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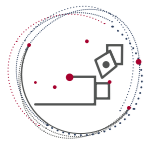


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CNC LATHE

TC II - HTC II

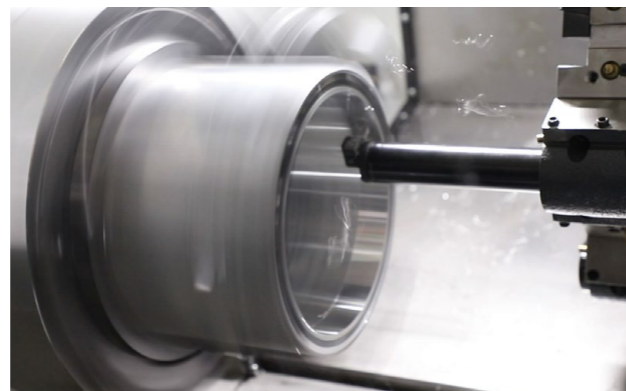
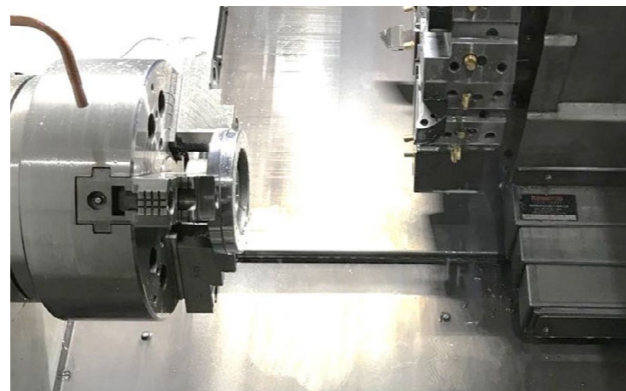
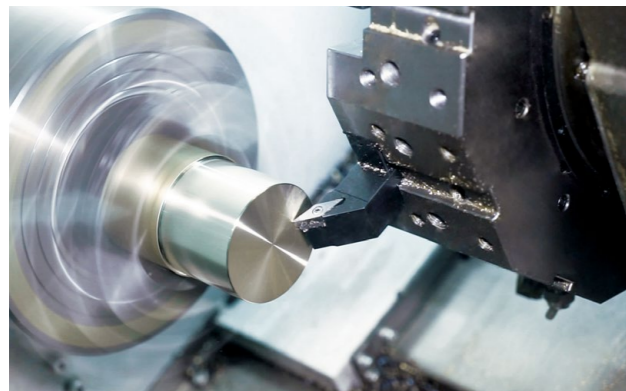
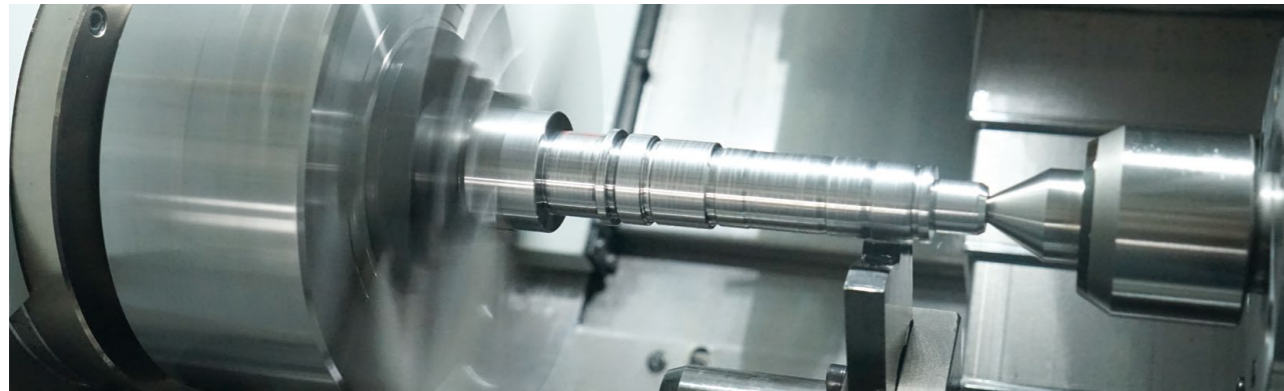
HISION



PRODUCT INTRODUCTION

HTC II series CNC lathes, fully fit the needs of users, focusing on the function characteristics of high precision, high efficiency and high stability. The series is equipped with HISION built-in spindle and servo power turret, the machine can cover ϕ 300- ϕ 520 processing diameter specifications, widely used in automotive parts, general parts industry. Especially suitable for precision machining of small diameter and short shaft products.

