

QUICK-TECH

Quick-TECH Machinery Co., Ltd.
the Art of turning



quicktech
ENGINEERING AUS DEUTSCHLAND

MEMBER OF
TG GROUP

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ENGINEERING AUS DEUTSCHLAND



CNC MACHINE TOOLS MANUFACTURING

Concentration to make Engineering Technology





Advanced automation from concept to reality

This year, we are proud to announce a major and positive step in our production line up.

From the beginning, we have strived to produce machine tools that are conceptually unique in both design and performance.

Much time has been spent on research and development to produce technically advanced, yet conceptually different, multi-axis CNC lathes, that will not only compete in the world market, but can out perform machine tools from more traditional manufacturers.



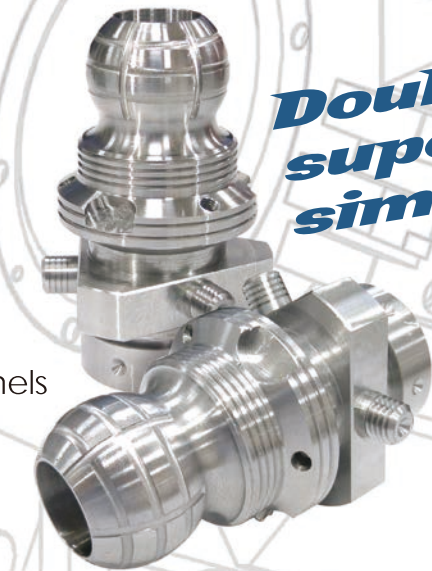
Turning concept revolution

Feature:

- Turret and Gantry tower combination
- Mitsubishi M800 high-end controller(opt. Fanuc)
- Main and sub spindles with synchronous function and C axis
- Up to 24 live tools with powerful motor
- Double processes with milling function and Y axis on both channels
- 25 bar coolant pressure
- B axis is free angle continuous machining

Highlight:

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



**Double tools
superimposed
simultaneous**



T8 Hybrid

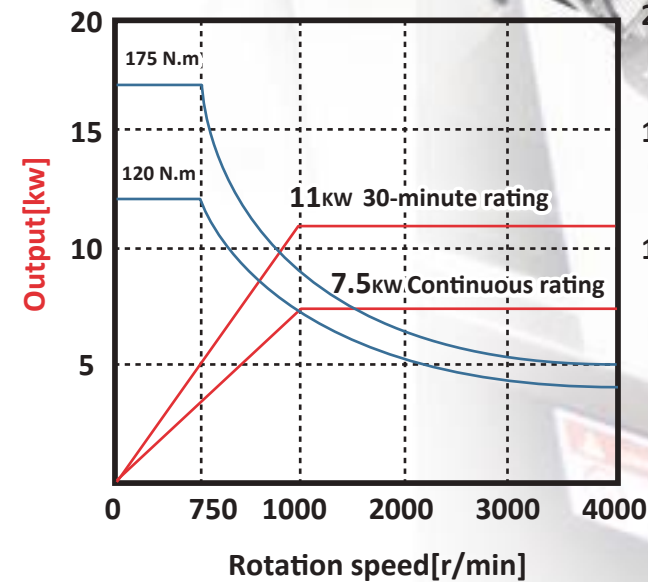
Flexible **duo** system simultaneous

Cycle time can be saved up to **45%**

The system allows running **2 programs simultaneously**

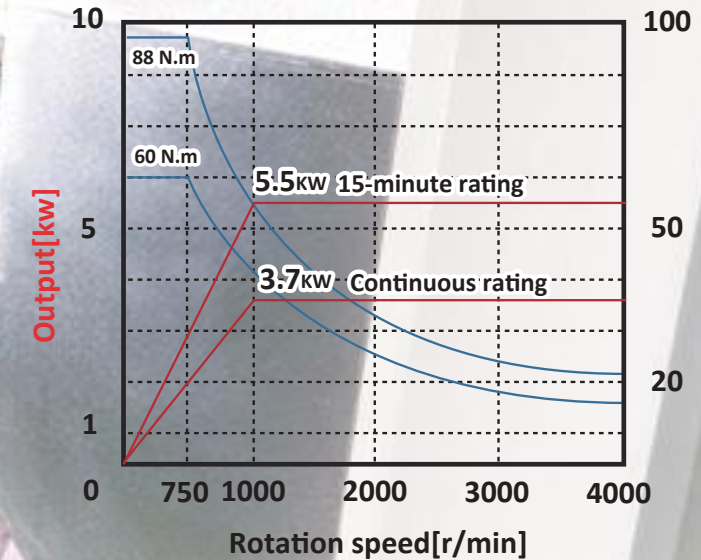
With available heavy duty power turret, flexible gantry tools for sub spindle and C-axis capabilities, milling and turning applications is completed in one single machine.

