



SMEC

NS 1600T2Y2

TWIN SPINDLE, MULTI TURRET
HORIZONTAL TURNING CENTER

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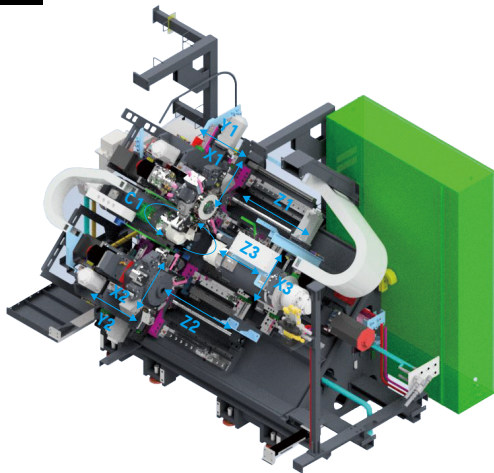
TWIN SPINDLE, MULTI TURRET
HORIZONTAL TURNING CENTER



Multi-axes lathe capable of complex machining with one setting

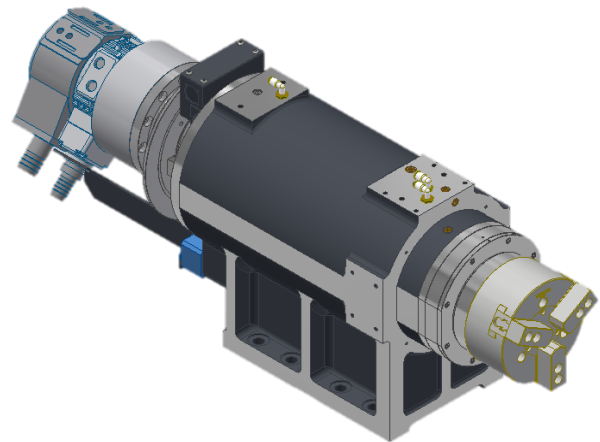
- Two spindles and two turrets operate independently for maximum productivity
- Capable of high intensity, multi-tasking machining
- Independent automation capability with implementation of the part unloader from the second spindle
- Slant bed offering easy access to the workpiece and improved chip discharge
- Roller LM-guides supporting high rigidity, high speed performance

Design



- A single machine with two separate spindles and turrets
- Complete automation with 2 spindles
- Independent operation of both spindles and two turrets
- Y-axis on both lower and upper turrets
- Increased productivity with simultaneous turret operation
- Capable of high intensity, multi-tasking machining

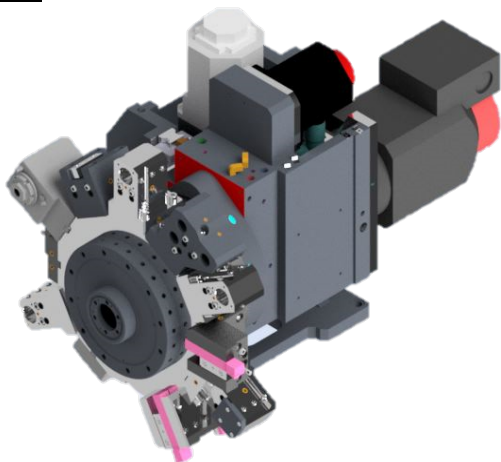
Spindle



- Built-in spindle ensures high-speed, high-precision machining in various environments

Spindle Speed	6,000rpm
Spindle Nose	A2-6
Index Position	24st
Chuck Size	6"

Turret



- Up/down milling and eccentric drilling around the center are possible, with upper and lower turrets capable of operating independently

Number of Tools	12+12 (BMT 55)
OD Tool Size	20 x 20
Index Position	24st
Rotary Tool Speed	10,000rpm

Options



Tool Presetter, Linear Scale

- Linear scale for each axis is available for high precision machining
- Tool Presetter option available

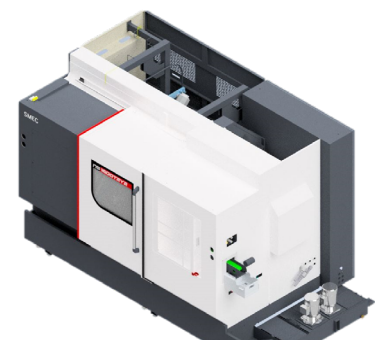
OP Panel

- OP Panel is flush with machine body for a more compact design
- OP Panel can be rotated 90 degrees



Parts Unload + Conveyor

- For complete automation parts unload + conveyor option available



Machine Specifications

[] : Optional

DESCRIPTION			NS 1600T2Y2
Capacity	Swing Over Bed	mm(inch)	230(9.06)
	Max. Turning Diameter	mm(inch)	230(9.06)
	Max. Machining Length	mm(inch)	467(18.39)
	Distance Between Spindles (max./min.)	mm(inch)	830(32.68)
	Distance Between Spindles Nose and Tailstock Center	mm(inch)	645(25.40)
	Bar Working Diameter(L/R)	mm(inch)	51(2.01)/51(2.01)
	Chuck Size(L/R)	inch	6/6[8/8]
Travels	X1/X2	mm(inch)	165(6.50)/165(6.50)
	Z1/Z2	mm(inch)	530(20.87)/530(20.87)
	X3(Sub Spindle)	mm(inch)	120(4.73)
	Y1/Y1	mm(inch)	80(±40)(3.15(±1.58))
	Z3	mm(inch)	530(20.87)
Rapid Traverse	X1/X2	m/min(ipm)	24(944.89)
	Z1/Z2	m/min(ipm)	30(1,181.11)
	X3(Sub Spindle)	m/min(ipm)	15(590.56)
	Y1/Y1	m/min(ipm)	15(590.56)
	Z3	m/min(ipm)	30(1,181.11)
L/R Spindle	Spindle Speed(L/R)	rpm	6,000/6,000
	Spindle Nose(L/R)	ASA	A2-6/A2-6
	Spindle Bearing Diameter (L/R)	mm(inch)	110(4.34)/110(4.34)
	L Max. Spindle Torque	Nm(lbs.ft)	326(240.45)/159(117.28)
	R Max. Spindle Torque	Nm(lbs.ft)	326(240.45)/159(117.28)
	L Spindle Motor Power (30min/cont.)	kW(HP)	37(49.62)/22(29.51)
	R Spindle Motor Power (30min/cont.)	kW(HP)	37(49.62)/22(29.51)
	C1 axis Minimum Indexing Increment	deg.	0.001
	C2 axis Minimum Indexing Increment	deg.	0.001
	Spindle Center Height	mm(inch)	1,250(49.22)
Turret	Number of Tools	EA	12+12
	Number of Index Positions	EA	24+24[BMT55]
	OD Tool Size	mm(inch)	20(0.79)X20(0.79)
	Max. Boring Bar Size	mm(inch)	32(1.26)
	Index Time	sec	0.12
	Max. Rotary Tool Speed	rpm	10,000
	Max. Rotary Tool Motor Power (max/cont)	kW(HP)	7.5(10.06)/3.7(4.97)
	Max. Rotary Tool Torque	Nm(lbs.ft)	47.7(35.19)



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