

# EFFICIENT MEDIUM AND LARGE HORIZONTAL TURNING CENTER

# TCK 700



DONGS SOLUTIONS

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**TCK700** machines are large horizontal turning centers ideal for machining pipes, valvesand flanges used in oil and gas industry, hydraulic parts used in construction equipment, and also complex parts used in the aircraft and ship building, industries. Maximum turning, diameters and lengths are Ø680mm and 5000mm respectively, which are the highest in their class. The slant bed design allows easy chip disposal.

# **Product Advantages**







## SINGLE SETUP FOR MACHINING LARGE COMPLEX PARTS

 Maximum productivity can be achieved with the machines' 200mm (7.9inch) (±100mm(3.9inch)) orthogonal Y-axis structure, which allows users to machine a wide rang

# THE LARGEST MACHINING AREA AND TOP PERFORMANC INITS CLASS

 With 5m maximum turning length, Ø680mm maximum turning diameter and 2176N·m of Torque, the machines are ideal for the heavy-duty cutting of large parts

# THE SOLUTION FOR MACHINING A WIDE RANGE OF PIPES

- Ø220mm maximum spindle through hole diameter makes the machines ideal for turning large diameter pipes.
- The machines take the machining of high-accuracy and perfomance-critical threads in their stride

# **BASIC STRUCTURE**

Machine capabilities range from 2-axis to Y-axis, The 45° inclined bed structure, cast in one piece Various options available

# **MACHINING AREA**

The largest work envelope in their class with a maximum turning diameter of φ680mm and maximum turning length of 5m.



Centre distance	1100	1600	2100	3100	4100	5100	
Chuck Size (inch)		1	5/18/21/24				
X-axis travel (mm)		350					
Y-axis travel (mm)		150 (±75)					
Z-axis travel (mm)	1000	1500	2000	3000	4000	5000	

<sup>\*</sup>Chucks and rotary cylinders are optional.

# Spindle

The gearbox design allows the TCK700/TCK800 spindles to have unparalleled power and torque, which boosts productivity and delivers extreme heavy-duty cutting capability.

Max. spindle speed

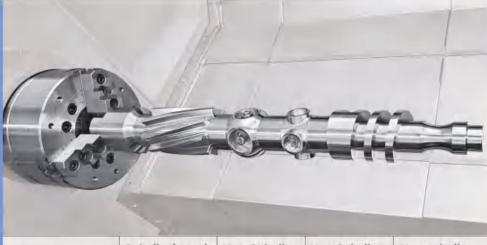
1200-3000 r/min

Max. spindle power

30 kw

Max. spindle torque

2176 N.M



Spindle front taper	Spindle through hole (mm)	Max. Spindle speed (r/min)	Max. Spindle power (KW)	Max. spindle torque (N.M)		
A2-8	φ88	3000	22	708 {1888}		
A2-11	φ 105	2000	22	700110001		
A2-11	φ132	1800	30			
A2-15	φ 181	1600	30	816 {2176}		
A2-15	φ 220	1200	30			

Max. turning diameter

Ф680 mm

Max. turning length

5000 mm

Machines are available with various spindle-through-hole sizes to provide the optimum machining solutions for different sized pipes.

Max. spindle through hole diameter

φ220 mm

Spindle front taper	Max. through hole diameter	Bar through diameter
A2-8	φ88	φ75
A2-11	φ 105	φ90
A2-11	φ132	φ120
A2-15	φ 181	φ166
A2-15	φ 220	φ 220



# **TAILSTOCK**

The standard programmable tailstock is easy to position and adjust thereby helping to reduce set up times.

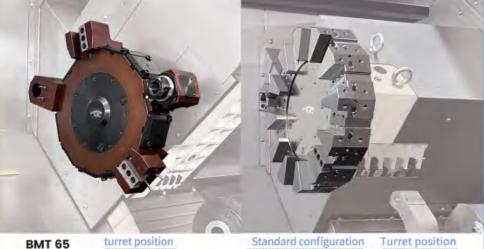


The tailstock body driven by the hydraulic motor through the gear rack. The tailstock sleeve is pushed by the hydraulic cylinder. The tailstock body is automatically locked by the hydraulic cylinder. All actions are controlled by M Code.

			Unit: mm
Model	Tailstock sleeve	Travel of sleeve	Tail stock travel
TCK700-1000	150		1100
TCK700-1500	150		1600
TCK700-2000		180	2100
TCK700-3000	160		3100
TCK700-5000			5100

# **TURRET**

The turret disk is driven by a highly efficient servo motor and hydraulically locked by the end gear disk, which is suitable for heavy-duty cutting, effectively shortening the non-cutting time and improving the machining efficiency.



# VDITURRET Optional The VDI powered turret, with

The VDI powered turret, with a single locking wedge that holds the holder in the turret, allows for quicker alignment and mounting of holders and tools.



