

Slant-Bed Turning Center



鉅基科技股份有限公司 ACCUWAY MACHINERY CO., LTD.







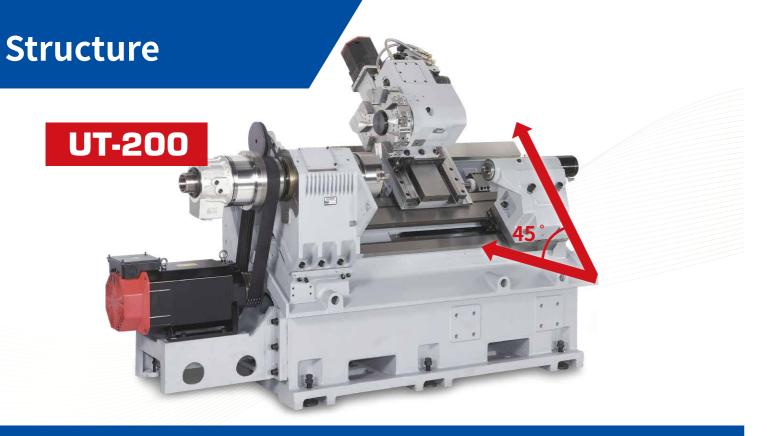
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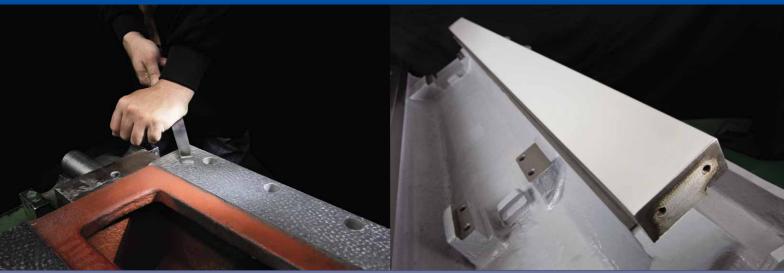


High Quality Meehanite Casting

A heavily ribbed and reinforced one piece Meehanite casting highly reduce the chances of bending and deformation. The UT-200 series is equipped with a 45° slant bed while the UT-300 series has a 30° slant bed.

Designed for Stability

In order to achieve a high standard of machine stability and provide the best machining performance, the base in these machines is designed to have a low center of gravity.



Wide Hardened Boxways

Another high standard aspect is the unique process for induction-hardened and heat treated wide boxways. They are also precision ground to match stringent positioning and repetitive accuracy under various machining requirements.

Expert Hand Scraping

To get the most precise positioning and extend their service life to the maximum, all sliding surfaces are treated with extreme care and proficiency. First, they are coated with a layer of Turcite B and then hand-scraped to create the perfect lubricant retention.

During assembly, professional experts will constantly check and adjust the surfaces flatness, squareness, and straightness and make sure to deliver the best static geometrical accuracy.

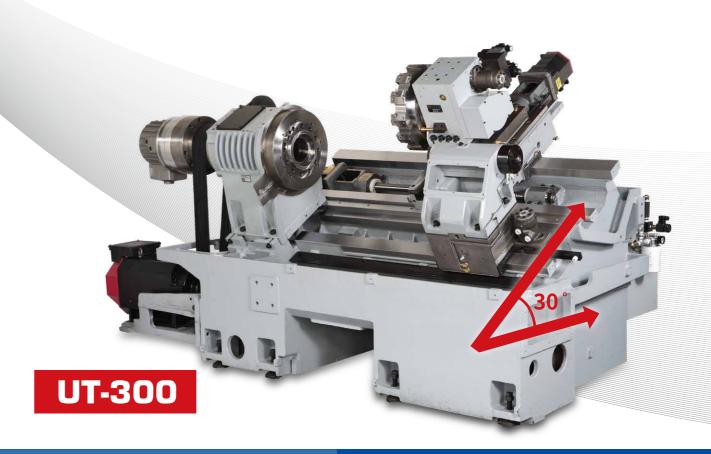
Rigid Shock Absorbing Headstock

To eliminate remaining internal stress arising from casting process, headstocks are naturally seasoned as well as heat treated and annealed twice before precision finishing grinding. They are specially designed to resist cutting force and withstand the extreme demands of continues heavy-duty and step cutting.

