



**FULL FUNCTIONAL**  
**CNC LATHE**  
**TURNING CENTER**

# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCL-10** | **KDCL-10P** | **KDCL-15**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- The machine 45° integrated slant bed with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
- Full protection design, beautiful appearance and convenient operation and maintenance.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCL-10	KDCL-10P	KDCL-15
MACHINING	Max. swing over bed	Φ330mm	Φ320mm	Φ360mm
	Max. cutting dia. for disc parts	Φ200mm	Φ320mm	Φ250mm
	Max. cutting dia. for axis parts	Φ120mm	Φ110mm	Φ150mm
	Max. cutting length for axle parts	300mm	300mm	300mm
SPINDLE	Spindle bore	Φ38mm	Φ46mm	Φ56mm
	Spindle nose	A — 4	A — 4	A — 5
	Spindle speed	6000r/min	6000r/min	6000r/min
TRAVEL	Max. travel of Axis X	115mm	380mm	150mm
	Max. travel of Axis Z	310mm	330mm	320mm
	Rapid feed for Axis X	12m/min	12m/min	12m/min
	Rapid feed for Axis Z	20m/min	20m/min	20m/min
FEED	Tool post stations	8-ways	Gang tons	8-ways
	Outside dia. Cutting tool shank	20x20mm	Φ25mm	Φ32mm
	Max. inner dia Cutting tool shank	Φ25mm	4-Station(Gang tools)	4-Station
TAILSTOCK	External diameter of tailstock sleeve	Φ63mm	-	Φ80mm
	Max. travel of tailstock sleeve	100mm	-	90mm
	Taper of tailstock sleeve	MT. No.3	-	MT. No.4
OTHER	Power of main motor	3.7/5.5KW	5.5/7.5KW	7.5/11KW
	The bed structure	45° slant bed	45° slant bed	45° slant bed
	Min. input	0.001mm	0.001mm	0.001mm
	Repeatability	≤0.006mm	≤0.006mm	≤0.006mm
	Chuck dia	6°		6°
	Overall dimensions (LxWxH)	3115x1525x1685mm	1930x1600x1700mm	2700x1460x1680mm
	Netweight	2500kg	2400kg	3000kg
OPTIONAL	CNC system	●	●	●
	Tool post	●	○	●
	Chuck	●	●	●
	Spindle	○	○	○
	Tailstock	●	○	●
	Measure	●	●	●

Agent

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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCL-10H** | **KDCL-15H**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- The machine 45° integrated slant bed with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
- The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design with nice shape.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCL-10H	KDCL-15H	
MACHINING	Max. swing over bed	Φ330mm	Φ360mm	
	Max. cutting dia. for disc parts	Φ110mm	Φ250mm	
	Max. cutting dia. for axis parts	Φ110mm	Φ140mm	
	Max. cutting length for axle parts	270mm	280mm	
SPINDLE	Spindle bore	Φ38mm	Φ56mm	
	Spindle nose	A — 4	A — 5	
	Spindle speed	6000r/min	6000r/min	
TRAVEL	Max. travel of Axis X	115mm	140mm	
	Max. travel of Axis Z	310mm	320mm	
FEED	Rapid feed for Axis X	12m/min	12m/min	
	Rapid feed for Axis Z	20m/min	20m/min	
TURRET	Tool post stations	8-ways	8-ways	
	Live tool serve motor power	2.2/3.7KW	2.2/3.7KW	
	Max.imum speed of live tool	6000r/min	6000r/min	
	Outside dia. Cutting tool shank	16x16mm	20x20mm	
TAILSTOCK	Max. inner dia Cutting tool shank	Φ25mm	Φ32mm	
	External diameter of tailstock sleeve	Φ63mm	Φ80mm	
	Max. travel of tailstock sleeve	100mm	90mm	
OTHER	Taper of tailstock sleeve	MT. No.3	MT. No.4	
	Power of main motor	3.7/5.5KW	7.5/11KW	
	The bed structure	45° slant bed	45° slant bed	
	Min. input	0.001mm	0.001mm	
	Repeatability	≤0.006mm	≤0.006mm	
	Chuck dia	6°	6°	
	Overall dimensions (LxWxH)	3115x1525x1685mm	2700x1460x1680mm	
	Netweight	2500kg	3000kg	
	OPTIONAL	CNC system	●	●
		Tool post	●	●
Chuck		●	●	
Spindle		○	○	
Tailstock		●	●	
Measure		●	●	

