

CNC Slotting Machine

Model: BK5030



Prepared by Bonnie

Date:2026/06/25

Supplier: Shanghai ANTS Machine Equipment Co.,Ltd

Technical proposal

Part 1: Technical specifications

Specifications	Units	BK5030	Remark
Ram maximum slotting length	mm	300	
Ram adjustment stroke	mm	260	
Ram movement times	n/min	30--120	
Workbench size	mm	550 x 410	
Workbench stroke (X, Y)	mm	250 x 300	
Tool holder diameter	Mm	φ40	
Distance from the axis of the tool head support hole to the front arm of the column	mm	505	
Distance from the bottom of the slide to the workbench surface	mm	540 (standard type) 690 (heightened type)	
BK5030Z built-in turntable Distance from the bottom of the slide to the work surface	mm	410 (standard type) 560 (heightened type)	
X-axis motor torque	N.M	6	Servo
Y-axis motor torque	N.M	6	Servo
Rapid movement (X)	m/min	5	
Rapid movement (Y)	m/min	5	
Ball screw (X)		FFZD3205-3/P4	
Ball screw (Y)		FFZD3205-3/P4	
Main motor power	KW	3.7	Servo
Weight (net weight/gross weight)	Kg	2650/2800	
Machine tool dimensions	mm	2150*2100*2100	
Packing dimensions	mm	2300 x 2300 x 2250	

Part 2 : Product reference picture

	
Install CNC rotary table	(BK5030Z has a built-in 250MM CNC rotary table)
	

Part 3: Equipment Introductions

BK5030 CNC slotting machine is a new type of CNC slotting machine independently developed and designed by our company with patent property rights.

This machine tool has the functions of slotting plane, forming surface, internal and external single keyway and spline groove, etc. It is a cutting machine tool that realizes slotting through CNC system control.

The machine tool adopts domestic and foreign brand CNC systems to realize full-screen editing of Chinese character prompts. The main drive adopts a crank slider mechanism, and the servo motor realizes high torque transmission through the reduction mechanism to realize the Z-direction reciprocating motion of the slide (that is, the slotting function of the machine tool). The X and Y-direction feeds are servo-controlled to realize stepless speed regulation. The X-direction ball screw is directly connected to the motor, and the Y-direction ball screw is transmitted to the motor through a high-strength synchronous belt.

BK5030 CNC slotting machine can be configured with a CNC dividing head or a CNC rotary table according to user needs. The machine tool is powerful and can process keyways in different angles and directions.

The BK5035Z CNC slotting machine not only has all the functions of the BK5030 CNC slotting machine, but also has a rotary table built into the workbench, with good rigidity and precise positioning.

This machine has high power, good rigidity, large precision reserve, high cost performance, long service life, and can be widely used in machine tool and automobile manufacturing, various mechanical and electrical and aerospace industries. It is an ideal equipment for processing keyways of various materials.

Main components of the machine:

The machine tool is mainly composed of upper and lower bed, slide, ram, crank, slider, workbench, etc., all of which are made of HT250 castings, high temperature aging treatment, fine processing or precision scraping.

Features

1. The slotting machine is controlled by KND1000MF CNC system, equipped with electronic handwheel, convenient for tool setting;
2. The main transmission mode is two-stage synchronous belt drive, with low noise and high transmission power;
3. The main transmission motor is a 3.7KW servo motor;
4. The X and Y axis ball screw pair adopts a double nut pre-tightening structure, which is convenient for adjusting the gap between the screw and the nut and extending the service life of the ball screw pair;
5. The machine tool precision inspection standard is implemented: JB/T2825.3-2006 mechanical industry standard;
6. The machine tool is fully protected (optional chip removal device).

Brief description of CNC control system, electrical appliances:

The system has complete and reliable interlocking, safety protection, fault diagnosis and alarm functions, and is equipped with a standard communication interface. It can be controlled and stored with a computer program and can realize DNC processing (depending on the system). The back door of the machine tool has a power-off function when the door is opened. The machine tool can only be turned on after it is closed. Power supply form: three-phase AC 380V±10% 50Hz±10%
Power consumption capacity: about 8KVA

Part 4: Standard Equipment**Standard Equipment**

NO	Part Name	Specifications	Quantity
1	Machine	BK5030	1 Copy
2	User Manual	BK5030	1 Copy
3	Daimei wrench	30mm	1 Copy
4	Hex wrench		1 Set
5	Crank handle		1 Pcs
6	Adjustment shim		6 Pcs
7	Grease gun		1 Pcs
8	Dust gun		1 Pcs

Remark: Due to differences in configuration, special orders, CNC systems and continuous product improvement, some technical parameters may be affected. more details please contact with shanghai ANTISHICNC.

Part 5 :Manufacturing Time

Around 55 days, the Machine will be ready for FAT(Factory Acceptance Test) after received deposit and after confirmed contract and technical proposal.

Remark: If the customer has special requirements for the delivery time, please contact the factory to coordinate.