Headstock Performance

One of the best headstock design features is the symmetrically placed heat dissipating ribs. They allow the cooling process to take place smoothly and evenly. This minimizes thermal deformation and helps maintaining the circularity and concentricity to achieve the high precision that customers expect.





Precision Assurance

Prior to assembly, all key components will go through a series of functional and dimensional checks using CMM system ensuring they are up to standards.

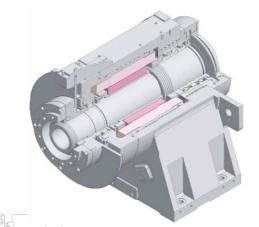
1 UT Series 2

Precision Spindle

Precision In-house Spindle Assembly

Precision belt drive spindles are custom designed and assembled in-house to provide unsurpassed power, long term durability, and peak machining capability.

Each spindle undergoes a dynamic balancing operation to reduce the vibration increasing the machine performance and overall quality.

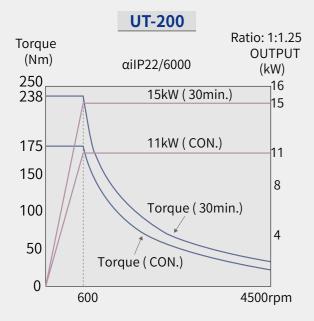


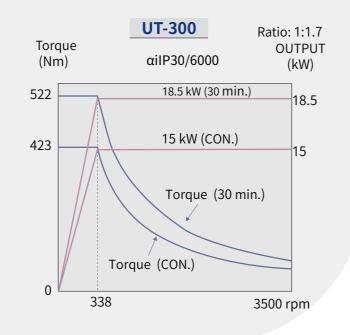


Ballscrew Drive Mechanism

State-of-the-art larger AC servo motors are equipped to provide powerful thrust for high feed rates and accurate cutting. Therefore, large diameter pre-tensioned precision ballscrews are directly connected to the drive mechanism for a backlash free movement.

Spindle Power Chart





High Precision Turrets



BMT Power Turret



Hydraulic Turret



VDI Power Turret

Precision In-house Turret Assembly

All turrets are built in-house with care offering both cam-follower driven hydraulic and servo driven indexing mechanisms. BMT turret is provided as an option as well, covering a wider range of availabilities for clients.

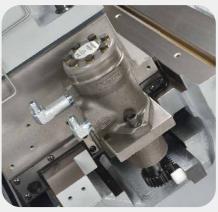
Programmable Tailstock

The tailstocks in the UT series machines can be either manually or automatically controlled. They are located on the same one-piece cast guideway surface aligned with the headstock and main spindle. The UT-200 has a manually controlled tailstock by default and can be upgraded to a programmable one on demand. The UT-300 has a programmable tailstock as a standard option.

A rack and pinion mechanism drives the heavy duty tailstock in the UT-300 series using its high torque to deliver powerful positional locking.







3 UT Series UT Series 4

Peripheral Equipment

BMT(VDI) Power Turret

Live tooling capability for drilling, milling, tapping, and turning plays a major factor in reducing machining time and maintaining the highest accuracy standards. It allows executing different types of job without the need to transfer the parts to another machining station.

Renishaw Tool Setting

With this optional function to check tool wear and compensate worn value automatically, it reduce machining time and increase efficiency dramatically. This setting allows tool life management without down time by maintaining tool geometry with a 5µm repeatability accuracy.

Parts Catcher

A hydraulic parts catcher is available to quickly and automatically transfer parts to an outside collection box or peripheral automation station.

Parts catchers improve productivity by enabling the machine to run unattended, freeing up operators to handle other activities.

