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Twin Spindle 4 Axis CNC Lathe

TTC 8



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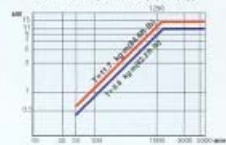
Twin Spindle 4-axis CNC Lathe



Spindle Power-Torque Diagram

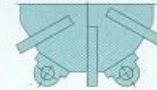
Spindle output power

AC 11/15 kW (23/33hp) (15/20hp)



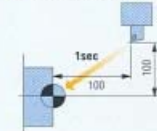
Excellent Productivity

Tool to tool



0.35sec

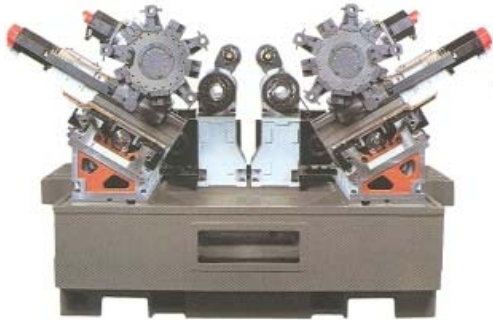
Chip to chip (sec)



MAIN FEATUERS

- Realization of simultaneous process with rough and finish cutting
- Reduction of lead time with high rapid traverse
(Rapid : 30m/min (1,181ipm) X/Z-axis)
- Adopting high-rigid slideways with a slope of 30 degrees
- Easy operation and stability
- Ensuring excellent productivity
 - Index type : 0.15sec
 - Chip to chip : 1.0sec
- High rigidity frame structure

High Rigid Frame



- One-piece fabricated frame with high rigidity keeps high-accuracy stable under long processing time and excellent vibration absorption force under heavy-duty cutting

Easy Operation & Stability



- An operator can conveniently access to the chuck without any obstacles through the door designed independently opening and closing and see working condition through the safety-glass.

High-Accuracy Slideway



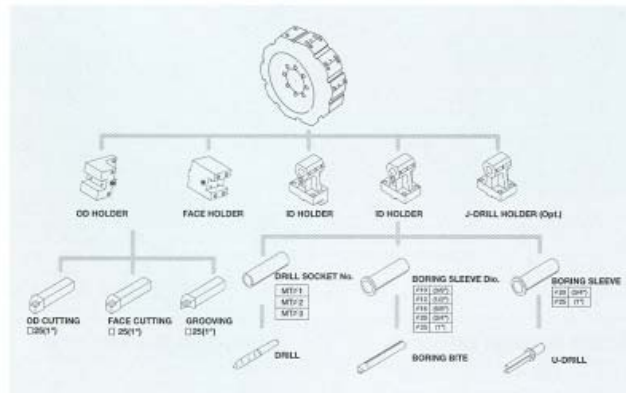
- Box type slideway structure with a slope of 30 degrees offers high rigidity, smooth movement and high-accuracy
- Servo turret with high speed, high accuracy and high reliance
- High performance AC Servo motor and high accuracy 3PCS coupling ensure division accuracy as well as excellent performance under heavy duty cutting

Improved Chip Disposal



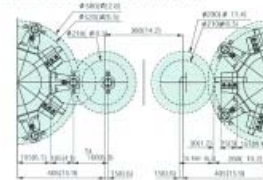
- The coolant tank is totally separated from a chip conveyor and the main body
- The wide chip pocket permits the operator convenient separation and cleaning, and keeps high productivity by reducing lead time as a result

Tooling System



Tool interference diagram

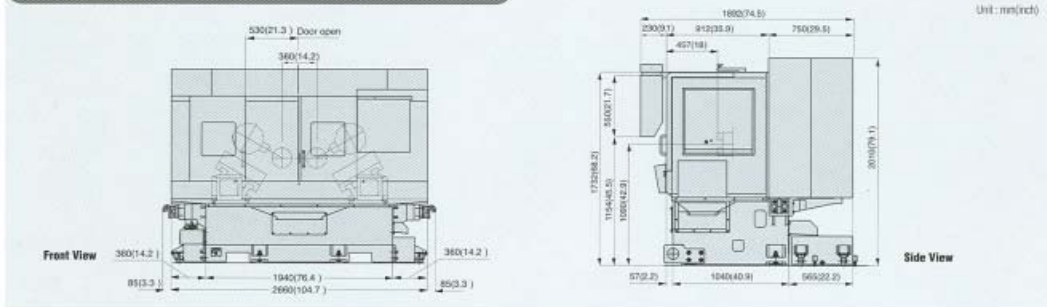
Unit : mm (inch)