TC II series CNC lathes are dedicated to the functions of high rigidity and high stability, aiming to create a cost-effective classic product. This series is a hard rail machine tool, equipped with mechanical spindle and hydraulic turret, can cover ϕ 400- ϕ 800 processing diameter specifications, widely used in automotive parts and general industry. Especially suitable for heavy duty cutting of large diameter and long shaft products.



HTC II / TC II CNC LATHE

HTC150 II [Page 07]

HTC200 II [Page 07]

HTC300 II [Page 07]



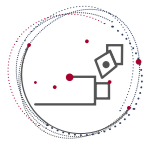
TC25 II [Page 08]

TC30 II [Page 08]

TC35A [Page 09]

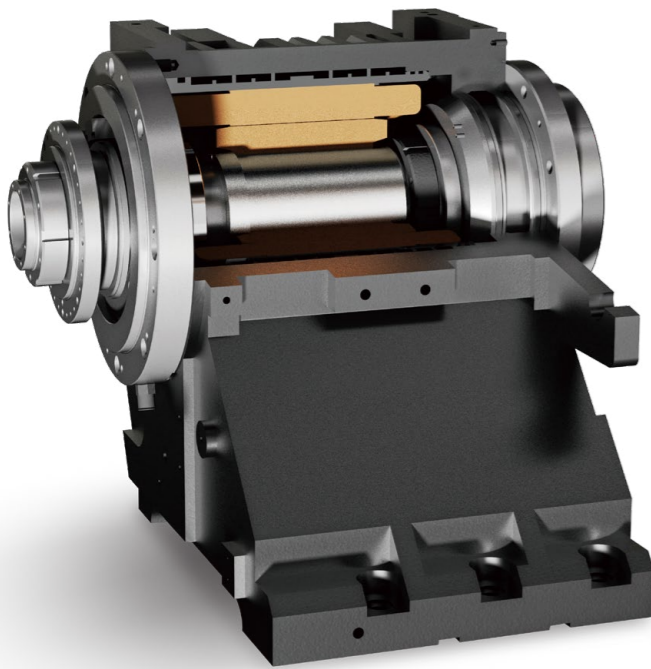
TC40A [Page 10]





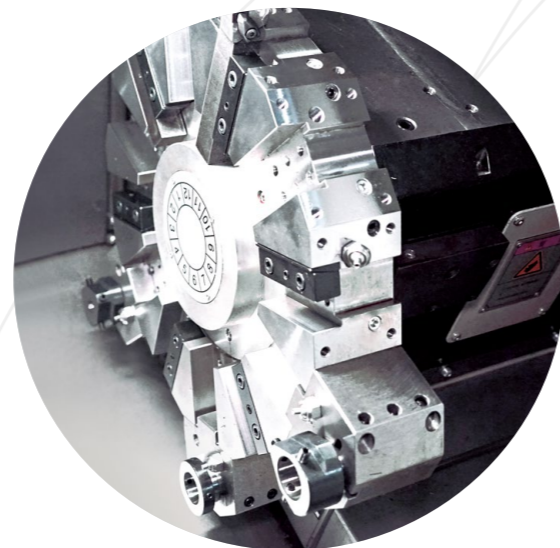
HTC II

The new generation HTC II series CNC lathe adopts the whole casting bed structure, reasonable reinforcement cavity layout, through the finite element analysis, minimizes the vibration, distortion and thermal deformation, with good thermal stability and long-term accuracy retention.



Full Series Servo Turret (Optional Power Turret)

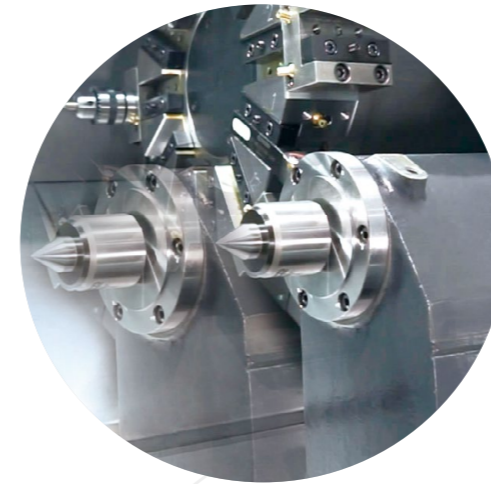
The whole series of HTCII lathes are equipped with servo turret, which is fast in positioning and reliable in transmission link. The application of servo turret realizes the synchronous tool change in the process of machine zeroing and improves the production efficiency.