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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCK-20C**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- Flat bed and slant slide structure, with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design with nice shape.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCK-20C
MACHINING	Max. swing over bed	Φ410mm
	Max. cutting dia. for disc parts	Φ360mm
	Max. cutting dia. for axis parts	Φ200mm
	Max. cutting length for axle parts	360mm
SPINDLE	Spindle bore	Φ56mm
	Spindle nose	A — 5
	Spindle speed	3000r/min
TRAVEL	Max. travel of Axis X	180mm
	Max. travel of Axis Z	420mm
	Rapid feed for Axis X	12m/min
	Rapid feed for Axis Z	20m/min
FEED	Tool post stations	8-ways
	Outside dia. Cutting tool shank	25x25mm
	Max. inner dia Cutting tool shank	Φ32mm
TAILSTOCK	External diameter of tailstock sleeve	Φ63mm
	Max. travel of tailstock sleeve	100mm
	Taper of tailstock sleeve	MT. No.4
	Power of main motor	7.5/11KW
OTHER	The bed structure	
	Min. input	0.001mm
	Repeatability	≤0.006mm
	Chuck dia	8°
	Overall dimensions (LxWxH)	2435x1270x1660mm
	Netweight	2700kg
	CNC system	●
OPTIONAL	Tool post	●
	Chuck	●
	Spindle	○
	Tailstock	●
	Measure	●

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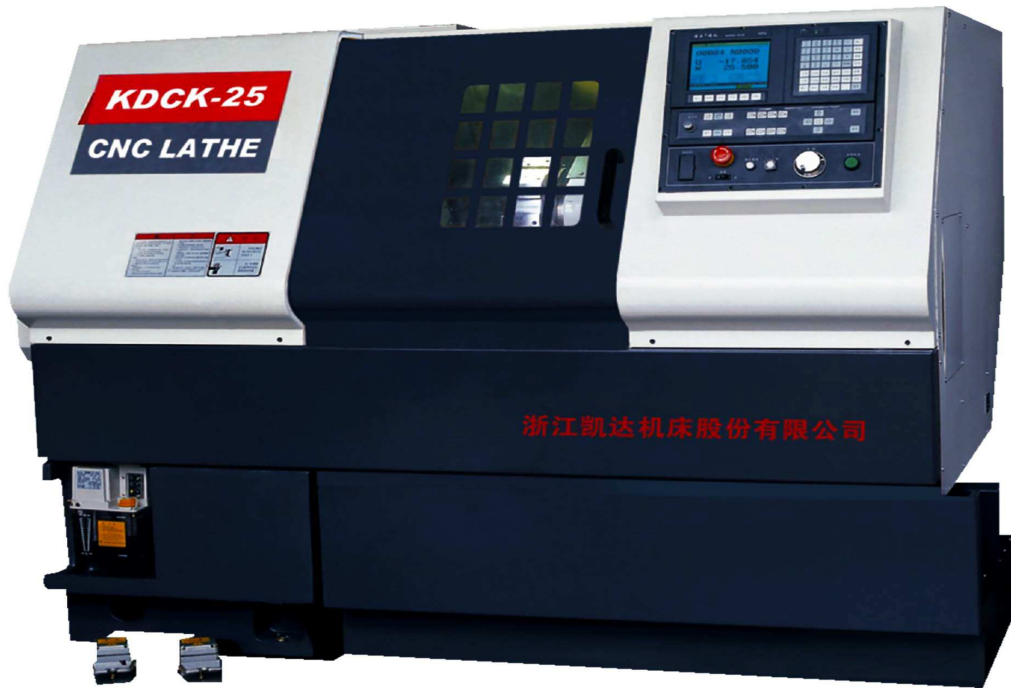
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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCK-25** | **KDCK-40**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- Flat bed and slant slide structure, with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design, beautiful appearance and convenient operation and maintenance.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCK-25	KDCK-40
MACHINING	Max. swing over bed	Φ500mm	Φ750mm
	Max. cutting dia. for disc parts	Φ300mm	Φ730mm
	Max. cutting dia. for axis parts	Φ250mm	Φ350mm
SPINDLE	Max. cutting length for axle parts	420mm	870mm
	Spindle bore	Φ62mm	Φ105mm
	Spindle nose	Φ170mm	Φ220mm
TRAVEL	Spindle speed	3000r/min	100-2000r/min
	Max. travel of Axis X	80mm	350mm
	Max. travel of Axis Z	500mm	1050mm
FEED	Rapid feed for Axis X	12m/min	12m/min
	Rapid feed for Axis Z	20m/min	20m/min
TURRET	Tool post stations	8-ways	12-ways
	Outside dia. Cutting tool shank	25x25mm	25x25mm
	Max. inner dia Cutting tool shank	Φ40mm	Φ40mm
TAILSTOCK	External diameter of tailstock sleeve	Φ63mm	Φ100mm
	Max. travel of tailstock sleeve	115mm	210mm
	Taper of tailstock sleeve	MT. No.4	MT. No.6
OTHER	Power of main motor	7.5/11KW	15/18.5KW
	The bed structure	30° slant bed	30° slant bed
	Min. input	0.001mm	0.001mm
	Repeatability	≤0.006mm	≤0.006mm
	Chuck dia	6°	12°
	Overall dimensions (LxWxH)	1950x1650x1680mm	3375x2250x1965mm
	Netweight	3400kg	5400kg
OPTIONAL	CNC system	●	●
	Tool post	●	●
	Chuck	●	●
	Spindle	●	○
	Tailstock	●	●
	Measure	●	●

