















CNC MACHINETOOLS MANUFACTURING

Total solution for engineering Integration

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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



■ Main Spindle Nose: A2-6

■ Chuck Size: KK6-185E60B

■ Max. Bar Working Dia.: 65mm

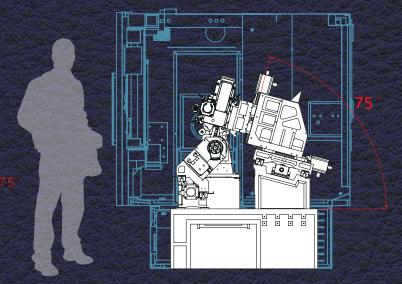
■ Max. RPM.: 3000rpm (4000rpm)

Turret

■ System1 : BMT-55 Power Turret

■ Tool Holder: □25mm/ ○25mm/ ○32mm

■ No of Tools: 12



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.

Gantry

■ System2 : Gantry

■ Tool Holder: □20mm/○20mm

■ No of Tools: ODx5 / IDx9 / LiveToolx12

■ B Axes (Option): 360°

■ Sub- Spindle Nose: A2-5

sub spindle

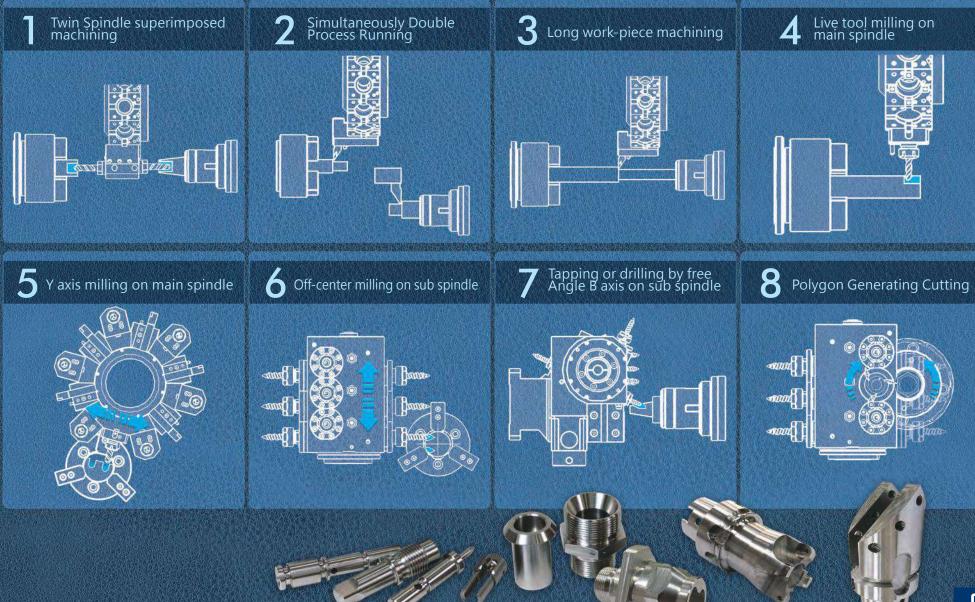
■ Chuck Size: KK5-173E42B

■ Max. Bar Working Dia.: 30mm

■ Max. RPM.: 4000rpm (6000rpm)

Machining applications

78 Hybrid-Y



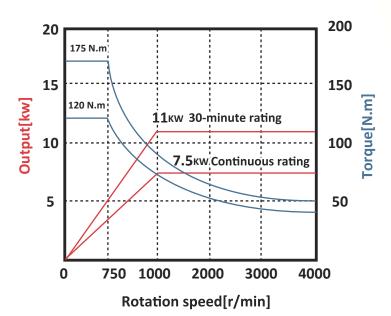
Flexible **GUO**system simultaneous

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.





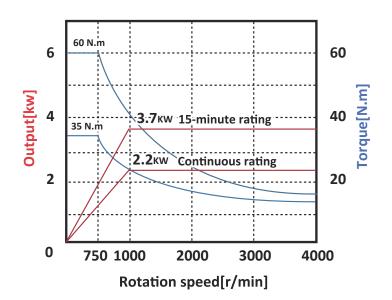




BMT-55 Power Turret

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.

12 live tools with 3.7 KW Motorized Tool 4000rpm

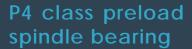


Command Position 0.001mm Index Time 0.2 sec









Preload bearings are offered for the maximum attachment tempered to relieve stress. effect



Robust FC35 Meehanite Casting

Harden over HRB 190 and



The modern slant-bed design

ensure easy chip disposal and heat elimination.



Heat Exchanger

Characterized by its compact design and high thermal efficiency.



Standard and high type depends on your production request

Fanuc controller



Mitsubishi controller

Bar Feeder

Short and Long Bar Feeder are available



Roller Guideway

The machine is equipped with high precision HIWIN 35mm Linear guideways. Increase the stability and accuracy, allows heavier cut to be achieved.



