



PERFORMANCE

THE ART OF TURNING

Preface

Welcome to the "Quick-TECH world" !

Thank you very much for your trying to use our CNC Bar-Turning-Centers.

We, Quick-TECH Machinery Co., Ltd., is the unique machine-tool builder which is concentrating to contribute to all of customers and dealers in the worldwide CNC bar-turning market since 1995.

Bar-turning is well known as the most effective parts-manufacturing method in the CNC metal-cutting field. Traditionally, bar-turning has been long-time used for mass-production of many kinds of small metal parts. In this field today, many high-level customers have already established "un-manned continuous operation" because of the excellent CNC functions and the fundamental advantage of bar-loading.

Recently, CNC bar-turning is also used for the small-lot-production of various kinds of workpieces in wide range industries. In these fields today, many wise customers has already succeeded to improve their parts manufacturing to "order-base production" because of the process integration by CNC mill-turn capabilities and the big diameter bar supply for various size and shape of workpieces.

In order to complete customer's satisfaction as above, Quick-TECH has developed many non-swiss-type CNC bar-turning machines. The best two of our products are "I-series" with unique gantry tooling and "T-series" with conventional turret tooling. Each model of both series has the "X+Y+Z+C+B" axis control for all-purpose mill-turn applications. Furthermore, you can find "Multi-task operation", "Simultaneous cutting", "Free angle milling", "Permanent tool layout", "Standard jet coolant", "90-degree chip flow", "Built-in Robot", "Blue technology", "Smallest floor space" and "All-in-one accessories" as our feature in the "Quick-TECH world". Please access to our "Art of turning" !

We hope to expand our bar-turning business to internationally growing-up industries like as medical, aerospace, electronics, mechatronics, automobile, optical, satellite, information-technology, energy, home-electric-appliances and others. In order to contribute to your future business, we should do our best with supporting by European marketing, Japanese technology and Taiwanese cost performance.

Best Regards together to growth.




April-2020
Managing Director : K.C. Jacky Huang
Quick-TECH Machinery Co., Ltd.

About Quick-TECH

Quick-Tech has been concentrating on the development and production of the machines that are quite different from those produced by others manufactured who focused on the development of standardized machines. We produce machines for any special industry.

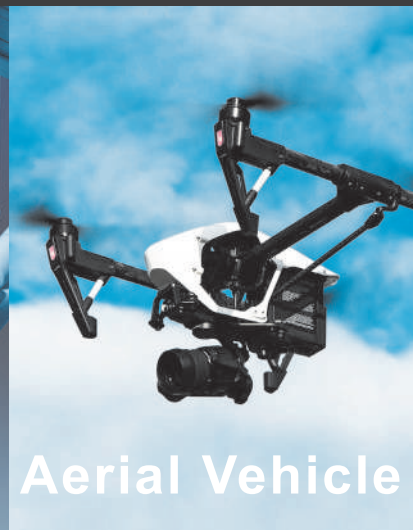
 Quick-TECH Machinery Co.,Ltd

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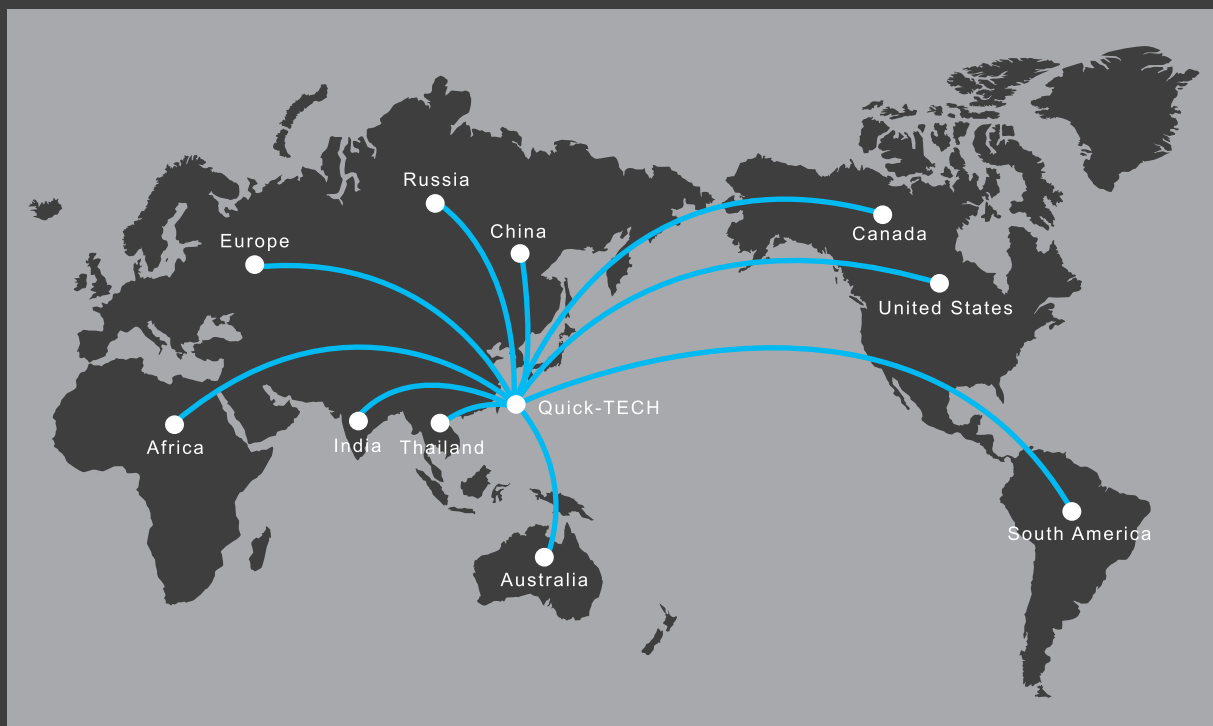
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Our project



Our marketing



Turret series

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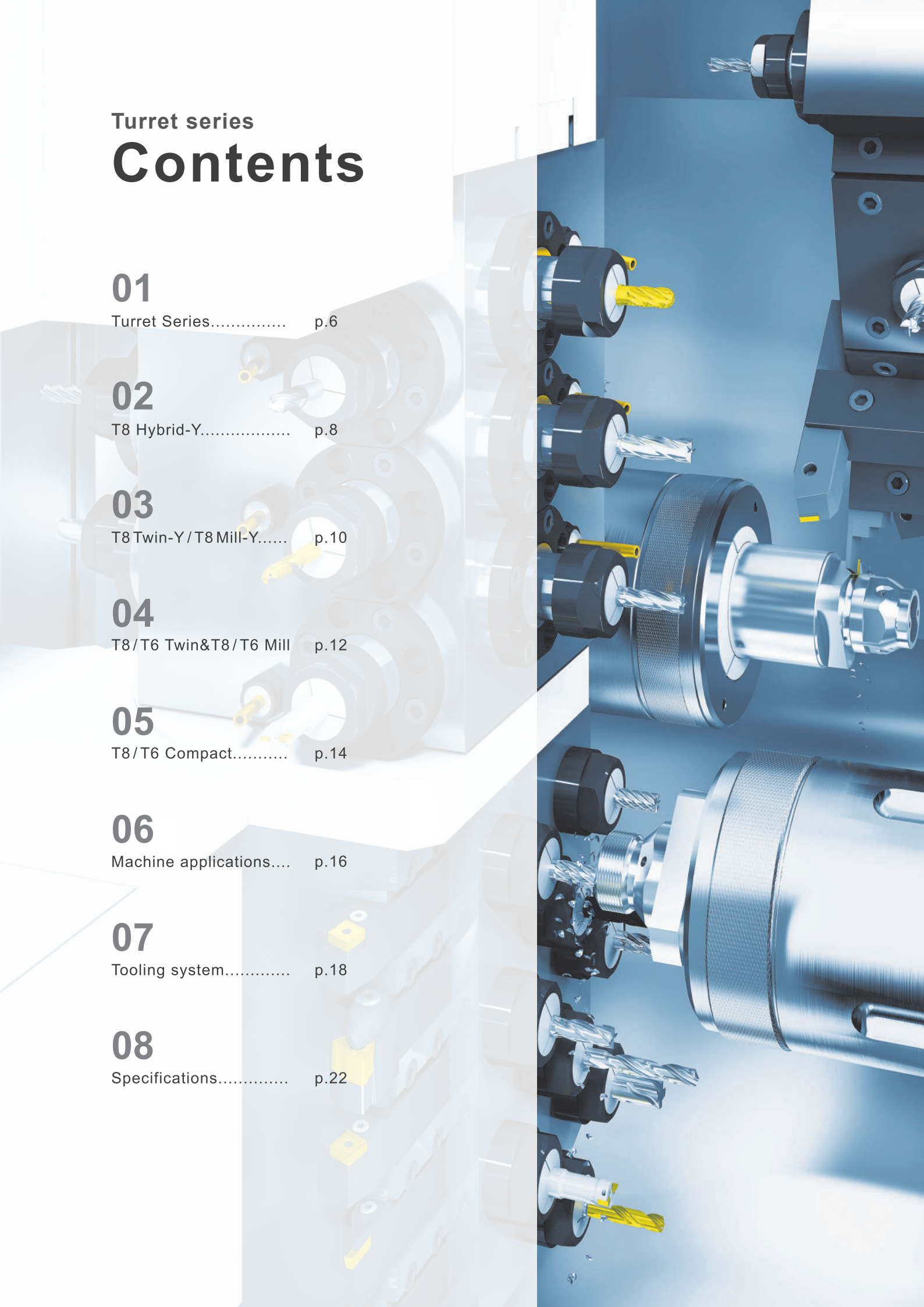
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Turret series

