Vertical Cnc Lathe Machine VTC5060 For Versatile Applications

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: VTC5060
- Minimum Order Quantity: 1
- Price: USD31000-40000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets

Product Specification

- Voltage: 380v 3 Phase
- Automatic Grade: Printed
- Condition: New
- Cnc Or Not: Normal
- Type: Horizontal
- Maximum Turning Diameter: 600mm
- The Z Axis Stroke: 700mm
- Spindle Speed: 80-2000
- Highlight: **VTC5060 cnc lathe**, **Vertical cnc lathe machine**, **VTC5060 cnc lathe machine**

Our Product Introduction

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Product Description

Specifications		VTC5060(L)	VTC7080(L)	VTC9010(L)	VTC1200(L)	VTC1600
	Trip					
mm	maximum turning diameter	600	800	1000	1200	1600
mm	maximum cutting length	500	700	700	800	1000
mm	maximum cutting diameter	500	700	900	1200	1600
X mm	The X axis stroke	150	200	250	380	-100,+1125
Z mm	The Z axis stroke	700	700	700	800	900
mm	Beam lifting distance					750
	Spindle					
	Spindle cell form	A2-6/8	A2-8/11	A2-11	A2-11/15	1 62/ 62 250 Two-stage gearbox spindle Low speed 1–62 / High speed 62–250
r/min	Spindle Speed	80-2000	80-1500	80-1200	80-1200	
	Series of spindle speed	stepless	stepless	stepless	stepless	2 Level 2
	Spindle ratio	0.04375	0.04375	0.04375	0.04375	-
kw	Output power of main motor	15	15/18.5	18.5/22	22/30	37/45
Nm	Rated torque of main motor	191	191/236	236/280	280/382	-
	The workbench					
/	Chuck Dia/form	400/K3L	800/K3L	800/K3L	1000/K3L	1600/4 Four claws
mm	Magneti Chuck	500	600	800	1000	-
	The motor					

X Kw(Nm)	X axis servo motor	2.4(15)	2.4(15)	2.8(18)	3.6(23)	6kW(α40i)
Z Kw(Nm)	Z axis servo motor	2.4(15)	2.4(15)	2.8(18)	3.6(23)	6kW(α40 iβ)
	Tool post form					
	Row of knives	Row tool rest	Row tool rest	Row tool rest	Row tool rest	ATC-BT50,12/24/32/48/60, Cutter size,280W×150T×380L
T	Electric tool post	4/6	4/6	4/6	4/6	
T	Hydraulic tool tower	8/12	8/12	8/12	8/12	
T	Power tool rest	8/12	8/12	8/12	8/12	
	Feed					
m/min	A cutting feed	1-10	1-10	1-10	1-10	1-10
X m/min X axis move fast	Hardened rail	10	10	8	8	12
	Linear rail	18	18	15	15	-
Z m/min Z axis move fast	Hardened rail	10	10	8	8	10
	Linear rail	18	18	16	16	
	Other					
KVA	Electrical capacity	16	18	22	24	65
( )T	weight of the machine	6.2	7.5	13	15	24

A vertical lathe is a specialized machine tool designed for machining large and heavy workpieces. Its main characteristics include:

Main Features

Vertical Spindle Orientation: The spindle of a vertical lathe is oriented vertically, allowing the worktable to be positioned horizontally. This design facilitates the clamping and alignment of workpieces.

Suitable for Specific Workpiece Shapes: This equipment is particularly well-suited for machining short and wide workpieces, such as various discs, wheels, and complex-shaped components. It can effectively handle a variety of machining needs, including internal and external cylindrical surfaces, conical surfaces, and flat ends.

High Load Capacity: Since the weight of the workpiece is directly supported by the worktable, vertical lathes have a higher load capacity than horizontal lathes, resulting in better rigidity. This makes them especially suitable for machining large and super-heavy parts.

Machining Precision: Vertical lathes can achieve machining precision up to IT9-IT8, with surface roughness controlled between Ra 3.2 to 1.6 micrometers. This high precision makes them widely used in industries with demanding requirements.

Versatility: In addition to basic turning functions, vertical lathes can perform milling, grinding, and cutting operations through additional attachments, enhancing their flexibility and range of applications.

Structural Design: Vertical lathes typically feature single-column or double-column designs with multiple tool holders, allowing for quick tool changes and increased machining efficiency.

Application Fields

Vertical lathes are widely used in the following areas:

Aerospace component manufacturing

Heavy machinery part processing

Manufacturing of complex parts such as brake discs and pump housings

Machining of components for various large equipment

Due to their unique structure and functionality, vertical lathes have become an indispensable tool in many industrial sectors.

shandong lu young machinery co.,ltd

86 18660852746 sales@luyoungmachinery.com luyoungcncmachines.com

Room 1061, Building A, Guoshan Center, Taiqian Street, Taishan District, Taian City, Shandong Province