

A close-up photograph of a CNC lathe in operation. A polished, cylindrical metal part is being machined by a tool. The background is dark and industrial, with various mechanical components visible.

TC35A/TC40A Series horizontal CNC lathe

-introduction



Feature description



- Double row cylindrical roller bearing and high speed thrust angular contact ball bearing are adopted at the front end of the spindle, and double row cylindrical roller bearing is adopted at the rear end for support
- 45 ° monolithic casting lathe bed with rectangle type sliding guide rail
- Split tailstock, hydraulic drive extended sleeve
- 12 tools hydraulic turret
- The motor directly connects the ball screw to drive the two-axis feed, and the screw loads the axial pre-stretching
- Resistant centralized thin oil lubrication system
- Full enclosure with top



model	TC35A	TC40A
Swing over bed Max.(mm)	Φ700	Φ800
Swing over carriage Max.(mm)	Φ600	Φ650
Max. Turning diameter(mm)	Φ630	Φ800
Spindle bore bar(mm)	Φ88 (option Φ113)	Φ100

Machine specification-TC35 A series



item			TC35A×1000	TC35A×1500	TC35A×2000	item	TC35A×1000	TC35A×1500	TC35A×2000		
Scope	Swing over bed Max.	mm	Φ700			Quill	Quill diameter	mm	Φ130		
	Swing over carriage Max.	mm	Φ600				Quill taper	-	MT.NO.05		
	Max. Turning diameter	mm	Φ630				Quill travel	mm	120		
	Max. turning length	mm	1000	1500	2000		Tail stock travel	mm	700	1200	1700
Spindle	Spindle center to floor	mm	1150			Turret	Turret	-	Hydraulic V12		
	Spindle speed	rpm	2500				Tool size	mm	32×32		
	Power (continues/15min)	kW	15/18.5				Boring bar	mm	Φ50		
	Torque (continues/15min)	Nm	485/600				Indexing	s	0.5		
	Spindle nose	-	JISA2-11			Machine capacity	kVA	45			
	Spindle bore bar	mm	Φ102 (option Φ126)			Tank	L	250			
	bar through spindle	mm	Φ88 (option Φ113)			Machine weight	T	9.5	10.5	12	
	Chuck size	Inch	12 (option 15、 18、 20)			Controller	-	FANUC 0i-TF (TYPE 5)			
Servo axis	X/Z travel	mm	345/1060	345/1550	345/2060	Floor area	mm	5380×2200×2200	5800×2200×2200	6400×2350×2400	
	X/Z rapid feed	m/min	16/20		16/16						
	X/Z servo motor power	kW	3.0/3.0								
	X/Z position accuracy	mm	0.008/0.012	0.008/0.015	0.008/0.020						
	X/Z re- position accuracy	mm	0.005/0.008	0.005/0.010	0.005/0.012						



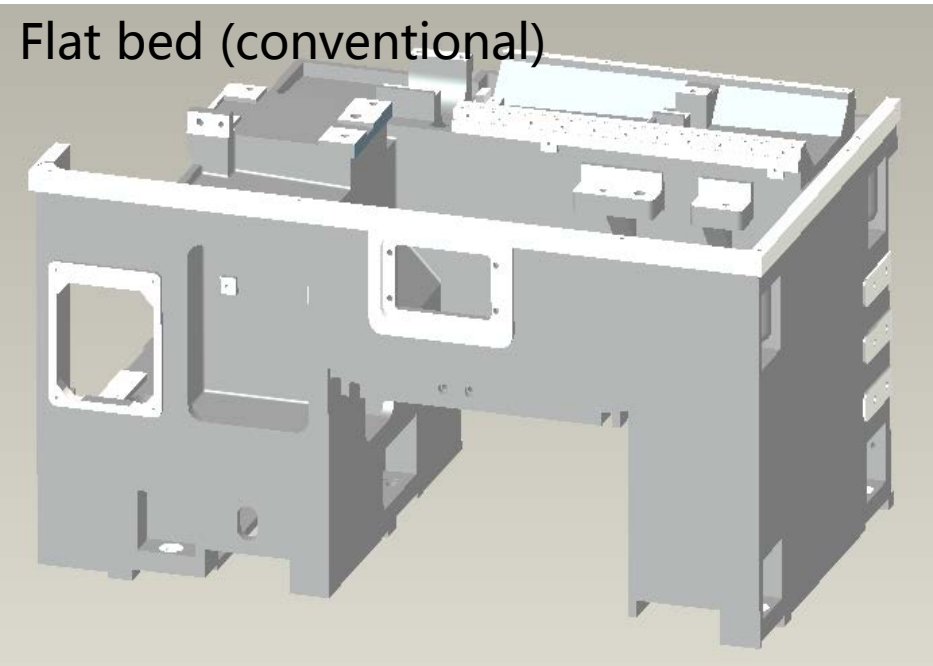
Machine specification-TC40 A series



item			TC40A×1500	TC40A×2750	item			TC40A×1500	TC40A×2750
Scope	Swing over bed Max.	mm	Φ800		Quill	Quill diameter	mm	Φ160	
	Swing over carriage Max.	mm	Φ650			Quill taper	-	MT.NO.05	
	Max. Turning diameter	mm	Φ800			Quill travel	mm	150	
	Max. turning length	mm	1500	2750		Tail stock travel	mm	1100	2400
	Spindle center to floor	mm	1200		Turret	Turret	-	液压V12	
Spindle speed	rpm	2000		Tool size		mm	32×32		
Power (continues/15min)	kW	15/18.5		Boring bar		mm	Φ60		
Torque (continues/15min)	High shaft	Nm	645/796			Indexing	s	0.75	
	Low shaft		2434/3002			Quill diameter			
Spindle	Spindle nose	-	JISA2-11		Machine capacity		kVA	70	
	Spindle bore bar	mm	Φ112		Tank		L	250	310
	bar through spindle	mm	Φ100		Machine weight		T	12.5	14.5
	Chuck size	Inch	15 (option 18、 20、 21、 24)		Controller		-	FANUC 0i-TF (TYPE 5)	
	X/Z travel	mm	410/1570	410/2820	Floor area		mm	6410×2600×2375	7600×2850×2560
	X/Z rapid feed	m/min	12/12						
	X/Z servo motor power	kW	2.5/3.0						
X/ Z position accuracy	mm	0.008/0.015	0.008/0.020						
X/Z re- position accuracy	mm	0.005/0.010	0.005/0.012						

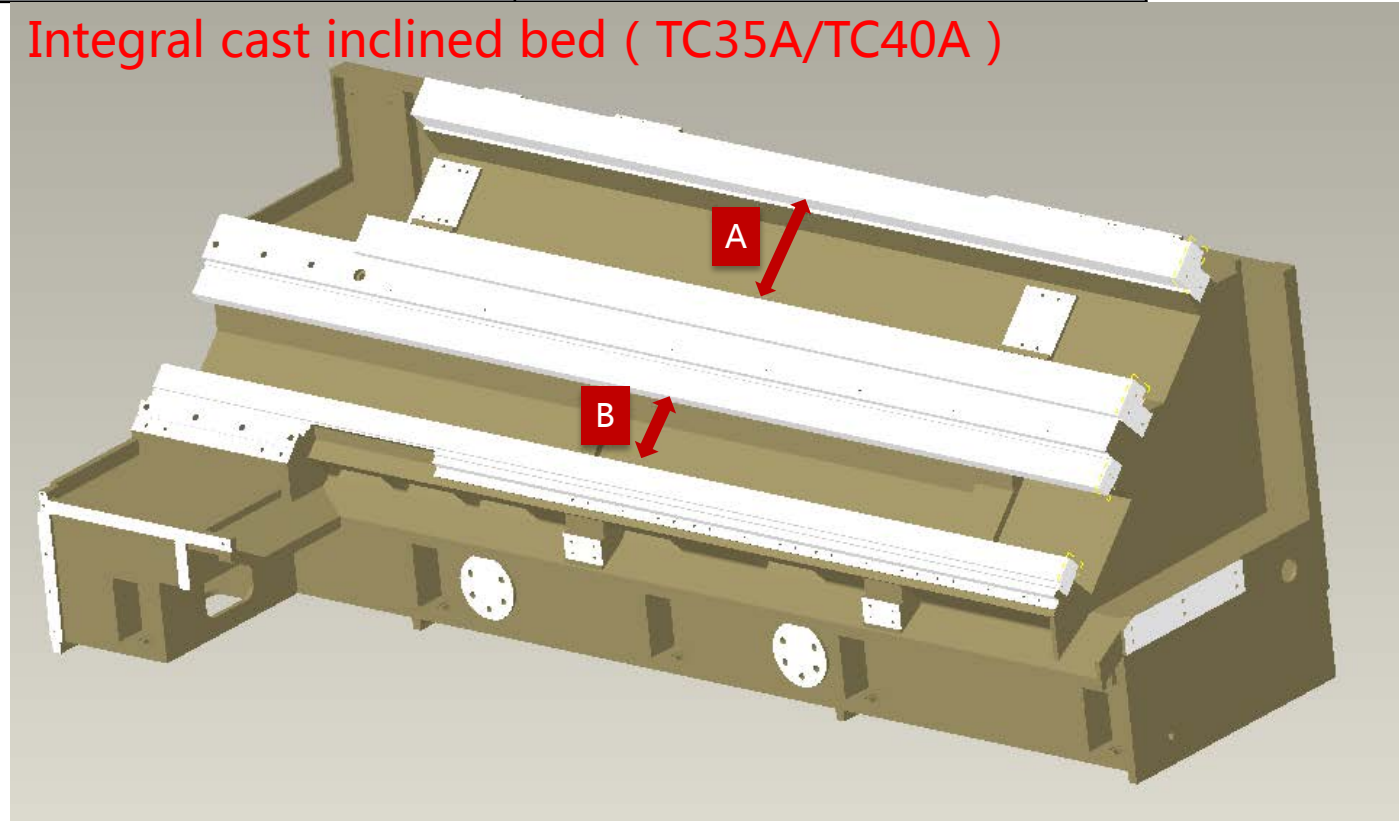
45° overall slant bed

model			TC35A×1000	TC35A×1500	TC35A×2000	TC40A×1500	TC40A×2750
Z axis	Rail span A	mm	275			340	
	Tailstock lower guide span B	mm	190			220	



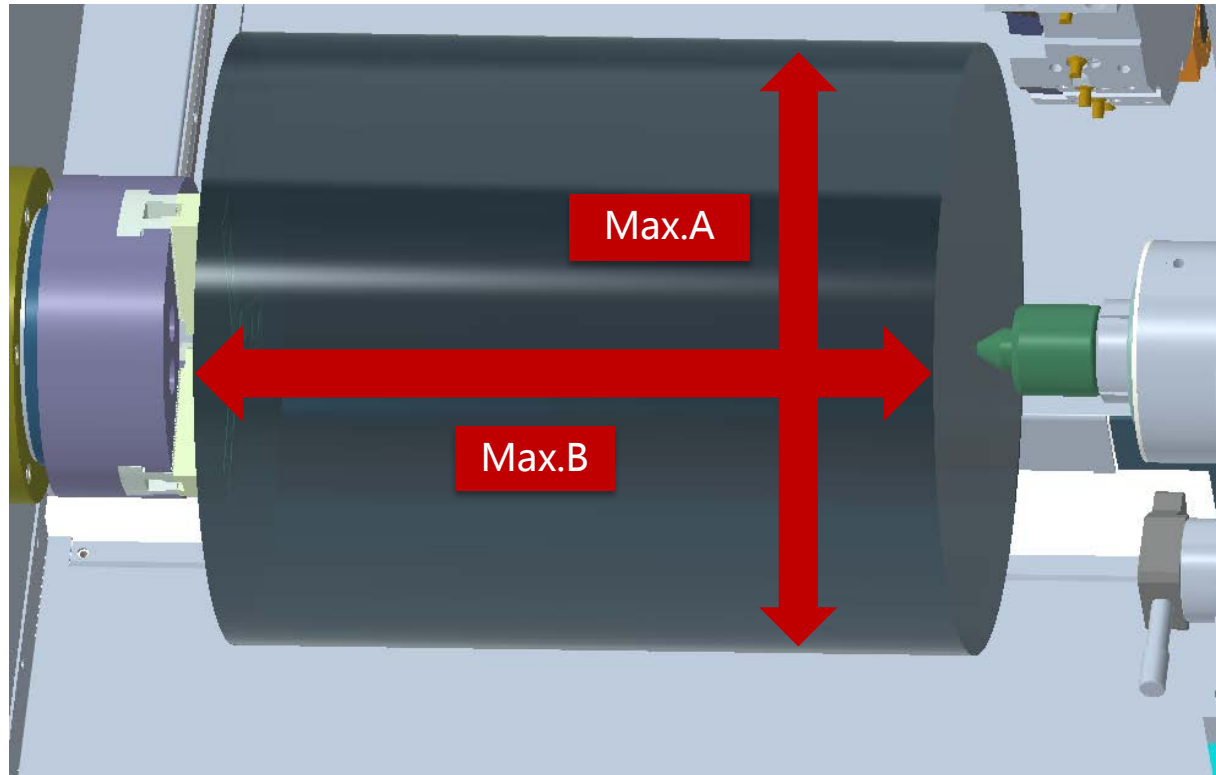
Flat bed (conventional)

Integral cast inclined bed (TC35A/TC40A)



