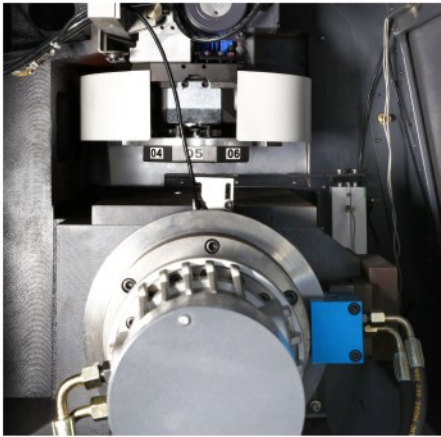
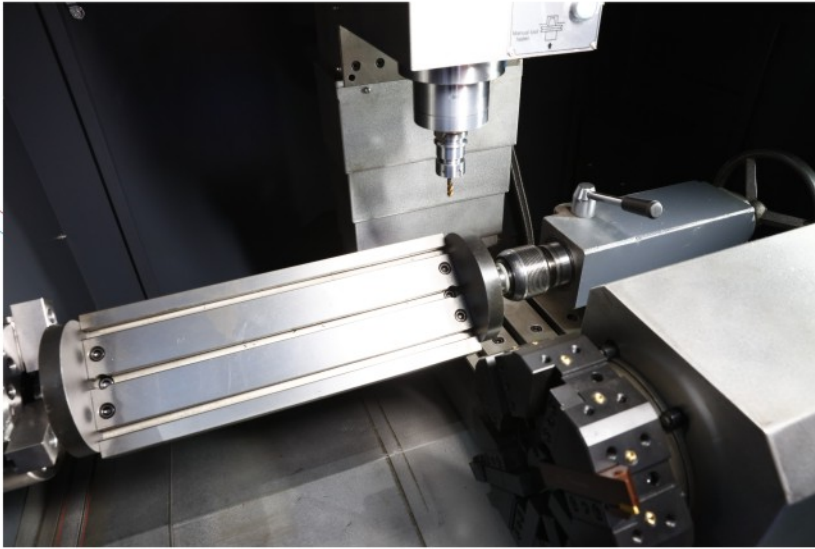