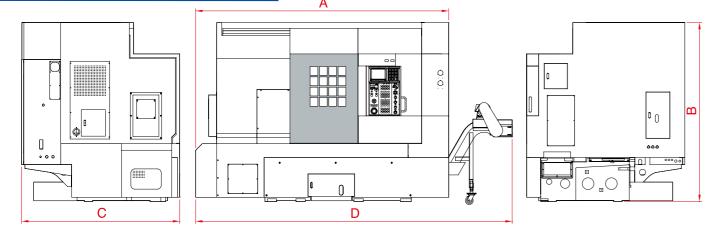


Steady Rest

The steady rest for long workpieces can be programmed for maintaining concentricity and accuracy during machining. Travel is either programmable or manual.



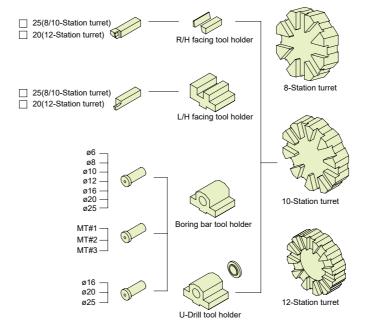
Machine Dimensions



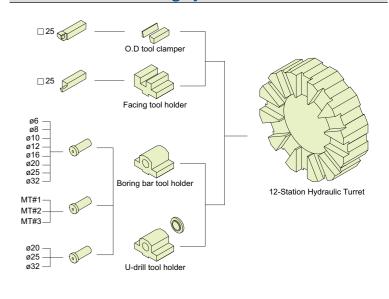
	UT-200 UT-200M	UT-200L UT-200LM	UT-300	UT-300M	UT-300L	UT-300LM	UT-300LX	UT-300LX2	UT-300LX3
Α	2867	3674	3100	3300	39	900	5250	5550	7050
В	1800	1800	1850	1950	1850	1950	2200	2200	2200
С	1600	1600	1850	1850	18	350	2300	2300	2300
D	3500	4300	3800	3850	45	500	6050	6400	7900
	· · · · · · · · · · · · · · · · · · ·								

