

SMEC

STX 2600

Advanced Multi-Function Horizontal
Turning Center

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Unlimited potential all in one setup

- Two spindles, a B-axis and lower turret allows for smooth part production.
- A design that combines strength and precision provides uncompromised machining quality even over long cycle times.
- The extended Y-axis stroke accommodates complex parts with ease and the simultaneous upper and lower machining capability cuts down cycle time and significantly increases productivity.

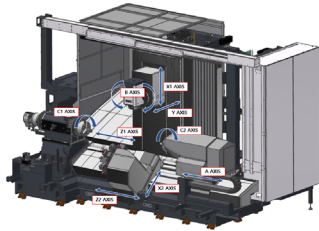
Precision control for near perfect machining

- The precise movements of the ultra precision B and C-axes is critical for the production of complex parts.
- High-rigidity, high-precision roller LM guides ensure stable traverse while the oil cooling system minimizes thermal growth of the spindles and feed axes, ensuring consistent quality even during long cycle times.

Operator-centric design, bringing convenience to your fingertips

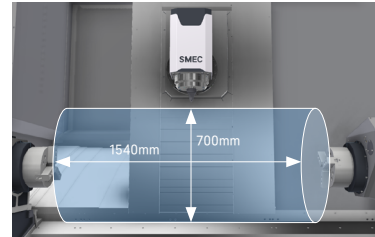
- The front-mounted tool magazine allows for quick, intuitive tool changes .
- Being able to adjust the height, swivel and location of the OP panel makes it match to the operator's needs.
- Experience even more convenience with the dedicated ATC-magazine control panel.

Extended axis travel and faster rapids delivery superior productivity



- The innovative technology in the design ensures X, Y and Z axes movement to be completely linear and orthogonal, maximizing machining accuracy.
- The high-rigidity bed and precision guideway system come together to provide both repeatability and durability.
- The advanced control system and thermal growth compensation provides stable machining quality even during long operations and fast completion of complex machining processes.
- The precise design and optimized machining solution simultaneously achieves high-efficiency production and ultra-precision machining.

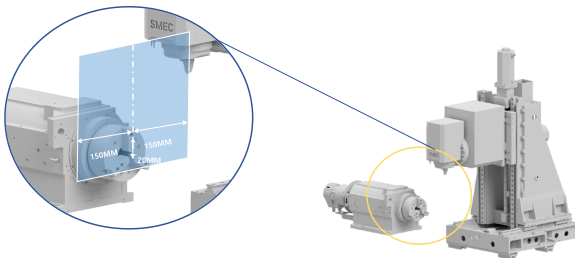
Increased machining range to create new possibilities



- The increased max machining range allows for machining various large and long workpieces, offering exceptional flexibility when machining large, complex parts
- The operator-centric design creates a convenient and efficient environment, significantly enhancing operator productivity
- Complex machining processes can be completed through stable and precise operations, providing an optimized solution for the production of high-value-added parts.

Max. turning dia. : **700** mm Max. turning length : **1540** mm

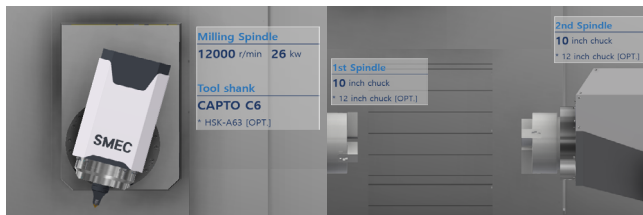
Orthogonal design maximizes X and Y-axis Work Range



- The precise orthogonal design maximizes the X- and Y-axes work ranges, allowing the machining of various custom parts.
- The increased work range easily accommodates both large and complex workpieces. While the machining programming and setup process are designed to be more efficient and simple. This is the optimal solution for both increased productivity and operator convenience.