Solid cast bed - high rigid
 45 ° inclined bed - chip removal is convenient

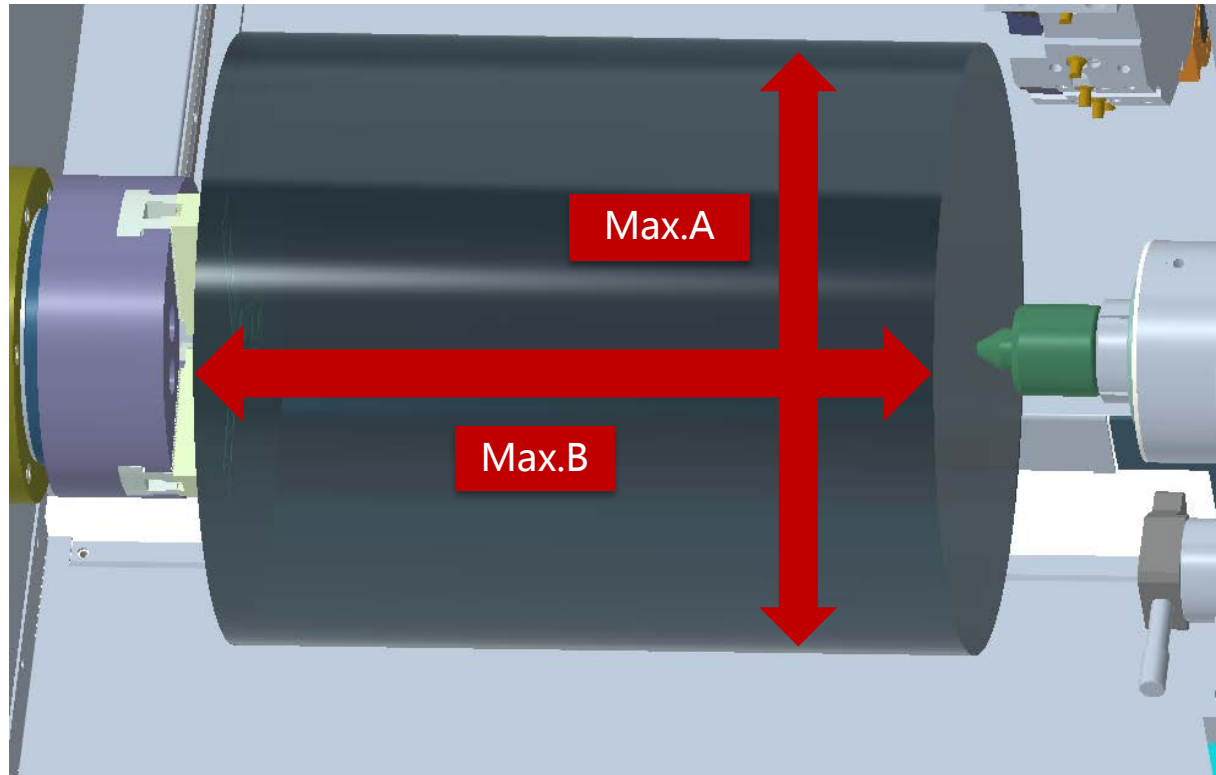
Processing Range-TC35A series



Mold	chuck size (inch)	Max. Turning diameterA (mm)	Max. turning length B (mm)
TC35A×1000/T C35A×1500/TC 35A×2000	12 (STD)	Φ630	1000/1500/2000
	12 (hollow)		999/1499/1999
	15 (solid)		1011/1511/2011
	15 (hollow)		989/1489/1989
	18 (solid)		1011/1511/2011
	18 (hollow)		989/1489/1989
	20 (hollow)		962/1462/1962

Note: **maximum turning diameter:** the cylindrical axial machining of the cutter does not exceed the cutter head;
The maximum turning length is calculated from the jaw surface;

Processing Range-TC40A series



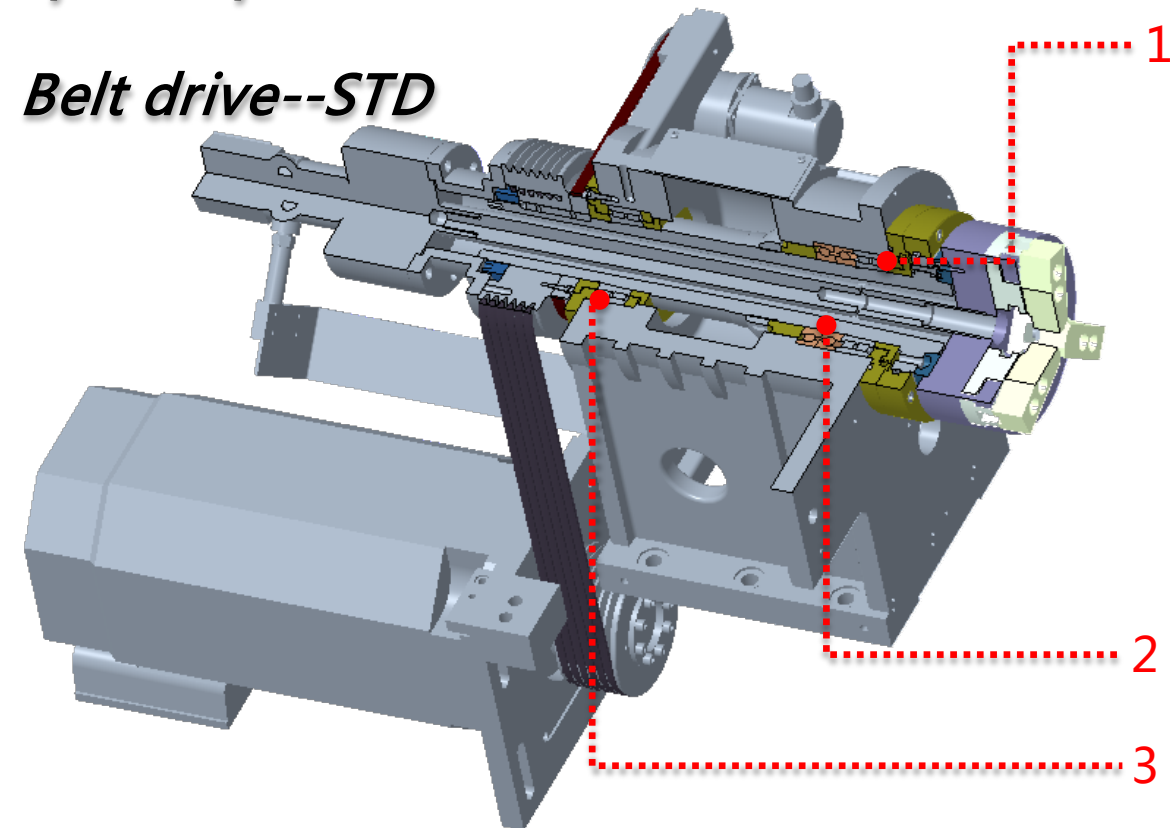
Note: **maximum turning diameter**: the cylindrical axial machining of the cutter does **not exceed the cutter head**; **The maximum turning length** is calculated from the jaw surface;

Mold	chuck size (inch)	Max. Turning diameterA (mm)	Max. turning length B (mm)
TC40A×1500/T C40A×2750	15 (STD)	Φ800	1500/2750
	15 (hollow)		1478/2728
	18 (solid)		1500/2750
	18 (hollow)		1478/2728
	20 (hollow)		1451/2701
	21 (solid)		1471/2721
	24 (solid)		1471/2721
	24 (hollow)		1434/2684

Spindle parameter-TC35A series



Belt drive--STD



Spindle speed : 2500rpm

Spindle power : 18.5kW

Spindle torque : 600Nm

No	bearing name	brand	Bearing accuracy class	bearing bore diameter(mm)
1	Double row cylindrical roller bearing (front)	NSK	P4	150
2	High speed thrust angular contact ball bearing (front)		P4	150
3	Double row cylindrical roller bearing (rear)		P5	140

Mold	Chuck size (inch)	Spindle speed (rpm)	Spindle power (continuos/15min , kW)	Spindle torque (continuos/15min , Nm)
TC35A series	15/18 (solid)	2500	15/18.5	485/600
	12/15 (hollow)	2500		
	18 (hollow)	2000		
	20 (hollow)	1800		

Spindle parameter-TC35A series

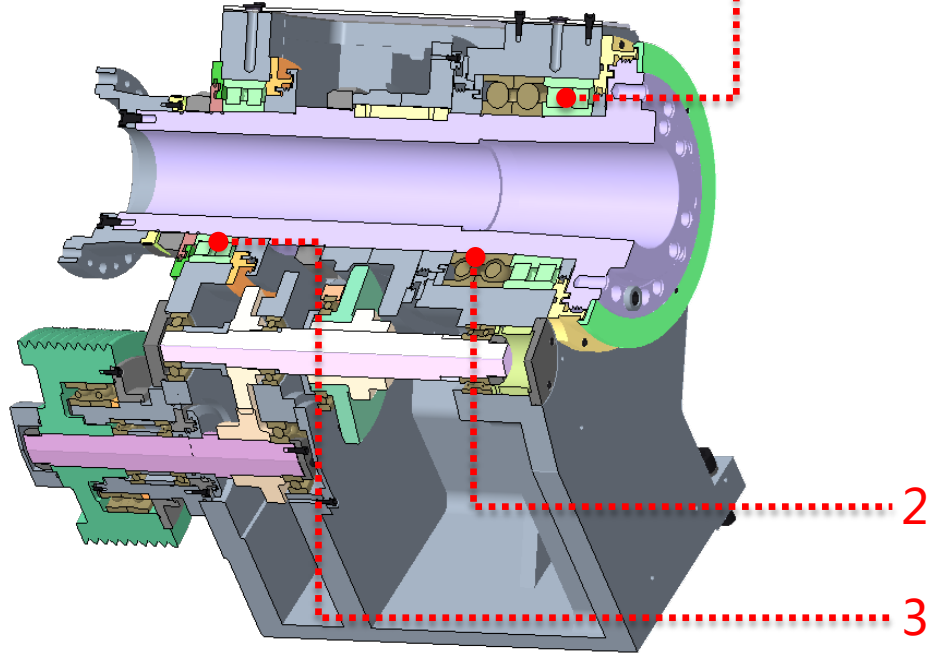
Option Gear box transmission



Spindle speed : **2000rpm**

Spindle power : **18.5kW**

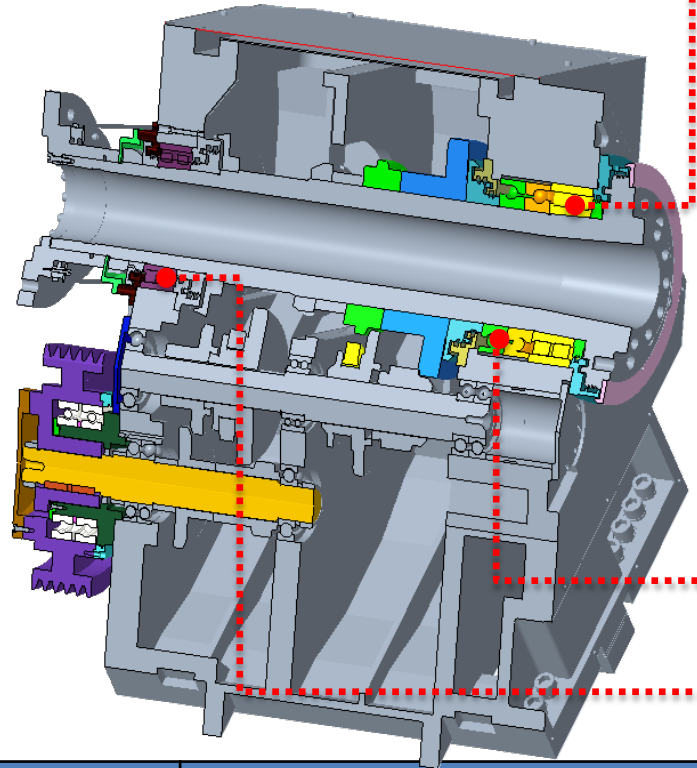
Spindle torque : **1398Nm**



No	bearing name	brand	Bearing accuracy class	bearing bore diameter(mm)
1	Double row cylindrical roller bearing (front)	NSK	P4	170
2	High speed thrust angular contact ball bearing (front)		P4	170
3	Double row cylindrical roller bearing (rear)		P5	150

Mold	Chuck size (inch)	Spindle speed (rpm)	Spindle power (continues/15min , kW)	Spindle torque (continues/15min , Nm)	
				Low shaft	High shaft
TC35A series	15/18 (solid)	2500	15/18.5	1047/1398	336/449
	12/15 (hollow)	2500			
	18 (hollow)	2000			
	20 (hollow)	1800			

Spindle parameter-TC40A series STD Gear box transmission



Spindle speed : **2000rpm** **HISON**

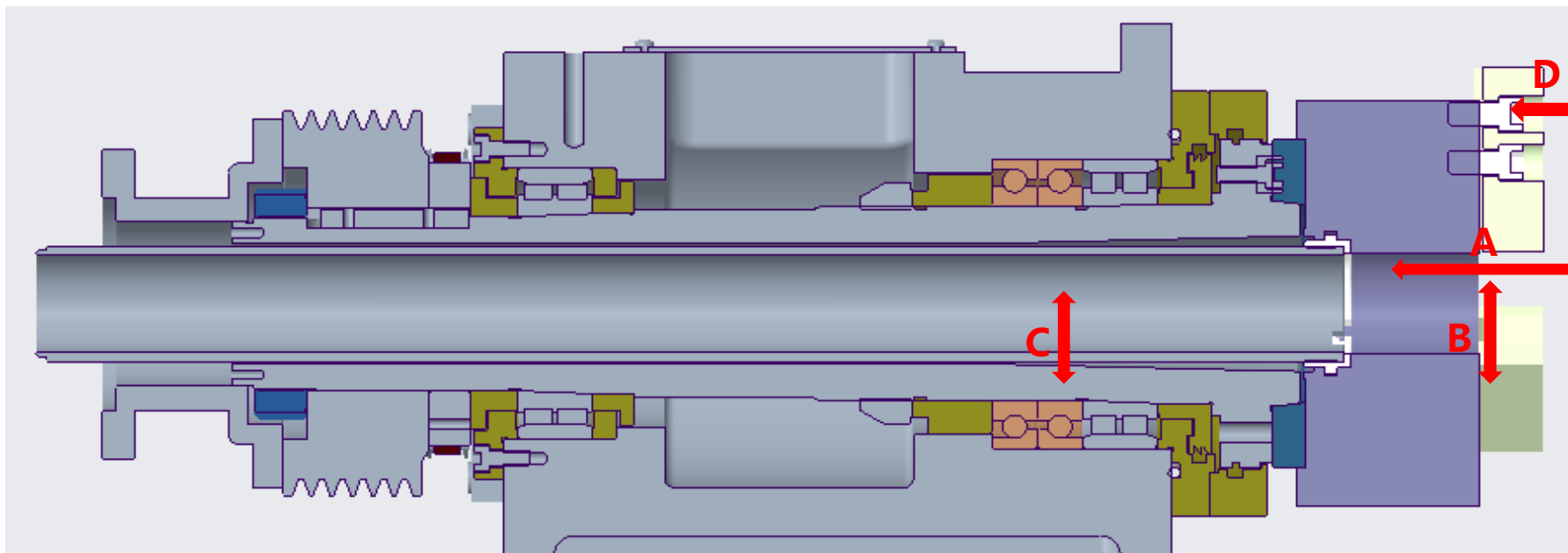
Spindle power : **18.5kW**

Spindle torque : **3002Nm**

No	bearing name	brand	Bearing accuracy class	bearing bore diameter(mm)
1	Double row cylindrical roller bearing (front)	NSK	P4	170
2	High speed thrust angular contact ball bearing (front)		P4	170
3	Double row cylindrical roller bearing (rear)		P5	140

Mold	Chuck size (inch)	Spindle speed (rpm)	Spindle torque (continues/15min , Nm)		
			Low shaft	High shaft	
TC40A series	15 (hallow) /18 (solid & hollow)	2000	15/18.5	2434/3002	645/796
	20 (hollow)	1800			
	21 (solid)	1940			
	24 (solid)	1760			
	24 (hollow)	1400			