Full Range of Built-In Spindle

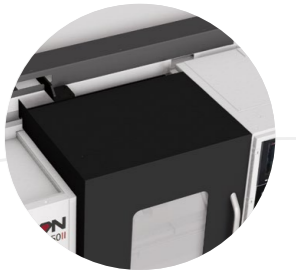
- The spindle is driven directly by the built-in motor, without other transmission links, to achieve "zero transmission" of the machine tool, good reliability.
- Static and dynamic high precision, good stability.
- Built-in spindle speed up and down, short start and stop time, improve production efficiency.
- It satisfies both low speed and high torque and high speed performance.

HTC II



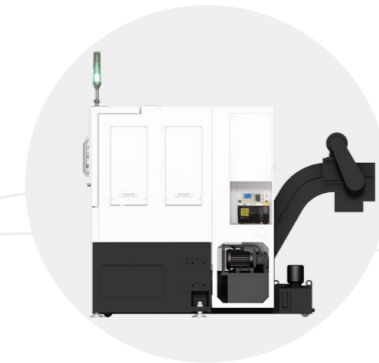
Rear Chip Removal

HTC II series adopts rear chip mode, compact structure, small footprint, suitable for automatic processing.



Automatic Protection Module

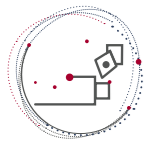
Automatic door, automatic skylight modular design, convenient installation.



Servo Tailstock (Option)

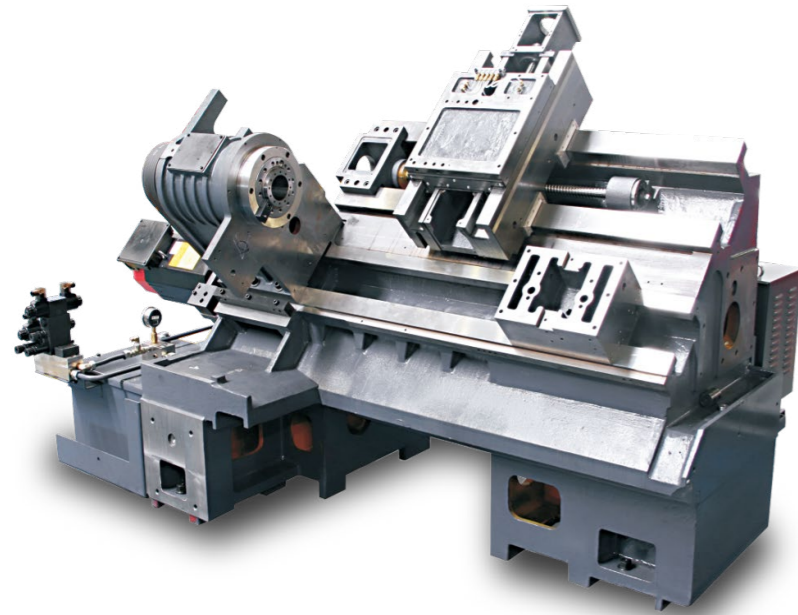
Servo motor control, quick response, accurate control of position and jacking force. Easy to automate.





TC/ TC II

TC series CNC lathes adopt 45° integral casting bed structure and hardened grinding guide rail form. All castings are optimized by finite element analysis to ensure high precision and high stability of the machine tool. Perfect automatic interface, modular automatic protection design, for the rapid implementation of automation to provide a guarantee.



45° Integral Inclined Bed

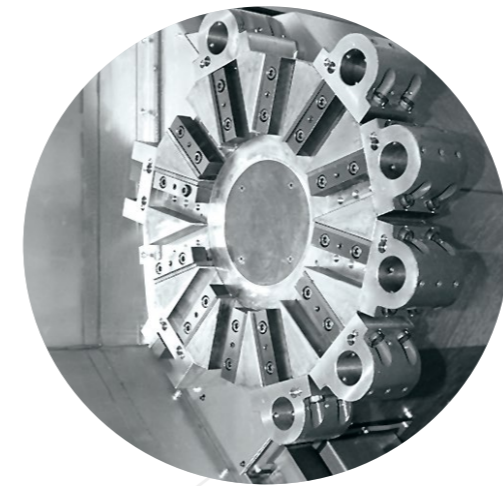
The integral 45° inclined bed realizes the high rigidity, high stability and easy chip removal of the lathe. The guide rail has been hardened and finely ground, and wear-resistant soft belt is pasted on the sliding surface.