Part 6: Quality Assurance & After-sales Service

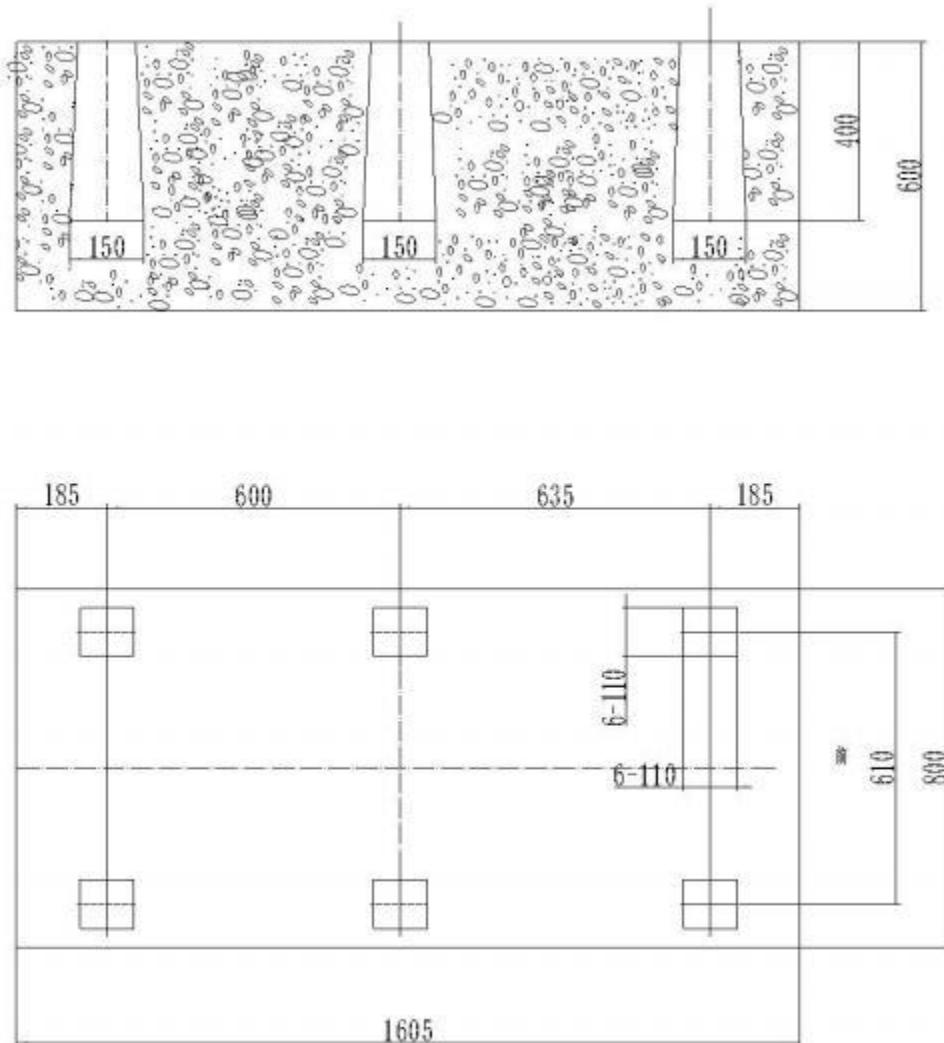
Shanghai ANTISHI guarantees that the products shipped from the factory are brand new and unused, guaranteeing high quality and reliable performance.

For the products sold by Shanghai ANTISHI, we provide users with free technical consultation before sale, and are responsible for providing user pre-sales training. Technicians provide unconditional technical support, guide and assist customers in installation; one-year free warranty, lifetime service, and labor costs for over-guaranteed machine tools. During the warranty period, the company will provide free parts (except wearing parts) that are not damaged due to improper operation.

Warranty service:

one year warranty(12 months since customer receive & use the machine).

The manufacturer guarantees to provide life-long paid maintenance services for the product.

Part 7: Packing & Shipping Terms**1. Foundation Drawing****2. Provide the following technical documents when the equipment is delivered**

Packing list 1 copy

Factory qualified certificate 1 copy

Operation manual 1 copy

3. Packaging and transportation

Export standard wood box packing



The transportation is carried out in accordance with the contract terms.

Part 8: Company Introduction

Shanghai ANTS Machine Company is mainly engaged in CNC drilling & milling machine, Vertical drilling machine, Radial drilling machine, metal band saw machine, automatic band sawing machine, metal band sawing machine, intelligent band sawing machine, high-speed band sawing machine, automatic sawing machine, Milling Machine, VMC(Vertical Machining Centre), Horizontal Machining Centre), Gantry Machining Centre, Turning & Milling Machining Centre, CNC horizontal milling and boring machine, Plain Milling Machine, and other equipment. The products are sold to Hebei, Shaanxi, Hunan, Henan, Jiangsu, Shandong, Guangdong, Shanghai and other places. More than 300 professional after-sales service personnel in 83 offices across the country provide customers with pr-sales and after-sales services at any time. The products are deeply trusted by customers and are exported to more than 20 countries and regions such as the United States, Germany, Italy, India, Thailand, and Russia. Especially in recent years, they have been widely used in major domestic well-known enterprises such as China National Heavy Duty Truck, Ministry of Aeronautics and Space, Zhongyuan Special Steel, Zhengmei Machinery, Shanghai Heavy Industry, Wuhan Iron and Steel, Anshan Iron and Steel and Sany Heavy Industry have the characteristics of rich experience, excellent.

Factory Pictures



ISO 9001 Quality Management System

European CE Certificate