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



Mitsubishi
AC Servo **11** kw

A2-6 main spindle
with **66** mm bore



Mitsubishi AC Servo 3.7 kw

A2-5 sub spindle with 32 mm bore

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.

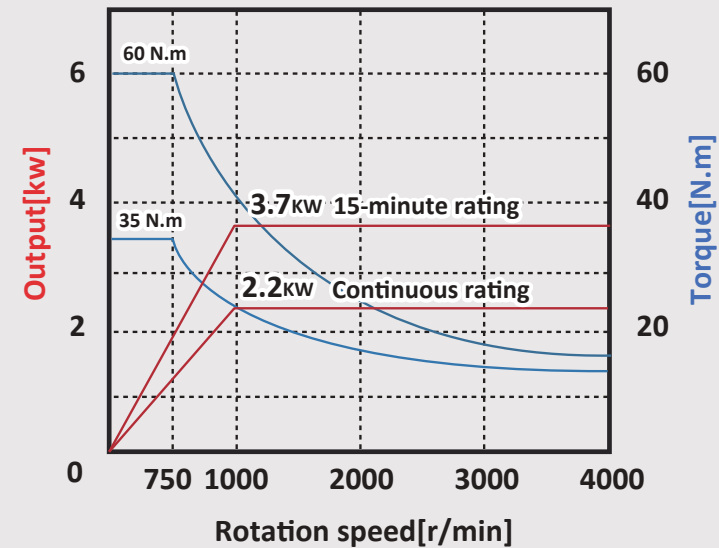
The spindle housing is large, and symmetrically ribbed to allow heat dissipation and thermal stability.

BMT-55 Power Turret

Turret with 12 stations can be additionally equipped with driven tools on six stations. In connection with the driven tools, the main spindle is C-axis functional for accurate positioning.

