

# TURRET MILLING MACHINE SM5 - F5B (NT40)

## TECHNICAL PARAMETERS

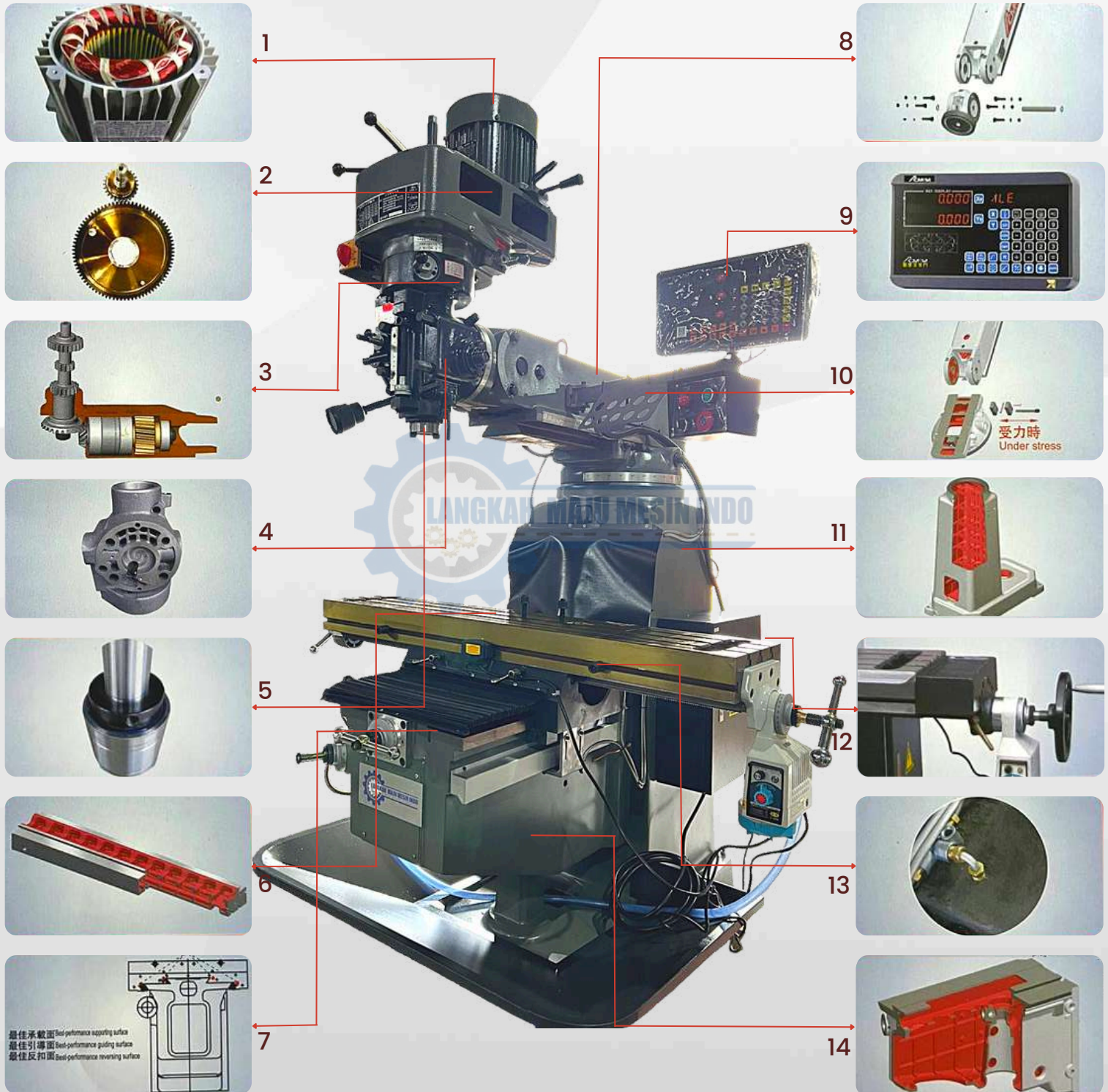


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1. Coil is copper, 3 horsepower
2. Gear 20CrMoti material carburizing depth 0.5-0.8mm High frequency processing HRC52-56 degrees
3. Auto infeed change 3 bearings smooth operation, the turbine phosphor bronze wear
4. Spindle housing casting resin sand mold casting process, material HT250 low stress abrasion seismic stringly
5. Spindle (40Cr) quenching the material 20-24 degrees HRC 52-56 degrees, Precision nut assembly using the torque wrench locking Japan to ensure precision spindle