TF01

Dual-Use Technology Series

4 Axes Turning Center Can Be Transformed to 4 Axes VMC Like "Transformer"





Machine

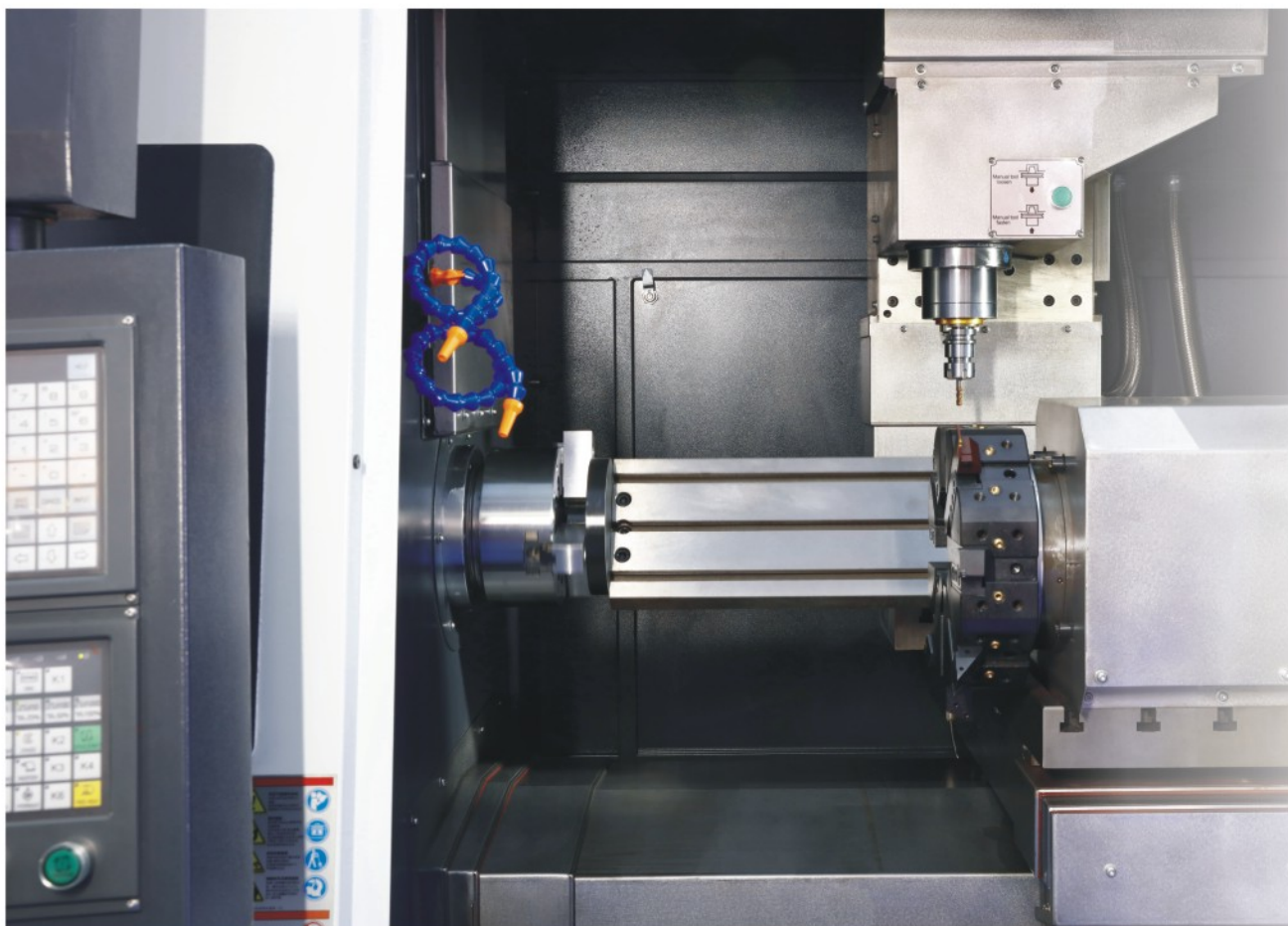
Transformer Turn-mill

Ideal machine created by Z-MaT cutting-edge technology serving for

1. Mass production complex turned workpieces with secondary milling tapping or drilling process.
2. Creative entrepreneur for wide range different workpieces.
3. Toolroom CNC, extend capability and reduce investment and workshop space at least one lathe or Milling machine.