Command Position **0.001mm**

Index Time **0.2 sec**



12 live tools with **3.7 KW**
 Motorized Tool **4000rpm**

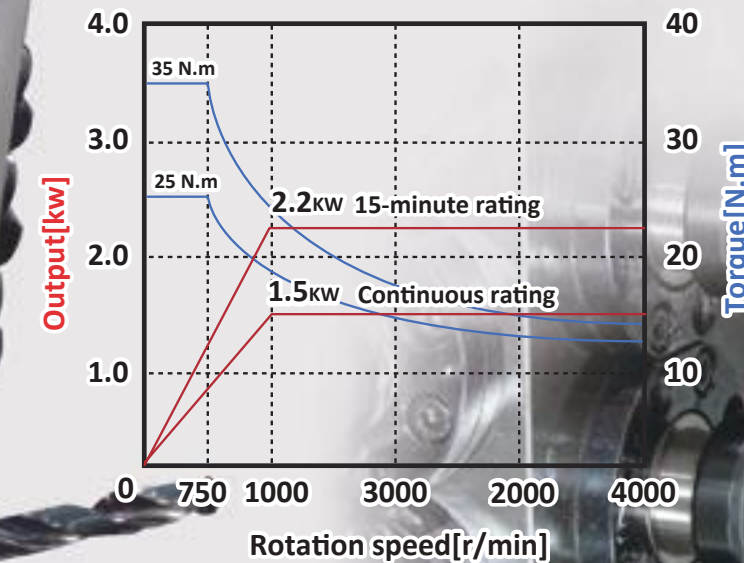
Gantry Tooling

more flexible more functions

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

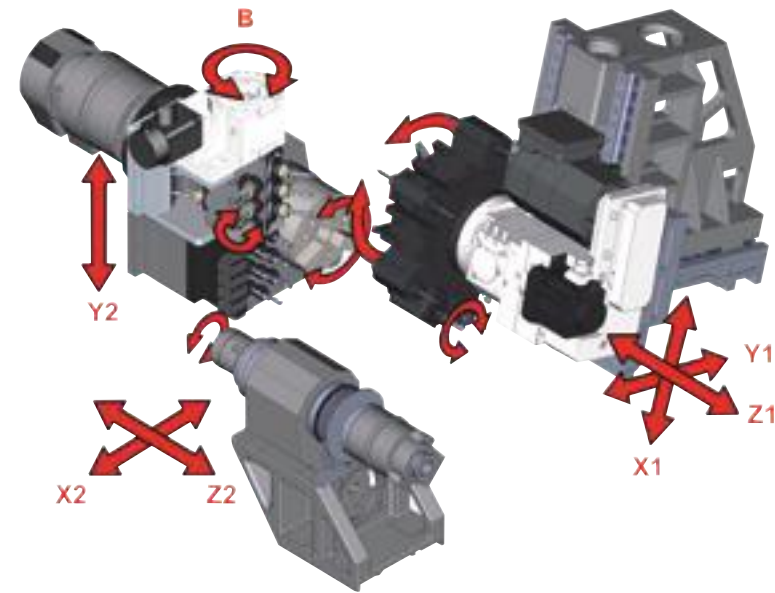
12 live tools with **1.5 KW**



B-Axis
 Free angle
 Tilting drilling
 and tapping

T8 Hybrid-Y

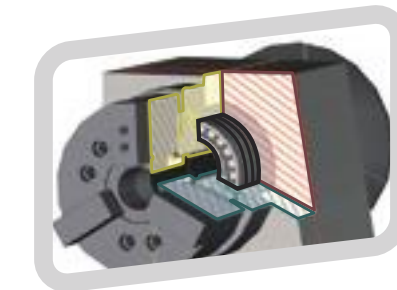
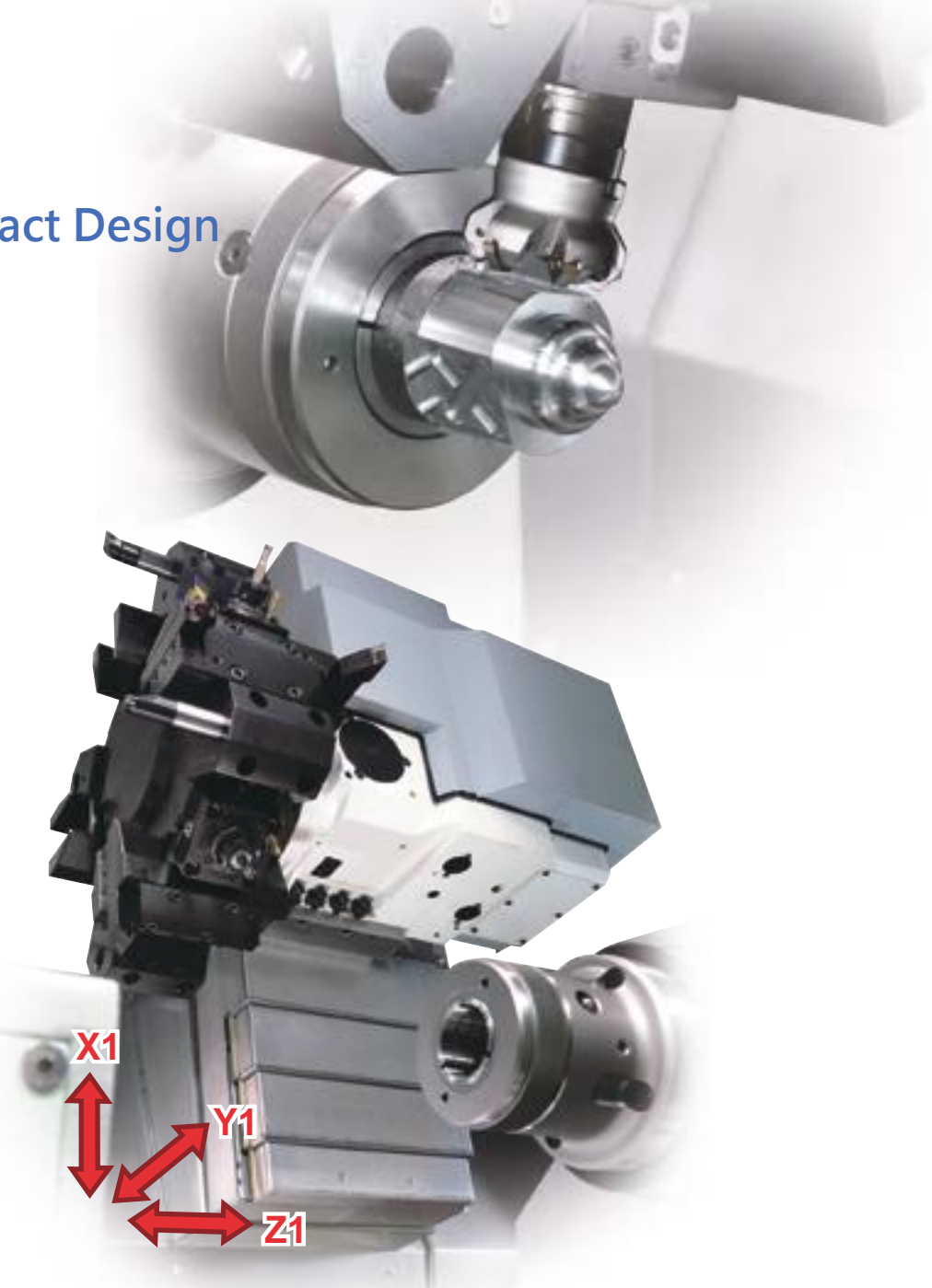
The Optimized technology in Compact Design