# Y-AXIS /SUB SPINDLE

High-power motor inside spindle

Y-axis Travel **±75 mm** 

Power Turret Motor 5.5 kw



Y-axis - BMT65 /75 Power turret Optional

Through hole of Sub spindle
66 mm

Outer diameter of main spindle **200 mm** 

Precision of main spindle ≤ 0.003 mm

Rated rotational speed 2320 rpm

Maximum rotating speed **4300 rpm** 

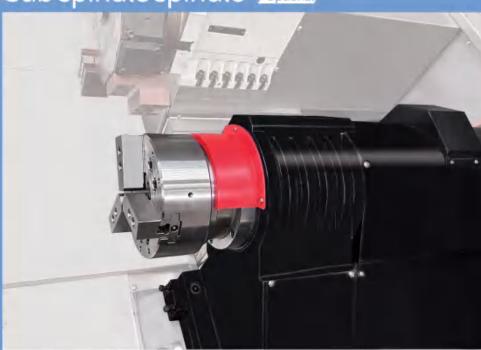
Rated power 22.15 kw

Rated torque

91.1 Nm

Max. torque

# Sub spindle spindle Optional



# **CUTTING PERFORMANCE**

TCK700 machines can perform high-productivity, heavy-duty machining operations such as ID/OD turning, end milling, tapping and U-drilling etc.

#### O.D turning(Material diameter \$\phi220mm) Speed 400rpm 0.35mm/rev Feed Depth of cut 10mm 150cm3/min Chip Removal rate



Tapping	
Cutting Tool	20mm
Feed	2.5mm/rev
Depth of cut	30mm



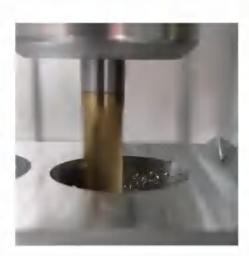
End mill ((Low S	Speed)	E
Cutting Tool	ф32mm	Cı
Cutting line speed	30m/min	Cı
Feed	90mm/min	Fe
Chip Removal rate	105cm³/min	CI



End mill (High S	Speed)
Cutting Tool	ф25mm
Cutting line speed	220m/min
Feed	1000mm/min
Chip Removal rate	175cm³/min



U-Drill	
Cutting Tool	ф30mm
Cutting line speed	2000m/min
Feed	0.15mm/rev
Chip Removal rate	150cm <sup>3</sup> /min



Milling	
Cutting Tool	ф25mm
Cutting line speed	240m/min
Feed	800mm/min
Chip Removal rate	100cm³/min

# **STABLE THREADING PERFORMANCE**

All TCK700 series (2-Axis\* to Y-Axis) are capable of threading work.

\* In order to re-machine threads or perform arbitrary speed threading on a 2-Axis machine, additional optional devices have to be selected.

## Threading repair function

This function allows users to repair threads even when the original program is not available. This is a standard Fanuc NC function.

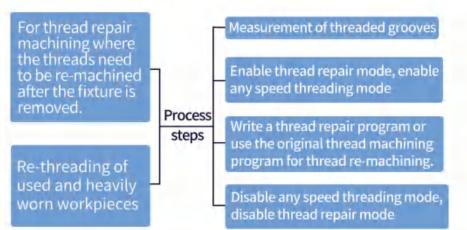
## Arbitrary speed threading

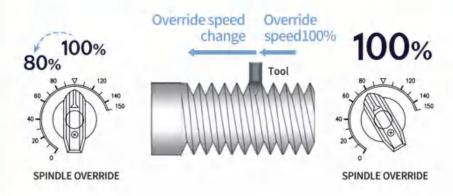
This function allows users to control and override spindle speeds in order to set them to produce/replicate the best thread quality.

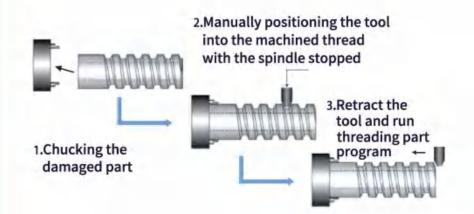
## **Re-machining function**

This function is included in the arbitrary speed threading. It allows users to re-machine damaged threads using the existing program.

## Thread cutting and re-machining







# **STANDARD & OPTIONAL SPECIFICATIONS**

Diverse optional features are available for customer-specific work applications.