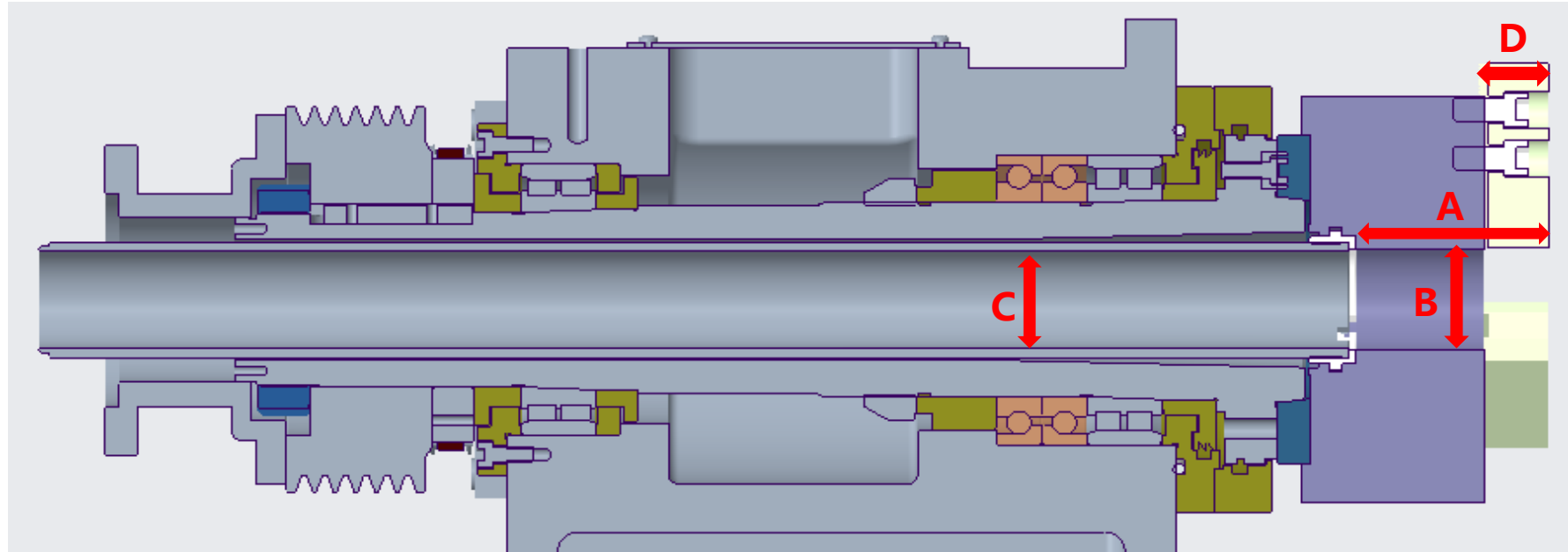
Bar through hole parameter-TC35 A series



Note: the optional bar material of the hollow cylinder of the hollow chuck can pass from the side of the chuck to the side of the oil cylinder, but the rest can't;

Mold	Item	The chuck can extend into the length A(mm)	chuck hole diameter B(mm)	Maximum rod diameter C(mm)	The thickness of the jaw D(mm)
TC35A series	12" solid hydraulic chuck with solid cylinder (STD)	54	0	0	54
	12" hollow hydraulic chuck with solid cylinder (OP)	119	Φ91	0	51
	12" hollow hydraulic chuck with hollow cylinder (OP)	119	Φ91	Φ90	51
	15" solid hydraulic chuck with solid cylinder (OP)	63	0	0	63
	15" hollow hydraulic chuck with solid cylinder (OP)	143	Φ117.5	0	66
	15" hollow hydraulic chuck with hollow cylinder (OP)	143	Φ117.5	Φ90	66

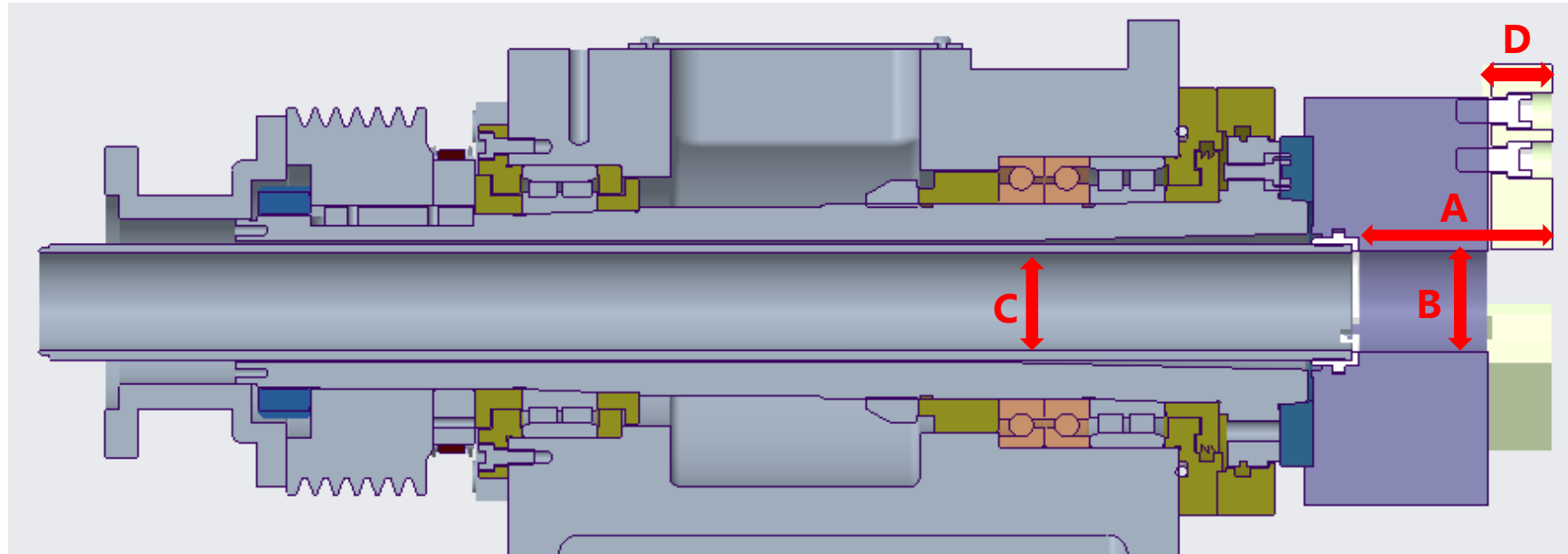
Bar through hole parameter-TC35 A series



Note: the optional bar material of the hollow cylinder of the hollow chuck can pass from the side of the chuck to the side of the oil cylinder, but the rest can't;

Mold	Item	The chuck can extend into the length A(mm)	chuck hole diameter B(mm)	Maximum rod diameter C(mm)	The thickness of the jaw D(mm)
TC35A series	18" solid hydraulic chuck with solid cylinder (OP)	63	0	0	63
	18" hollow hydraulic chuck with solid cylinder (OP)	143	Φ117.5	0	66
	18" hollow hydraulic chuck with hollow cylinder (OP)	143	Φ117.5	Φ90	66
	20" hollow hydraulic chuck with solid cylinder (OP)	152	Φ180	0	73
	20" hollow hydraulic chuck with hollow cylinder (OP)	152	Φ180	Φ90	73

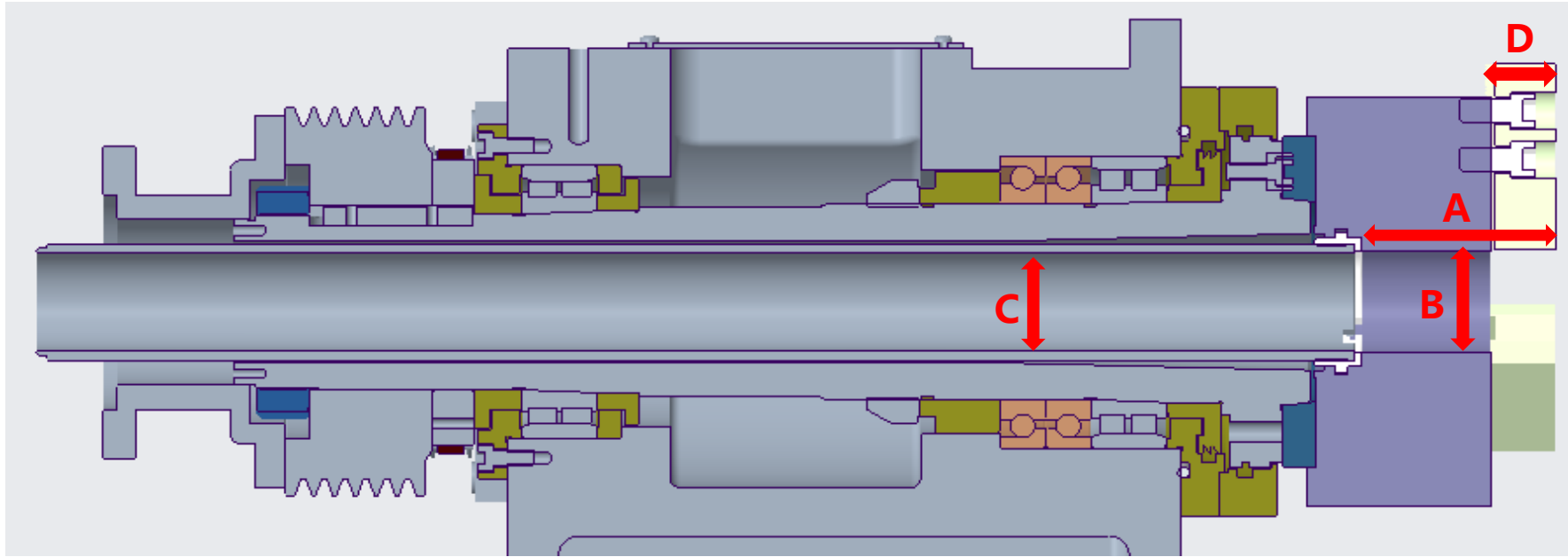
Bar through hole parameter-TC35 A series Spindle enlarge



Note: the optional hollow cylinder of the hollow chuck can pass from the side of the chuck to the side of the oil cylinder, but the rest can't;

Mold	Item	The chuck can extend into the length A(mm)	chuck hole diameter B(mm)	Maximum rod diameter C(mm)	The thickness of the jaw D(mm)
TC35A series	15" hollow hydraulic chuck with hollow cylinder (OP)	143	Φ117.5	Φ115	66

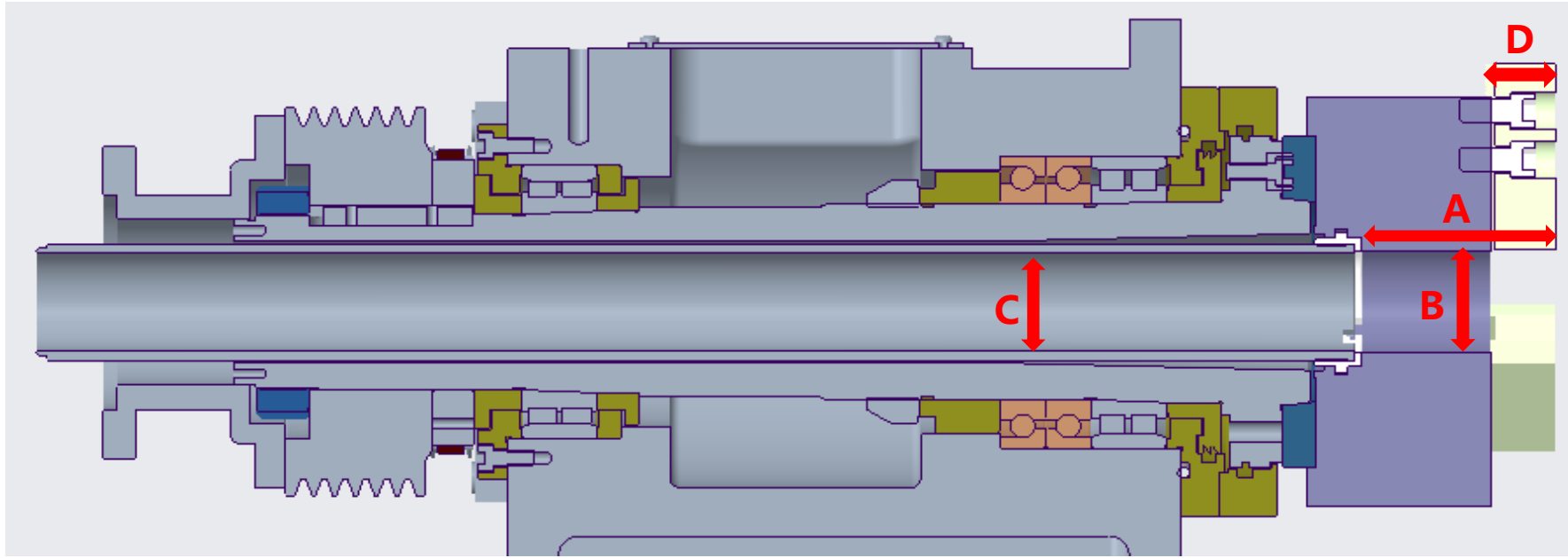
Bar through hole parameter-TC40 A series



Note: the optional bar material of the hollow cylinder of the hollow chuck can pass from the side of the chuck to the side of the oil cylinder, but the rest can't;

Mold	Item	The chuck can extend into the length A(mm)	chuck hole diameter B(mm)	Maximum rod diameter C(mm)	The thickness of the jaw D(mm)
TC40A series	15" solid hydraulic chuck with solid cylinder (STD)	63	0	0	63
	15" " hollow hydraulic chuck with solid cylinder (OP)	143	Φ117.5	0	66
	15" hollow hydraulic chuck with hollow cylinder (OP)	143	Φ117.5	Φ98	66
	18" solid hydraulic chuck with solid cylinder (OP)	63	0	0	63
	18" " hollow hydraulic chuck with solid cylinder (OP)	143	Φ117.5	0	66
	18" hollow hydraulic chuck with hollow cylinder (OP)	143	Φ117.5	Φ98	66