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.



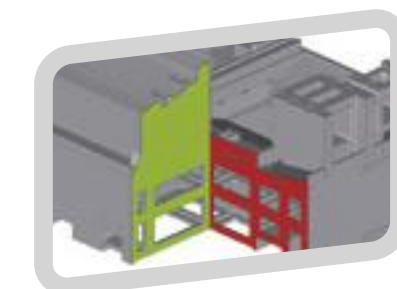
P4 class preload spindle bearing

Preload bearings are offered for the maximum attachment effect



Tool Presetter

Our easy-to-use, automatic tool probing option is a very efficient method for setting and checking tool offsets.



Robust FC35 Meehanite Castings

Harden to over HRB 190 and tempered to relieve stress.



Heat Exchanger

Characterized by its compact design and high thermal efficiency



Mist Collector

Highly efficient mist and smoke collectors



The modern slant-bed design

ensure easy chip disposal and heat elimination.



Oil Skimmer

Designed for jobs that require high capacity oil removal



HIWIN 35mm guide way C3 class ballscrew

C3 class hardened and precision ground ball screw ensure the highest precision and speed



Simple, Visual Monitor

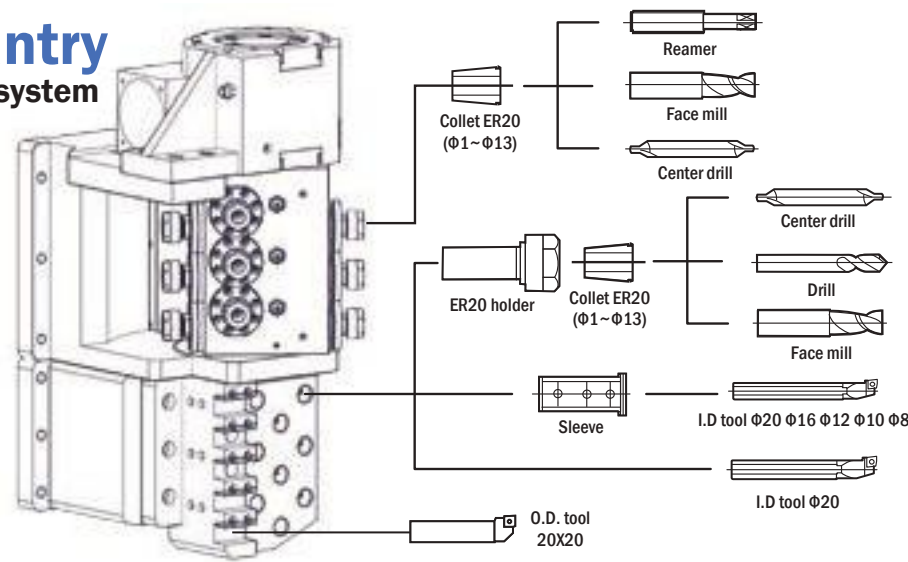
Transparent window for the lubrication and solenoid status check.