Tooling System Diagrams

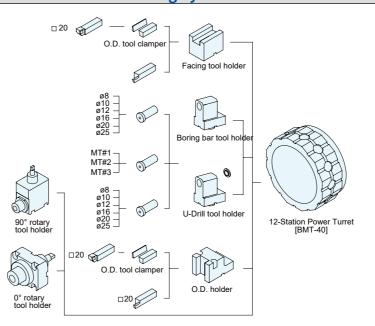
UT-200 Block Tooling System



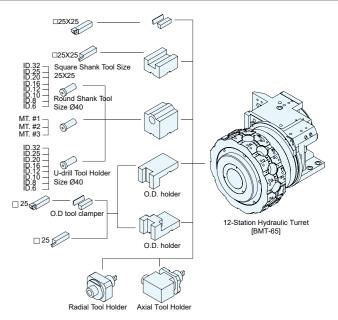
UT-300 Block Tooling System



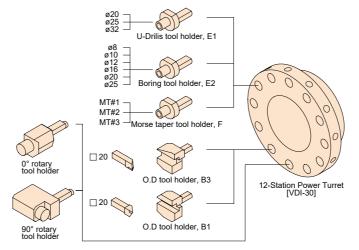
UT-200 BMT-40 Tooling System



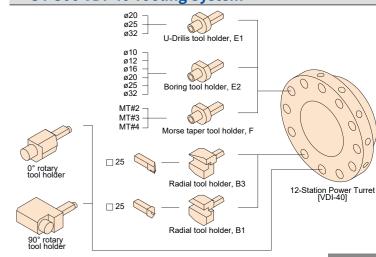
UT-300 BMT-65 Tooling System



UT-200 VDI-30 Tooling System



UT-300 VDI-40 Tooling System

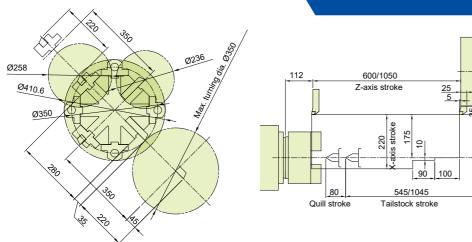


5 UT Series **UT Series**

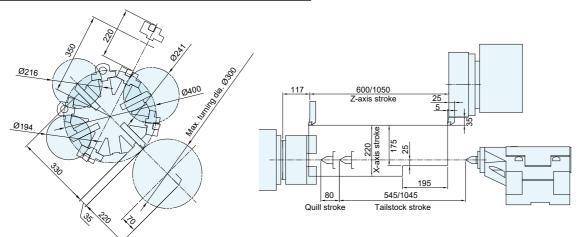
UT-200 8-station hydraulic turret

Tool Interference Diagrams

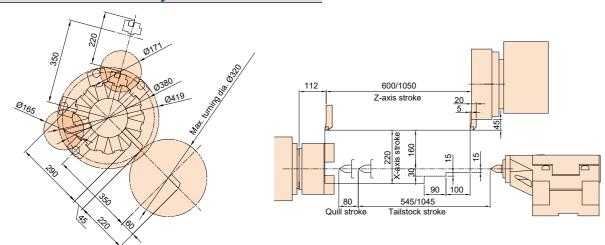




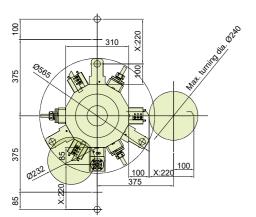
UT-200 10-station hydraulic turret

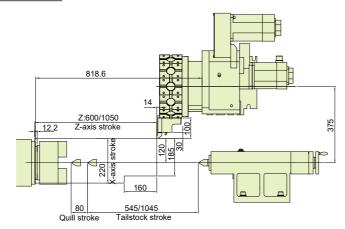


UT-200 12-station hydraulic turret

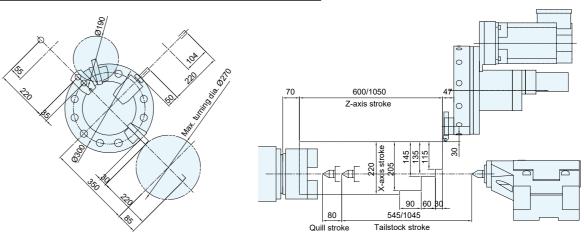


UT-200 BMT-40 12-station power turret

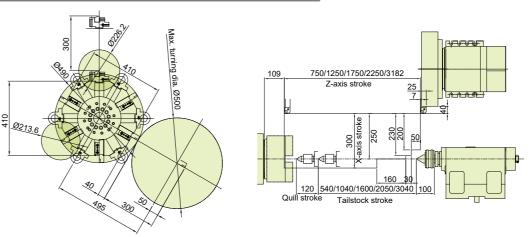




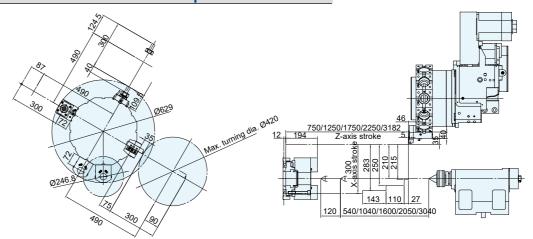
UT-200 VDI-30 12-station power turret



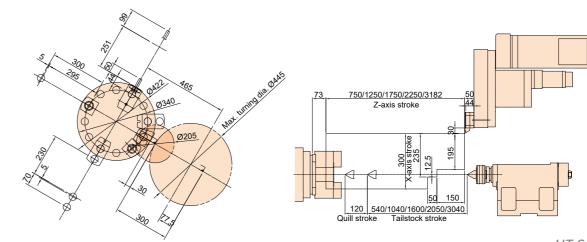
UT-300 12-station hydraulic turret



UT-300 BMT-65 12-station power turret



UT-300 VDI-40 12-station power turret



Unit: mm

Specifications

item / Modet	Item / Model			UT-200L	UT-200LM	UT-200G		
Controller	FANUC 0i-T							
CAPACITY								
Swing Over Bed m		505						
wing Over Saddle mm		318				135		
Max. Turning Diameter	mm	300 260		300	260	135		
lax. Turning Length mm		550 (470)	450 (370)	1000 (920)	900 (820)	200		
Bed Slant Angle	degree	45						
Guideway Type		Box						
Working table	mm	- 350x190						
SPINDLE								
Spindle Nose Taper	ASA	A2-6 (A2-5/A2-8)						
Chuck Diameter	8 (6/10)							
Bar Capacity	52 (65/44/75)							
Spindle Speed rpm		4500 (4000/6000/3500)						
Spindle Motor Power (Cont./30min)	11/15 (15/18.5)							
TRAVELS								
X-axis Travel	(-axis Travel mm		22	20	320			
Z-axis Travel mm		60	00	10	600			
FEED RATES								
X-axis Rapid Traverse Rate m		20						
Z-axis Rapid Traverse Rate	m/min	20						
TURRET								
Tooling system		ВОТ	-	ВОТ	-	Gang		
Turret Drive Type		Hydraulic/Servo	Servo mechanical	Hydraulic/Servo	Servo mechanical			
Number Of Tools						-		
Number Of Tools	station	8/10 (12)	12	8/10 (12)	12	-		
Square Tool Shank Size	station	8/10 (12) 25 (20)	12 20	8/10 (12) 25 (20)	12 20	- 25(20)		
						25(20)		