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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCK-25H** | **KDCK-40H**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- Flat bed and slant slide structure, with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
- The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design with nice shape.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCK-25H	KDCK-40H
MACHINING	Max. swing over bed	Φ500mm	Φ750mm
	Max. cutting dia. for disc parts	Φ280mm	Φ650mm
	Max. cutting dia. for axis parts	Φ250mm	Φ350mm
	Max. cutting length for axle parts	400mm	82mm
SPINDLE	Spindle bore	Φ63mm	Φ105mm
	Spindle nose	A — 6	Φ20mm
	Spindle speed	5000r/min	100-2000r/min
TRAVEL	Max. travel of Axis X	100mm	350mm
	Max. travel of Axis Z	500mm	1000mm
FEED	Rapid feed for Axis X	12m/min	12m/min
	Rapid feed for Axis Z	20m/min	20m/min
TURRET	Tool post stations	12-ways	12-ways
	Live tool serve motor power	2.2/3.7KW	2.2/3.7KW
	Maximum speed of live tool	5000r/min	4000r/min
TAILSTOCK	Outside dia. Cutting tool shak	25x25mm	25x25mm
	Max. inner dia Cutting tool shak	Φ40mm	Φ40mm
	External diameter of tailstock sleeve	Φ80mm	Φ100mm
OTHER	Max. travel of tailstock sleeve	115mm	200mm
	Taper of tailstock sleeve	MT. No.4	MT. No.6
	Power of main motor	7.5/11KW	15/18.5KW
	The bed structure	30° slant bed	30° slant bed
	Min. input	0.001mm	0.001mm
	Repeatability	≤0.006mm	≤0.006mm
	Chuck dia	8°	12°
	Overall dimensions (LxWxH)	1950x1650x1680mm	3375x2250x1965mm
	Netweight	3400kg	5400kg
	OPTIONAL	CNC system	●
Tool post		●	●
Chuck		●	●
Spindle		○	○
Tailstock		●	●
Measure		●	●

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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCL-25**