Description	Feature	S	TCK700	series	TCK800series			
Spindle taper			A2	-11	A2-11 A2-15			-15
Through hole o	f main spir	ndle	105	132	105 132 181		220	
	15inch		•	•	•	•	Х	Х
Jaw Chucking option Steady rest Tailstock Coolant pump	18inch		0	0	0	0	Х	Х
CHUCK	21inch		Х	0	Х	0	•	Х
	24inch		X	0	Х	0	0	
law	15inch 18inch 21inch 24inch Soft Jaws Hardened & Single pressur Chuck clamp Chuck clamp HH Hydraulic H HH S Type T D Hydraulic Pr Built-in dead 4.5/3.0 Bar 7/5,10/7,14 Coolant levels Oil skimmer Coolant chill Coolant pressur Chip convey Chip bucket Air blower for Mist collector Tool setter Automatic D Signal tower Air unit for a Air unit for a manual guid		•	•	•	•	•	•
Jaw	15inch 18inch 21inch 24inch Soft Jaws Hardened & Single press Dual pressu Chuck clam Hydraulic H Hydraulic H Hydraulic P Built-in dea 4.5/3.0 Bar 7/5,10/7,14 Coolant level Oil skimmer Coolant chil Coolant pre Coolant gur Chip convey Chip bucke Air blower for Mist collecter Automatic E Signal towe Air gun Automatic par Air unit for a Air unit for a	d & ground hard jaws	0	0	0	0	0	0
	Single pre	essure chucking	•	•	•	•	•	•
Chucking Dual p	Dual pressure chucking		X	Х	Х	X	0	0
	Chuck cla	mp confirmation	0	0	0	0	0	0
		HCF3.1 (20~165mm)	0	0	0	0	0	0
	0 0 0	HCF3.2 (50-200mm)	0	0	0	0	0	0
	Hydraulic	HCF4 (30~245 mm)	0	0	0	0	0	0
Steady rest		HCF5 (45~310mm)	0	0	0	0	0	0
	,5	HCF5.1 (85~350mm)	X	X	0	0	0	0
	Туре	Single	0	0	0	0	0	0
		Twin	0	0	0	0	0	0
		Double	0	0	0	0	0	0
Tailstock	AllSTOCK	: Programmable type	•	•	•	•	•	
ranstock	Built-in d	ead center	•	•	•	•	•	
	4.5/3.0 Bar		0	0	0	0	0	0
	7/5,10/7,	14.5/10,28/19.5,70/70 Bar	0	0	0	0	0	0
(60/50Hz)	Coolant level switch : Sensing level - Low		0	0	0	0	0	0
17-17	Oilskimn	ner	0	0	0	0	0	0
Coolant	Coolanto	hiller	0	0	0	0	0	0
Chuck  Jaw  Chucking option  Steady rest  Tailstock  Coolant pump (60/50Hz)  Coolant options	Coolant p	ressure switch	0	0	0	0	0	0
	Coolant	gun	•	•	•	•	•	•
	Chip conv	veyor (Right side)	•	•	•	•	•	•
Chin disposal			•	•	•	•	•	•
omp disposar	Air blowe	rforchuck	0	0	0	0	0	0
	Mist colle	ctor interface (Duct only)	0	0	0	0	0	0
options  Chip disposal	Tool sette	er (automatic)	0	0	0	0	0	0
	112300000000000000000000000000000000000		0	0	0	0	0	0
	Signal to	wer	0	0	0	0	0	0
			0	0	0	0	0	0
		-	0	0	0	0	0	0
		rairchuck Single	0	0	0	0	0	0
	100000000000000000000000000000000000000	rairchuck Twin	Х	Х	Х	Х	0	0
	manualg	guide	0	0	0	0	0	0
	Foundation	on bolt for anchoring	0	0	0	0	0	0

Please contact DONGS SOLUTIONS representative for detailed machine information.

● Standard O Optional X N/A ۞ Available



Precautions

There is a high risk of fire when using non-water-soluble cutting fluids, processing flammable materials. neglecting the controlled and careful use of coolants and modifying the machine without the consent of the manufacturer. Always check the SAFETY GUIDELINES carefully before using the machine.

# PERIPHERAL EQUIPMENT

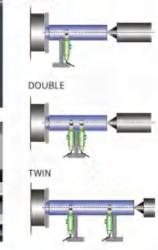
Users can choose from a variety of configurations according to different processing needs.

## Hydraulic steady rest Optional

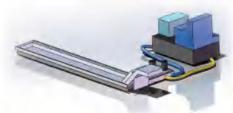
For turning long types of hydraulic steady rests(Single, Double or Twin Servo control programmable rest) can be selected.







Coolant chiller Optional



Coolant tank



A coolant chiller is recommended to ielp prevent ises and to deformation when using a water-insoluble i.e., power over L.5KW).

Twin chucking





For more stable pipe threading processing, the twin chucking option(manual or pneumatic) is available. Please consult with DONGS Solutions for details.

Automatic tool setter



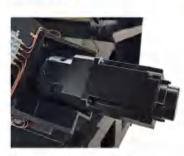
Renishaw tool setter

# Oil skimmer



Belt oil skimmer

### Servo tailstock Optional



Servo programmable fully automatic tailstock

Oil mist filter



Low noise/high efficiency/stable

# **CONVENIENT OPERATION**

## **FANUC**

# Range of applications

Providing various applications related to planning, machining, improvement and utility, for customer convenience.

## iHMI touchscreen Optional

iHMI provides an intuitive interface that uses a touchscreen for quick and easy operation.