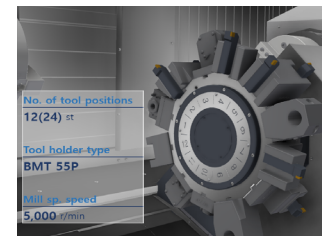
X-axis work range : **790** mm Y-axis work range : **300** mm

Three spindles, for machining beyond your expectations



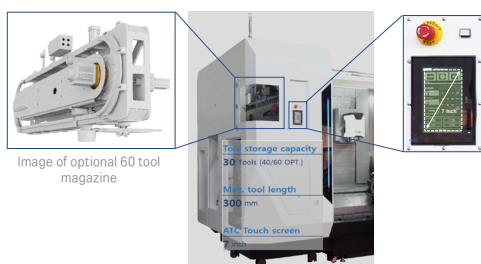
- Three independently optimized spindles delivering uncompromising precision even in complex and diverse operating conditions.
- Innovative design simultaneously maximizes machining speed and quality to supply next-level productivity.

Lower turret design combining both precision and versatility.



- The lower turret offers outstanding flexibility and rapid indexing in complex machining conditions to complete various machining operations in an efficient manner.
- The combinations of the robust design and precise control system ensure consistent machining performance and optimal machining quality.
- In addition, the high speed tool change and the various available tooling configurations significantly increase productivity.

Intuitive graphic touch panel to control the smart ATC and tool magazine



- The graphic touch display allows operators to check the status of the ATC and magazine at a glance.
- Operators can easily use the touchscreen to individually operate the ATC, magazine and tool pots, significantly improving efficiency and convenience.

Machine Specifications

[]: Optional

DESCRIPTION			STX 2600
Capacity	Swing over bed		mm 700
	Recommended turning diameter		mm $\phi 255$
	Maximum turning diameter		mm $\phi 700$ [Lower turret : $\phi 410$]
	Maximum turning length		mm 1540
	Chuck size	1st Spindle	inch 10
		2nd Spindle	inch 10
Bar working diameter		mm $\phi 81$	
Travels	Stroke	X1/Y/Z1 axis	mm 790[-20/+770] /300[± 150]/1590
		A axis	mm 1540
		B axis	deg 240[± 120]
		C1/C2 axis	deg 360/360
		X2/Z2 axis	mm 235/1540
	Rapid traverse rate	X1/Y/Z1 axis	m/min 48/36/48
		A axis	m/min 30
		B axis	rpm 40
		C1/C2 axis	rpm 200/200
		X2/Z2 axis	m/min 24/36
Milling spindle	Spindle speed		rpm 12,000
	Spindle motor (cont/max)		kW 15/26
	Min. spindle indexing angle (B-axis)		deg 0.0001
	1st Spindle		
1st Spindle	Spindle speed		rpm 4,000
	Spindle motor (cont/max)		kW 22/30
	Spindle nose		ASA A2-8
	Spindle bearing inner diameter (Front)		mm 130
	Spindle bore		mm 91
	Min. spindle indexing angle (C1-axis)		deg 0.0001

DESCRIPTION			STX 2600
2nd Spindle	Spindle speed		rpm 4,000
	Spindle motor (cont/max)		kW 22/30
	Spindle nose		ASA A2-8
	Spindle bearing inner diameter (Front)		mm 130
	SSpindle bore		mm 91
	Min. spindle indexing angle (C2-axis)		deg 0.001
Lower Turret	No of tool positions		ea 12
	OD tool size		mm 25
	Boring bar diameter		mm 40
	Indexing time		sec 0.2
	Rotary tool spindle speed		rpm 5,000
Automatic Tool Change	Tool storage capacity		ea 30[40/60 Opt.]
	Tool shank		- CAPTO C6
	Tool diameter [with adj. tools]		mm 75
	Tool diameter [without adj. tools]		mm 125
	Tool length		mm 300
	Tool weight		kg 8
	Tool moment		N-M 9.8
	T-T time	X1/Y/Z1 axis	sec 1.8
		A axis	sec 8
Machine design	Size LxWxH		mm 5,420x2,872x3,185 (With coolnat tank)
	Weight		kg 18,000
	Coolant tank capacity		Liter 700
Electric power supply			kVA/V 83/220
Controller			FANUC 31i-B PLUS



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