We provide the best machining performance



T8 Hybrid-Y



T8 Twin-Y



T8 Mill-Y



T8-M / T6-M



T8-C / T6-C



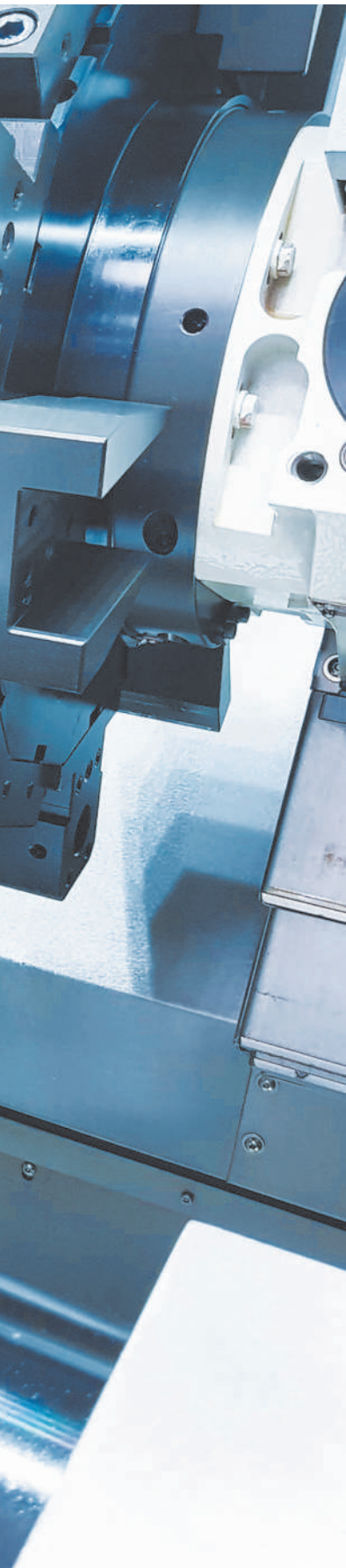
T8-T / T6-T

Standard accessories

- Chip conveyor
- Part conveyor
- 12 toolholders
- Auto lubricator
- Transformer
- Linear guideway
- Mitsubishi controller
- P4 class preload spindle bearing
- Robust FC35 meehanite casting

Optional accessories

- Chip cart
- Bar feeder
- Oil skimmer
- Heat exchanger(For electrical cabinet)
- Fanuc controller
- Oil mist collector
- LED extended display



01 Turret series

More flexible more functions

► Main spindle

Main spindle equipped with powerful, high-torque motor, which provides more power with less length. Main spindle has C-axis, brake and hydraulic cylinder as basic spec for machines with power turret. Main spindle will contain collet chuck or 3-jaws chuck, depending on your application.

► Built-in sub spindle

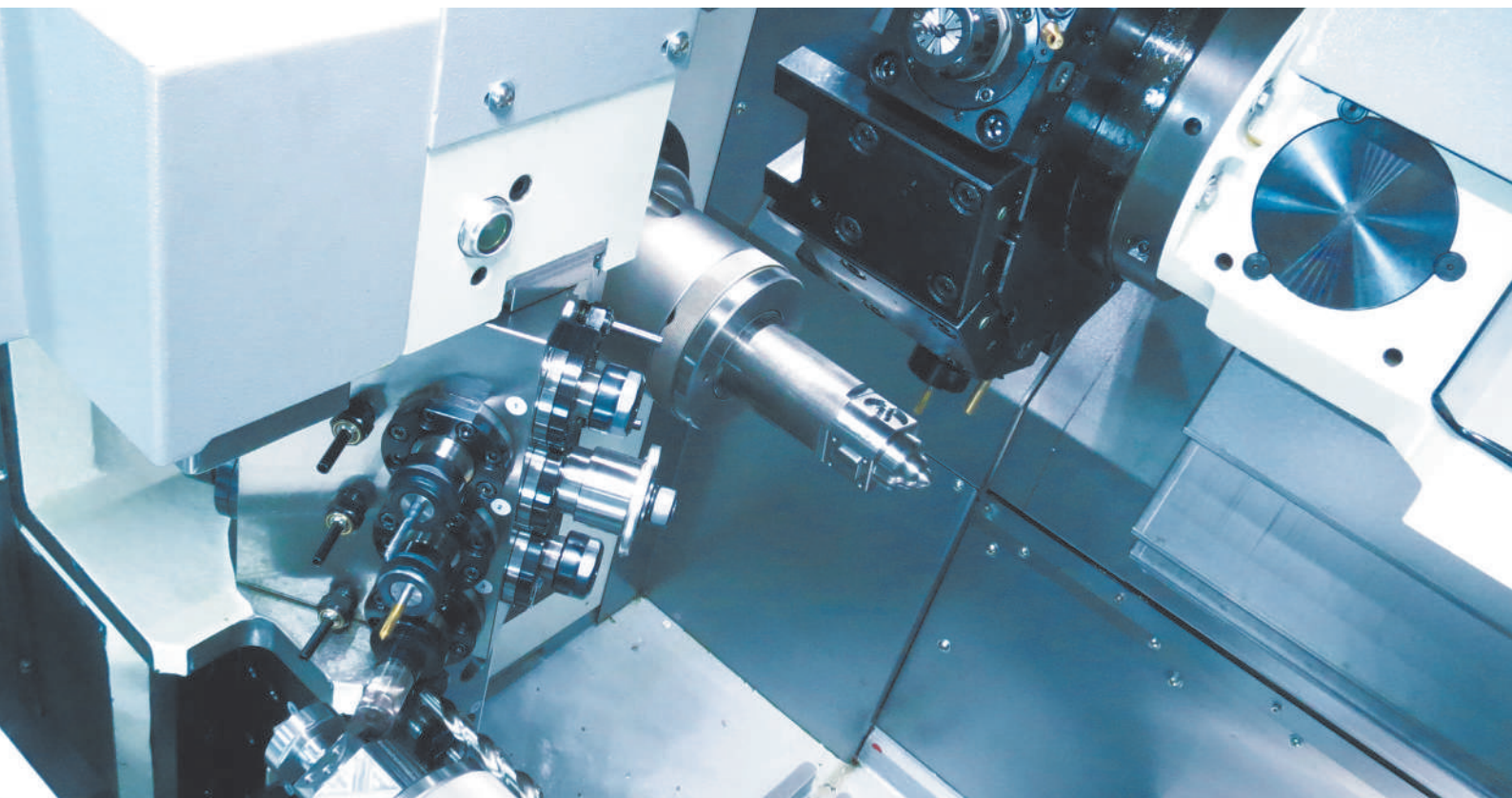
The cartridge type spindle runs on P4 high precision bearings giving high radial and axial stability, allowing for heavy duty cutting. The spindle is assembled and tested in a temperature controlled clean room, sealed, and requires no maintenance. The spindle housing is large, and symmetrically ribbed to allow heat dissipation and thermal stability.

► BMT-55 power turret

The standard 12-station BMT turret allows this compact machine able to achieve the turning application effectively for mass production. Furthermore, the power turret milling function is also provided for the customers who need more advanced application. BMT turret equipped with 12 tool holders which include standard spec.

► Gantry tooling

The unique gantry tooling system is extremely flexible. The standard tooling system allows for 5 external tools, 9 internal tools and 12 live tools. The ER20 spindles are gear driven, with rigid tapping as standard. Up to 26 tools load for machining. Compare to power turret, extra driven blocks are not required in gantry tooling. It makes application more cost-effective, easy and faster tool change.



02 T8 Hybrid-Y

Speed / Flexibility / Performance

They are ideal for producing complicated and single parts in high production demand.