## **USB and PCMCIA card QWERTY keyboard**

- Manual Guide i optional
- · Ergonimic operator panel

Network: FANUC MTConnect and FANUC OPC UA available

- 2MB Memory
- Hot keys

## NUMERIC CONTROL SPECIFICATIONS

## FANUC

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■ Standard O Optional X N/A ○ Available

Division	Item	Specifications	Fanuci (FDi-F Plus-5)	Fanuc i (F0i-F Plus-5)	Fanuc i (F0i-F Plus-5)	Fanuci (F0i-F Plus-1)	Fanuci (FOi-F Plus-3)	Fanuci (FOI-F Plus-0)
Controlledante	Controlled axes		2(X,Z)	3(X,Z,C)	4(X,Z,C,Y)	2(X,Z)	3(X,Z,C)	4(X,Z,C,Y)
Controlled axis	Simultaneously controlled axes		2axes	3axes	4axes	2axes	3axes	4axes
	Fast data server		0	0	0	0	0	0
	Memory card input/output		•	•		•	•	
Data input/output	USB memory input/output			•				
Controlled axis  Data input/output  Interface function  Operation  Program input Feed function  Operation  Guidance Function  Setting and display  Network	Larger capacity memory_2GB	Note *2) Available Option only with 15" Touch LCD (iHMI Only).	х	х	х	х	х	0
	Embedded Ethernet			•	•	•		
Interface function	Fast Ethernet		0	0	0	0	0	0
	Enhanced Embedded Ethernet fun	iction						
	DNC operation	Included in RS232C interface.	•	•				•
Operation	DNC operation with memory card			•	•	•		
Program input	Workpiece coordinate system	G52-G59		•	•			
Food Coasting	Al contour control I	G5.1Q_,40 Blocks	0	0	0	0	0	0
reed function	Al contour control II	G5.1Q_,200 Blocks	0	0	0	0	0	0
- W	Manual Guide i (Conversational Pro	ogramming Solution)	Х	X	Х	0	0	0
	IHMI with Machining Cycle N	ote *1) Only with 15" Touch LCD standard	X	Х	X	X	X	0
duidance runcuon	EZ Operation package			•	•	•	•	
Setting and display	CNC screen dual display function		•		•	•		•
Network	FANUC MTConnect		0	0	0	0	0	0
MELWOIN	FANUCOPCUA		0	0	0	0	0	0
Data input/output  Interface function  Operation  Program input Feed function  Operation Guidance Function  Setting and display	Display unit	15" color LCD	X	X	X	X	Х	
	Display Ulit	15" color LCD with Touch Panel	Х	Х	Х	Х	X	0
	Threading repair function		X	Х	Х	X	X	X

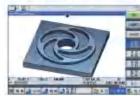
# **CONVENIENT OPERATION**

## Siemens S828D

# 15.inch display

Siemens 828D'operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

### Convenient conversational functionality



3D finished product simulation function This function observes the finest machining details and provides optimum machining



the specified programme path.

In MDA mode, you can directly enter the programme manager to select the loaded

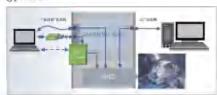


This function allows you to quickly complete two programme, or save the MDI programme to



Measuring cycle function

Automatic workpiece setting and inspection, as well as tool setting and broken tool detection, reduces the machine tool's auxiliary machining time, improves productivity and ensures consistency of workpiece accuracy throughout the entire machining process.



It establishes the connection and access between the remote diagnostic computer and the CNC system, and realises the functions of file transfer, remote display of the system operation screen, as well as remote operation and diagnosis, so as to better improve the efficiency of online service of machine tools.

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passes through the easy-to-use programming wizard or the graphical dialogue programming image of the ShopTurn step-by-step program, ensuring the correctness of the machining program and increasing programming efficiency.

#### NUMERIC CONTROL SPECIFICATIONS

### SIEMENS

Division	14 a ins		Considerations	2-Axis	D	S	DS	Y	Y5
DIVISION	Item		Specifications	5828D	5828D	5828D	S828D	S828D	5828D
Controlled axis	Controlled axes			X,Z,SP	X,Z,C,R	X,Z,C,C2,B	X,Z,C,R,C2,B	X,Z,C,R,Y	X,Z,C,R,C2,Y,E
Controlled axis	Simultaneously cor	ntrolled axes		4axes	4axes	4axes	4axes	4axes	4axes
Data input/output	Memory card input,	output		X	X	X	X	X	X
	USB memory input	output.				•	•	•	•
Interface function	Ethernet		(X130)	0	0	0	0	0	0
	On network drive		(without EES option, Extcall)	0	0	0	0	0	0
Operation	On USB storage me e.g. memory stick	dium,	(without EES option, Extcall)	•	•	•	•	•	•
Program input	Workpiece coordina	ate system	G54 - G59, G507 - G599			•	•	•	•
	Advanced surface			Х	X	X	X	X	X
Feed function	Top surface			X	X	X	X	X	X
Look ahead number of block		r of block		1	1	1	1	.1	1
Programming & 3D simulation, finished part		hed part		•	•	•	•		
	Simultaneous recording				•	•	•		•
Luiding function	DXF Reader for PC integrated in SINUMERIK Operate		0	0	0	0	0	0	
Operation	Shopturn	DXF Reader for PC integrated in SINUMERIK Operate Shopturn				•		•	
Guidance Function	EZ Operation pack	D simulation, finished part multaneous recording XF Reader for PC integrated in SINUMERIK Operate repturn Z Operation package peration via a VNC viewer TConnect PCUA			•	•	•	•	•
Setting and display	Operation via a VN	viewer			•	•	•	•	•
Natwork	MTConnect			0	0	0	0	O	0
Network	OPCUA			0	0	0	0	0	0
	Display unit		or display with touch screen	•	•	•	•		•
		CNC user	memory 10 MB	•	•	•	•	•	
		CNC user	memory 100MB	0	0	0	0	0	0
	Part program		memory 6MB	X	X	X	X	Х	X
Others	storage size	CNC user memory 40GB (with PCU or IPC)		X	х	X	×	Х	×
peration rogram input ed function rogramming & diting function peration didance Function etting and display etwork			r memory without limit(Execution from extenal devices)(EES / Using by USB or Network)	0	0	0	0	0	0
		HMins	ser memory for CNC part program 6GB	X	X	X	X	X	X