**KDCL-28**

**KDCL-30**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- The machine 45° integrated slant bed with high rigidity and fluent chip removal.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The spindle component is of high rigidity construction to provide variable speed to realize constant linear speed cutting and high speed cutting.
- Full protection design, beautiful appearance and convenient operation and maintenance.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCL-25	KDCL-28	KDCL-30	
MACHINING	Max. swing over bed	Φ500mm	Φ520mm	Φ650mm	
	Max. cutting dia. for disc parts	Φ420mm	Φ420mm	Φ500mm	
	Max. cutting dia. for axis parts	Φ250mm	Φ250mm	Φ320mm	
	Max. cutting length for axle parts	500mm	500mm	1000mm	
SPINDLE	Spindle bore	Φ65mm	Φ65mm	Φ90mm	
	Spindle nose	A — 6	A — 6	A — 8	
	Spindle speed	6000r/min	4000r/min 5000r/min	2500r/min	
	TRAVEL	Max. travel of Axis X	220mm	255mm	270mm
Max. travel of Axis Z		550mm	600mm	1060mm	
Rapid feed for Axis X		12m/min	30m/min	16m/min	
Rapid feed for Axis Z		20m/min	30m/min	20m/min	
FEED	TURRET	Tool post stations	12-ways	12-ways	12-ways
		Outside dia. Cutting tool shank	25x25mm	25x25mm	25x25mm
		Max. inner dia Cutting tool shank	Φ40mm	Φ40mm	Φ40mm
TAILSTOCK	External diameter of tailstock sleeve	Φ80mm	Φ80mm	Φ100mm	
	Max. travel of tailstock sleeve	100mm	120mm	200mm	
	Taper of tailstock sleeve	MT. No.4	MT. No.4	MT. No.6	
OTHER	Power of main motor	3.7/5.5KW	5.5/7.5KW	7.5/11KW	
	The bed structure	45° slant bed	45° slant bed	45° slant bed	
	Min. input	0.001mm	0.001mm	0.001mm	
	Repeatability	≤0.006mm	≤0.006mm	≤0.006mm	
	Chuck dia	8°	8°	12°	
	Overall dimensions (LxWxH)	3712x1660x1850mm	4500x1850x2000mm	4250x1980x2260mm	
	Netweight	4000kg	4300kg	7000kg	
OPTIONAL	CNC system	●	●	●	
	Tool post	●	●	●	
	Chuck	●	●	●	
	Spindle	●	●	○	
	Tailstock	●	●	●	
	Measure	●	●	●	

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# FULL FUNCTIONAL CNC LATHE

(TURNING CENTER)



**KDCL-25H** | **KDCL-28H** | **KDCL-30H**



## PRODUCT FEATURES

- The machine adopts CNC system with full function and high reliability. The machine design adopts mechanical and hydraulic integration method with a compact structure.
- X and Z axes adopt precision linear rolling guide with no backlash to result high rigidity and accuracy.
- The machine adopts sauter electric turret with the functions of drilling, milling and tapping.
- The spindle adopts Japanese Sunter hydraulic direct acting clamp with zero recoiling, large clamping force, safety and reliability.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design with nice shape.

## TECHNICAL SPECIFICATIONS

ITEMS		KDCL-25H	KDCL-28H	KDCL-30H
MACHINING	Max. swing over bed	Φ500mm	Φ520mm	Φ650mm
	Max. cutting dia. for disc parts	Φ370mm	Φ370mm	Φ500mm
	Max. cutting dia. for axis parts	Φ250mm	Φ250mm	Φ320mm
	Max. cutting length for axle parts	420mm	420mm	900mm
SPINDLE	Spindle bore	Φ65mm	Φ65mm	Φ90mm
	Spindle nose	A — 6	A — 6	A — 8
	Spindle speed	4000r/min 5000r/min	4000r/min 5000r/min	2500r/min
TRAVEL	Max. travel of Axis X	220mm	255mm	270mm
	Max. travel of Axis Z	500mm	540mm	1060mm
FEED	Rapid feed for Axis X	12m/min	30m/min	16m/min
	Rapid feed for Axis Z	20m/min	30m/min	20m/min
TURRET	Tool post stations	12-ways	12-ways	12-ways
	Live tool serve motor power	2.2/3.7KW	2.2/3.7KW	5.5/7.5KW
	Maximum speed of live tool	5000r/min	5000r/min	4000r/min
TAILSTOCK	Outside dia. Cutting tool shank	20x20mm	20x20mm	32x32mm
	Max. inner dia Cutting tool shank	Φ32mm	Φ32mm	Φ50mm
	External diameter of tailstock sleeve	Φ80mm	Φ80mm	Φ100mm
OTHER	Max. travel of tailstock sleeve	100mm	100mm	200mm
	Taper of tailstock sleeve	MT. No.4	MT. No.4	MT. No.6
	Power of main motor	15/18.5KW	15/18.5KW	18.5/22KW
	The bed structure	45° slant bed	45° slant bed	45° slant bed
	Min. input	0.001mm	0.001mm	0.001mm
	Repeatability	≤0.006mm	≤0.006mm	≤0.006mm
	Chuck dia	8°	8°	12°
	Overall dimensions (LxWxH)	3712x1660x1850mm	4500x1850x2000mm	4250x1980x2260mm
	Netweight	4000kg	4300kg	7000kg
	OPTIONAL	CNC system	●	●
Tool post		●	●	●
Chuck		●	●	●
Spindle		○	○	○
Tailstock		●	●	●
Measure		●	●	●

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