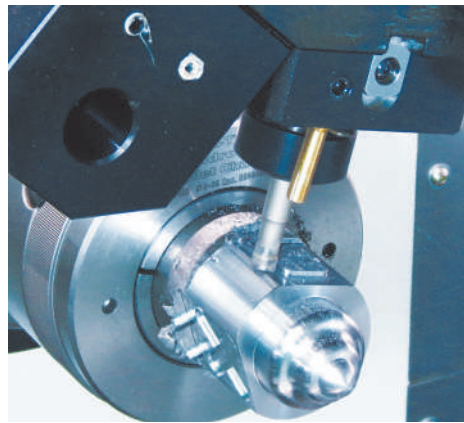
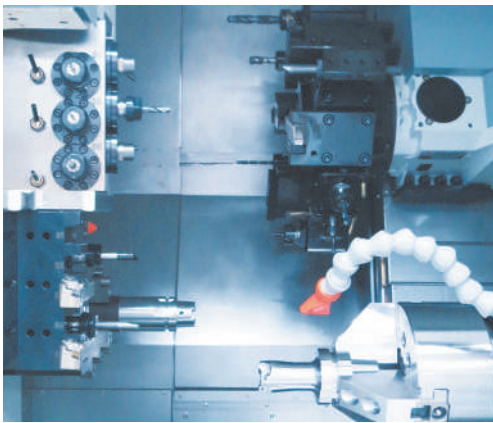
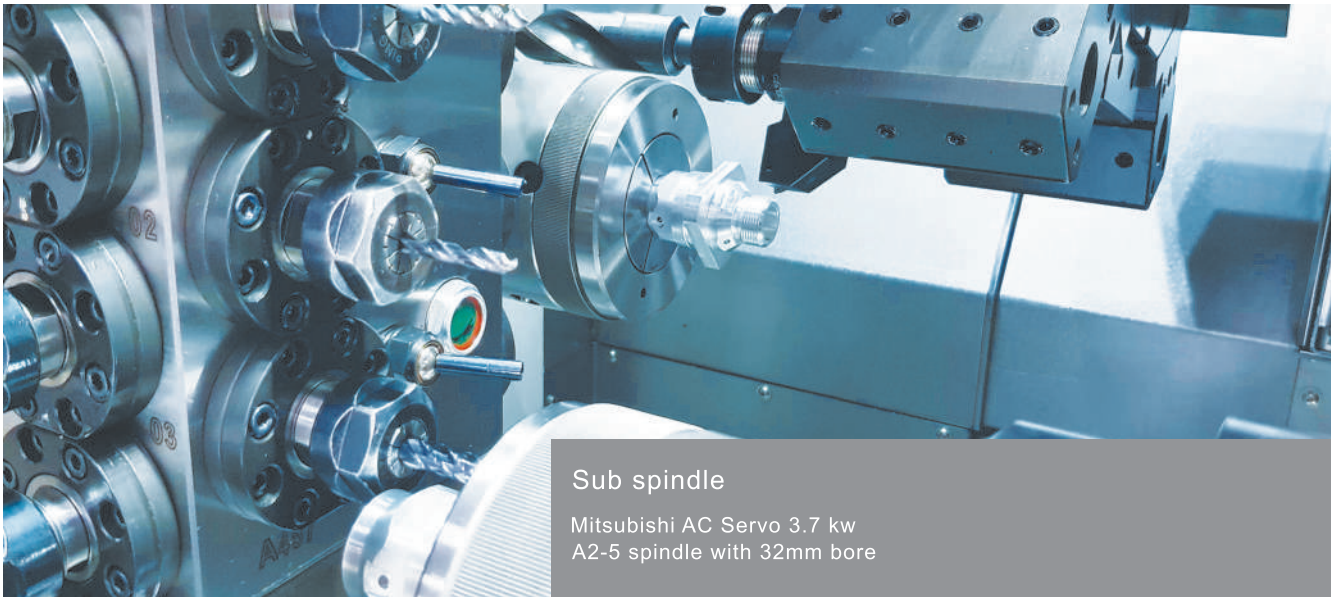
View videos [→](#)



► Flexible duo system simultaneous

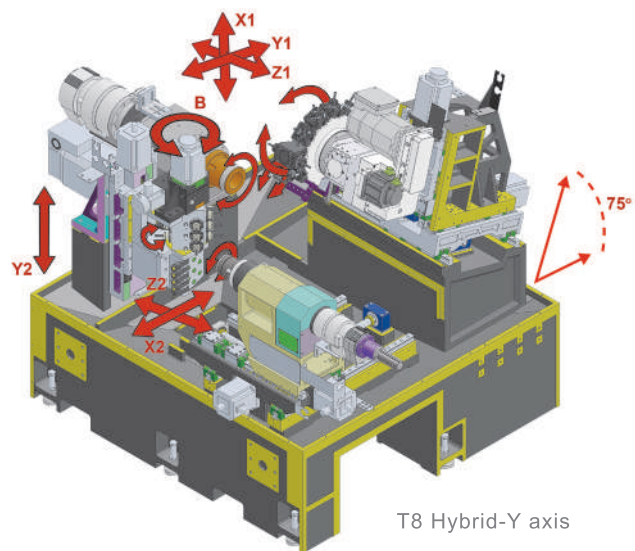
The turret is mounted on a secondary 75 degrees wedge saddle on top of the X₁ axis slide from one-piece casting. Both X₁ & Y₁ axes have extra wide hardened and linear ways to assure the rigidity and accuracy. Y₁ axis control further enhances multi-tasking live tooling capabilities and improves various machining precision. With Y-axis travel 80 mm(=±40mm), a wide variety of parts can be efficiently machined.





Highlights

- Integrated spindle drive with 4,000 rpm for the main and sub spindle
- Flexible gantry tooling with rotary table class - B axis for machining on sub spindle
- Tool probing is easy use
- Y axis enhances the multi-tasking live tooling capabilities
- Power turret with 12 stations for rigid machining on main spindle
- Machine can totally upload 38 tools



03 T8 Twin-Y / Mill-Y

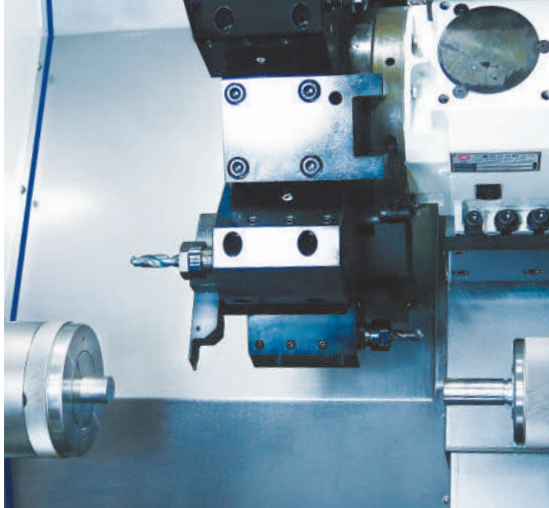
Twin spindles with synchronous and C axis function



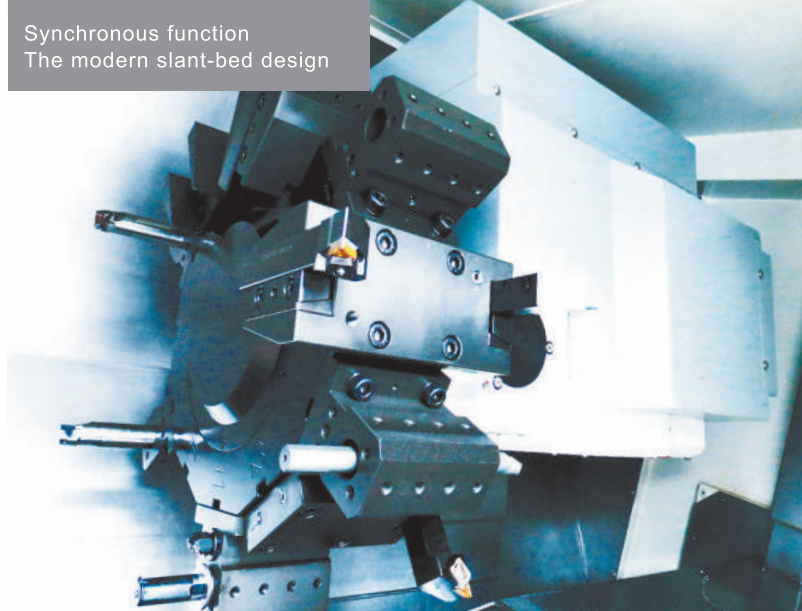
T8 Twin-Y CNC turning center with 9 axes (6 axes+3 spindles) control for X_1 , Y_1 (opt.), Z_1 , Z_2 , C_1 , C_2 , S_1 , S_2 , T_1 (S_3) axis. This machine is equipped by spindle C-axis control, turret-type tool post with rotating tool, back-side sub-spindle with C-axis control.

View videos 

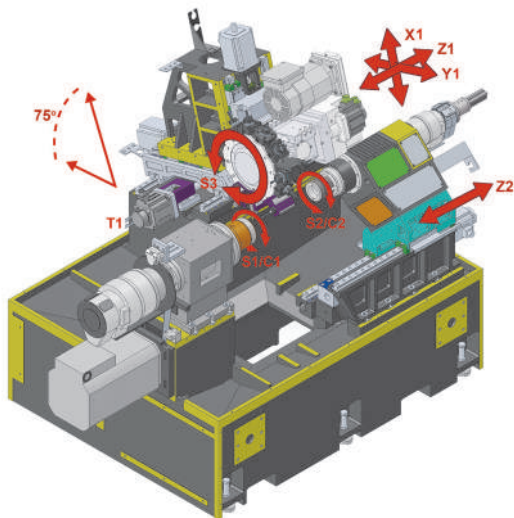




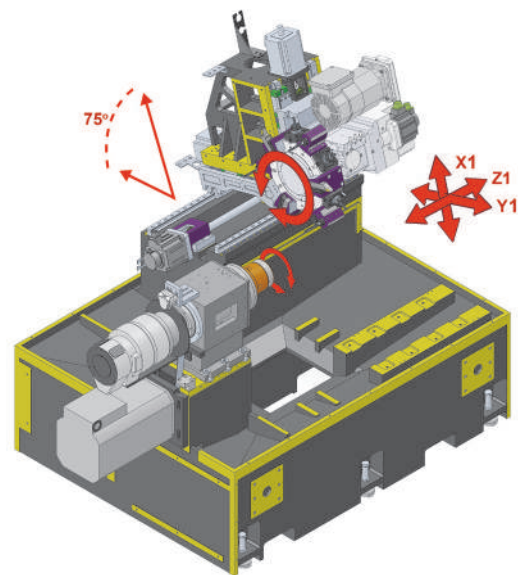
Parts required heavy machining, Y-axis milling, machining 2 sides in one set up.
Example: HSK-65 tool holders.