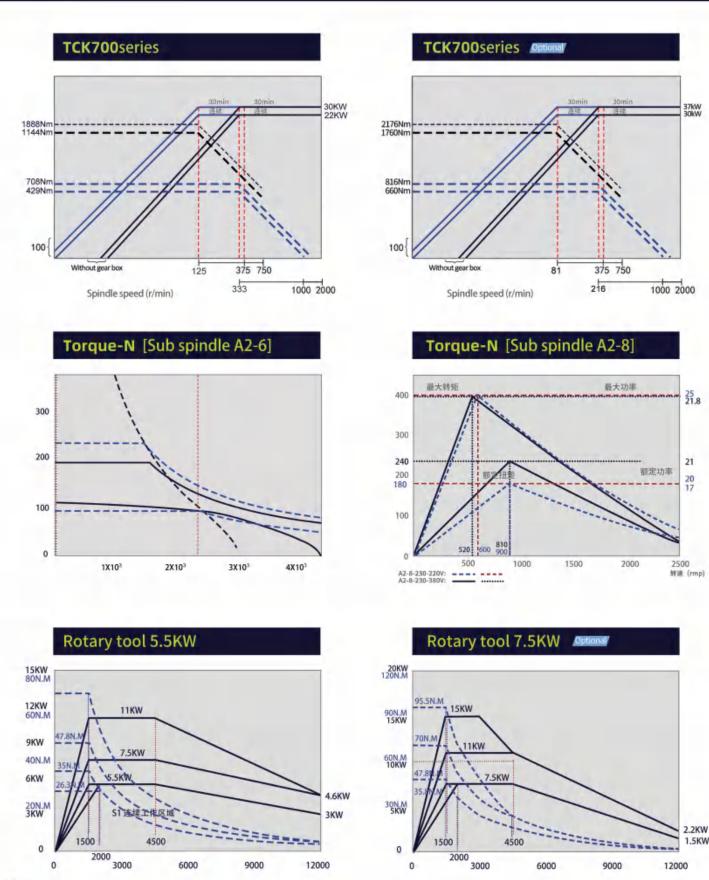
● Standard O Optional X N/A O Available

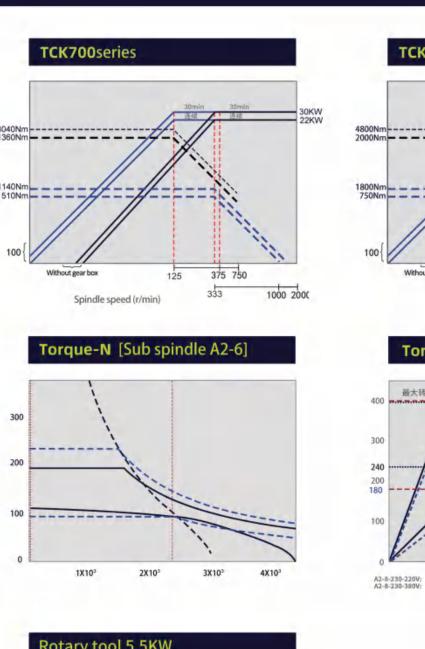
# **POWER & TORQUE**

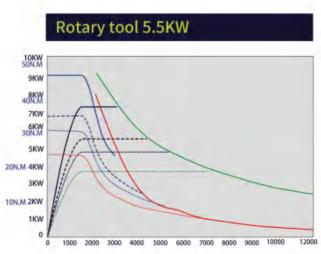
## **FANUC**

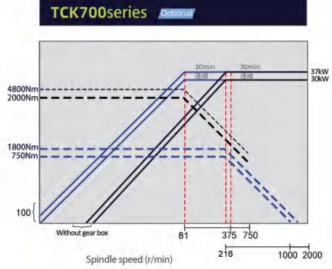
# POWER & TORQUE

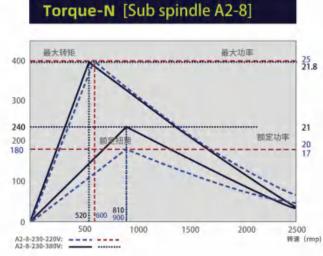
## **SIEMENS**





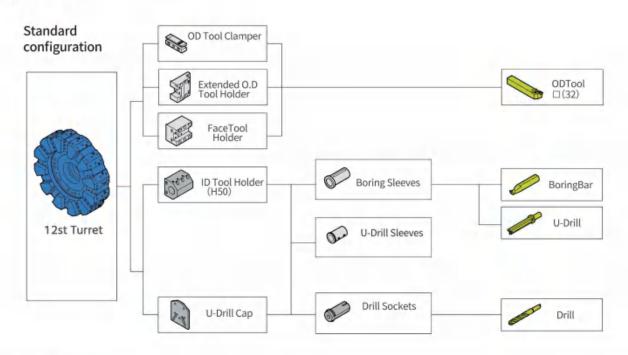




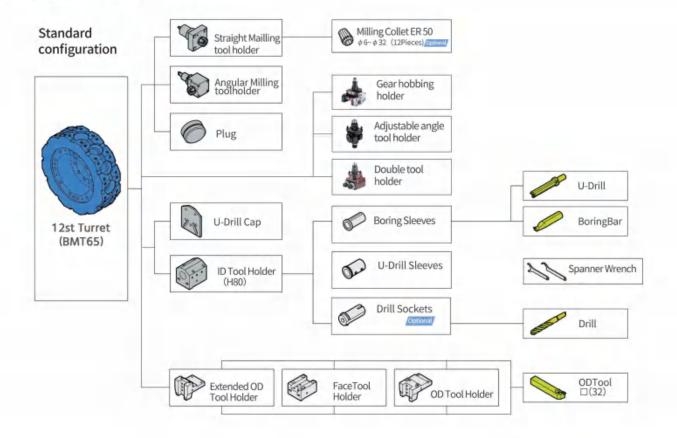


# **TOOL INTERFERENCE PATTERN**

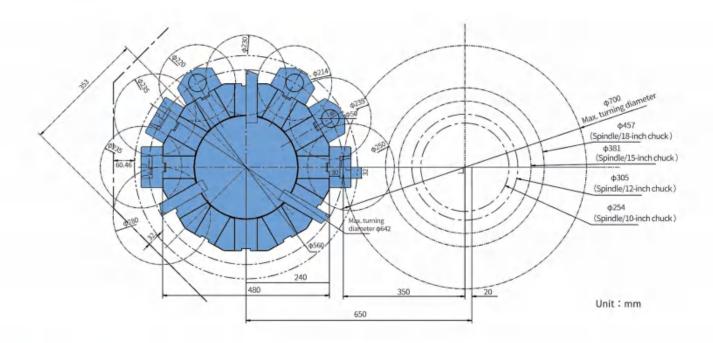
## **Turning turret**



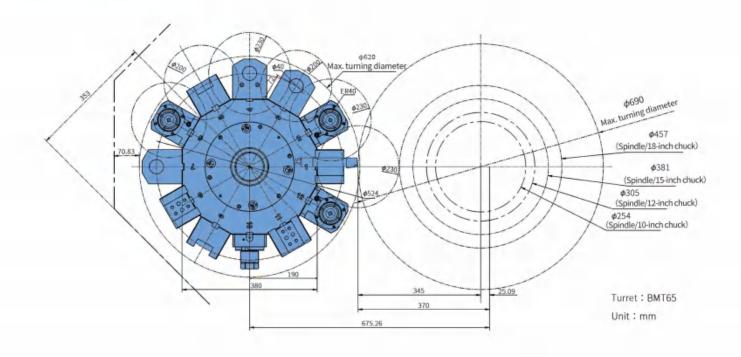
## **BMT65 Power turret**



## **Turning turret**



### **BMT65 Power turret**



15 16

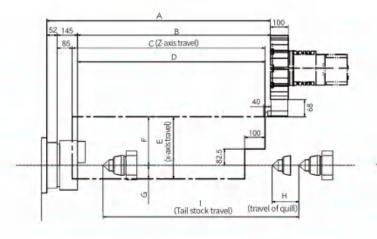
# **WORKING RANGE**

# **Tuining turret**

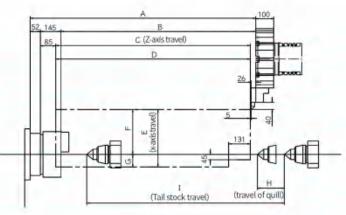
# **WORKING RANGE**

## **BMT65 Power turret**

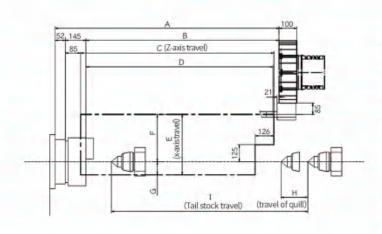
# End face block



# OD tool block



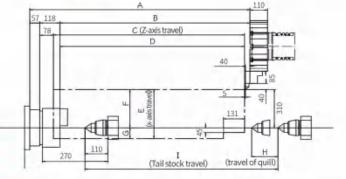
# Boring tool block



Tool holder		End face	O.D/Bo	ring	Tail stock travel
Model Travel	Α	В	C	D	1
TCK700-1000	1197	1000	1030	970	1100