High Rigidity Spindle

The whole series adopts imported bearings, two points support, front end adopts double row cylindrical roller bearings and high-speed thrust angular contact bearings, rear end adopts double row cylindrical roller bearings, strong rigidity, suitable for heavy cutting and precision cutting.

TC/ TC II



Customized Cutter Head (Optional Power Cutter Tower)

TC series standard with 12 station hydraulic turret, suitable for heavy cutting. Customize the cutter head, so that the rigidity of the cutter block and the tool interference area is small.

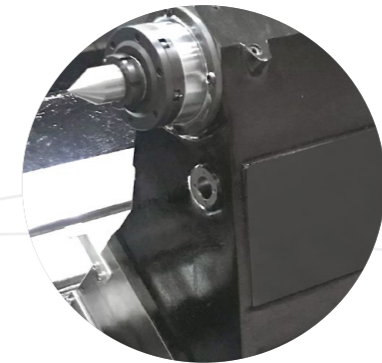
Hydraulic Tailstock

Split tailstock structure, convenient and reliable adjustment; The whole movement of the tailstock is driven by the saddle; The telescopic sleeve is driven by hydraulic pressure and can be controlled programmatically.



Automatic Protection Module

Automatic door, automatic skylight modular design, convenient installation.





HTC II

Items	Unit	HTC150 II × 290	HTC200 II × 360	HTC200 II × 560	HTC300 II × 580
» Working Area					
Max.swing over bed	mm	Φ550	Φ620	Φ620	Φ620
Max.swing over saddle	mm	Φ300	Φ410	Φ410	Φ420
Max.turning diameter	mm	Φ300	Φ400	Φ400	Φ520
Max.turning length	mm	290	360	560	600
Spindle center to ground	mm	1030	1035	1035	1110
» High Speed Motorized Spindle					
Max.spindle speed	rpm	4500	4500	4500	3500
Spindle power (continuous/30min overload)	kW	11/15	11/15	11/15	15/18.5
Spindle torque	Nm	158/211	158/211	158/211	251/305
Spindle nose taper	-	JISA2-6	JISA2-6	JISA2-6	JISA2-8
Spindle through hole	mm	Φ62	Φ66	Φ66	Φ76
Spindle bearing diameter	mm	Φ100	Φ100	Φ100	Φ120
Chuck size	inch	8	8	8	10
» Turret					
Type	-	Servo V8	Servo V12	Servo V12	Servo V12
OD tool size	mm	25×25	25×25	25×25	25×25
Max. boring bar size	mm	Φ32	Φ40	Φ40	Φ40
Indexing time	sec/step	0.2	0.2	0.2	0.2
» Tailstock					
Tailstock type	-	-	-	Hydraulic	Hydraulic
Tailstock travel	mm	-	-	550	500
Quill taper	-	-	-	MT.NO.5	MT.NO.4
» Feed Shaft					
X/Z axis travel	mm	180/345	215/415	215/615	280/695
Rapid feed X/Z axis	m/min	30/30	24/30	24/30	24/30
Guideway type	-	Linear guideway	Linear guideway	Linear guideway	Box guideway
X/Z axis power	kW	1.2/1.2	1.8/1.8	1.8/1.8	3/3
» Others					
Power capacity	kVA	30	35	35	35
Machine weight	t	3.8	4.2	4.8	5.3
Machine size(LxWxH) (without conveyor)	cm	188×160×176	282×185×175	310×185×175	260×180×214

Standard Configuration

- | | | |
|--|--|--|
| 1. Controller: FANUC 0i
SIEMENS 828D (Option) | 6. Hydraulic tailstock with live center
(without HTC150II & HTC200II × 360) | 11. Soft jaw |
| 2. Cutting cooling | 7. Tool holder | 12. 3-Color signal lamp, working light |
| 3. Full enclosure | 8. External chain type chip conveyor (rear) | 13. Foot switch |
| 4. Servo turret | 9. Standard accessories | 14. Safety lock door |
| 5. Soild hydraulic chuck | 10. Common maintenance tool | 15. Trolley |
| | | 16. Ground installation |