Synchronous function
The modern slant-bed design



T8 Twin-Y axis



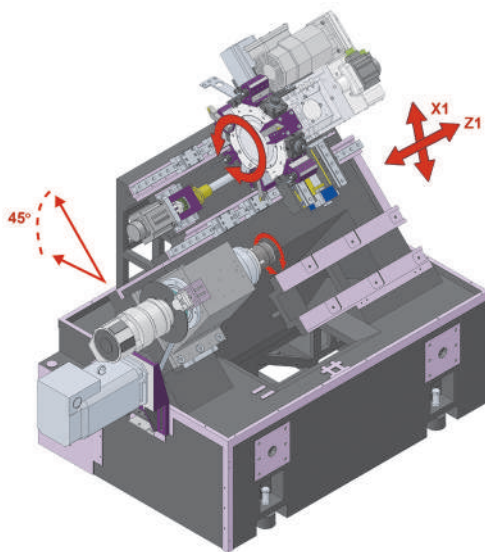
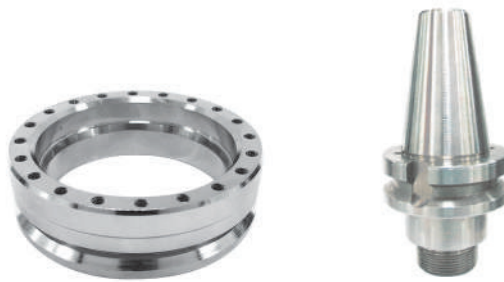
T8 Mill-Y axis

04

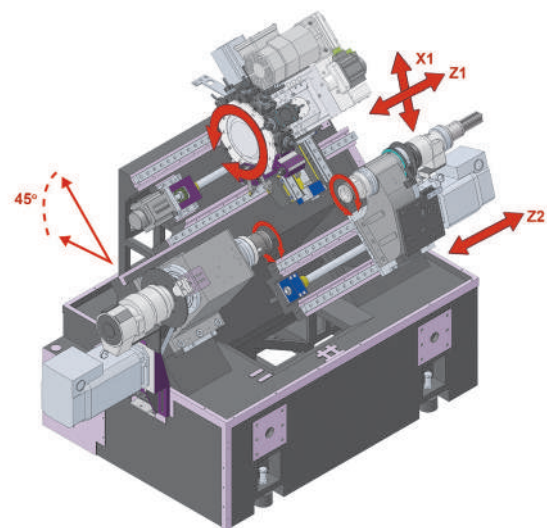
T8/T6 Twin & T8/T6 Mill

Twin spindles with synchronous

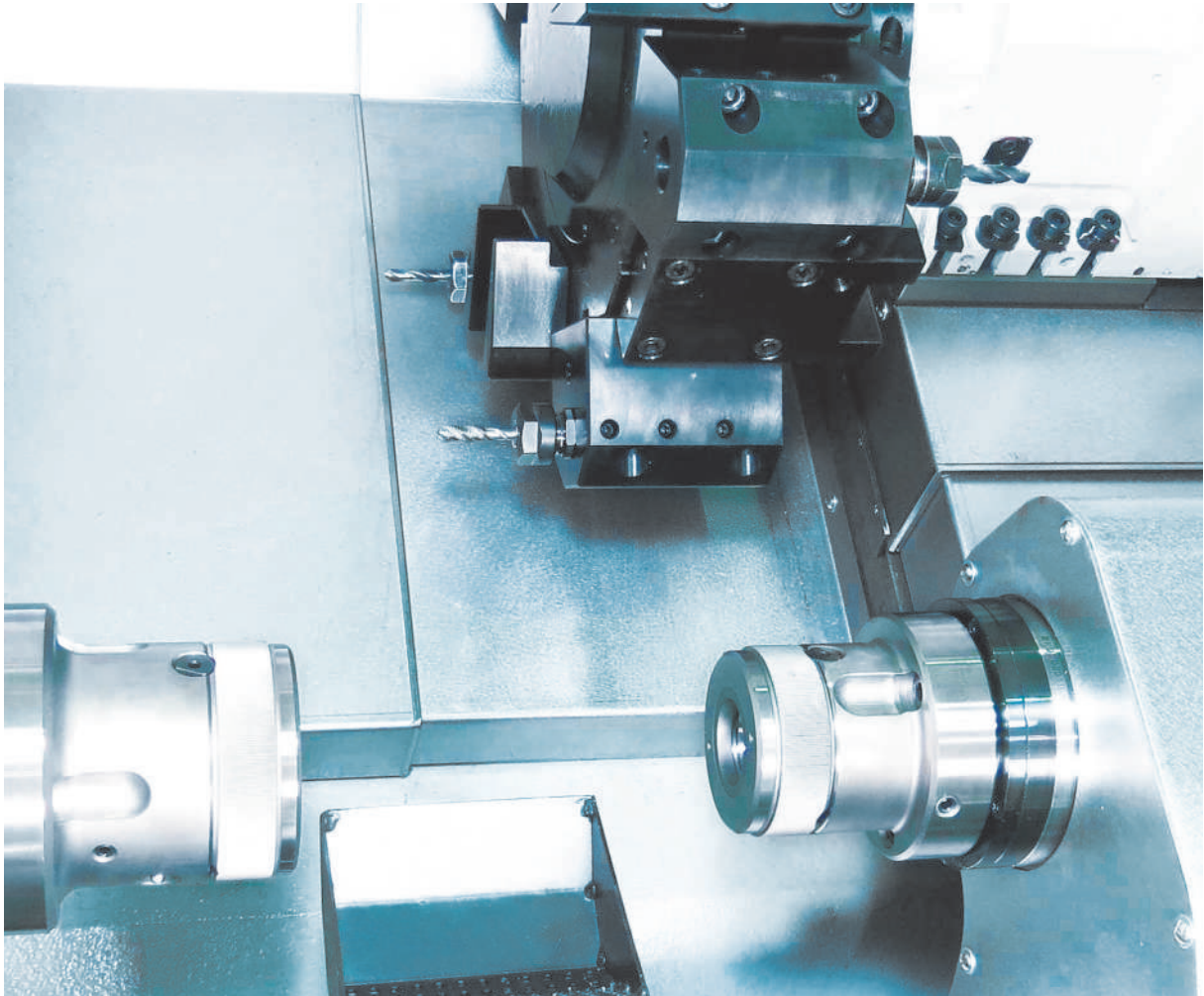
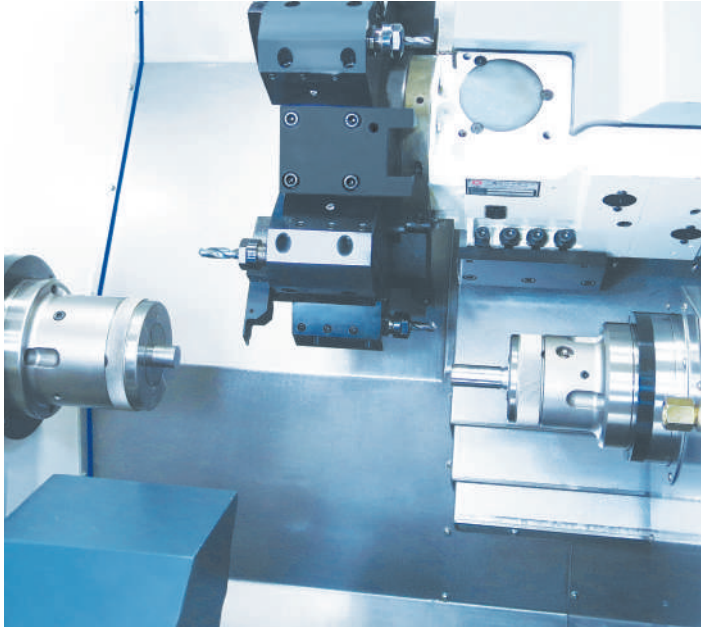
T6/T8 TWIN is classic turret lathe with milling function and sub spindle. Turret travel along 2 linear axis. Example of application can be to mill keyways of shafts or drill holes in flanges. Sub spindle allows machine both sides of part in one set up.