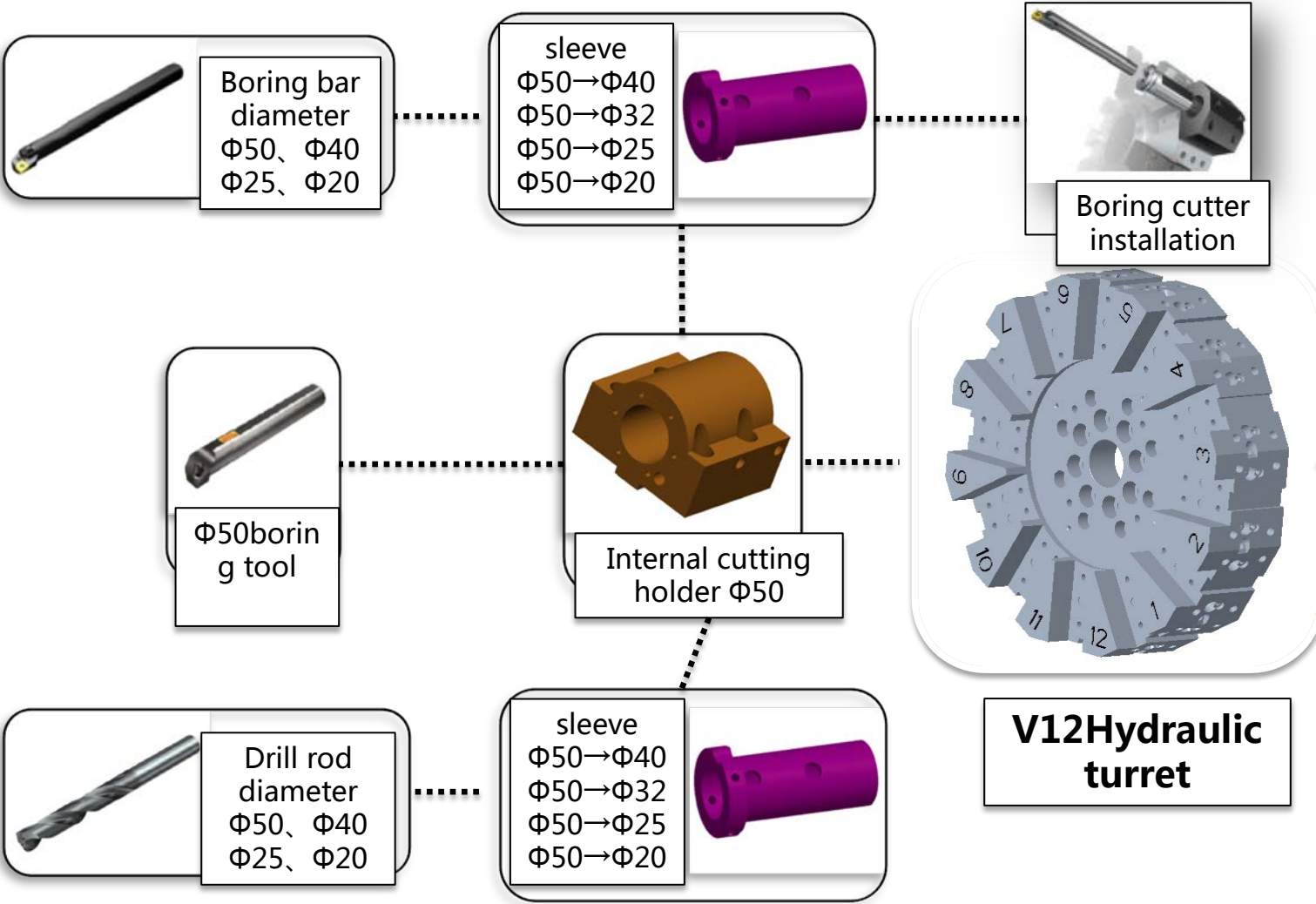
Bar through hole parameter-TC40 A series



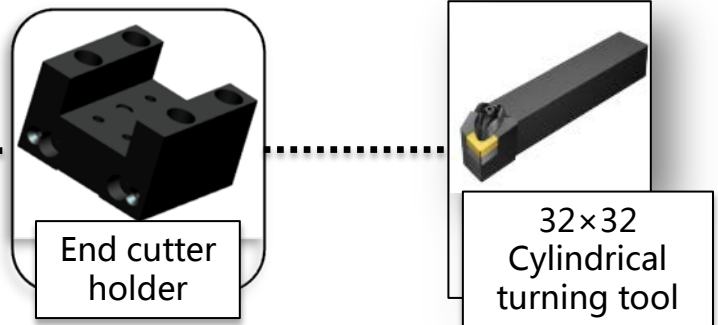
Note: the optional bar material of the hollow cylinder of the hollow chuck can pass from the side of the chuck to the side of the oil cylinder, but the rest can't;

Mold	Item	The chuck can extend into the length A(mm)	chuck hole diameter B(mm)	Maximum rod diameter C(mm)	The thickness of the jaw D(mm)
TC40A series	20" hollow hydraulic chuck with solid cylinder (OP)	152	Φ180	0	73
	20" hollow hydraulic chuck with hollow cylinder (OP)	152	Φ180	Φ98	73
	21" solid hydraulic chuck with solid cylinder (OP)	76	0	0	76
	24" hollow hydraulic chuck with solid cylinder (OP)	160	Φ205	0	73
	24" hollow hydraulic chuck with hollow cylinder (OP)	160	Φ205	Φ98	73

Tool system-TC35A



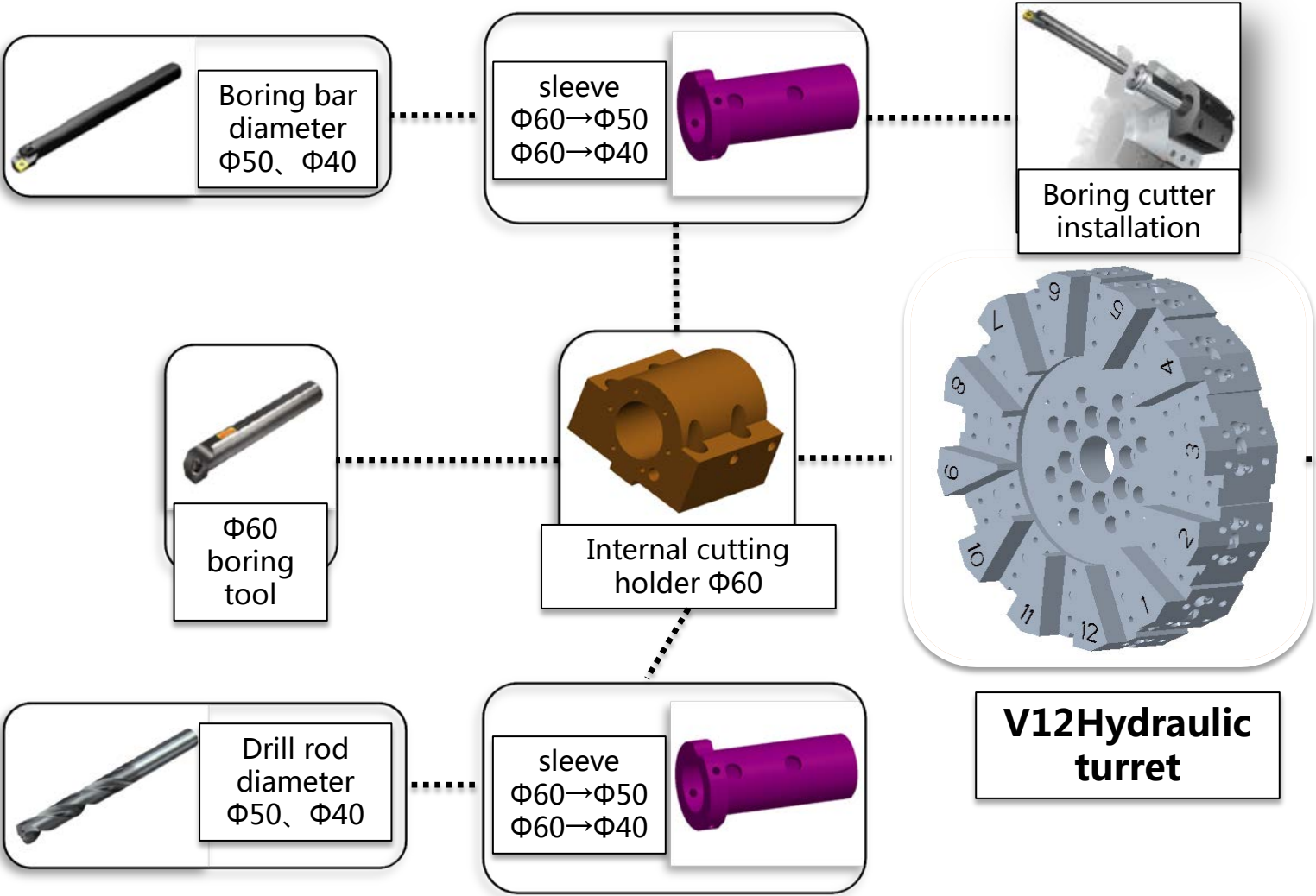
Name	Spc	Qu
Reducing sleeve (STD)	Φ50-Φ40	1
	Φ50-Φ32	1
	Φ50-Φ25	1
	Φ50-Φ20	1



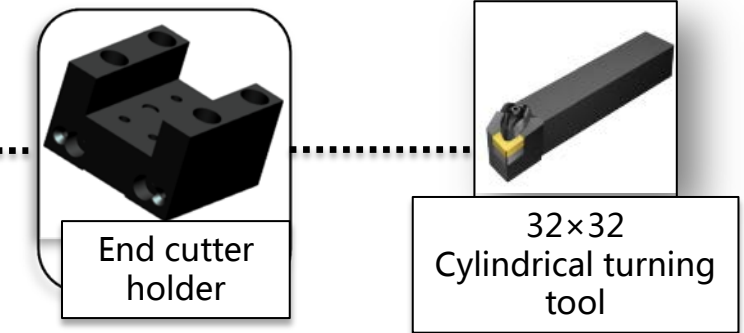
Name	Spc	Qu
Boring tool holder (STD)	Φ50	3
End cutter holder (STD)	32×32	1

V12Hydraulic turret

Tool system -TC40A

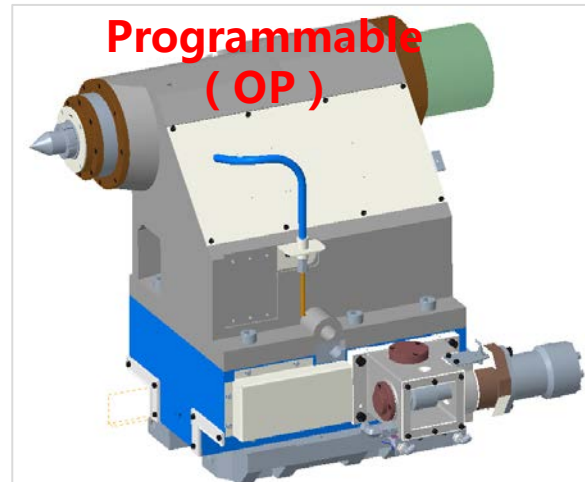
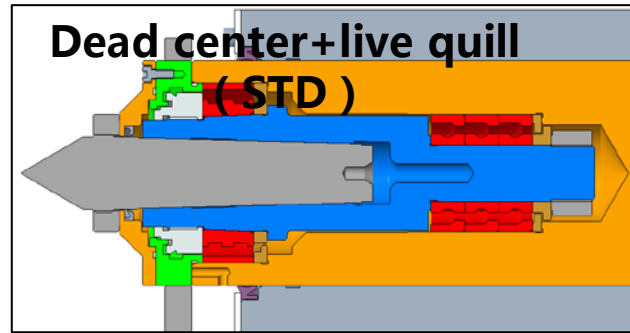


Name	Spc	Qu
Reducing sleeve (STD)	Φ60→Φ50	2
	Φ60→Φ40	2



Name	Spc	Qu
Boring tool holder (STD)	Φ60	3
End cutter holder (STD)	32×32	1

Tailstock parameters



The condition of Max. clamping workpiece weight :

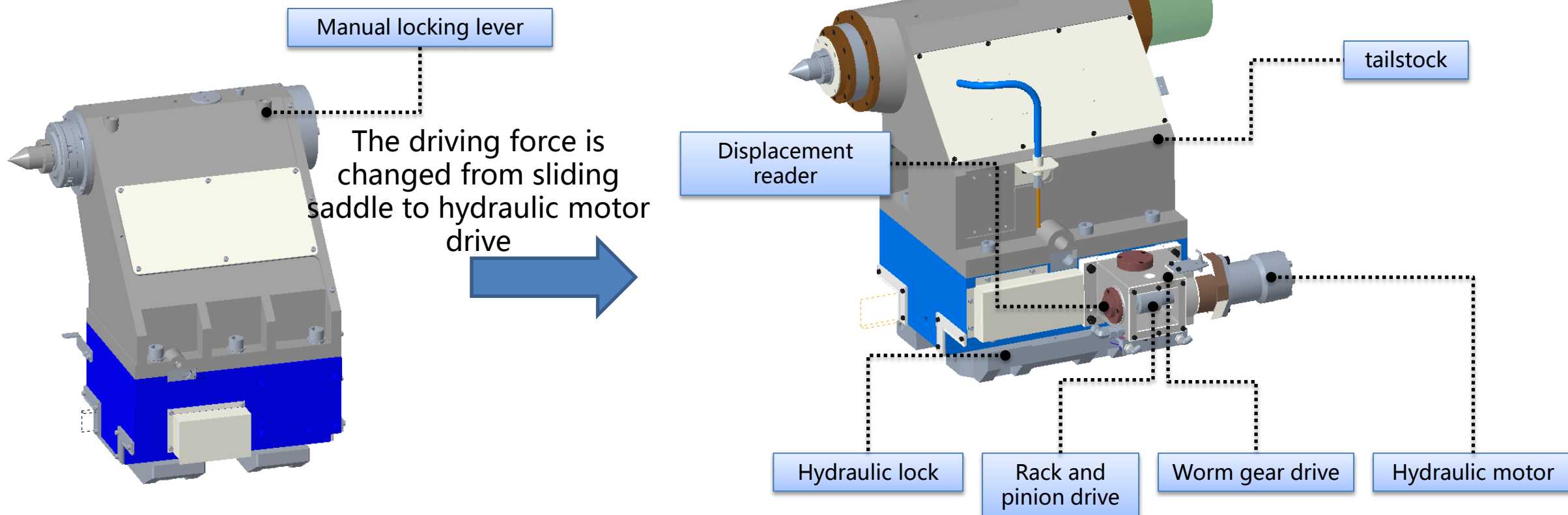
1. The workpiece must be regular and balanced in quality
2. The center of gravity of workpiece must be on the axis of the part
3. The data is only for reference

item	unit	TC35A series	TC40A series
Quill diameter	mm	Φ130	Φ160
Quill travel	mm	120	150
Quill bore taper	-	MT.NO.5	
STD	-	Dead center+live quill	

item	-	Applicable conditions
Dead center+ live quill	STD	Heavy load
Programmable	Option	1, end face and outer circle or inner hole processing 2. Frequent change of production (part length changes) 3. Automatic production