TC II

Items	Unit	TC25 II × 500	TC25 II × 1000	TC30 II × 500	TC30 II × 1000	TC30 II × 1500
» Capacity						
Swing over bed dia	mm	Φ560	Φ560	Φ650	Φ650	Φ650
Swing over saddle	mm	Φ320	Φ320	Φ420	Φ420	Φ420
Max.turning dia	mm	Φ400	Φ400	Φ500	Φ500	Φ500
Max.turning length	mm	548(≤ Φ320)	1000(≤ Φ320)	500(≤ Φ420)	1000(≤ Φ420)	1490(≤ Φ420)
Chuck size	inch	8	8	10	10	10
Bar capacity dia	mm	Φ50(OptΦ65)	Φ50(OptΦ65)	Φ64(OptΦ88)	Φ64(OptΦ88)	Φ64(OptΦ88)
» Travel/rapid						
X/Z travel	mm	210/610	210/1050	260/580	260/1050	260/1550
X/Z rapid traverse	m/min	24/30	24/30	16/20	16/20	16/20
» Spindle						
Spindle type	-	Belt spindle	Belt spindle	Belt spindle	Belt spindle	Belt spindle
Max.spindle speed	rpm	4500	4500	3500	3500	3500
Main spindle motor power	kW	11/15	11/15	15/18.5	15/18.5	15/18.5
Max.Spindle torque	Nm	140/250	140/250	245/400	245/400	245/400
Spindle nose	-	A2-6	A2-6	A2-8	A2-8	A2-8
Spindle bearing diameter(Front)	mm	Φ100	Φ100	Φ120	Φ120	Φ120
» Turret						
Turret type	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Turret capacity	-	12	12	12	12	12
OD tool size	mm	25×25	25×25	25×25	25×25	25×25
Boring bar dia.	mm	Φ40	Φ40	Φ40	Φ40	Φ40
Tool changing time(including clamp)	s	0.55	0.55	0.58	0.58	0.58
» Tailstock						
Tailstock type	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailstock travel	mm	410	730	410	730	1100
Quill dia.	mm	Φ100	Φ100	Φ100	Φ100	Φ100
Quill travel	mm	120	120	120	120	120
Quill bore taper	-	MT NO.4	MT NO.4	MT NO.5	MT NO.5	MT NO.5
» Motor						
X/Z motor power	kW	1.8/1.8	1.8/1.8	2.5/2.5	2.5/2.5	2.5/2.5
X/Z motor torque	Nm	11/11	11/11	20/20	20/20	20/20
» Others						
Power capacity	kVA	25	25	30	30	30
Coolant tank	L	200	250	200	250	300
Machine weight	t	4.5	5	4.9	5.4	6.3
Machine size(LxWxH) (without conveyor)	cm	420×205×190	460×205×190	420×205×202	460×205×202	535×205×202

Standard Configuration

- | | | |
|---|--|--|
| 1. Controller: FANUC 0i
SIEMENS 828D | 6. Soild hydraulic chuck | 12. Common maintenance tools |
| 2. Hydraulic and lubrication system | 7. Tool holder | 13. Soft jaw |
| 3. Cutting cooling | 8. Tailstock with live quill | 14. 3-color signal lamp, working light |
| 4. Full enclosure | 9. External chain type chip conveyor(side) | 15. Foot switch |
| 5. 12T hydraulic turret station | 10. Standard accessories | 16. Trolley |
| | 11. Ground installation | |