T8 / T6 Mill axis

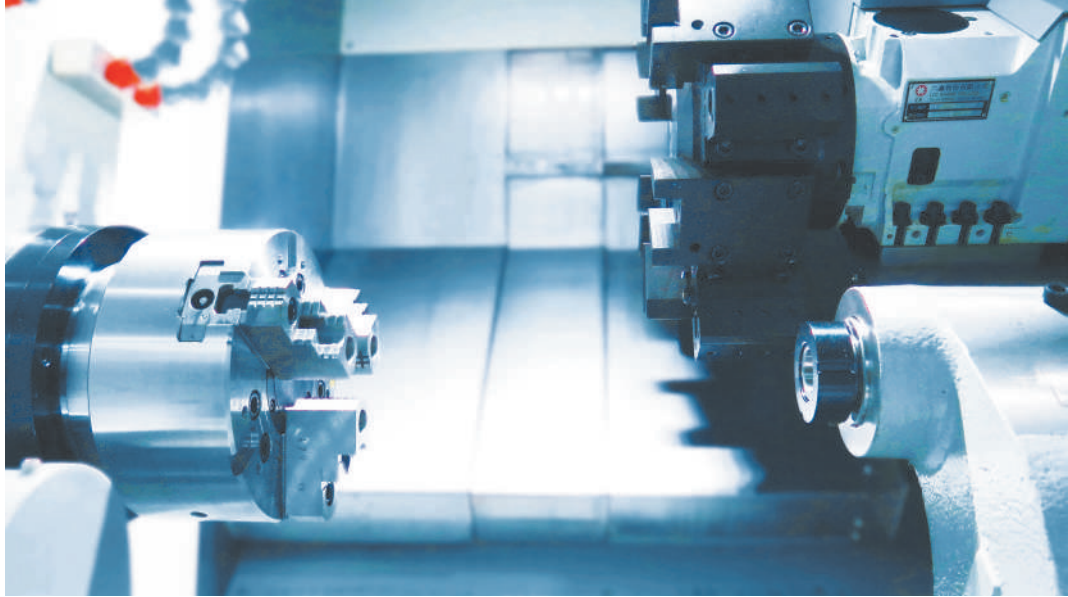


T8 / T6 Twin axis

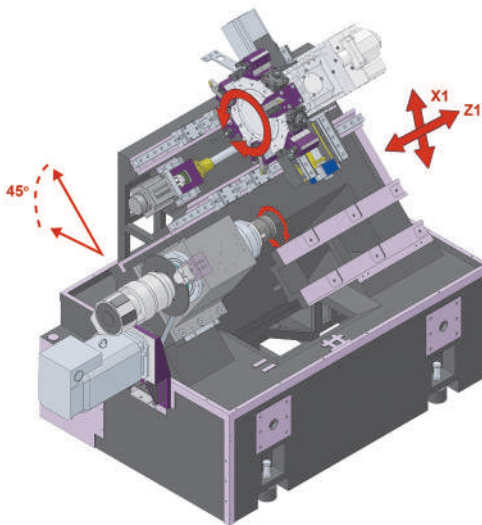


05 T8/T6 Compact

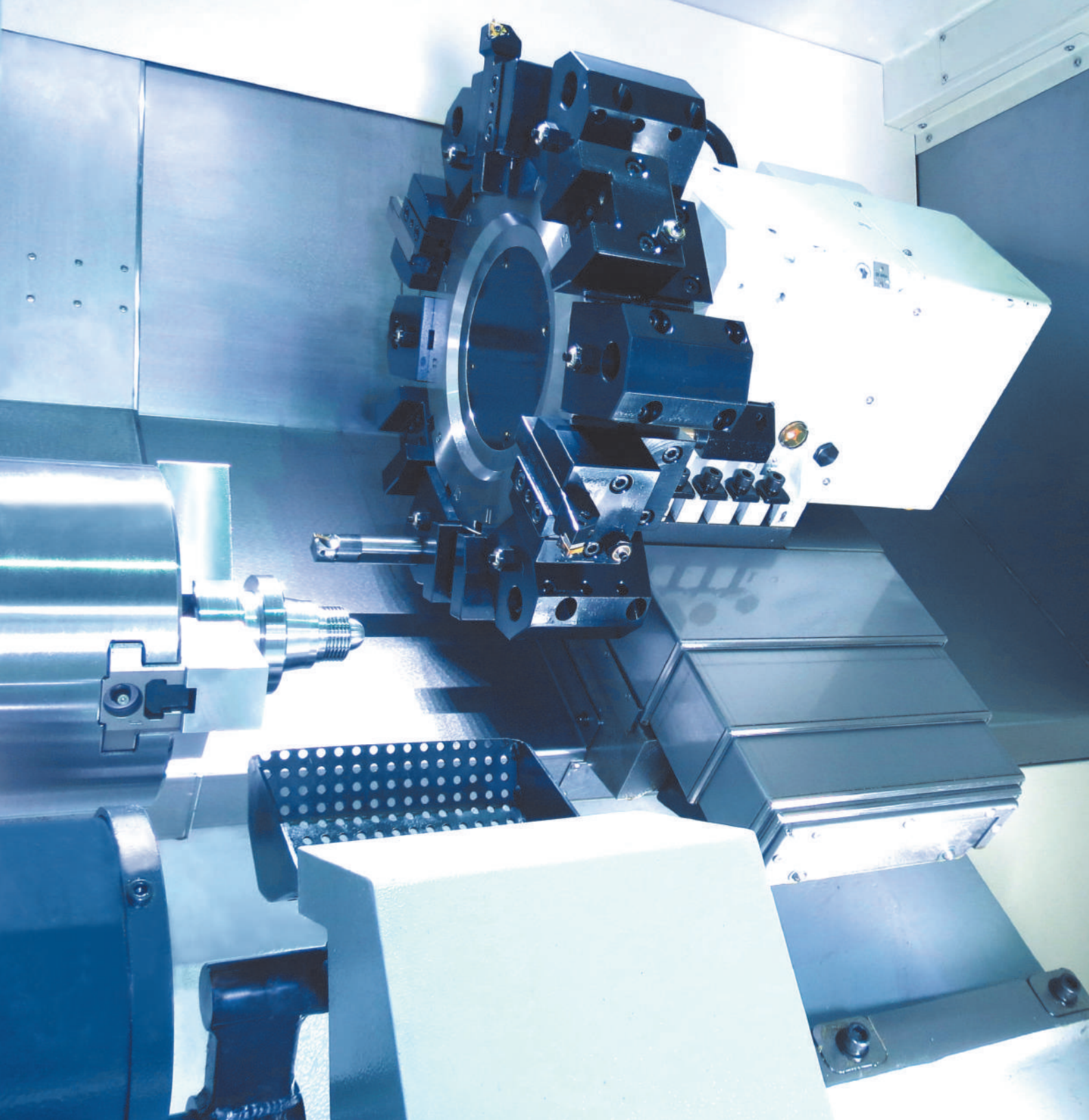
Offers the great cost-performance



The standard slant-bed machine packed with servo turret with 12 stations and programming tailstock(option). It offers the great cost-performance for efficient turning operations for chuck parts.

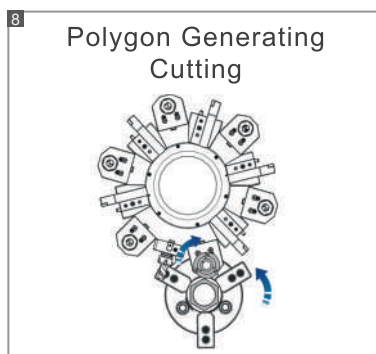
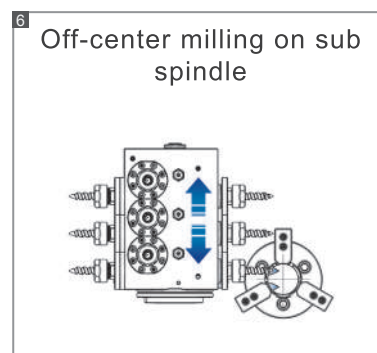
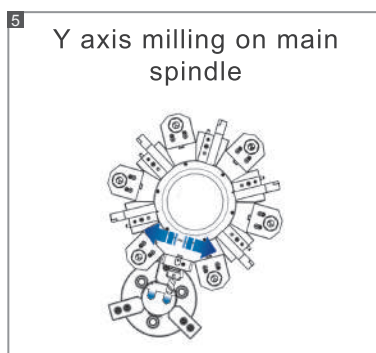
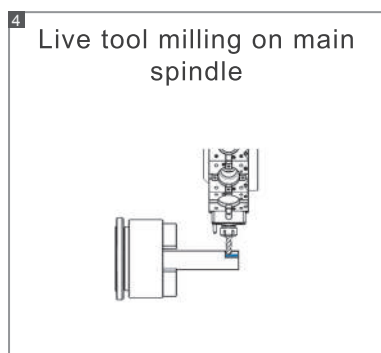
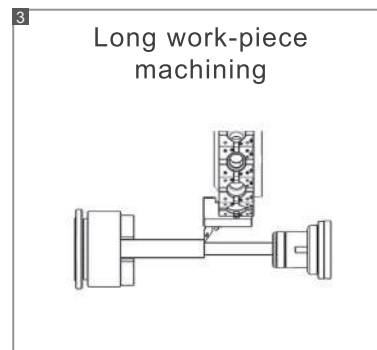
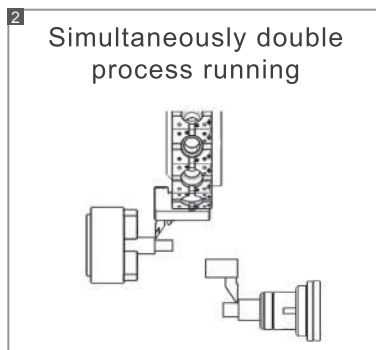
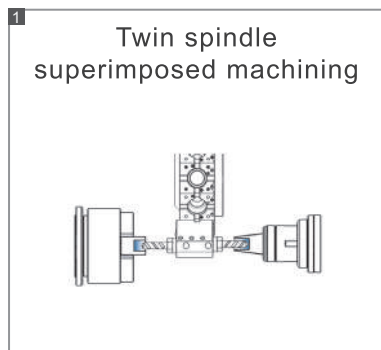