TCK700-1500	1697	1500	1530	1470	1600
TCK700-2000	2197	2000	2030	1970	2100
TCK700-3000	3197	3000	3030	2970	3100
TCK700-4000	4197	4000	4030	3970	4100
TCK700-5000	5197	5000	5030	4970	5100

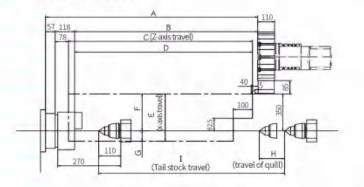
Model	Tool holder Travel	E	F	G	Н
TCK700 (1000-3000)	End face block		302	78	
	OD tool block	380	325	55	200
	Boring tool block		342	38	

## OD tool block



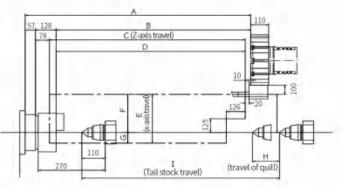
Model Travel	Α	В	C	D	E	F	G	Н	I
TCK700-1000	1125	940	1000	950					1100
TCK700-1500	1625	1440	1500	1450					1600
TCK700-2000	2125	1940	2000	1950	380	310	70	200	2100
TCK700-3000	3125	2940	3000	2950	300	310	70	200	3100
TCK700-4000	4125	3940	4000	3950					4100
TCK700-5000	5125	4940	5000	4950					5100

## End face block



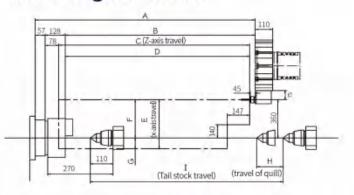
型号 行程	Α	В	C	D	E	F	G	H	I
TCK700-1000	1145	940	940	950					1100
TCK700-1500	1645	1440	1440	1450					1600
TCK700-2000	2145	1940	1940	1950	380	350	30	200	2100
TCK700-3000	3145	2940	2940	2950	300	350	30	200	3100
TCK700-4000	4145	3940	3940	3950					4100
TCK700-5000	5145	4940	4940	4950					5100