Model	unit	Max. clamping workpiece weight (std chuck, max. speed)	
		Chuck + tailstock	Chuck (maximum speed)
TC35A×1000	kg	150	39
TC35A×1500			
TC35A×2000			
TC40A×1500	kg	270	70
TC40A×2750			

Programmable tailstock

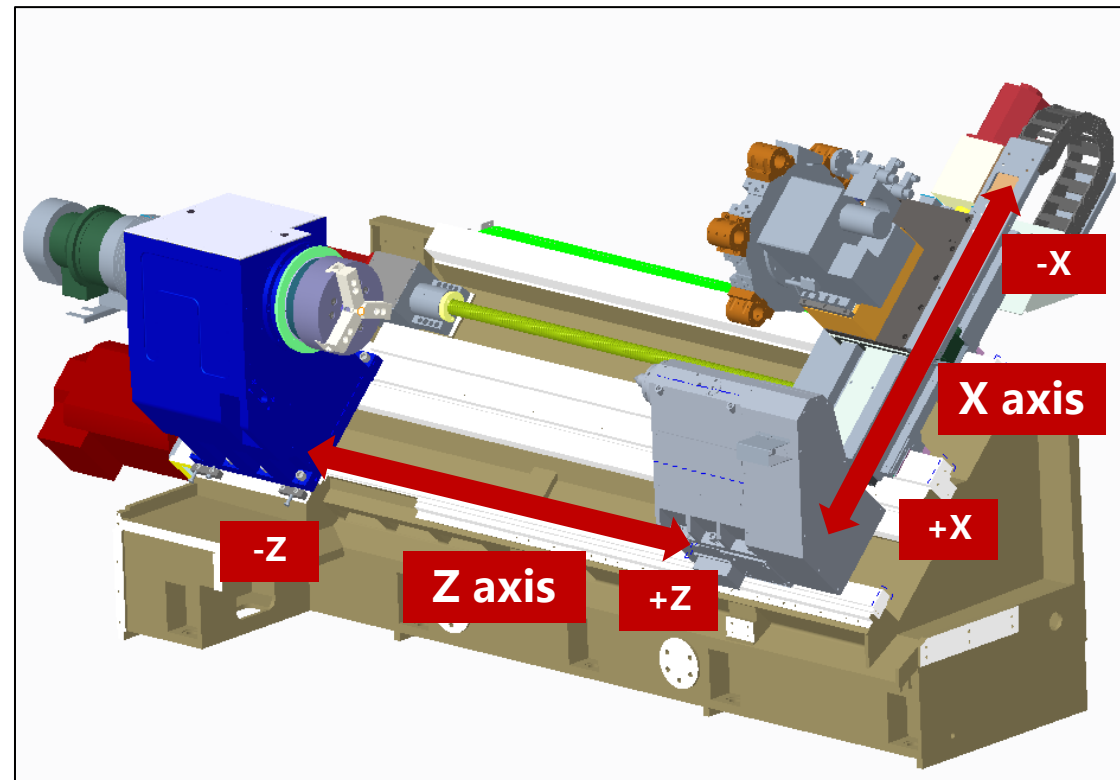


Programmable tailstock parameter					
mold	TC35A×1000	TC35A×1500	TC35A×2000	TC40A×1500	TC40A×2750
尾座行程(mm)	700	1200	1700	1100	2400
快移速度(m/min)	9				

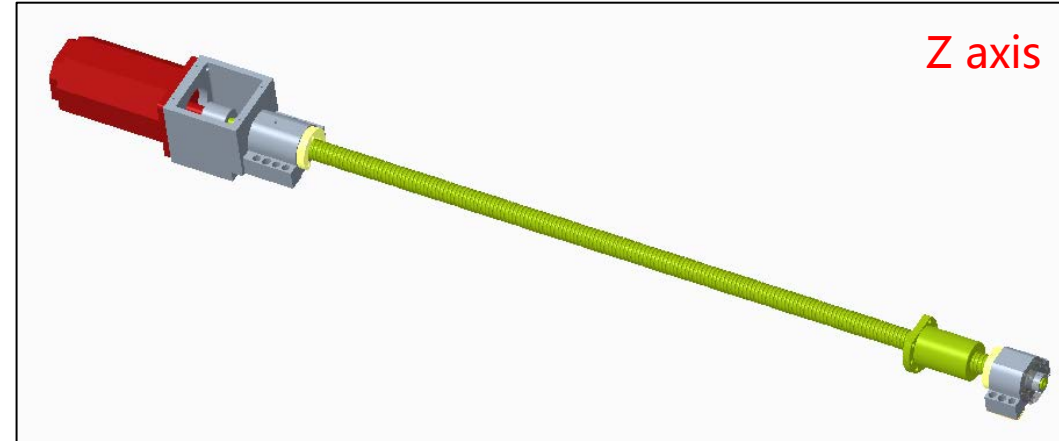
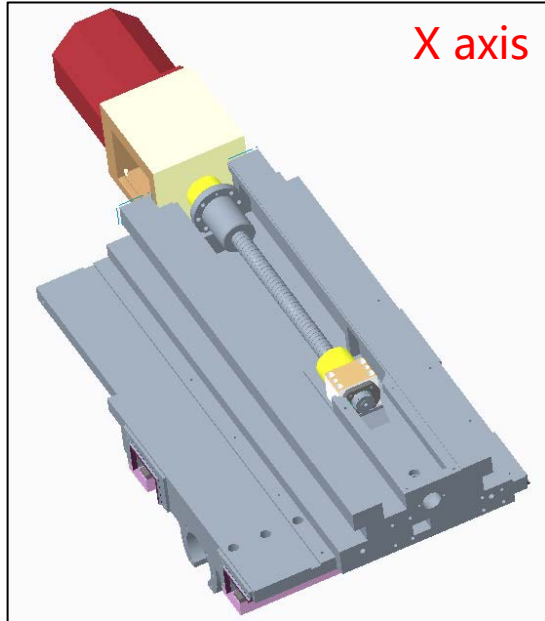
X/Z axis parameter



mold			TC35A×1000	TC35A×1500	TC35A×2000	TC40A×1500	TC40A×2750
X axis	travel	mm	345			410	
	rapid speed	m/min	16			12	
Z axis	travel	mm	1060	1560	2060	1570	2820
	rapid speed	m/min	20		16	12	

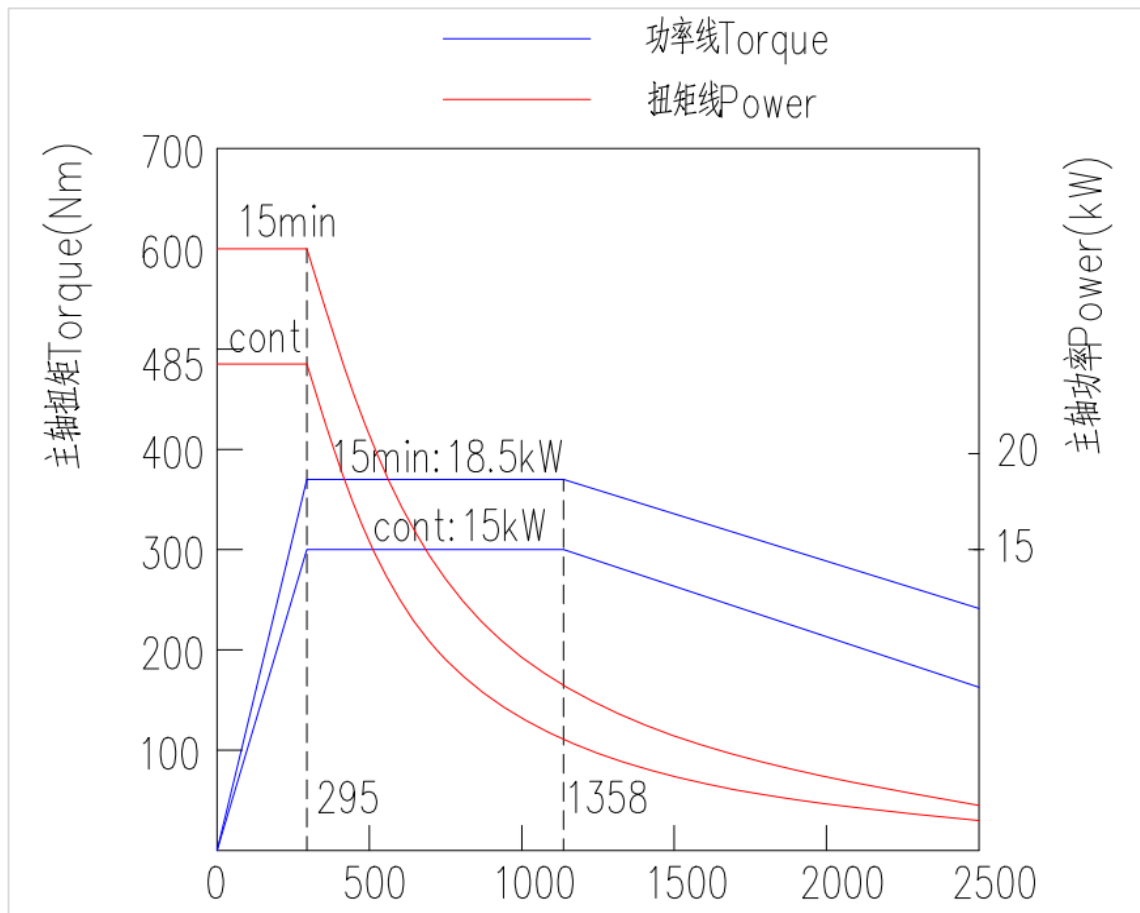


X/Z axis parameter

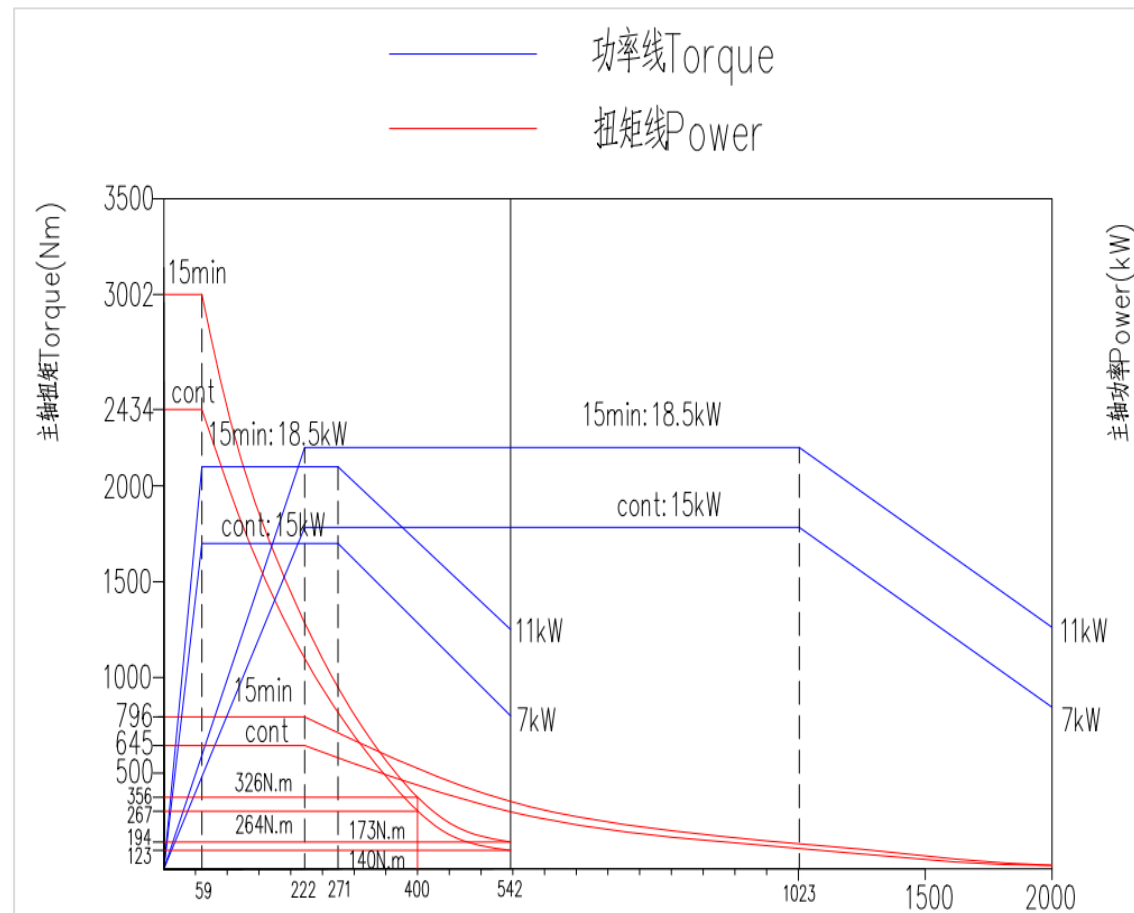


Mold	axis	brand	Ball screw(mm)		Accuracy level
			Outer diameter	lead	
TC35A×1000 TC35A×1500	X/Z	PMI	Φ32/Φ50	8/10	C3/C5
TC35A×2000	X/Z		Φ32/Φ50	8/12	C3/C5
TC40A×1500	X/Z		Φ40/Φ63	6/12	C3
TC40A×2750	X/Z		Φ40/Φ63	6/20	C3/C5