T8 / T6 Compact axis



06 Machine applications

T-series can be used in a wide range of applications



1 T8 Hybrid-Y/T8-T/T6-T/T8TY

2 T8 Hybrid-Y

3 T8 Hybrid-Y/T8-T/T6-T/T8TY

4 T8 Hybrid-Y/T8-T/T6-T/T8TY/T8MY/T8-M/T6-M

5 T8 Hybrid-Y/T8TY/T8MY

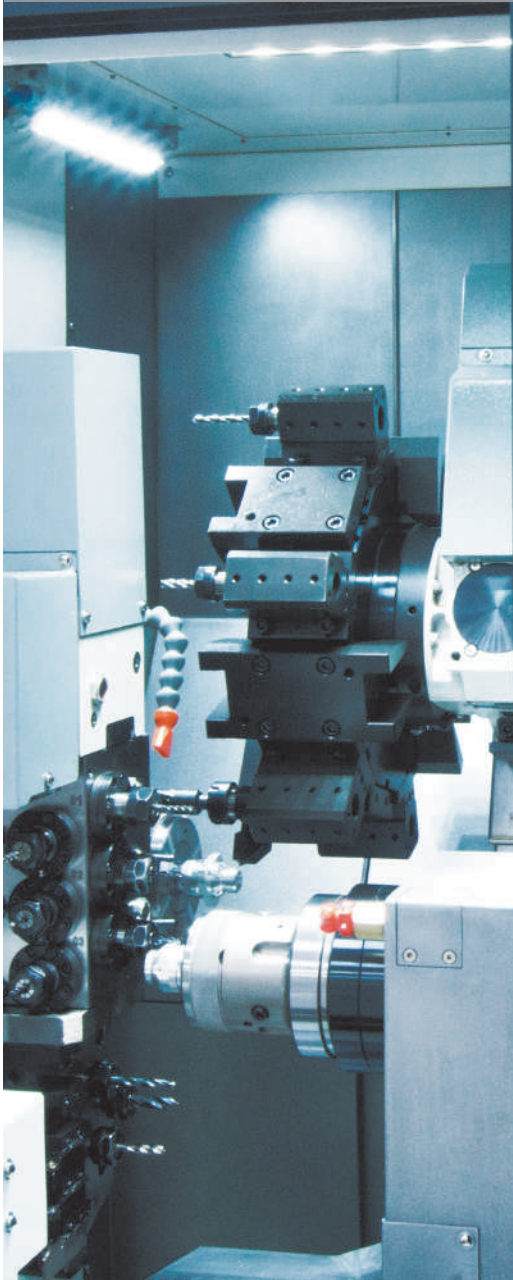
6 T8 Hybrid-Y

7 T8 Hybrid-Y

8 T8 Hybrid-Y/T8-T/T6-T/T8TY/T8MY/T8-M/T6-M

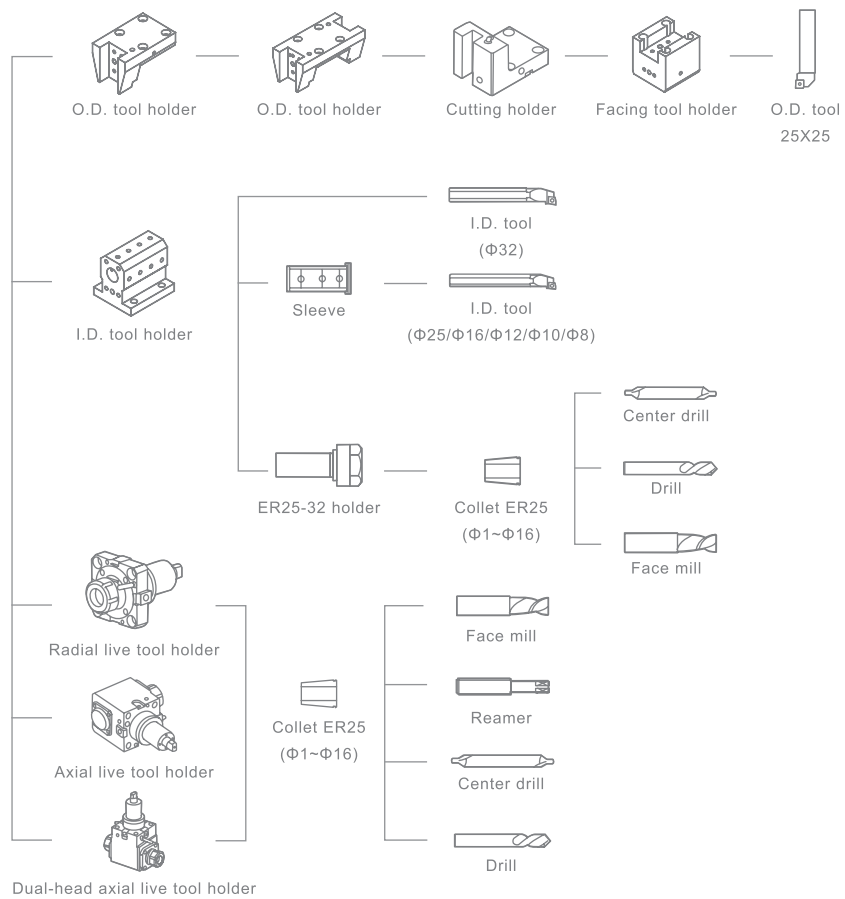
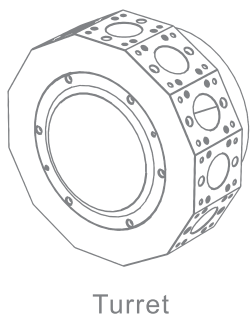
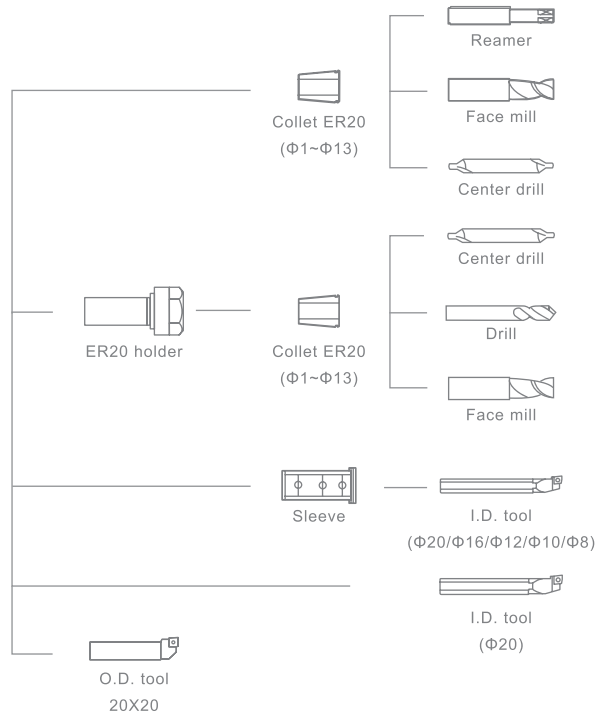
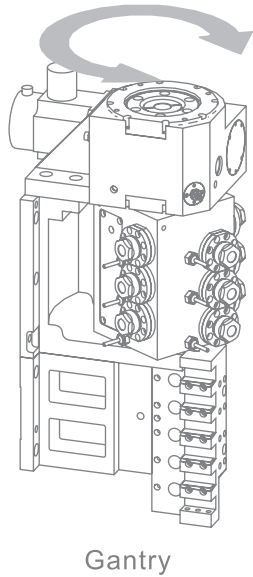
Cycle time can be saved up to 45%

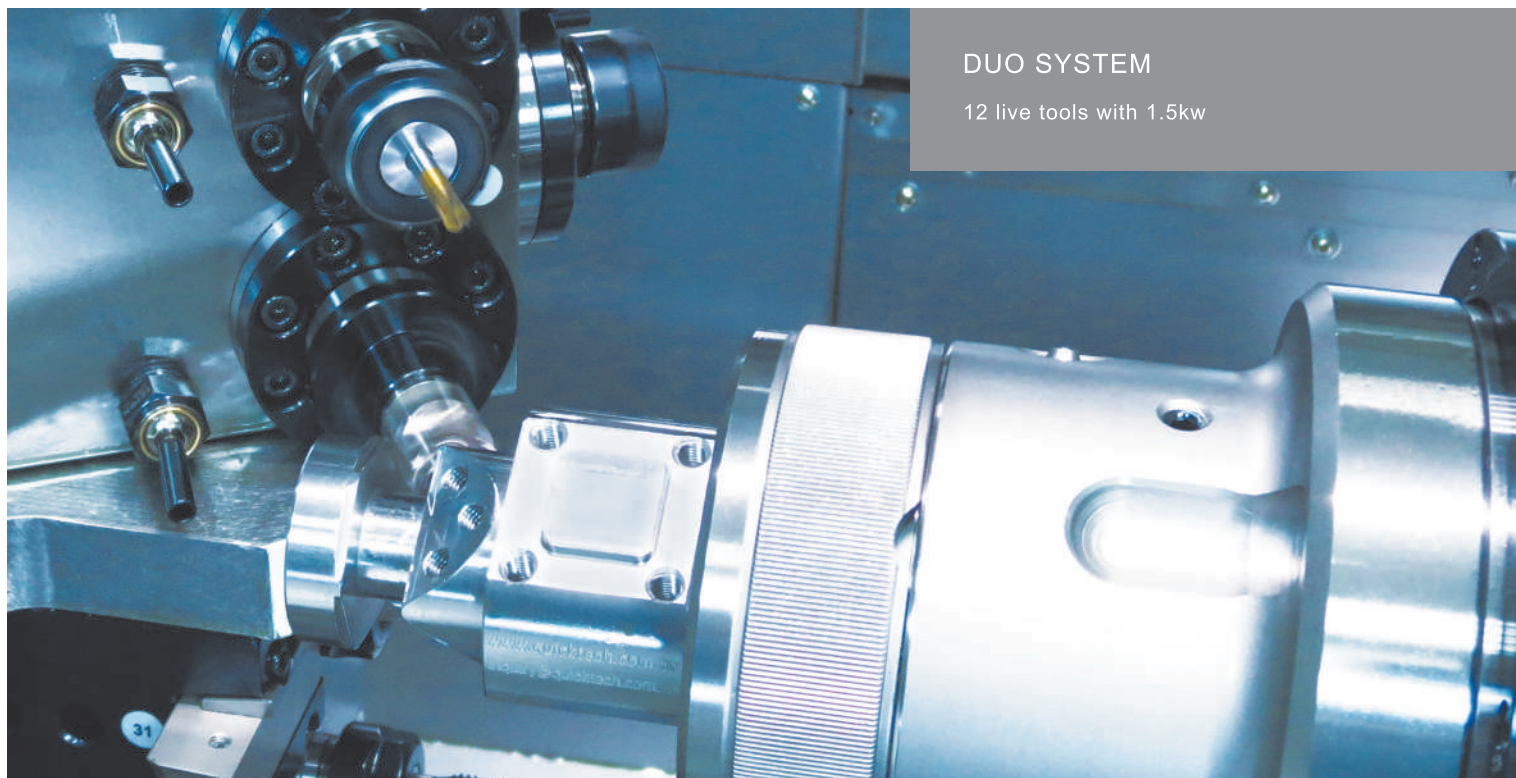
They are ideal for producing complicated and single parts in high production demand