TC

Items	Unit	TC35A×1000	TC35A×1500	TC35A×2000
» Capacity				
Swing over bed dia	mm	Φ700	Φ700	Φ700
Swing over saddle	mm	Φ600	Φ600	Φ600
Max.turning dia	mm	Φ630	Φ630	Φ630
Max.turning length	mm	1000(≤ Φ600)	1500(≤ Φ600)	2000(≤ Φ600)
Chuck size	inch	12	12	12
Bar capacity dia	mm	Φ88(OptΦ113)	Φ88(OptΦ113)	Φ88(OptΦ113)
» Travel/rapid				
X/Z travel	mm	345/1060	345/1560	345/2060
X/Z rapid traverse	m/min	16/20	16/20	16/16
» Spindle				
Spindle type	-	Belt spindle (Opt Gearbox)	Belt spindle (Opt Gearbox)	Belt spindle(Opt Gearbox)
Max.spindle speed	rpm	2500	2500	2500
Main spindle motor power	kW	15/18.5	15/18.5	15/18.5
Max.Spindle torque	Nm	485/600	485/600	485/600
Spindle nose	-	A2-11	A2-11	A2-11
Spindle bearing diameter(Front)	mm	Φ150	Φ150	Φ150
» Turret				
Turret type	-	Hydraulic	Hydraulic	Hydraulic
Turret capacity	-	12	12	12
OD tool size	mm	32×32	32×32	32×32
Boring bar dia.	mm	Φ50	Φ50	Φ50
Tool changing time(including clamp)	s	0.65	0.65	0.65
» Tailstock				
Tailstock type	-	Hydraulic	Hydraulic	Hydraulic
Tailstock travel	mm	700	1200	1700
Quill dia.	mm	Φ130	Φ130	Φ130
Quill travel	mm	120	120	120
Quill bore taper	-	Dead MT NO.5	Dead MT NO.5	Dead MT NO.5
» Motor				
X/Z motor power	kW	3.0/3.0	3.0/3.0	3.0/3.0
X/Z motor torque	Nm	20/20	20/20	20/20
» Others				
Power capacity	kVA	35	35	35
Coolant tank	L	250	290	330
Machine weight	t	9	10	11
Machine size(LxWxH) (without conveyor)	cm	540×220×220	580×220×220	640×235×240

Standard Configuration

- | | | |
|-------------------------------------|--|--|
| 1. Controller: FANUC 0i | 7. Tool holder | 13. Soft jaw |
| 2. Hydraulic and lubrication system | 8. Tailstock with live center | 14. 3-color signal lamp, working light |
| 3. Cutting cooling | 9. External chain type chip conveyor(side) | 15. Foot switch |
| 4. Full enclosure | 10. Standard accessories | 16. Trolley |
| 5. 12T hydraulic turret station | 11. Ground installation | |
| 6. Solid hydraulic chuck | 12. Common maintenance tools | |

TC

Items	Unit	TC40A×1500	TC40A×2750
» Capacity			
Swing over bed dia	mm	Φ800	Φ800
Swing over saddle	mm	Φ650	Φ650
Max.turning dia	mm	Φ800	Φ800
Max.turning length	mm	1500(≤ Φ650)	2750(≤ Φ650)
Chuck size	inch	15	15
Bar capacity dia	mm	Φ98	Φ98
» Travel/rapid			
X/Z travel	mm	410/1570	410/2820
X/Z rapid traverse	m/min	12/12	12/12
» Spindle			
Spindle type	-	Gearbox	Gearbox
Max.spindle speed	rpm	2000	2000
Main spindle motor power	kW	30/37	30/37
Max.Spindle torque	Nm	(L)2910/3574 (M)1134/1392 (H)453/557	(L)2910/3574 (M)1134/1392 (H)453/557
Spindle nose	-	A2-11	A2-11
Spindle bearing diameter(Front)	mm	Φ170	Φ170
» Turret			
Turret type	-	Hydraulic	Hydraulic
Turret capacity	-	12	12
OD tool size	mm	32×32	32×32
Boring bar dia.	mm	Φ60	Φ60
Tool changing time(including clamp)	s	0.85	0.85
» Tailstock			
Tailstock type	-	Hydraulic	Hydraulic
Tailstock travel	mm	1100	2400
Quill dia.	mm	Φ160	Φ160
Quill travel	mm	150	150
Quill bore taper	-	Dead MT NO.5	Dead MT NO.5
» Motor			
X/Z motor power	kW	4/7	4/7
X/Z motor torque	Nm	22/30	22/30
» Others			
Power capacity	kVA	60	60
Coolant tank	L	270	350
Machine weight	t	12.5	14.5
Machine size(LxWxH) (without conveyor)	cm	645×260×240	760×285×260

Standard Configuration

- | | | |
|-------------------------------------|--|--|
| 1. Controller: FANUC 0i | 7. Tool holder | 13. Soft jaw |
| 2. Hydraulic and lubrication system | 8. Tailstock with live center | 14. 3-color signal lamp, working light |
| 3. Cutting cooling | 9. External chain type chip conveyor(side) | 15. Foot switch |
| 4. Full enclosure | 10. Standard accessories | 16. Trolley |
| 5. 12T hydraulic turret station | 11. Ground installation | |
| 6. Solid hydraulic chuck | 12. Common maintenance tools | |