# Boring tool block



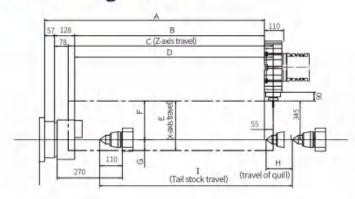
Model Travel	A	В	C	D	E	F	G	Н	I
TCK700-1000	1125	940	1015	965					1100
TCK700-1500	1625	1440	1515	1465					1600
TCK700-2000	2125	1940	2015	1965	380	335	45	200	2100
TCK700-3000	3125	2940	3015	2965	300	333	45	200	3100
TCK700-4000	4125	3940	4015	3965					4100
TCK700-5000	5125	4940	5015	4965					5100

# Axial living tool holder



型号 行程	A	В	C	D	E	F	G	H	1
TCK700-1000	1125	940	1045	950					1100
TCK700-1500	1625	1440	1545	1450					1600
TCK700-2000	2125	1940	2045	1950	380	360	20	200	2100
TCK700-3000	3125	2940	3045	2950	300	300	20	200	3100
TCK700-4000	4125	3940	4045	3950					4100
TCK700-5000	5125	4940	5045	4950					5100

# Radial living tool holder



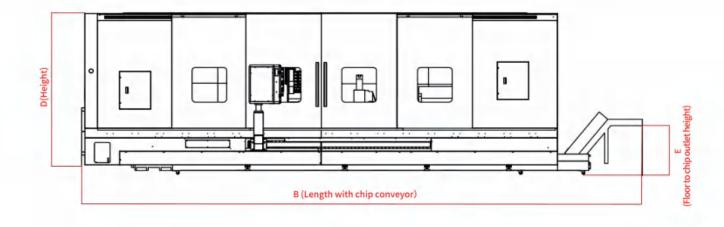
型号 行程	Α	В	C	D	E	F	G	H	1
TCK700-1000	1125	940	1090	1050			- 0		1100
TCK700-1500	1625	1440	1590	1550				200	1600
TCK700-2000	2125	1940	2090	2050	375	345	30		2100
TCK700-3000	3125	2940	3090	3050	3/3	345	30		3100
TCK700-4000	4125	3940	4090	4050					4100
TCK700-5000	5125	4940	5090	5050					5100