07 Tooling system

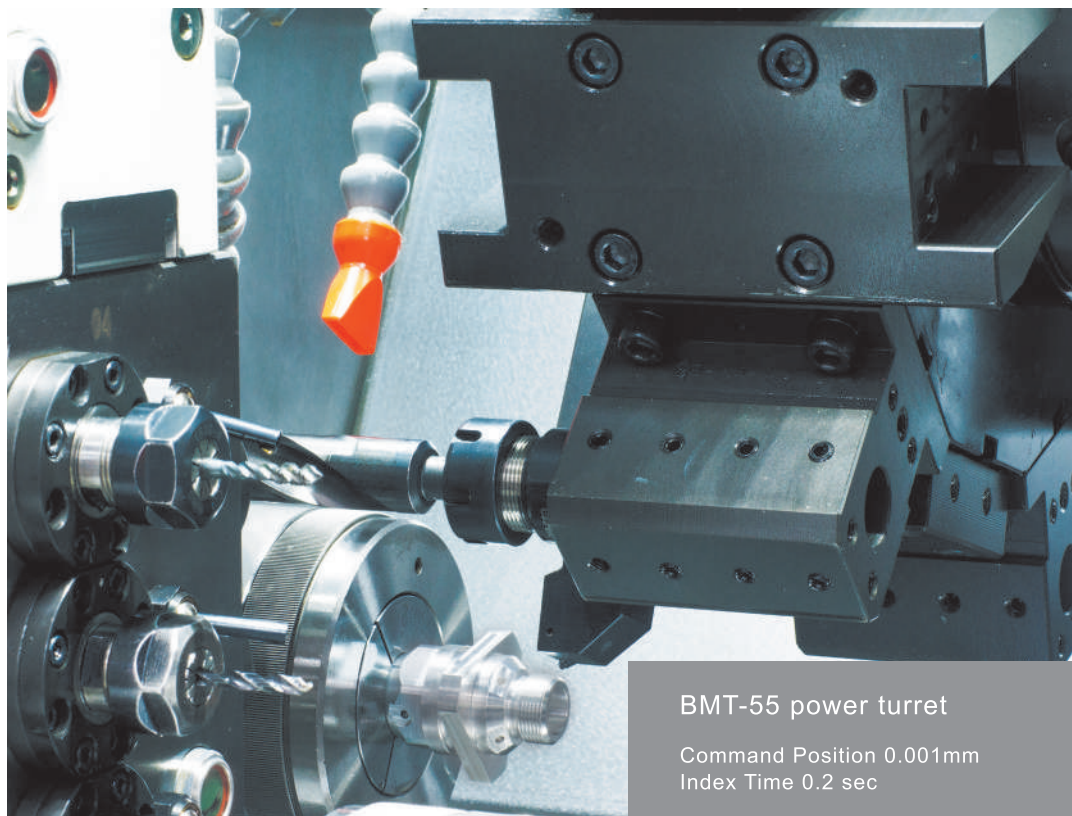
12 live tools with 3.7kw/Motorized Tool 4000rpm