6. Mesh structure with good rigidity light weight small precision error
7. Double dovetail guide, covering all sides, the traditional life expectancy is 2 times
8. Double-way screws features good fastening strength, twice of the traditional types



9. Displays motherboard stable performance, single-chip, Taiwan Power, Korea shrapnel button is pressed for more than 10 million times, The United States original potentation meter high resolution, High accuracy dispacement of German imports subdivision IC
10. The expandable locking-disc does not deform subject to double-way force

11. The double-layer design can improve the rigidity of the machine body
12. Long bracket X axis travel
13. Tubing nut fixed not falling
14. Integrated lifter seats, Elevate weight bearing strength

## • EQUIPMENT INTRODUCTION

FTM-E5 milling machine is a machine tool for milling workpieces with milling cutters. It is mostly used for milling various planes, grooves and wheels  
Teeth, threads, spline shafts and more complex profiles. Efficiency is higher than planer. Widely used in machinery manufacturing and maintenance factories.

### • Equipment Description

#### 1. Equipment Overview

The T5B milling machine uses a milling cutter to mill workpieces. It is primarily used for milling various planes, grooves, gear teeth, threads, spline shafts, and more complex surfaces. It offers higher efficiency than a planer and is widely used in machinery manufacturing and repair plants.

#### 2. System Components

This machine consists of several major components, including the main drive system, feed system, and cooling and lubrication system:

- Spindle Box: This includes the spindle housing and spindle drive system. It is used to clamp and rotate the tool. The spindle speed range and output torque have a direct impact on the machining process.

- Feed Servo System: This system consists of a feed motor and feed actuator, which ensures tool and feed speed are maintained at the set feed rate.

Relative motion between workpieces, including linear feed and rotational motion.

- Control system: The center of motion control for the milling machine, executing the machining program to control the machine tool during machining.

- Auxiliary devices: These include hydraulic, pneumatic, lubrication, cooling systems, and chip removal and protection devices.

- Machine tool foundation: These typically include the base, columns, and crossbeams, forming the foundation and framework of the entire machine tool.

3. The range and output torque have a direct impact on machining

4. Feed servo system: Consists of the feed motor and feed actuator, it achieves relative motion between the tool and workpiece at the set feed speed, including both linear and rotary motion.

5. Control system: The center of motion control for the milling machine, executing the machining program to control the machine tool during machining.

6. Auxiliary devices: These include hydraulic, pneumatic, lubrication, cooling systems, and chip removal and protection devices.

7. Machine tool foundation: This typically refers to the base, columns, and crossbeams, forming the foundation and framework of the entire machine tool.

### • SYSTEM COMPOSITION

The equipment is composed of main drive system, feed system, cooling and lubrication system, etc.:

1. Spindle box: including the spindle box and the spindle transmission system, used to clamp the tool and drive the tool to rotate, the spindle speed

Range and output torque have a direct effect on machining.

2. Feed servo system: It is composed of feed motor and feed actuator, and realizes cutting tool and feed according to the set feed speed.

Relative motion between workpieces, including linear feed motion and rotary motion.

3. Control system: The center of milling machine motion control, executes the processing program to control the machine tool for processing.

4. Auxiliary devices: such as hydraulic, pneumatic, lubrication, cooling systems, chip removal, protection and other devices.

5. Basic parts of machine tools: usually refer to bases, columns, beams, etc., which are the foundation and frame of the entire machine tool.