Spindle power



TC35A series power torque diagram



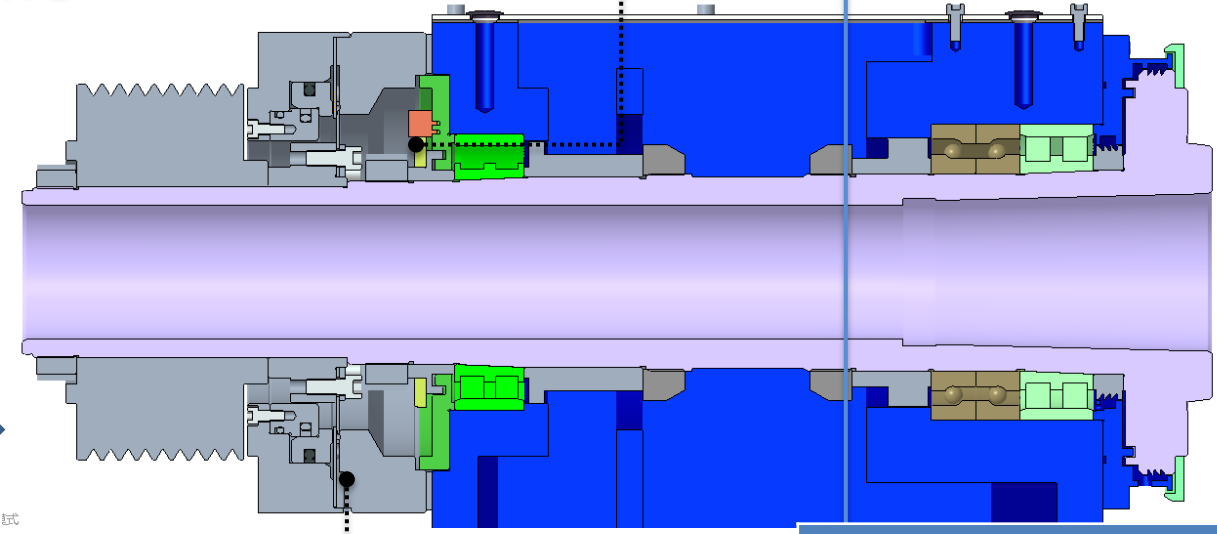
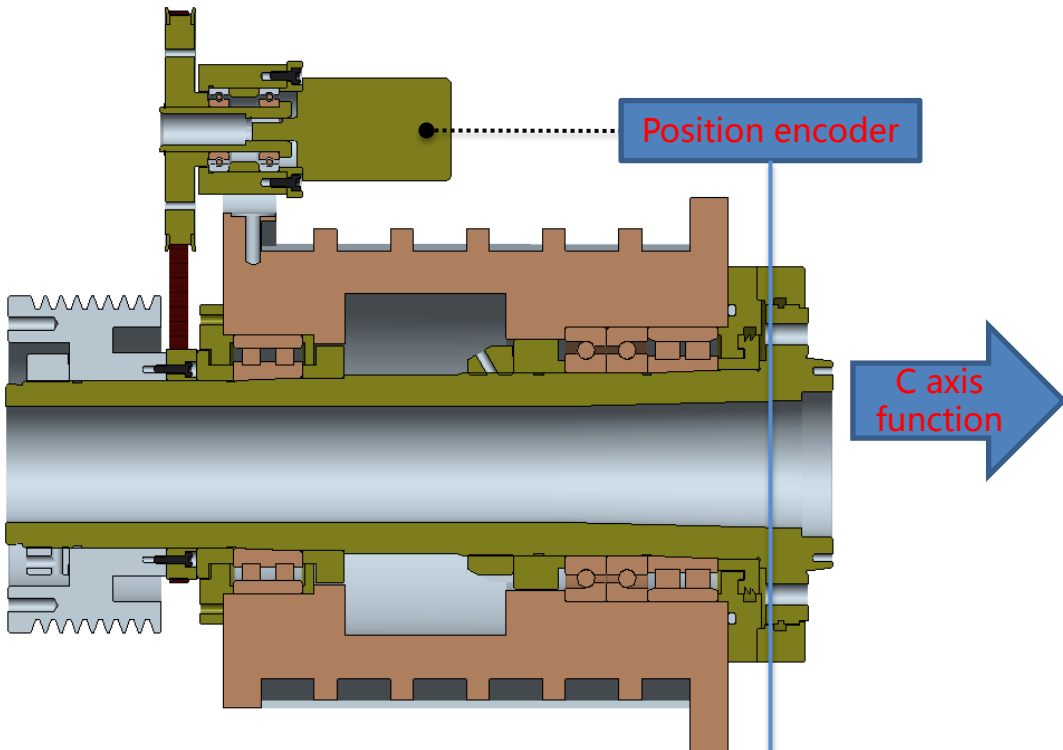
TC40A series power torque diagram

with MC function-parameters



item			TC35AMC×1000	TC35AMC×1500	TC30AMC×2000	item		TC35AMC×1000	TC35AMC×1500	TC30AMC×2000	
scope	Swing over bed Max.	mm	Φ700			Tailstock	Quill diameter	mm	Φ130		
	Swing over carriage Max.	mm	Φ600				Quill tape	-	MT.NO.05		
	Max. Turning diameter	mm	Φ630				Quill travel	mm	120		
	Max. turning length	mm	900	1400	1880		Tail stock travel	mm	700	1200	1700
spindle	Spindle center to floor	mm	1150			turret		-	power BMT75 (12T)		
	Spindle speed	rpm	2500				Tool size	mm	32×32		
	Power (continues/15min)	kW	18.5/22				Maximum boring diameter	mm	Φ50		
	Torque (continues/15min)	Nm	575/684				Adjacent tool change time	s	0.57		
	Spindle nose	-	JISA2-11				Maximum drill diameter	mm	Φ22		
	Spindle bore bar	mm	Φ102				Maximum drill diameter	mm	Φ25		
	bar through spindle	mm	Φ88				Torque	Nm	35/48 (STD/MAX)		
	Chuck size	Inch	12 (option15、 18、 20)				Motor power	kW	5.5/7.5(STD/MAX)		
servo axis	X/Z travel	mm	330/1060	330/1550	330/2060	power capacity	kVA	45			
	X/Z rapid feed	m/min	16/20		16/16	tank	L	250			
	X/Z servo motor power	kW	3.0/4.0			machine weight	T	10.5	11.5	13	
	X/Z position accuracy	mm	0.008/0.012	0.008/0.015	0.008/0.020	system	-	FANUC Oi-TF			
	X/Z repeated position accuracy	mm	0.005/0.008	0.005/0.010	0.005/0.012	machine floor	mm	5380×2200×2200	5800×2200×2200	6400×2350×2400	

With MC function—C axis part , TC35AMC



C axis function

The spindle can be easily positioned

C axis can be accurately positioned
 C axis positioning accuracy: 72"
 C axis repeat positioning accuracy: 36"

Functional change

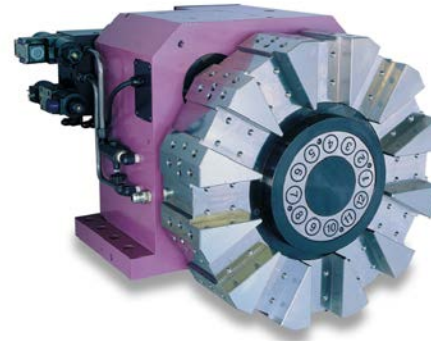
Main change		
Item	TC series	With MC function
Motor	βp	α
spindle positioning	Belt drive	Hydraulic lock
X-axis servo motor	β	α
Z-axis servo motor	β	α
encoder	Position encoder	Ring encoder
Turret	hydraulic	Servo power
system	FANUC (TYPE 5)	FANUC (TYPE 3)
indexing	-	0.01°

Hydraulic turret

With MC function - turret part

Power turret features:

1. Special servo motor drive is used for tool turning and cutting;
2. The power axis is driven by the **spindle motor**, with high torque and low noise;
3. change the tool quickly, and not disorderly tool;
4. The power tool holder conforms to DIN69880 and DIN5480;
5. Repeat positioning accuracy: **0.003mm**;
6. **Three-plate curved tooth clutch structure** ensures accurate positioning.



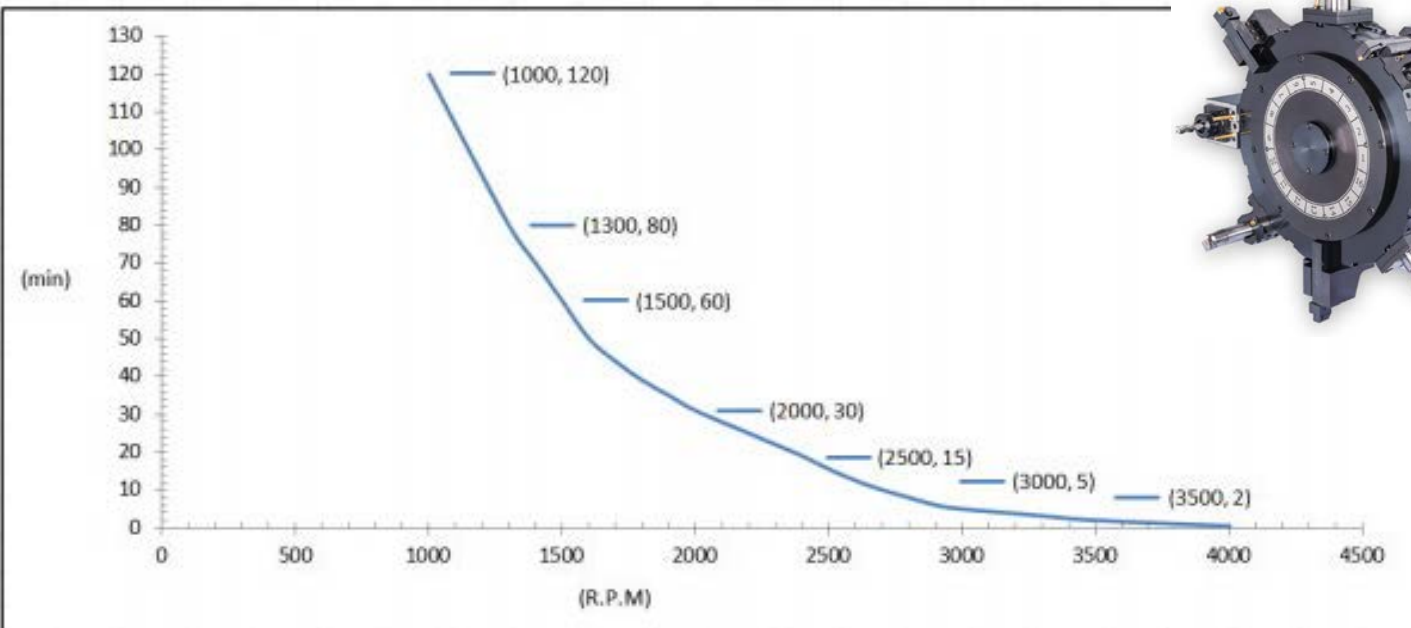
Function change



Power turret

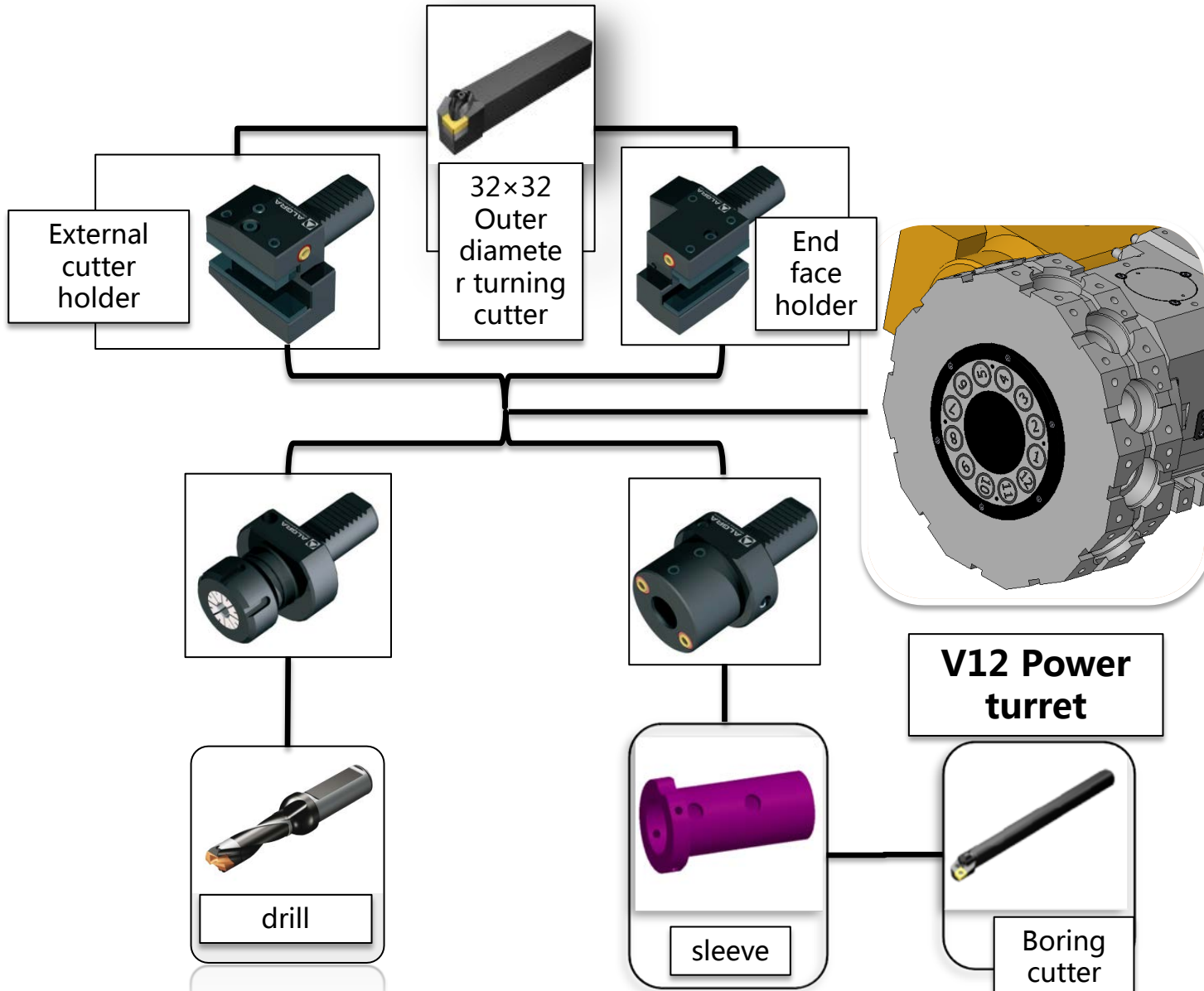
Milling axis parameters

Maximum drill hole diameter	mm	Φ22
maximum extension length of the cutter	mm	80
maximum rigid tapping diameter	-	M18×2/M27×1.5
maximum end milling diameter	mm	Φ25
maximum speed	rpm	3500
motor power	kW	5.5/7.5
transmission ratio	-	1:1
maximum torque	Nm	35/48