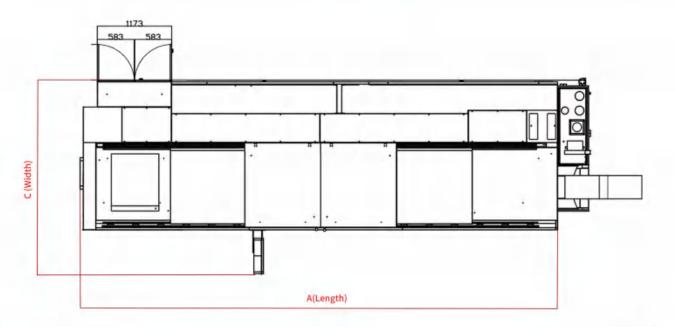
# **OVERALL DIMENSIONS**

# TCK700 series

# **MACHINE SPECIFICATIONS**

# TCK700 series





Unit: mm

Model	A (Length)	B (Length with chip conveyor)	C (Width)	D (Height)	E (Floor to chip outlet height)
TCK700-1000	4000	5400	2700	2400	
TCK700-1500	4550	5950	3000	2400	
TCK700-2000	5500	6900	3000	2400	830
TCK700-3000	6700	8100	3000	2400	
TCK700-4000	7600	9000	3100	2400	
TCK700-5000	8600	10000	3100	2400	

 $<sup>^{\</sup>star}\,500mm\,of\,a\,space\,is\,required\,to\,the\,right\,of\,the\,machine\,in\,order\,to\,install\,and\,remove\,chip\,conveyor.$ 

Description	1		Unit	TCK	700	T	CK800		
	Swing over bed		mm	Ф7	'80	(	⊅ 850		
Capacity	Swing over sac	ldle	mm	Ф 5	600	(	Þ 630		
	Chuck size		inch		12/15	5/18/21/24	1		
	X-axis		mm			350			
Travels	Y-axis		mm			±75			
	Z-axis	,	mm	100	00/1500/20	000/3000/4	4000/500	0	
	Danid	X-axis	mm/min			16	A2- Φ181 166 Φ181 360		
Feedrates	Main spindle mo Spindle Ratio Spindle Ratio	Y-axis	mm/min	10					
		Z-axis	mm/min			16	A2- Φ181 166 Φ181 360		
	Main spindle m	notor power	KW			22 {30}	11 A2-15 32 Φ181 Φ 0 166 32 Φ181 Φ		
	Spindle Ratio		1			1:3			
Main Spindle	Spindle Ratio optional gearbox		1	1:8					
	Spindle nose	ASA	A2-8	A2-11	A2-11	A2	-15		
Spindle	Through hole of	of main spindle	mm	Ф88	Ф105	Ф132	A2- Φ181 166 Φ181 360	Ф220	
	Bar through di	ameter	mm	75	90	120	166	220	
	Spindle bearin	g	mm	Ф88	Ф105	Ф132	Ф181	Ф220	
	diameter (Fron	nt)		180	240	280	360	420	
	No. of tool stat	ions	ea			12			
	OD tool size		mm			32X32			
Turret	Max. boring ba	rsize	mm			50	Φ 850 Φ 630 1/24  000/4000/5000  0) 3 3 11		
Turret	Turret indexin (1 station swiv		S			0.5			
	Max. rotary too	ol speed	r/min		ВМТ	65 (4000			
	Rotary tool mo	otor power	KW			5.5/7.5			
	Tail stock trave	el	mm	11	00/1600/2	100/3100/	4100/510	0	
Tailstook	sleeve diamete	er	mm			150/160	Φ 850 Φ 630 24 /4000/500 Α2 Φ181 166 Φ181 360		
Tailstock	Travel of sleev	e	mm			180			
	sleeve bore tap	per	MT		N	1T5/MT6			

<sup>\*</sup> Machine foundation: Anchoring is recommened to maintain accuracy over a long period of time, The anchor bolts and other related parts of foundation work are supplied ad tandard items. Please consult with DONGS Solutions and sales technicians regarding ground and operating conditions.

<sup>\*</sup> Some peripheral equipment can be placed in other places.

# **Global Services**

DONGS Machine Tool Global Service, 24-hour rapid response to customer needs

DONGS Machine Tool provides systematic services for all pre-sales and after-sales processes, responding quickly to customer needs and resolving issues quickly. From the supply of machine tool equipment and equipment spare parts to product training, troubleshooting, and technical support, we can provide customers with fast services through our service network.



## **Global Operations Center**

- North America Operations Centre
- South Africa Operations Center
- European Operations Center
- Turkey Operations Center

- Zhejiang Ningbo Operation Center
- Jiangsu Operation Center
- Guangdong Operation Center
- Sichuan Chengdu Operation Center

# **Customer Support Service**

We help customers to achieve success by providing a variety of professional services from pre-sales consultancy to post-sales support.





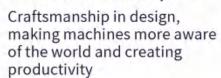
Processing capacity

High-end precision mastering machine to ensure product manufacturing accuracy











Field Services
On-site installation, testing and regular maintenance of machines



Training
Programming
/machine setupoperation
/maintenance/applications