Square Tool Shank Size	mm			25 (20)		25(20)		
Square Tool Shank Size Round Tool Shank Size	mm mm		20	25 (20)	20	- 25(20) - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed	mm mm rpm		20 6000	25 (20)	6000	- 25(20) - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power	mm mm rpm		6000 4.5	25 (20)	6000 4.5	- 25(20) - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power TAILSTOCK	mm mm rpm kW	25 (20) - -	6000 4.5	25 (20) 32 - - 10	6000 4.5	- 25(20) - - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power TAILSTOCK Tailstock Body Travel	mm mm rpm kW	25 (20) - -	20 6000 4.5	25 (20) 32 - - 10	6000 4.5	- - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power TAILSTOCK Tailstock Body Travel Quill Travel	mm rpm kW mm	25 (20) - -	20 6000 4.5 45	25 (20) 32 - - 10	6000 4.5	- - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power TAILSTOCK Tailstock Body Travel Quill Travel Quill Diameter Quill Taper DIMENSIONS	mm rpm kW mm mm mm	25 (20) - -	20 6000 4.5 45	25 (20) 32 - - 10 0	6000 4.5	- - -		
Square Tool Shank Size Round Tool Shank Size Max. Rotary Tool Speed Rotary Tool Driver Power TAILSTOCK Tailstock Body Travel Quill Travel Quill Diameter Quill Taper	mm rpm kW mm mm mm	25 (20) - -	20 6000 4.5 45	25 (20) 32 - - 10 0	20 6000 4.5 45	- - -		

UT-300	UT-300M	UT-300L	UT-300LM	UT-300LX	UT-300LX2	UT-300LX3				
			FANUC 0i-T							
	612									
400										
500	500 420		420							
680(600)	540 (460)	1180 (1100)	1040 (960)	1680 (1600)	2180 (2100)	3100 (3020)				
			30							
Box										
-										
10.0 (10.11)										
			A2-8 (A2-11) 10 (12/15)							
		7	5 (90/105/116.	 5)						
			0 (2700/2500/2							
			5/18.5 (18.5/22							
		ı	3/10.3 (10.3/22	')						
7	50	12	300 50	1750	2250	3182				
1	J0	12	J 0	1130	2230	3102				
			20							
		24			15	10				
					_	_				
ВОТ	BOT -		BOT -		вот					
Hydraulic/Servo Servo mechanical		Hydraulic/Servo	Servo mechanical)					
			12							
			25							
			40							
	- 4000		- 4000		-					
-	4.5	-	4.5		-					
5	40	10	40	1540	1540 2040 3040					
120										
110										
5										
20410-40	20,40,-20	4 F v 4 O · 4 O	45,40,22	C 1 v 2 2 · 2 2	C 4 v 2 2 · 2 2	70,422,422				
		4.5 x 1.9 x 1.9 4.5 x 1.9 x 2.0								
5	500	6000		7500	9000	11000				

[•]specifications are subject to change without prior notice.