Turret milling axis time and speed curve diagram

MC function tool system -TC35AMC



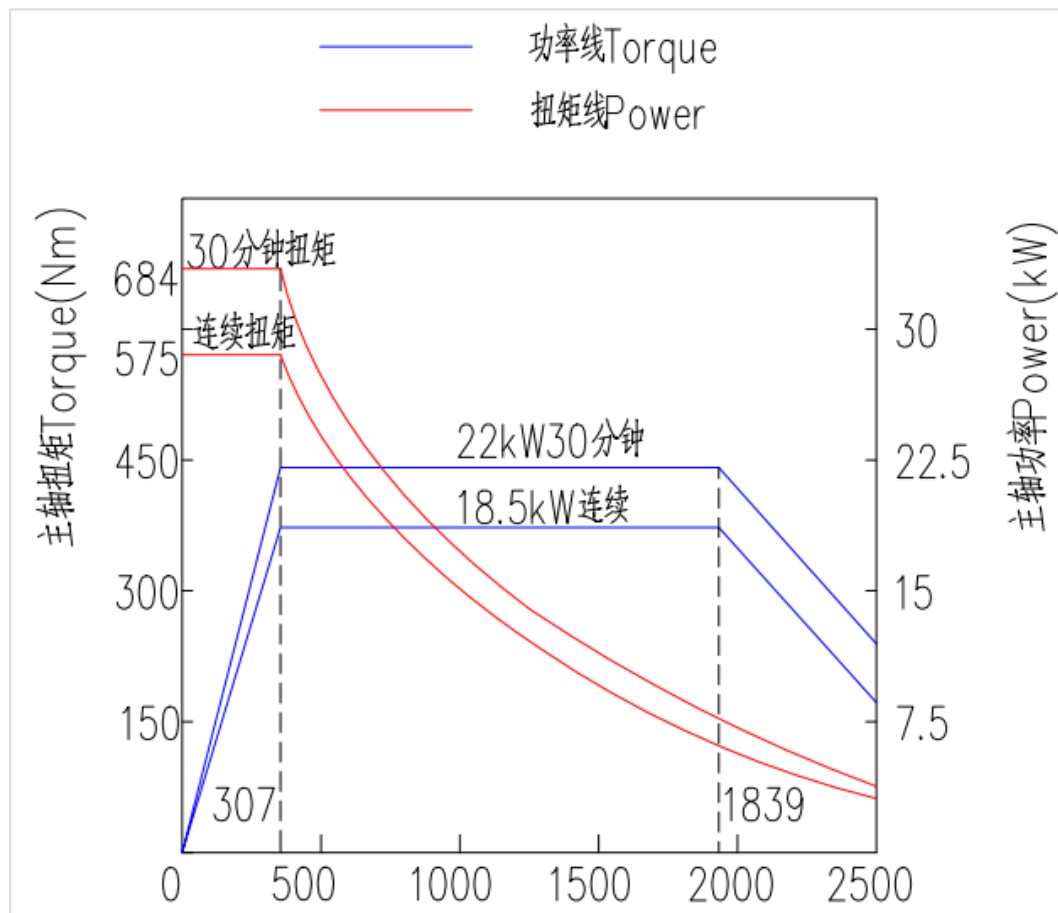
name	SPC	Qu
Sizing sleeve configuration n(STD)	Φ50→Φ40	1
	Φ50→Φ32	1
	Φ50→Φ25	1
	Φ50→Φ20	1



name	SPC	Qu
Boring cutter holder (STD)	Φ50	4
End cutter holder (STD)	32×32	1
Outer diameter turning cutter holder (STD)	32×32	2
Axial power tool holder (STD)	RAPPS-40-121UT75	1
Radial power tool holder (STD)	RAPPS-40-121UT75	1
collet (STD)	ER40-060	1
	ER40-080	1
	ER40-100	1
	ER40-120	1
	ER40-160	1
	ER40-200	1



MC function - spindle power torque



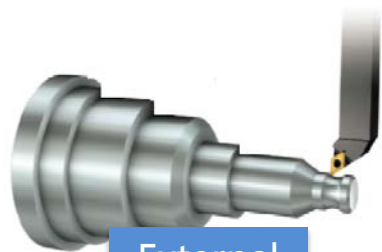
TC35AMC Series power torque diagram

Cutting ability

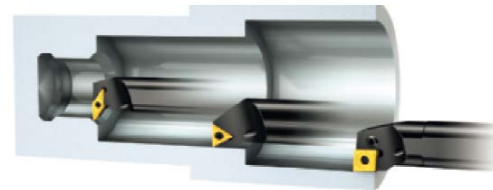
External turning			
	Unit	TC35A	TC40A
material	-	45# steel	
Spindle speed	rpm		
depth	mm		
Feedrate	mm/fz		
Metal removal rate	cm ³ /min		

Inner hole turning			
	Unit	TC35A	TC40A
material	-	45# steel	
Spindle speed	rpm		
depth	mm		
Feedrate	mm/fz		
Metal removal rate	length/dia meter		

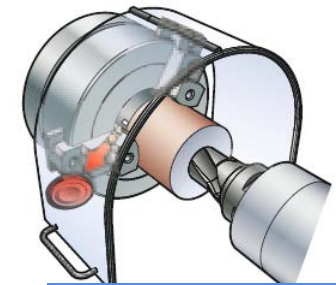
U drill processing			
	Unit	TC35A	TC40A
material	-	45# steel	
Spindle speed	rpm		
depth	mm		
Feedrate	mm/min		
Metal removal rate	cm ³ /min		



External turning



Inner hole turning



U drill processing

Coolant

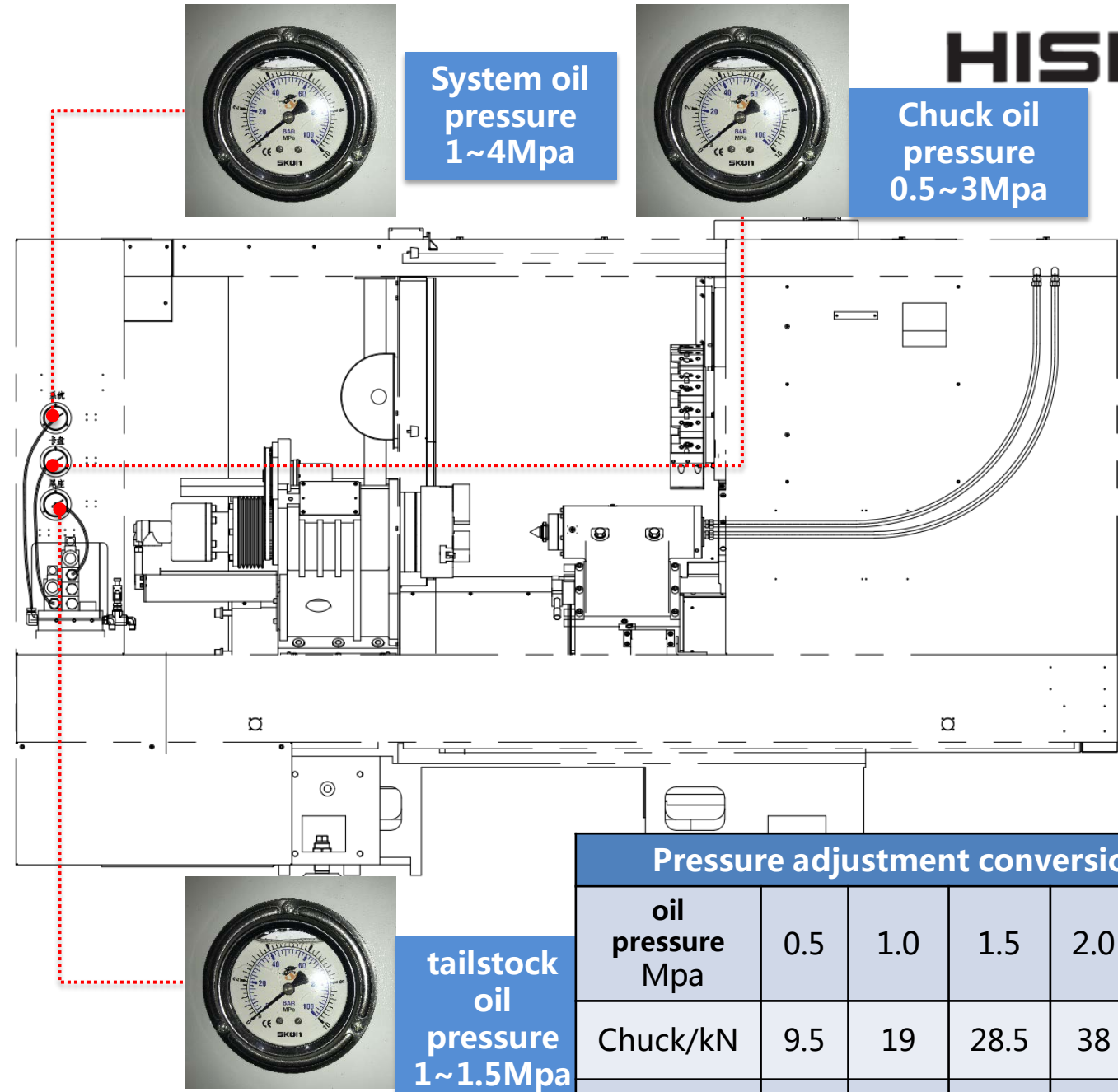


ACP Korea Yalong Submerged Pump (STD)

Cooling pressure	suitable operating mode
0.2~0.4Mpa (STD)	Ordinary water-cooled
≤ 1 Mpa (OP)	Tool internal cooling
≤ 2 Mpa (OP)	1. Large flow cooling 2, tool internal cooling
3~7Mpa (OP)	1. Large flow cooling 2, tool internal cooling 3. Auxiliary chip breaking

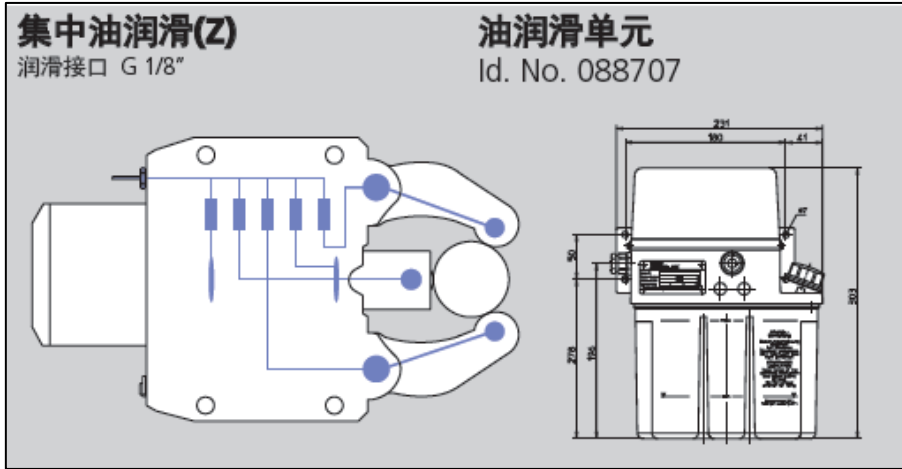
Hydraulic system

Hydraulic station parameter	
System setting pressure (factory standard)	4.5Mpa
System theoretical discharge	32L/min
oil pump motor	2.2kW-4P 380v/50Hz
Running noise	Less 75dB
Allow the temperature rise	15°C-45°C
environment temperature	-5~45°C
Environmental humidity	20~95%RH
Allow the oil temperature	0~80°C
recommended oil	L-HM46
Maximum pressure (adjustment range)	0~6.0Mpa



Pressure adjustment conversion table						
oil pressure Mpa	0.5	1.0	1.5	2.0	2.5	3.0
Chuck/kN	9.5	19	28.5	38	47.5	57
Sleeve/kN	-	1.59	2.39	-	-	-

Option--SMW hydraulic steady rest

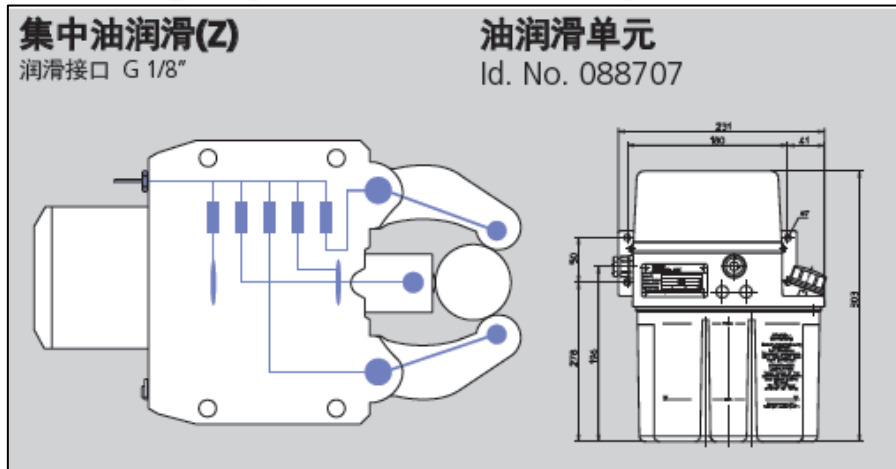


Lubrication interval is 5-20 minutes
 Minimum/maximum operating pressure 10-45bar
 Lubricating oil: viscosity 46mm²/s(viscosity grade ISO)



Mold	unit	SLU-X3.1	SLU-X3.2	SLU-X4	SLU-X5
Clamp Scope	mm	Φ20-Φ165	Φ50-Φ200	Φ30-Φ245	Φ45-Φ310
Repeated positioning accuracy	mm	0.007	0.007	0.007	0.01
positioning accuracy	mm	0.04	0.04	0.05	0.06
Maximum linear speed of roller	m/min	725	725	715	700
Minimum/maximum working pressure	bar	8/45	8/45	8/50	8/60
Maximum clamping force	kN	10	10	15	20

option-autoling hydraulic steady rest



Lubrication interval is 5-20 minutes
 Minimum/maximum operating pressure 10-45bar
 Lubricating oil: viscosity 46mm²/s(viscosity grade ISO)