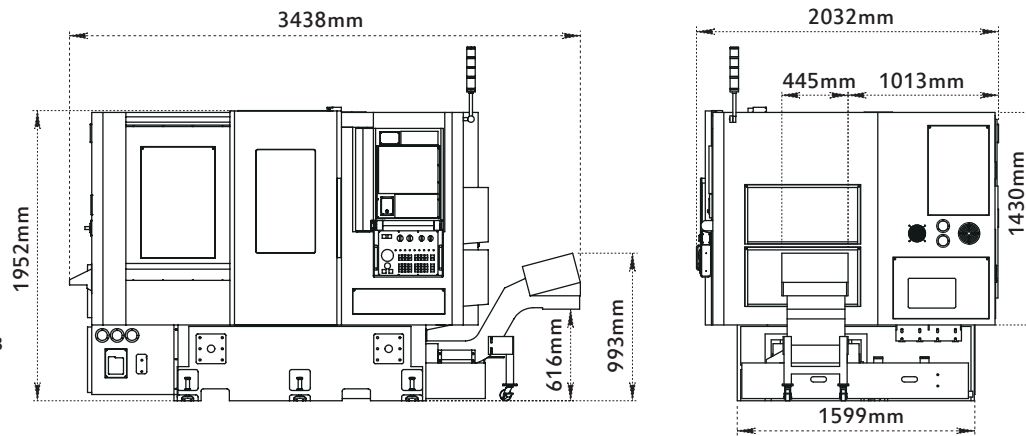
Display

The large high resolution display packed with intelligent conversation programming and path simulation