## TECHNICAL PARAMETERS

1	Model	F5B
2	Table Size (Length x Width)	1370x280mm
3	Table Load	300kg
4	Left and Right Travel (X)	730mm
5	Front and Rear Travel (Y)	400mm
6	Up and Down Travel (Z)	380mm
7	Spindle to Table Distance	80-460mm
8	Arm Travel	490mm
9	Spindle Lifting Stroke	127mm
10	Spindle Automatic Feed Speed	0.04/0.08/0.15mm/rev
11	Spindle Speed	16 steps 80- 5440rpm
12	Spindle Taper	NT40
13	Spindle Horse Power	5HP
14	Milling Head Tilt Angle	Left and Right 45°
15	Rail Shape X.Y.Z	▲.■.▲
16	Machine Tool Size (Length x Width x Height)	1850×2000×2250mm
17	Mechanical Weight	1500kg

### • SCOPE OF SUPPLY (SINGLE UNIT)

FM-E5 milling machine host;

Random standard accessories are as follows:

1	X, Y Axis Optical Ruler	1
2	Z-Axis Electric Lifting , Z-Axis Optical Ruler	1
3	X-Axis Tool Feeder	1
4	NT40 OZ25 Chuck Set	1
5	Water Pump (including switch)	1
6	Water Tray	1
7	Manual Oiler (Y8)	1
8	Working Lamp	1
9	Electric Control Box	1
10	Toolbox, Tools	1

### • Installation and Commissioning

Installation Environment Requirements: This machine should be installed on a solid, level floor or on an anti-vibration mat to prevent movement caused by vibration. Check the power supply voltage and ensure that it is connected and complies with safety regulations. The on-site fire alarm system must be complete and meet the required standards.



## • PRODUCT TECHNICAL STANDARDS


Our Milling Head Standard		National Milling Head Standard
1	Noise test: the height is 1.55m, the horizontal distance from the milling head is 1m, and the noise test does not exceed 72 decibels when the milling head is running at high speed.	The sound pressure level of no-load noise measured at low, medium and high speeds in the forward and reverse directions of the machine tool should not exceed 78 decibels.
2	The spindle accuracy is 0.005mm; the 300mm test rod is 0.02mm.	Spindle accuracy is 0.01mm; 300mm test rod is 0.02mm.
3	Spindle temperature rise standard (deduction of indoor temperature shall not exceed 15°C).	The temperature of the spindle should not exceed 60°C, and the temperature rise should not exceed 30°C
4	Test when the switch is running: do 20 tests of forward rotation, stop, and reverse rotation, and the action should be flexible and reliable.	The main motion mechanism is tested for 10 times of starting and stopping in the forward and reverse directions, and the action should be flexible and reliable.
5	Whether the automatic feeding is normal: repeat the action 20 times.	The linear motion parts are started and stopped 10 times in the positive and negative direction respectively at the medium feed speed, and the action should be flexible and reliable.
6	Whether the spindle moves up and down smoothly.	National standards are not regulated.
7	Whether the automatic three-stage speed change is smooth.	Dry running test of feed motion mechanism (only applicable to automatic feed)
8	Is the high and low speed shifting smooth?	Carry out the speed change operation test on the main operating mechanism (spindle without gear shift at least in the range of low, medium and high speed, and spindle with stepped speed change at all speeds), and the action should be flexible and reliable.
9	Whether the color and appearance are clean and normal.	According to the provisions of JB/T9877, check the cleanliness of the machine tool by visual inspection and hand feeling method, and there should be no dirt.
Fengbao Inspection Accuracy Standard		National Inspection Accuracy Standard JB/T 3697.2-2006, JB/T3697.1-1999


1	Parallelism of work surface	X Axis	700mm/0.03mm	X Axis	Measure length at 300mm, 0.025mm
		Y Axis	300mm/0.02mm	Y Axis	
2	Workbench and fuselage rail surface Verticality	X Axis	300mm/0.02mm	X Axis	300mm/0.025mm
		Y Axis	300mm/0.02mm	Y Axis	300mm/0.025mm
3	Workbench vertical and horizontal movement Verticality	X Axis	300mm/0.015mm	X Axis	300mm/0.02mm
		Y Axis		Y Axis	







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