NC Specification / FANUC 0i-TF

	ltem	Description
	Controlled axes	2-axis(X,Z)
Controlled axes	Max. simultaneously controlled axes	위치(G00) / 직선 보간(G01) 원호 보간(G02, G03)
	Least input increment	0.001mm
	Spindle speed control	S5 (5자릿수)
Spindle function	Spindle speed override	50~120%
	Spindle orientation	M19
	Feedrate override (10% increase)	0~200%
	Dwell	G04
- IC ::	Reference position return	G27, G28
Feed function	Manual pulse generator	0.001/0.01/0.1mm
	Dry run	F0(Fine Feed), 25/50/100%
	Rapid traverse override	F0(Fine Feed), 25/50/100%
	Tool number command	T2(2자릿수)
T 16 "	Tool nose radius compensation	G40 ~ G42
Tool function	Tool offset pairs	128EA
	Tool geometry / wear offset	GEOMETRY & WEAR DATA
	Canned cycle	G70~G72, G74~G76
	Decimal point input	Able to input up to decimal point
Programming function	SUB program	4 phase
Tariction	Work coordindate system	G52~G59
	Max program dimension	±99999.999mm
	M function	M3 (3 digit)
	Input code	ISO/EIA auto recognition
Tape Functions	I/O interface	RS232C
	Program storage space	1280M(512kb)
	Number of stored programs	4007#
	Display unit / MDI	8.4" color LCD / Soft input type MDI
	Display unit / MDI	10.4" color LCD / Soft input type MDI
	Synchronized tapping	Rigid tapping function
	Background editing	Program saving / editing during automatic operation
	Backlash compensation	Pitch error offset compensation for each axis
Oth ft	Search function	Sequence / program number search
Other features	Safety function	Emergency stop / overtravel
	Program test function	Machine Lock / Single Block
	Control function	Memory / MDI / Manual
	Mirror image	
	Run hour and parts count display	
	Custom macro	#100 ~ #199, #500 ~ #999



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Design and specifications subject to change without notice.

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SMEC PL 25DC

CNC LATHE TURNING CENTER









High Accuracy, High Rigidity Spindle

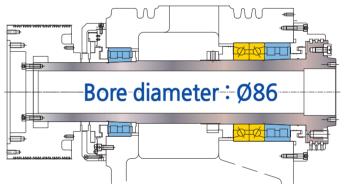
Head assembly with radiator fins to minimize thermal expansion

The radiator fin structure of head assembly minimizes thermal expansion of the spindle, preventing loss of precision due to increasing temperature. Also, thermal expansion is minimized with the symmetric design.



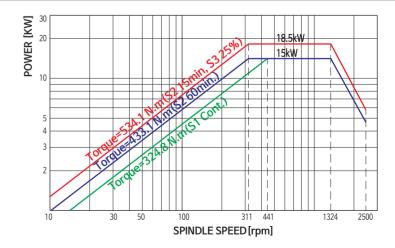
SPINDLE & HEADSTOCK

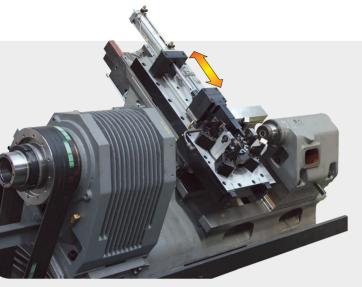
The spindle and headstock are machined and polished in controlled temperature conditions and assembled in clean room environments.



A Double Row of High Precision Cylindrical Roller Bearings and Angular Ball Bearings are positioned in front and a Double Row of High Precision Cylindrical Roller Bearings are position in the rear to ensure high precision and high speed turning.

Spindle Power & Torque Diagram









Tool removal apparatus

Cutter

Work clamping apparatus

Dedicated arbor(R) for spherical/flat cutting

Dedicated arbor(L) for spherical/flat cutting



Tailstock

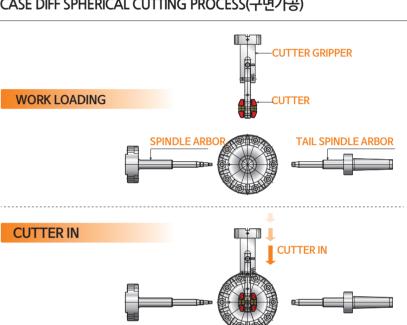
The tailstock that maintains superb high precision during heavy duty cutting can be manually traversed using the MPG handle. Also, when the programmable tailstock option is mounted, the tailstock and quill may be operated back and forth automatically using M-codes.

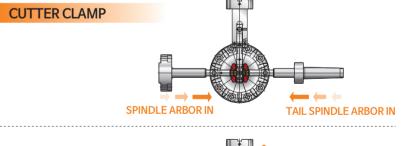


All axes are driven using large diameter ballscrews are pretensioned and heat-treated and are supported on both ends using P4 class high precision angular bearings.



CASE DIFF SPHERICAL CUTTING PROCESS(구면가공)







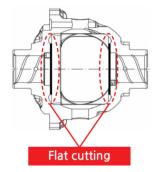


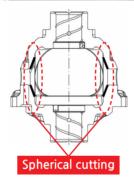
SMEC Smart One, Global One

High Precision

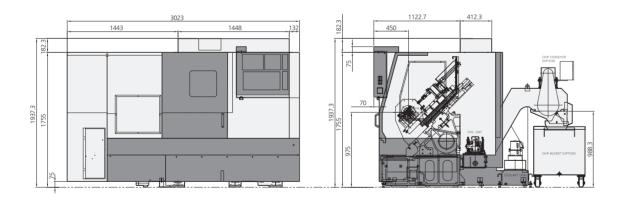








Machine Dimensions



Accessories









Specifications

	ltem		PL 25DC	
Capacity -	Swing over bed	mm	520	
Capacity	Swing over cross slide	mm	350	
Spindle -	Spindle speed	rpm	2,500	
	Spindle nose	ASA	A2-8	
	Bore diameter	mm	86	
	Max. Torque	N,m	534.1	
Travel -	X/Z axis travel	mm	-/290	
	X/Z rapid traverse rate	m/min	-/30	
Motor -	Main Motor (Max / Cont)	kW	18.5/15	
	X / Z Axis	kW	-/3.0	
Tailstock -	Tailstock travel	mm	160(200)	
	Tailstock quill travel	mm	100	
	Tailstock Taper	MT	MT4 (Built-In)	
	Tailstock quill diameter	mm	110	
Electric power supply kVA/V		kVA/V	30 / 220	
Req. floor space(L×W×H) mm		mm	3,023 × 2,068 × 1,937	
Machine weight kg		kg	5,000	
Controller			Fanuc Oi-TF	

^{*}Specifications subject to change without prior notification.

Standard Accessories

- Work	liaht	(Led lamp))

- Splash guard with side coolant tank - HYD Jig apparatus

- Tool/Work box

- Leveling unit

- Main spindle orientation

- Safety precaution name plate

- Manual/Part list

- Large coolant unit - 2-step HYD tailstock

- Door interlock

or flat cutting

- Tool removal apparatus

Optional Accessories

- Side chip conveyor

- Rear chip conveyor with

coolant tank

- Dedicated cutter & arbor for spherical - Chip bucket

- Auto door

- Air gun - Air blower - Oil skimmer

- Oil mist collector

- Coolant gun

- Coolant chiller

- Signal tower

(Yellow, Red, Green, Buzzer)