

SAMSUNG Machine Tools PL 1600M **SIEMENS**

CNC Turning Center

SAMSUNG'S Advanced Engineering and Machine Design

- Cast iron structure for **superior dampening** characteristics and thermal displacement
- Rigid 45 degree slant bed design for **heavy-duty machining**
- Torque tube design to **minimize bending and twisting**
- Hybrid slide way **for long-term rigidity** and heavy-duty machining



Description		PL 1600	PL 1600M	PL 1600C	PL 1600CM
Max. machining length	mm	307	291	270.5	261.6
X/Z axis travel	mm	165/350			
X/Z rapid traverse rate	m/min	24/30			
Chuck size	inch	6		8	
Spindle Speed	rpm	60 ~ 6,000		4,500	
Motor(30min/cont.)	kW	11/7.5		15/11	

■ Highly Reliable and Rigid Structural Design

- One piece Meehanite casting with heavily ribbed torque tube design
- Rigid bed supports for powerful cutting
- Excellent vibration dampening and thermal displacement design

■ NC Unit Specifications / SIEMENS

Item		PL 1600M (828D BASE PPU24x)
Configuration	Mechanical design	Panel-based
	Controlled axis / Spindle up to	5
	CNC user memory, up to	1 MB
	Additional CNC user memory on CF card/USB stick	•
	Display size (TFT color displays)	8.4"
	Integrated QWERTY keyboard	•
	Drivers	SINAMICS S120 Cmbi
	PLC adaptation control	S7-200-based
Axis functions	Travel to fixed stop	•
	Feedrate override	0%~200%
	Measuring systems 1 and 2, selectable	•
	Acceleration with jerk limitation	•
Spindle functions	Spindle override	0%~200%
	Oriented spindle stop	•
	Spindle speed limitation min./max.	•
	Thread run-in and run-out, programmable	•
	Constant cutting rate	•
	Thread cutting with constant or variable pitch	•
	Tapping with compensating chuck/rigid tapping	•
Interpolation	Interpolating axes, up to	4
	Straight line, circle, helix	•
	Universal interpolator NURBS	•
Compensations	Temperature compensation	•
	Backlash compensation	•
	Feedforward control, acceleration-dependent	•
Tools/tool management	Number of tools/cutting edges in the tool list, up to	80
	Tool life monitoring	•
CNC operation, CNC programming	Number of levels for skip blocks	2
	Animated Elements	•
	SINUMERIK CNC programming language with high level language elements	•
	Online ISO dialect interpreter	•
	programGUIDE (technology cycle support)	•
	Technology cycles for drilling, milling and turning	•
	ShopMill/ShopTurn machining step programming	○
Safety functions	3D CNC simulation for turning/milling	○
	SINUMERIK Safety Integrated (drive-based)	•
etc.	TRANSMIT/TRACYL without Y axis	•
	Advanced technology functions (expansion of the technology cycles for milling and turning)	•



User friendly centralized control panel

- ① 8.4inch Color Display
- ② QWERTY Key Board
- ③ CNC Memory on DC Card/USB
- ④ User Spare Key Button

SMEC
SAMSUNG MACHINE TOOLS



www.esmec.com

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