

**SMEC**

# **NS 1600T2Y2**

TWIN SPINDLE, MULTI TURRET  
HORIZONTAL TURNING CENTER

# NS 1600T2Y2

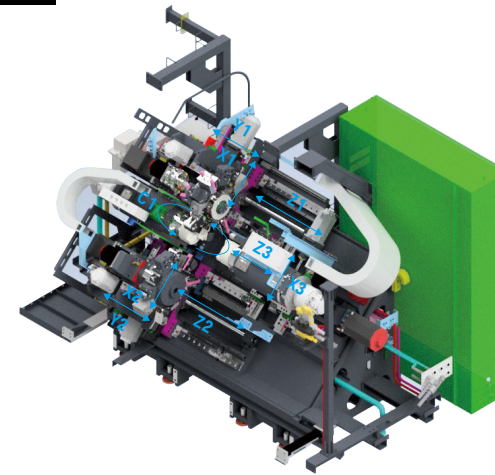
TWIN SPINDLE, MULTI TURRET  
HORIZONTAL TURNING CENTER



## Multi-axes lathe capable of complex machining with one setting

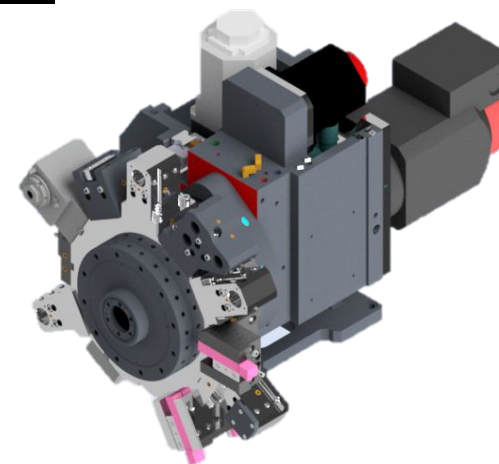
- Two spindles and two turrets operate independently for maximum productivity
- Capable of high intensity, multi-tasking machining
- Independent automation capability with implementation of the part unloader from the second spindle
- Slant bed offering easy access to the workpiece and improved chip discharge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

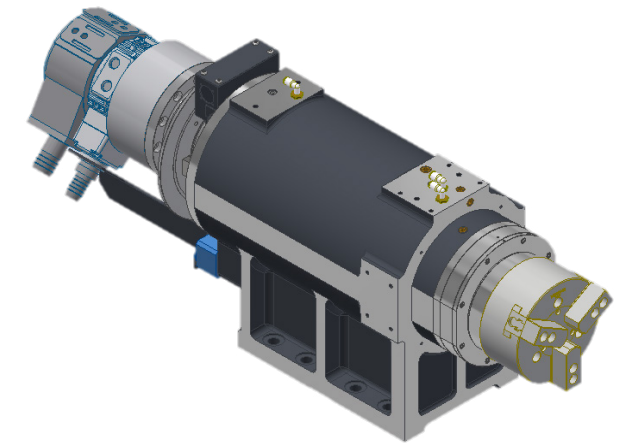
### Turret



- 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

### 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"

### Options

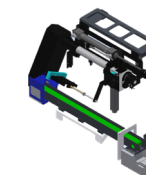
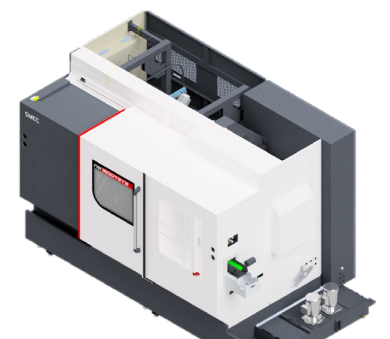


#### Tool Presetter, Linear Scale

- 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)



## SMEC Co., Ltd.

157-10, Goldenroot-ro, Juchon-myeon, Gimhae-si,  
Gyeongsangnam-do, Republic of Korea  
Tel +82 55 340 4800 / Fax +82 55 340 4740

[www.smecmachinetools.com](http://www.smecmachinetools.com)