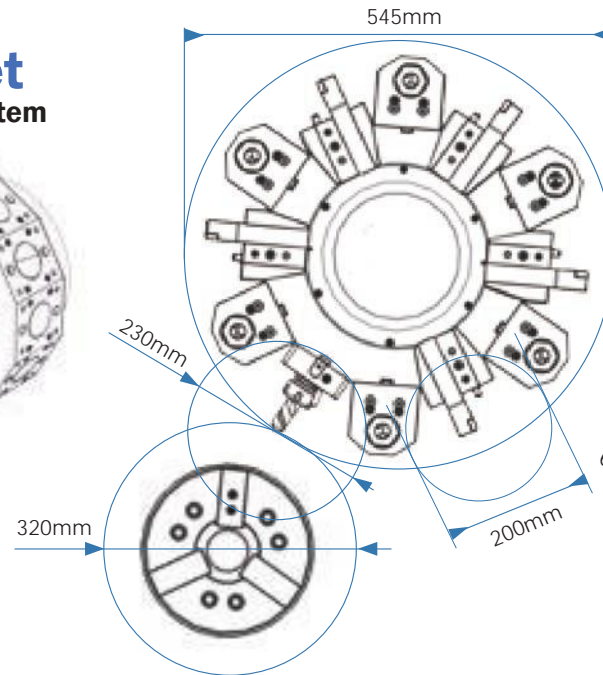
Gantry Tooling system



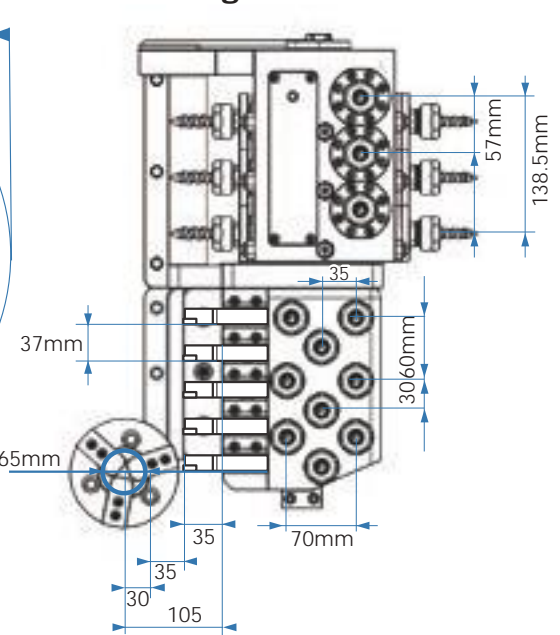
External view



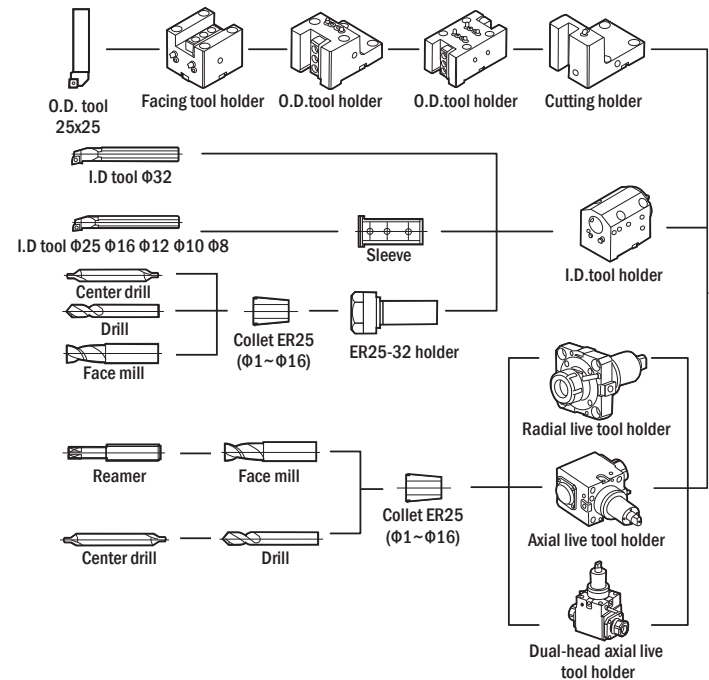
Turret Tooling interference



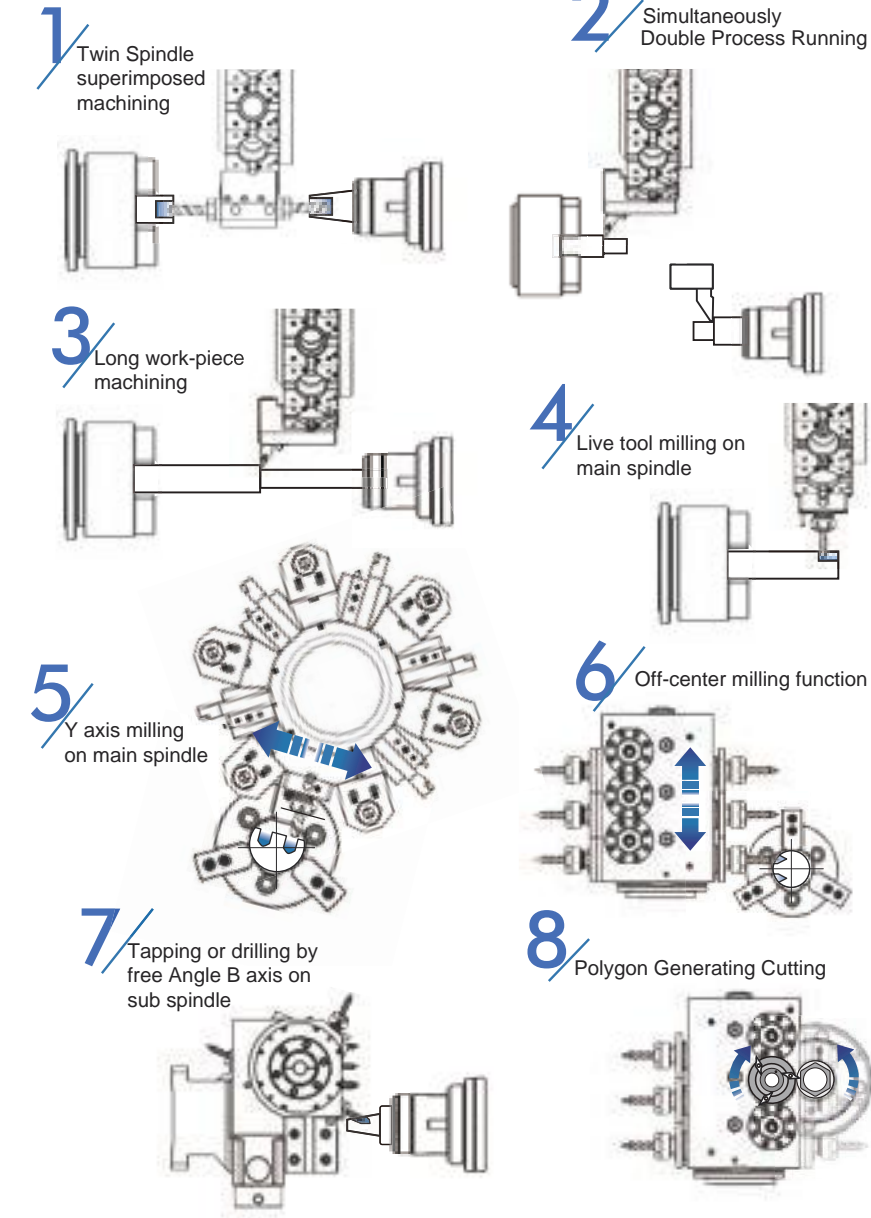
Gantry Tooling interference



Turret Tooling system



Machining applications



T8 Hybrid Specification CNC multi-tasking turning center with sub spindle & milling function

	Controller	Mitsubishi M830 / Fanuc (opt)
Main Spindle Capacity	Spindle bar capacity	65mm
	Swing over Bed	500.0 mm
	Swing over cross slide	300.0 mm
	Max. Turning length	350.0 mm
	Main-Spindle Bore	66.0 mm
	Spindle Speed	4000 rpm
	Slant bed degree	75°
	Hydraulic pressure-mix / max	5/30 kg/cm ²
	Main-Spindle Chuck Size	KK6-185E-60B Collet/A2-6 Chuck
	Sub-Spindle Capacity	Sub-Spindle Chuck Size
Sub-Spindle Bore		32.0 mm
Sub-Spindle Speed Range		4000 rpm
Travel	X1 / Z1 Axis	160.0mm/375.0mm
	X2 / Y2 / Z2 Axis	470.0 mm/375.0mm/335.0 mm
	Y1 Axis	80 mm(=±40mm)
Axes	X1 / Z1 / X2 / Y2 / Z2 axis ball screw	Φ32 x P10