Moving range



Dimension



Machine Specifications

Capacity	Swing over bed	mm(inch)	Ø400(15.7)
	Max. turning dia.	mm(inch)	Ø290(Ø11.4)
	Std. turning dia.	mm(inch)	Ø210(Ø8.7)
	Max. turning length	mm(inch)	2000(79)
Chuck size	Chuck size	inch	8
	Spindle speed	min-1	5,000
Spindle	Spindle nose		ASA A2-6
	Through spindle hole	mm(inch)	Ø60(Ø2.4)
	Std. bar dia.	mm(inch)	Ø51(Ø2)
	No. of tools	EA	10+10
Feedrates	Tool size	mm(inch)	□25X Ø30 □11X Ø1.3
	Rapid X	m/min(ftm)	30(1.18)
	Z	m/min(ftm)	30(1.18)
	Traverse X	m/min(inch)	160(6.3)
Motors	Z	m/min(inch)	200(7.9)
	Spindle	kW(HP)	AC15/11(20/15)
	Servo X	kW(HP)	AC1/6(2.0)
	Z	kW(HP)	AC3.0(4.0)
Power source	Coolant/pump	kW(HP)	AC0.4(0.5)(2EA)
	Electrical power supply	kVA	55
Tank capacity	Coolant	l (gal.)	230(60.5)
	Hydraulic	l (gal.)	105(28)
Machine size	Height	mm(inch)	2,010(79.1)
	Floor space(L*W)	mm(inch)	2,630(1,900)1,120(2,074.6)
	Weight	kg(lb)	6,000(13,200)
NC			FANUC TB-19-2 Profix

NC Specifications//FANUC18i-TB

(S: Standard, O: Option)

Item	Spec.		
Control axis	Control axis	2-axis	S
	Controllable axis expansion	4-axis (MC, SMC, S-Type spec)	0
	Simultaneous control axis/expansion	2-axis/4-axis	S/O
Input operation	Least input increment	0.001mm/0.001"	S
	Axis name	X,Z/U,W	S
	Decimal point input	Available	S
Interpolation	Inter/Metric conversion	G20/G21	S
	Positioning linear/Control dwell	G03/G04/G01/G03/G04	S
	Feed per revolution per revolution	G98/G99	S
	Minimum increment of MPG	0.0016 (0.10) 1mm/0.0001" (0.01) 0.01"	S
Feed	Rapid traverse override	FRZ/F50/F100	S
	Jog override/Feed rate override	0-120%/0-150%	S
	Program storage/Registered program	640K/240K/200EA	S
Program storage/edit	Program editing	Delete, Insertion, Alteration	S
	Program sequence number search	0/N number search	S
	Absolute/incremental programming	Combined use in the same block	S
Coordinate system	Return to original point check	G27	S
	Automatic zero-turn	G28	S
	Coordinate system setting	G50	S
	Tool offset memory	32pair	S
Operation support function	Tool geometric & wear offset		S
	Tool nose radius compensation		S
	External macroless function	Machine lock, Single block, Dry run, Auxiliary function switch	Machine lock, Single block, Dry run, Optional stop, Auto restart, Block skip
Data input/output	Input/Output interface	RS232C	S
	Memory Card interface		S
Embedded Ethernet	Embedded Ethernet interface		S
	S/T/M Function	Spindle(S) function Constant surface speed control Tool(T) function Micro/Reverse(M) function	Command is S followed by 4 digits G96/G97 Command is T followed by 2 digits Command is M followed by 3 digits
Program support function	Single canned cycle	G90, G92, G94	S
	Multiple repetitive cycles	G70-G76	S
	Custom macro #		S
	Programmatic data input	G10	S
	Direct drawing dimension programming		S
	Chambering/Groove R		S
Display	Run hour display		S
	Thread cutting cycle reset	Thread cutting is temporarily stopped when starting is executed and tool returns to starting point	S
	LCD Display/Graphic display	31.4" color LCD	S
	Multi-language display	English/Korean/German/French/Spanish/Portuguese	S
Safety/Maintenance	Speed stroke limit	Soft OT	S
	1st spindle orientation		S
	Background editing/Alarm history display		S
OPTION	Clock/Help/Set diagnosis function		S
	Part Program storage length	1280W (99K), 2560M (60K)	0
	Number of registrable program	400, 1000 EA	0
	Tool offset memory	64, 99, 400, 999 pair	0
	Multiple repetitive cycles -II		0
	Workpiece coordinate system	G54-G59	0
Conversational automatic program	Symbol CAPT	0	
Right tapping/Tool life management		0	

Standard Accessories **Optional Accessories**

- HWACHEON standard turret
- Hydraulic unit
- Coolant system
- Hydraulic chuck 8"(bellow)
- Soft jaw
- Work light
- Foot switch
- Leveling screw & set plate
- Tool kit
- Face and ID & OD tool holder
- Boring bar sleeve
- Drill socket
- Bar feeder interface
- Door interlock
- Transformer(55KVA)
- Hard jaw
- Chip conveyor & Box
- Air blower
- Tool counter
- Work counter
- Coolant gun
- Auto door
- Hydraulic heater
- U-Drill holder
- U-Drill sleeve
- U-Drill socket

* Specifications are subject to change without notice. Not responsible for misprints or typographical errors.

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