



CNC VERTICAL

LATHE

TURNING CENTER

CNC VERTICAL LATHE

(TURNING CENTER)



KDVL320

KDVL460

KDVL600



PRODUCT FEATURES

- The machine design adopts mechanical, electrical and hydraulic integrative method with a compact structure.
- X and Z axes adopt precision linear guide ways. Ball screws are pre-extended. It makes the machine with high rigidity and accuracy.
- 8-way hydraulic turret is reliable, high efficient and good performance.
- The spindle is of high rigidity construction provide variable speed to realize constant linear speed cutting and heavy cutting.
- Automatic centralized lubrication with full sufficiency and reliability.
- Full protection design with nice shape. Easy to operate and maintain.

TECHNICAL SPECIFICATIONS

ITEMS		KDVL320	KDVL460	KDVL600
CAPACITY	Max. cutting dia. for disc parts	Φ320mm	Φ500mm	Φ600mm
	Max. cutting dia. for axis parts	Φ320mm	Φ460mm	Φ600mm
	Max. height of turning	420mm	430mm	600mm
SPINDLE	Spindle nose	A — 6	A — 8	A — 8
	Front spindle bearing ID	Φ100mm	Φ120mm	Φ140mm
	Spindle speed range	100-2800rpm	100-2000rpm	100-2000rpm
	Steps of spindle speed	Stepless	Stepless	Stepless
	Chuck dia	10°	12°	18°
TRAVEL	Travel of X axis	-50; +170mm	-50; +250mm	-30; +300mm
	Travel of Z axis	450mm	450mm	600mm
FEED	Rapid feed of X axis	20m/min	12m/min	10m/min
	Rapid feed of Z axis	20m/min	16m/min	12m/min
TOOL POST	Type of tool stations	Hydraulic	Hydraulic	Hydraulic
	Number of tool stations		8	8
	Tool shank size (square)	25x25mm	25x25mm	25x25mm
	Tool shank size (round)	Φ32mm	Φ40mm	Φ40mm
MOTOR	Power of main motor	7.5/11KW	15/18.5KW	18.5/22KW
	Hydraulic motor	1.5KW	1.5KW	1.5KW
	Coolant pump motor	200W	200W	370W
OTHER	Outside dia. Cutting tool shank	1430x2340x2360mm	1590x2670x2545mm	2365x2700x3200mm
	Netweight	3500kg	4500kg	8000kg
OPTIONAL	CNC system	●	●	●
	Spindle servo motor is optional	●	●	●
	Auto guard	●	●	●

Agent

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CNC VERTICAL LATHE

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KDVL1250 | **KDVL1350**



PRODUCT FEATURES

KDVL1250

- The machine equips an AC servo motor with 22kw, two step spindle speed manually changing structure and big gears transmission assure the machine high torque and high power out-put during low speed running.
- This machine adopts roller guides with high rigidity and heavy load.
- Cross roller bearings makes sure the machine high rotating accuracy and rigidity.
- Single spindle and double turrets structure are good for complicated and wheel parts machining.
- Automatic centralized lubrication with full sufficiency and reliability.

KDVL1350

- The machine adopts FNAUC cnc system servo motor.
- The main drive adopts combination of big power spindle servo motor and German ZF double speed reducer to increase spindle speed range and output torque for heavy load cutting.
- THK cross roller bearings are selected for spindle bearings. Their inner diameter reaches $\Phi 500\text{mm}$ so that the spindle system is of high rigidity and suitable for machining large work pieces and asymmetric parts.
- The cross rail can be moved up and down at will. Clamping and releasing of the hydraulic respectively. The operation is easy and reliable.
- X/Z axis adopt symmetric box type rectangular guide which are supersonic frequency hardened.
- Automatic lubrication system. fully and reliable.

TECHNICAL SPECIFICATIONS

ITEMS		KDVL1250	KDVL1350
CAPACITY	Max. cutting dia. for disc parts	$\Phi 1350\text{mm}$	$\Phi 1800\text{mm}$
	Max. cutting dia. for axis parts	$\Phi 1290\text{mm}$	$\Phi 1350\text{mm}$
	Max. height of turning	800mm	1100mm
SPINDLE	Front spindle bearing ID	$\Phi 452.7\text{mm}$	$\Phi 500\text{mm}$
	Spindle speed range	6 ~ 300rpm	2 ~ 142r/min 142 ~ 350r/min
	Steps of spindle speed	Two grades	Two grades
	Chuck dia	$\Phi 1100\text{mm}$	Manual 4 jaw chuck
TRAVEL	Travel of X axis	X1: -15-+635mm X2: -600-+50mm	1300+50mm
	Travel of Z axis	Z1: 840mm Z2: 840mm	900mm
	Travel of cross rail	-	800mm
FEED	Rapid feed of X axis	15m/min	12m/min
	Rapid feed of Z axis	15m/min	10m/min
TOOL POST	Type of tool stations	Electrical Mechanical	CNC vertical
	Number of tool stations	4-ways	Single
	Tool shank size (square)	32x32mm	32x32mm
	Tool shank size (round)	$\Phi 50\text{mm}$	$\Phi 50\text{mm}$
MOTOR	Main motor power	22/30KW	37/45KW
	Hydraulic motor power	3.75KW	3.75KW
	Coolant pump motor power	0.54kwx2	1.17kwx2
	Servo motor of X axis power	X1: 38kw X2: 30kw	9kw
	Servo motor of Z axis power	Z1: 38kw Z2: 30kw	6kw
Motor of lifting rail	-	2.2kw	
OTHER	Outside dia. Cutting tool shank	3500x3000x4000mm	5200x3900x4200mm
	Netweight	1200kg	1900kg
OPTIONAL	CNC system	●	●
	Spindle servo motor is optional	●	●
	Auto guard	●	●

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