	X1 / Z1 / X2 / Z2 axis linear guide way	35.0 mm
	X1 / Z1 / X2 / Y2 / Z2 axis rapid feed	30M/min
Tooling system	Channel 1	
	System	BMT-55 Turret
	No. of tools	12 (including OD / ID / Live)
	Tool holder	□25mm ○25mm / 32mm
	Channel 2	
	System	Gantry
Motor	No. of tools	OD x 5 ID x 9 Live x 12 tools
	B axis(option accessory)	360° free angle
	Tool holder	□20mm ○20mm
	Main Spindle Motor	Mitsubishi AC Servo 11kw
	Sub Spindle Motor	Mitsubishi AC Servo 3.7kw
	X1 / Z1 axis Servo motor	Mitsubishi AC Servo 1.5kw(B) / 1.5kw
Positioning	X2 / Y2 / Z2 axis Servo motor	Mitsubishi AC Servo 1.5kw / 1.5kw(B) / 1.5kw
	Chip conveyor motor	1 / 4 HP
	Hydraulic pump motor	2 HP
Coolant System	Positioning	0.001mm
	Coolant Motor Type	max.pressure : 5bar(4.6kg/cm ²) flow : 75L / min
Lubrication System	Hydraulic Motor Type	max.pressure : 25bar(55kg/cm ²) flow : 30L / min
	Coolant Tank Capacity	240L
Machine size	Tank capacity	2 L
	Pump pressure	15 kg / cm ²
	Length without / with chip conveyor	2818mm/3438 mm
	Machine Width / Height	2032mm/1952 mm
	Machine Weight	6100 kg