CNC Turning Center with Y axis
+
Vertical Machining Center with 4th axis
IN ONE



This machine

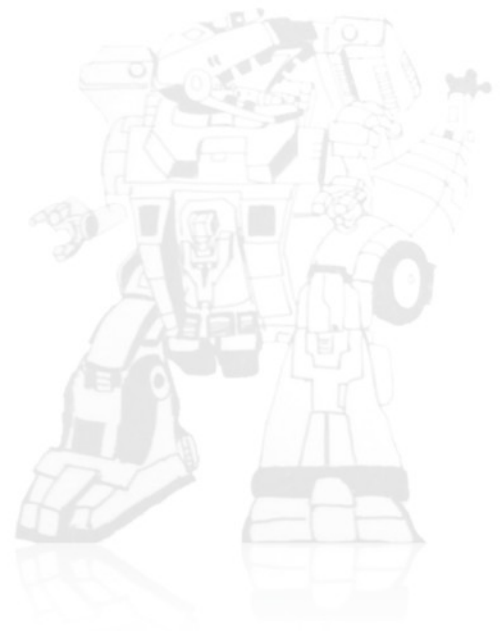
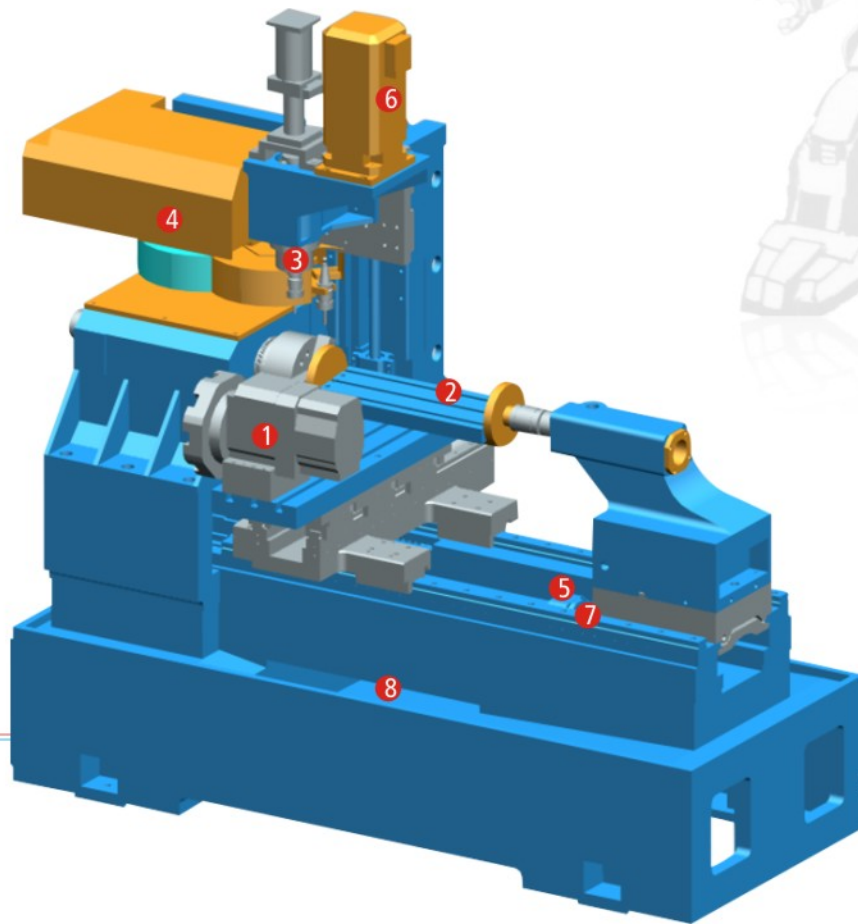
is designed based on wide span lathe bed, monoblock one-piece casting and large-sized linear motion guideway which guarantee the solid foundation for balanced two purpose-turning and milling. Its basic function is a powerful turning center. However, it can become a 4th axis VMC as long as we add a bridge plate between the 3-Jaw Chuck and Tailstock (Then C-Axis convert to "A" Axis function in VMC mode). The milling, drill and tapping processes can be realized through automatic tool change and BT30 high speed VMC spindle.

Basically, this machine can realize two functions: CNC Turning Center with Y axis, or a VMC with 4th axis.

Z-MaT Dual-Use

TF01 Structure

- 1 | 8/12-station turret in the front
- 2 | 4 axis rotary table function
- 3 | BT30 high rigid spindle
- 4 | Automatic tool change magazine
- 5 | Both ends anchored Ballscrew in the middle of guideway
- 6 | Milling spindle motor
- 7 | Roller type 45mm linear guideway
- 8 | One piece monoblock casting



Standard Configurations:

- Manual 3 Jaws Chuck
- PMI/ HIWIN linear guideway
- PMI/ HIWIN ballscrew
- Pragati Bi-directional 8-Station Turret
- BT30 spindle unit 8000rpm
- Manual Tailstock

Optional Configurations:

- Hydraulic chuck
- Chip Conveyor
- Quick Bridge plate for 4th axis VMC function
- Hydraulic Tailstock MT5
- Drum Type ATC 8-Station