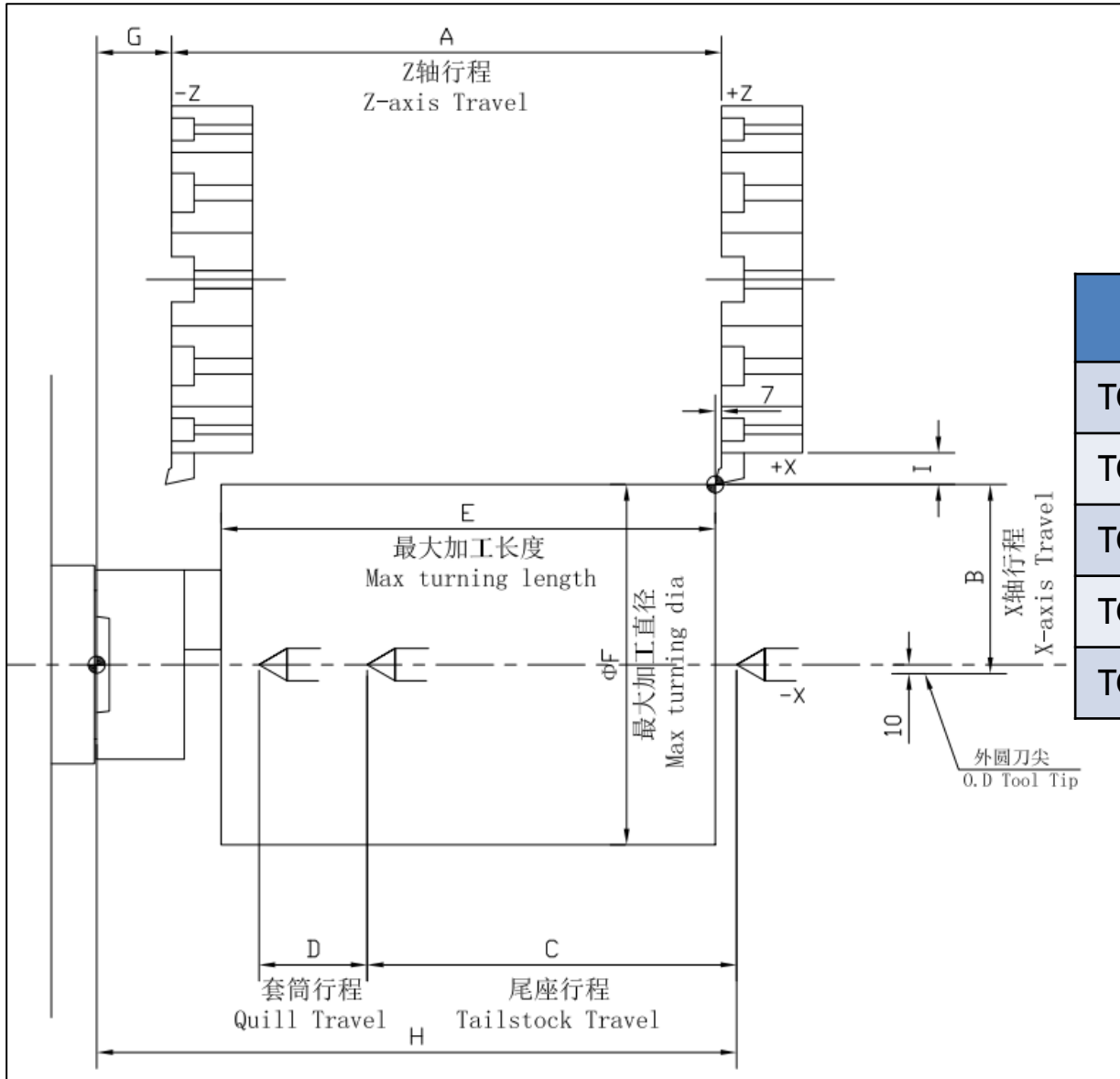
Mold	unit	TSC-3.1	TSC-3.2	TSC-4	TSC-5
Clamp Scope	mm	Φ20-Φ165	Φ50-Φ200	Φ30-Φ245	Φ45-Φ310
Repeated positioning accuracy	mm	0.007	0.007	0.007	0.01
positioning accuracy	mm	0.04	0.04	0.05	0.06
Maximum linear speed of roller	m/min	725	725	715	700
Minimum/maximum working pressure	bar	8/60	8/60	8/60	8/80
Maximum clamping force	kN	10	10	15	20

Machine remaining options configuration table

	<p>tool setter(Renishaw)</p>		<p>Solid chuck(auto strong)</p>		<p>hollow chuck(auto strong)</p>		<p>Oil mist colleter</p>
	<p>Air gun</p>		<p>Hard jaw</p>		<p>Oil skimmer</p>		<p>A/C</p>
	<p>Solid cylinder (auto strong)</p>		<p>hollow cylinder (auto strong)</p>		<p>Soft jaw</p>		

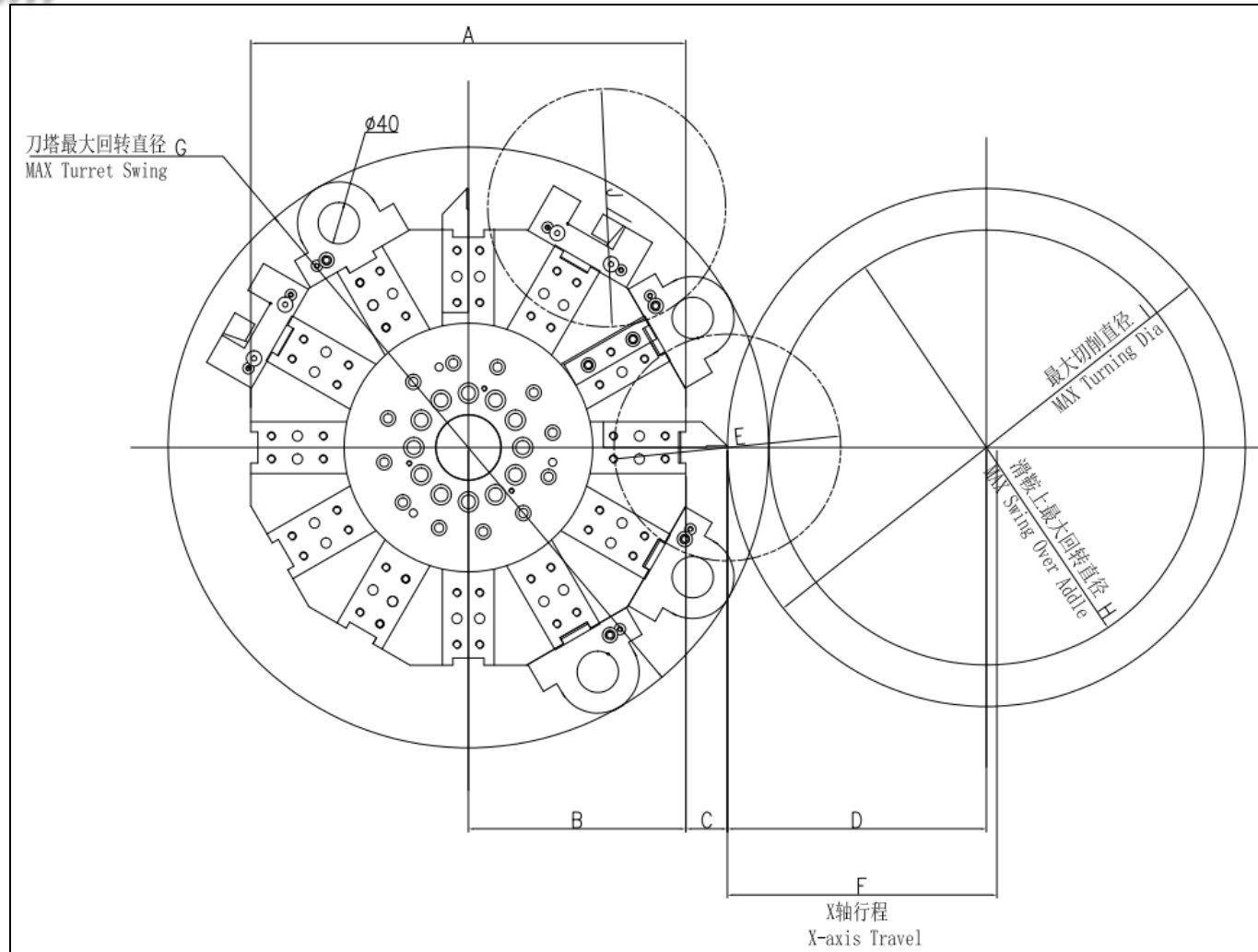
Note: the pictures in the table are only for schematic effect, not for final product configuration

Processing scope



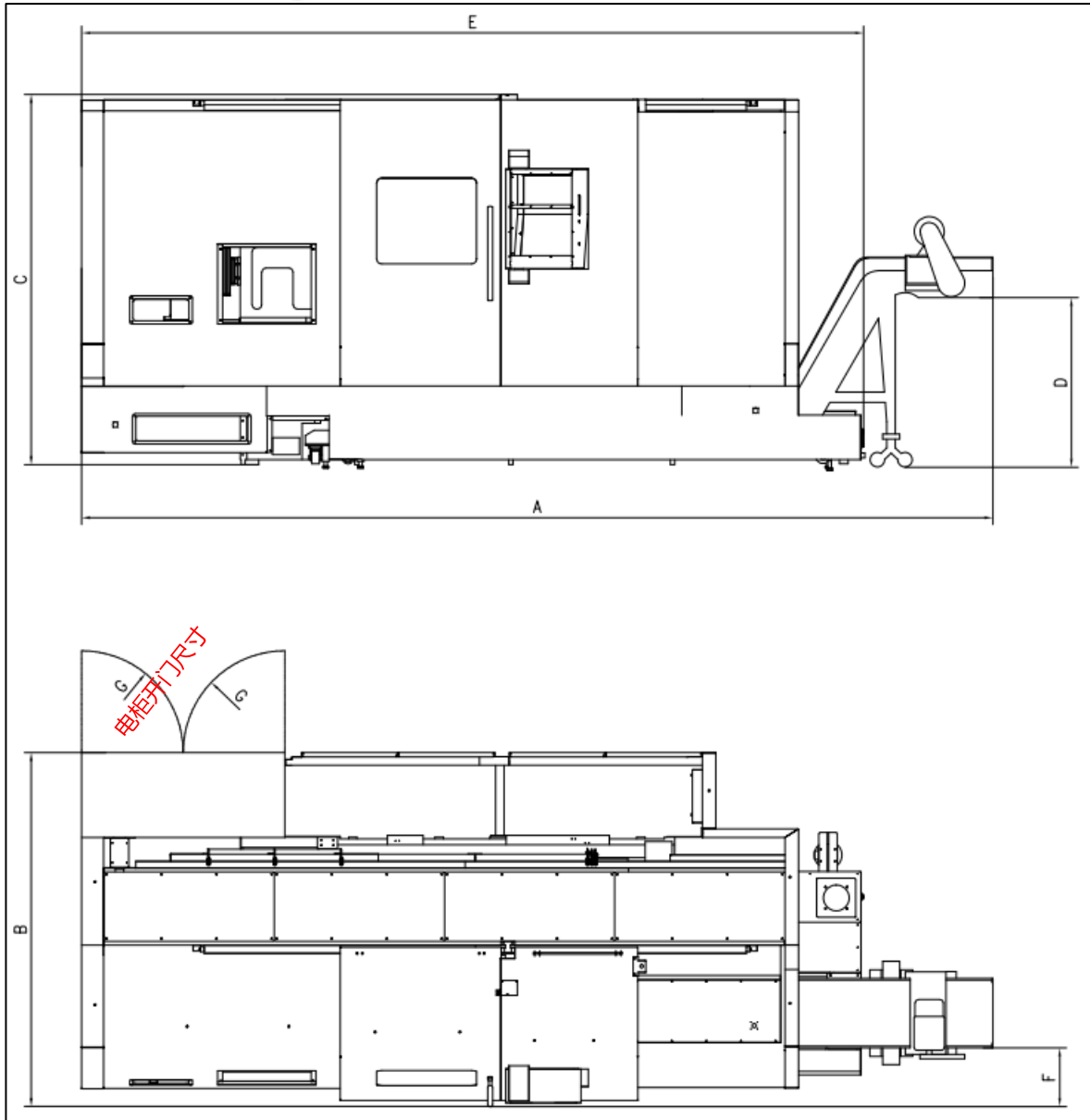
mold	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
TC35A×1000	1060	345	700	120	1000	630	120	1180	45
TC35A×1500	1560		1200		1500			1680	
TC35A×2000	2060		1700		2000			2180	
TC40A×1500	1570	410	1100	150	1500	800	85	1635	40
TC40A×2750	2860		2400		2750			2935	

turret interferogram



mold	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	J(mm)
TC35A	480	240	45	325	Φ245	345	Φ670	Φ600	Φ630	Φ250
TC40A	530	265	40	400	Φ255	410	φ580	Φ748	Φ800	Φ262

Machine profile size



mold	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
TC35A×1000	5380	2200	2200	1000	4618	348	600
TC35A×1500	5800				5020	348	580
TC35A×2000	6400	2350	2400		5630	368	
TC40A×1500	6410	2600	2375	1265	4765	580	750
TC40A×2750	7600	2850	2560	1220	6677	720	

System main function list



No.	Function	Description	No.	Function	Description
1	Number of control axis	2 axis	16	Manual interruption and recovery	
2	Controlled Aixs Simultaneously	2 axis	17	dry running	
3	Minimum input increment	0.001mm	18	Single paragraph	
4	Flexible gear ratio		19	JOG feedrate	
5	Servo HRV control		20	Manual reference point return	
6	Metric/imperial switching		21	Hand wheel feed rate	X1 , X10 , X100
7	Interlock		22	Rapid positioning	G00
8	Machine interlock		23	line interpolation	G01
9	Over travel alarm		24	Multi-quadrant circular interpolation	G02, G03 can radius command, can be multi-quadrant
10	Storage travel check		25	Feed suspended	G04
11	mirror		26	Multiple thread cutting	
12	Backlash compensation		27	Regression in thread cutting	
13	Pitch error compensation		28	Continuous thread cutting	
14	DNC run		29	Reference point return	G28
15	MDI run		30	The second reference point returns	G30

System main function list



No.	function	Description	No.	Fucation	Description
31	Skip function	G31	46	Coordinate offset	
32	Rapid feedrate		47	Workpiece coordinate system	G52-G59
33	Fast moving rate	F0,25,50,100%	48	Workpiece coordinate system preset	
34	Feedrate per minute		49	Direct measurement of working origin offset	
35	Feedrate per rotation		50	Manual absolute valueON/OFF	
36	Automatic acceleration and deceleration		51	Manual absolute value	A/B/C
37	JOG Feedrate		52	Chamfer/corner R	
38	Error detection		53	Subroutine call	10-fold insert
39	Logo to skip		54	User macro program	
40	Maximum programmable size	±8位	55	Fixed cycle	
41	Application no.	04位	56	Auxiliary function	M3位
42	Serial number	N5位	57	Spindle speed function	S4位
43	Decimal point programming		58	Constant surface velocity control	
44	Plane selection	G18	59	Spindle serial output	
45	Coordinate system setting		60	SPINDLE OVERRIDE	

System main function list



No.	Description	Description	No.	Description	Description
61	First spindle orientation		76	Alarm history display	
62	Circular interpolation		77	Operation history display	
63	Tool compensation number	128	78	Help function	
64	Tool compensation number		79	Running time and parts calculation display	
65	Tool length compensation		80	Actual cutting feedrate display	
66	Tool radius compensation		81	Graphical display	
67	Tool offset value calculator input		82	fault diagnosis	
68	length of the artifact program storage	512K byte	83	Display language dynamic switch	
69	Number of programs that can be stored	400	84	Bi AC servo motor	
70	workpiece programming		85	RS-232 interface	
71	Password function		86	external date input	
72	status display		87	Memory card interface	
73	program display		88	USB interface	
74	Parameter setting and display		89	Bi AC servo main motor	
75	Alarm display		90	Display unit	Color LCE/MDI

HISKIN