LED Extended display

Easy monitor status of the machine

Oil Skimmer

Designed for jobs that require high capacity oil removal



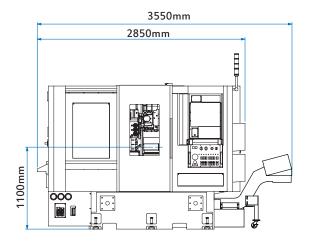
Mist Collector

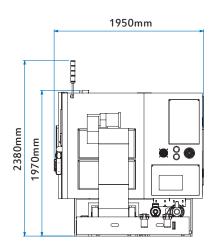
Highly efficient mist and smoke collectors

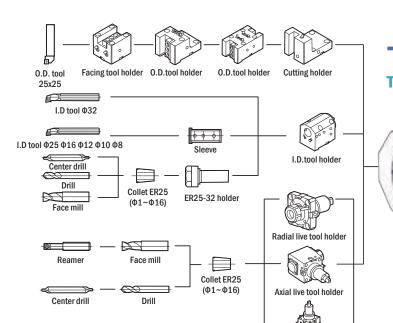
Gantry Tooling system

Reamer Face mill Collet ER20 (Φ1~Φ13) Center drill Drill ER20 holder Collet ER20 (Φ1~Φ13) Face mill I.D tool Φ20 Φ16 Φ12 Φ10 Φ8 Sleeve I.D tool Φ20

External view



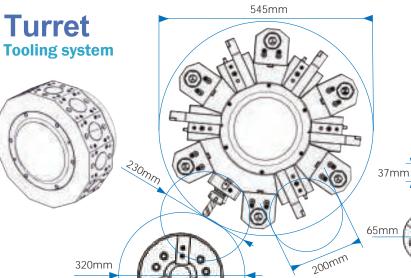




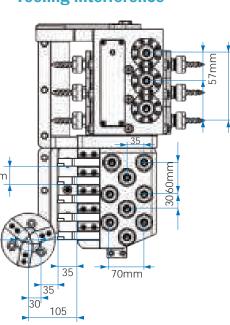
Dual-head axial live

tool holder

Turret Tooling interference



GantryTooling interference



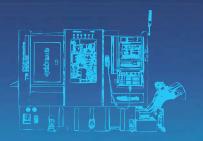
Specification.

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Mits	subishi Controller	M830S
Main Spindle Capacity	Swing over Bed	500mm
	Swing over cross slide	300mm
	Max. Turning Dia.	300mm
	Max. Bar Working Dia.	65mm
	Max. Turning Length	250mm
	Chuck Size	KK6-185E60B
	Main Spindle Nose	A2-6
	Main Spindle Bore	66mm
	Max. RPM.	3000rpm (4000rpm)
Sub- Spindle Capacity	Max. Turning Dia.	100mm
	Max. Bar Working Dia.	30mm
	Chuck Size	100mm
	Max. Turning Length	KK5-173E42B
	Sub- Spindle Nose	A2-5
	Sub- Spindle Bore	31mm
	Max. RPM.	4000rpm (6000rpm)
C Axis	Least Command Unit	0.001°
	Positioning Accuracy	0.02°
Tavel & Feed	Slant Bed Degree	75°
	X1/Z1 Axis Travel	150mm / 380mm
	Y1 Axis Travel	$80\text{mm} = \pm 40\text{mm}$
	X2/Y2/Z2 Axis Travel	470mm / 380mm / 280mm
Axes	Ball screw	φ32×P10
ANCO	Linear Guide Way	35mm

Axes	Y2 Axis Linear Guide Way	25mm
	Rapid Feed	30m/min
	Repetition Accuracy	0.005mm
ATC System	System 1	BMT-55 Power Turret
	No of Tools	12
	Tool Holder	□25mm/○25mm/○32mm
	System 2	Gantry
	No of Tools	OD*5/ID*9/LiveTool*12
	B Axis (option accessory)	360°
	Tool Holder	□ 20mm / ○ 20mm
Motor	Main Spindle	Servo Spindle 11kw
	Sub Spindle	Servo Spindle 3.7kw (5.5kw)
	X1/Y1/Z1 Axis	AC Servo 2.2 / 1.5 / 1.5kw
	X2/Y2/Z2 Axis	AC Servo 1.5 / 1.5 / 1.5kw
Hydraulic System	Pump Spec/Capacity	1HP/40L
	Hydraulic Pressure/ Flow	30 kg/cm ² / 12L/min
Lubrication	Pump Spce/Capacity	25W / 2L
	Max. Pressure	15 kg/cm ²
Coolant System	Pump Spec	TPH4T5K, 5Bar, 75 L/min
	High Pressure Pump Spec	SF-30C, 25Bar, 30L/min
	Coolant Tank Capacity	240L
Machine Size	Length without/with Chip Coveyor	2850mm/3550mm
	Machine Width/Height	1950mm/1970mm
	Machine Weight	6100 kg

() Option



— the art of turning.







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