DUO SYSTEM

12 live tools with 1.5kw



BMT-55 power turret

Command Position 0.001mm
Index Time 0.2 sec

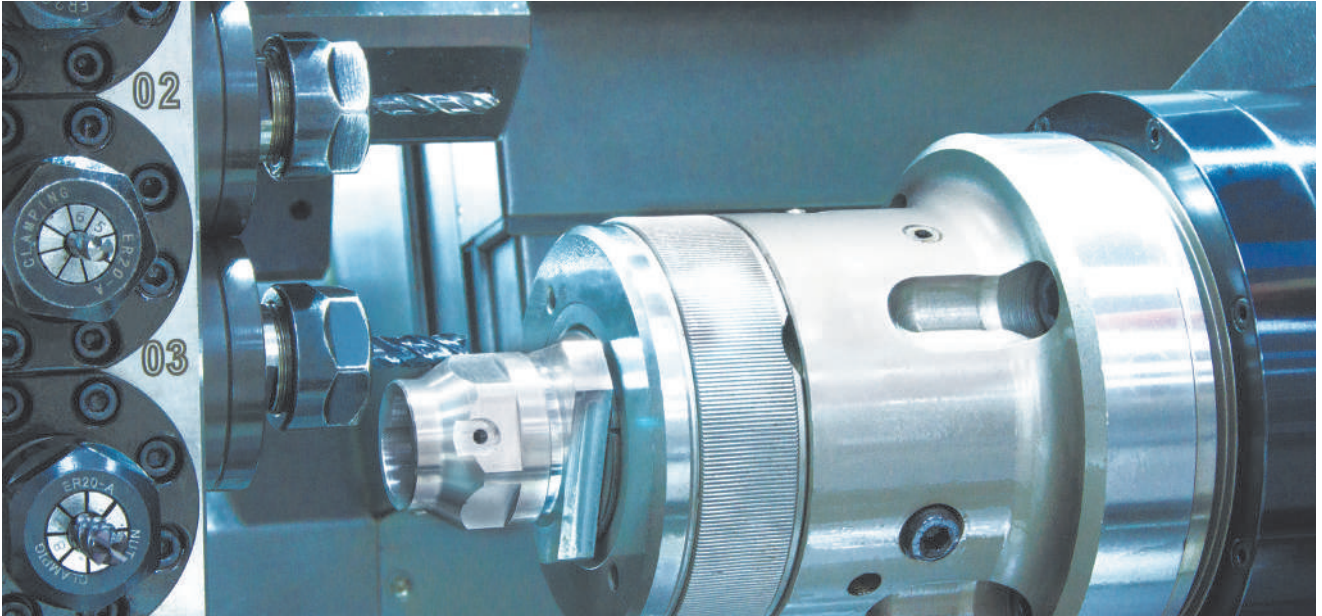
07 Tooling system

12 live tools with 1.5kw, B-axis free angle, tilting drilling and tapping

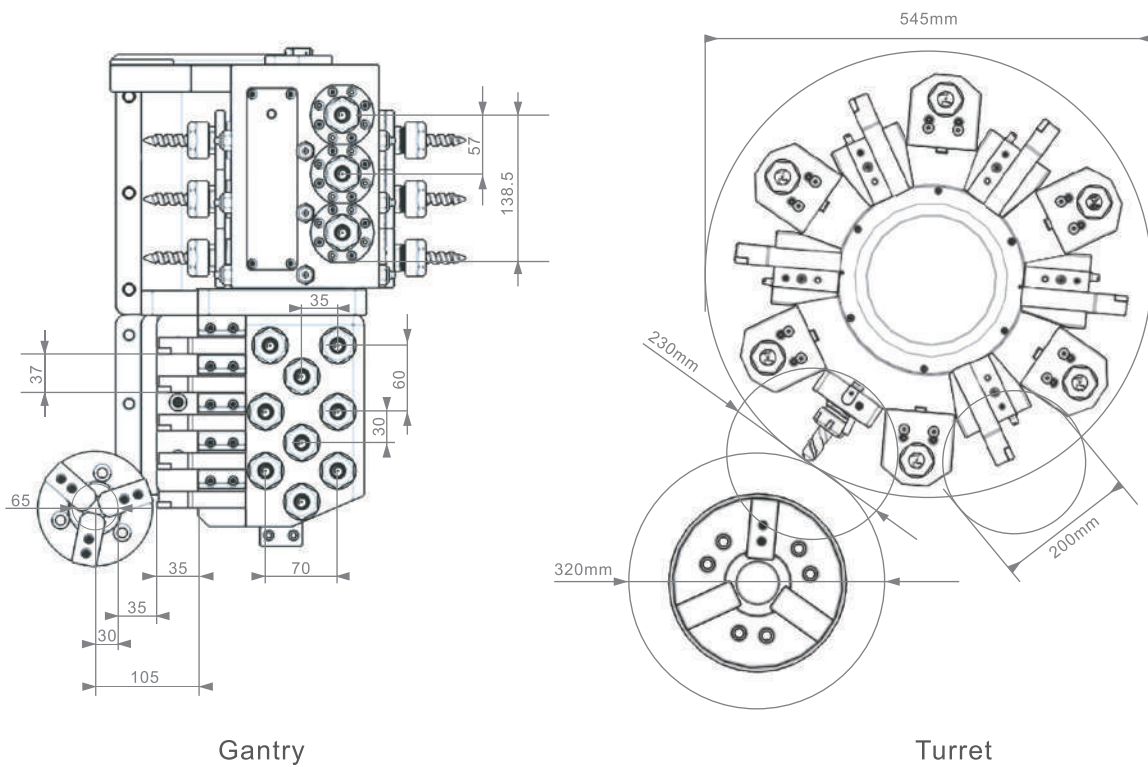


2 programs

Twin spindles
simultaneous machining



Tooling interference



08 Specifications

	Machine type	T8 Hybrid-Y	T8 Twin-Y	T8 Mill-Y
Main spindle	Swing over bed	500mm	500mm	500mm
	Swing over cross slide	300mm	300mm	300mm
	Max. turning dia.	300mm	300mm	300mm
	Max. bar working dia.	65mm	65mm	65mm
	Max. turning length	200mm	150mm	150mm
	Chuck size	KK6-185E60B	KK6-185E60B	KK6-185E60B
	Main spindle nose	A2-6	A2-6	A2-6
	Main spindle bore	66mm	66mm	66mm
	Max rpm.	3000rpm (4000rpm)	3000rpm (4000rpm)	3000rpm (4000rpm)
	Max. distance between jaw chuck faces (Max. distance between programming tailstock and jaw chuck face)	400 -	480 -	- (440)
Sub spindle	Max. turning dia.	100mm	200mm	-
	Max. Bar working dia.	42mm	42mm	-
	Max. turning length	100mm	150mm	-
	Chuck size	KK5-173E42B	KK5-173E42B	-
	Sub spindle nose	A2-5	A2-5	-
	Sub spindle bore	32mm	32mm	-
	Max rpm.	4000rpm(6000rpm)	4000rpm(6000rpm)	-
C axis	Least command unit	0.001°	0.001°	0.001°
	Positioning accuracy	0.02°	0.02°	0.02°
Travel & Feed	Slant bed degree	75°	75°	75°
	X1/Z1 axis travel	150mm/380mm	150mm/380mm	150mm/380mm
	Y1 axis travel	80mm=±40mm	80mm=±40mm	80mm=±40mm
	X2/Y2/Z2 axis travel	470mm/380mm/280mm	- / - / 385mm	- / - / 385mm
Axis	Ball screw	Ø32xP10	Ø32xP10	Ø32xP10
	Linear guide way	35mm	35mm	35mm
	Y2 axis linear guide way	25mm	-	-
	Rapid feed	30m/min	30m/min	30m/min
	Repetition accuracy	0.005mm	0.005mm	0.005mm
ATC system	System 1	BMT-55 power turret	BMT-55 power turret	BMT-55 power turret
	No. of tools	12	12	12
	Tool holder	□25mm/○25mm/○32mm	□25mm/○25mm/○32mm	□25mm/○25mm/○32mm
	System 2	Gantry	-	-
	No. of tools	ODx5/IDx9/Live toolx12	-	-
	B axis(option accessory)	360°	-	-
Motor	Tool holder	□20mm/○20mm	-	-
	Main spindle	Servo spindle 11kw	Servo spindle 11kw	Servo spindle 11kw
	Sub spindle	Servo spindle 3.7kw(5.5kw)	Servo spindle 3.7kw(5.5kw)	-
	X1/Y1/Z1 axis	AC servo 2.2/1.5/1.5kw	AC servo 2.2/1.5/1.5kw	AC servo 2.2/1.5/1.5kw
	X2/Y2/Z2 axis	AC servo 1.5/1.5/1.5kw	AC servo - / - /1.5kw	-
Hydraulic system	Pump spec/capacity	1HP/40L	1HP/40L	1HP/40L
	Hydraulic pressure/flow	30kg/cm ² 12L/min	30kg/cm ² 12L/min	30kg/cm ² 12L/min
Lubrication	Pump spec/capacity	25W/2L	25W/2L	25W/2L
	Max. pressure	15kg/cm ²	15kg/cm ²	15kg/cm ²
Coolant system	High flow pump spec	TPH4T5K,5bar,75L/min	TPH4T5K,5bar,75L/min	TPH4T5K,5bar,75L/min
	High pressure pump spec	SF-30C,25 bar,30L/min	SF-30C,25 bar,30L/min	SF-30C,25 bar,30L/min
	Coolant tank capacity	240L	240L	240L
Machine size	Length without/with chip coveyor	2795mm/4118mm	2450mm/3550mm	2450mm/3550mm
	Machine width/height	2051mm/2180mm	1650mm/1750mm	1650mm/1750mm
	Machine weight	6100kg	5700kg	5500kg
	Mitsubishi controller	M830S	M80	M80

() Option

	Machine type	T8-T / T6-T	T8-M / T6-M	T8-C / T6-C
Main spindle	Swing over bed	400mm	400mm	400mm
	Swing over cross slide	230mm	230mm	230mm
	Max. turning dia.	200mm	200mm	200mm
	Max. bar working dia.	65mm/42mm	65mm/42mm	65mm/42mm
	Max. turning length	100mm	300mm	300mm
	Chuck size	KK6-185E60B/KK5-173E42B	KK6-185E60B/KK5-173E42B	KK6-185E60B/KK5-173E42B
	Main spindle nose	A2-6/A2-5	A2-6/A2-5	A2-6/A2-5
	Main spindle bore	66mm/43mm	66mm/43mm	66mm/43mm
	Max rpm.	3000rpm(4000rpm) /4000rpm(6000rpm)	3000rpm(4000rpm) /4000rpm(6000rpm)	3000rpm(4000rpm) /4000rpm(6000rpm)
	Max. distance between jaw chuck faces	400	-	-
(Max. distance between hydraulic single tailstock and jaw chuck face)	-	(500)	(500)	
Sub spindle	Max. turning dia.	150mm	-	-
	Max. workpiece working dia.	30mm	-	-
	Max. turning length	100mm	-	-
	Chuck size	KK4-163E30B	-	-
	Sub spindle nose	A2-4	-	-
	Sub spindle bore	26mm	-	-
Max rpm.	4000rpm(6000rpm)	-	-	
C axis	Least command unit	0.001°	0.001°	-
	Positioning accuracy	0.02°	0.02°	-
Travel & Feed	Slant bed degree	45°	45°	45°
	X1/Z1 axis travel	200mm/320mm	200mm/320mm	200mm/320mm
	Y1 axis travel	-	-	-
	X2/Y2/Z2 axis travel	- / - /360mm	-	-
Axis	Ball screw	Ø32xP10	Ø32xP10	Ø32xP10
	Linear guide way	35mm	35mm	35mm
	Y2 axis linear guide way	-	-	-
	Rapid feed	30m/min	30m/min	30m/min
	Repetition accuracy	0.005mm	0.005mm	0.005mm
ATC system	System 1	BMT-55 power turret	BMT-55 power turret	High speed servo turret (BMT-55 power turret)
	No. of tools	12	12	12
	Tool holder	□25mm/Ø25mm/Ø32mm	□25mm/Ø25mm/Ø32mm	□25mm/Ø25mm/Ø32mm
	System 2	-	-	-
	No. of tools	-	-	-
	B axis(option accessory)	-	-	-
Motor	Tool holder	-	-	-
	Main spindle	Servo spindle 11kw/7.5kw(11kw)	Servo spindle 11kw/7.5kw(11kw)	Servo spindle 11kw/7.5kw(11kw)
	Sub spindle	Servo spindle 5.5kw	-	-
	X1/Y1/Z1 axis	AC servo 1.5/ - /1.5kw	AC servo 1.5/ - /1.5kw	AC servo 1.5/ - /1.5kw
	X2/Y2/Z2 axis	AC servo - / - /1.0kw	-	-
Hydraulic system	Pump spec/capacity	1HP/40L	1HP/40L	1HP/40L
	Hydraulic pressure/flow	30kg/cm ² 12L/min	30kg/cm ² 12L/min	30kg/cm ² 12L/min
Lubrication	Pump spec/capacity	25W/2L	25W/2L	25W/2L
	Max. pressure	15kg/cm ²	15kg/cm ²	15kg/cm ²
Coolant system	High flow pump spec	TPH4T5K,5bar,75L/min	TPH4T5K,5bar,75L/min	TPH4T5K,5bar,75L/min
	High pressure pump spec	(SF-30C,25 bar,30L/min)	-	-
	Coolant tank capacity	125L	125L	125L
Machine size	Length without/with chip conveyer	2600mm/3200mm	2450mm/3550mm	2450mm/3550mm
	Machine width/height	1300mm/1880mm	1300mm/1880mm	1300mm/1880mm
	Machine weight	3500kg	3500kg	3500kg
	Mitsubishi controller	M80	M80	M80

() Option



Duo System

For more information
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