"	10"	12"	15"	10"	12"	15"
Feed rate	X axis travel	mm	325			325			325		
	Y axis travel	mm	---			---			± 60		
	Z axis travel	mm	760/1100/1700/2300/3200			760/1100/1700/2300/3200			760/1085/1685/2285/3100		
	X,Y-axes rapid speed	m/min	18/24			18/24			18/24		
Turret	Type	T	Servo turret 12			Power turret 12(BMT65)			Power turret 12(BMT65)		
	Tool size	mm	32x32/ Φ 50			32x32/ Φ 50			32x32/ Φ 50		
	Tailstock taper		MT.5			MT.5			MT.5		
Tailstock	Sleeve d ϕ /travel	mm	Φ 100/80			Φ 100/80			Φ 100/80		
	Tailstock travel	mm	785/1085/1685/2285/3000			785/1085/1685/2285/3000			785/1085/1685/2285/3000		
Accuracy	Machining accuracy		IT6			IT6			IT6		
	Re-positioning accuracy	mm	0.003			0.003			0.003		
Others	Overall dimensions	mm	5000/5200/6250/6500/6700x2280x2400			5000/5200/6250/6500/6700x2280x2400			5000/5200/6250/6500/6700x2280x2400		
	Weight	T	7.5/8.5/10.5/12.5/14			8/9/11/13/14			7.5/8.5/10.5/12.5/14.5		

CNC Truss Robots

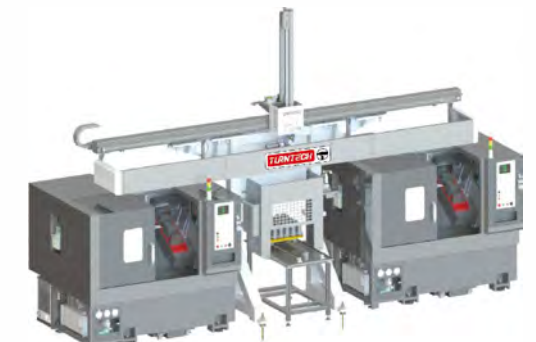
All-in-one solution of design, integration and turnkey, etc.!



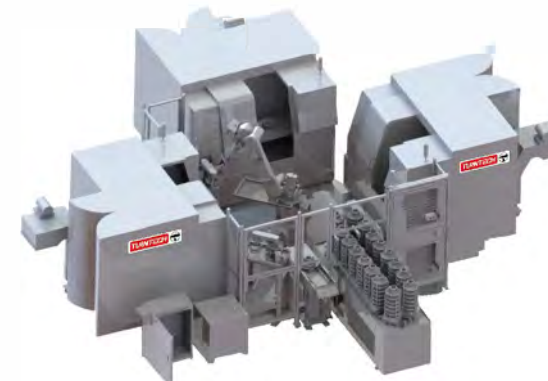
Automation solution



Flipflop + joint robot



One truss drags two



Production combination with six arms robot



Production line combination with single gantry robot machine

Exchange table trolley robot