Specifications

4 Axes Turning Center Mode		4 Axes VMC Mode	
Max.Swing Diam. Over Bed	650mm	4th Axis Center Height	145mm
Max.Swing Diam. Over Slide	290mm	Bridge Plate Size	550x45x200mm
Max. Turning Diam.	400mm	T Slot	12x3x70mm
Max. Length of Workpiece	500mm	Spindle Center to Column	210mm
Spindle Bore	φ 62mm	Spindle Nose to Table	350mm
Max. Diam. of Through Hole	φ 52mm	Max. Load	200Kg
X Axis Travel	300mm	"Y" Axis Travel	200mm
Y Axis Travel	200mm	"Z" Axis Travel	200mm
Z Travel	500/700/1200/1700mm	"X" Axis Travel	500/700/1200/1700mm
X Rapid Traverse	20m/min	"Y" Axis Rapid Speed	20m/min
Y Rapid Traverse	10m/min	"Z" Axis Rapid Speed	10m/min
Z Rapid Traverse	20m/min	"X" Axis Rapid Speed	20m/min
Turning Spindle Nose Type	A2-6	Turning Spindle Nose Type	A2-6
Turning Spindle Motor	7.5/11KW	Turning Spindle Motor Power	7.5/11kW
Max. Turning Spindle Speed	2000, *4000rpm	Max. Turning Spindle Speed	2000,*4000rpm
Milling Spindle type	BT30	Milling Spindle Type	BT30
Max. Milling spindle speed	8000r/min	Max. Milling Spindle Speed	8000r/min
Milling Spindle motor	3.7/5.5kw	Milling Spindle Motor	3.7/5.5kw
Turning Turret Stations	8	Turning Turret Stations	8
Turning Tool change time-Adjacent	≤0.45S	Turning Tool Change Time-Adjacent	≤0.45S
*Milling ATC capacity	8	*Milling ATC Capacity	8
*Max. weight of milling tool	3Kg	*Max. Weight of Milling Tool	3Kg
*Milling Tool change time	≤8s	*Milling Tool Change Time	≤8s
*Air source pressure	0.5-0.8Mpa	*Air Source Pressure	0.5-0.8Mpa
Chuck Size	8"	Rotary Chuck Size	8"
Tailstock	MT5	Tailstock	MT5
Travel Of Tailstock Sleeve	100mm	Travel Of Tailstock Sleeve	100
Travel Of Tailstock	100-500mm	Travel Of Tailstock Mm	100-500
C Axes Index Resolution	0.001°	4Th Rotary Index Resolution	0.001°
C Axes Machining Accuracy	±0.04° ,*±0.02°	4Th Index Accuracy	±0.04° ,*±0.02°
Overall Dimension(LxWxH)		3000/*3300/*3800/*4300X1750X2400mm	
Weight(About)		3500/*4200/*5200/*6200Kg	

Note: "*" means optional. "" means equal to.

Z-MaT

Smart CNC Solutions

Precautions:

- ▶ Contact Z-MaT Sales Office for questions regarding catalog content.
- ▶ Catalog content is subject to change without notice. Z-MaT is not responsible for typographical errors.
- ▶ Images may show base machines with added optional equipment.
- ▶ Specified bar feeder capacity matches the specified through hole capacity on hydraulic chuck and collet machine configurations. Bar capacity and spindle bore are the same diameter on machines with manual chucks.
- ▶ Actual machine standard features may differ in some details from machines shown in catalog images. This includes the size and dimensions of name plates and other labels.
- ▶ Z-MaT is not responsible for discrepancies between information in this catalog and actual machines.

Zhejiang Zhenhuan CNC Machine Tool Co., Ltd.

Zhejiang Headquarter and Plant:

Add: Mechanical & electrical industrial zone, Yuhuan, Zhejiang, 317600 China

Phone: +86-576-87226292

Fax: +86-576-87226290

www.zmat.cn

E-mail: info@zmat.cn

Jiangsu Z-MaT No.2 Plant:

Nanjing Zhenhuan Machinery Co., Ltd.

No.1 Tuqiao Industrial Zone, Jiangning District, Nanjing, Jiangsu.

Shandong Precision Spindle Unit Plant:

Weihai Giessen Seiki Co., Ltd.

No. 39-3 Hi-tech Industrial Zone, Weihai, Shandong.

Hong Kong Commercial Center:

Kimway Dragon Holdings limited

701A Caroline Centre, 2-38 Yun Ping Road, Hong Kong.

Taiwan R&D Center:

GreaMaT Machinery Co., Ltd.

No. 955, Section 4, Wenxin Rd., Beitun District, Taichung, Taiwan.

Welcome to
Scan for the Latest Information



Official Facebook Account: www.youtube.com/zmatofficial
Official YouTube Channel: www.facebook.com/zmatofficial



This catalogue is made from recycled paper to preserve forest resources.