



Slant-Bed Turning Center
Multi-Tasking
Series



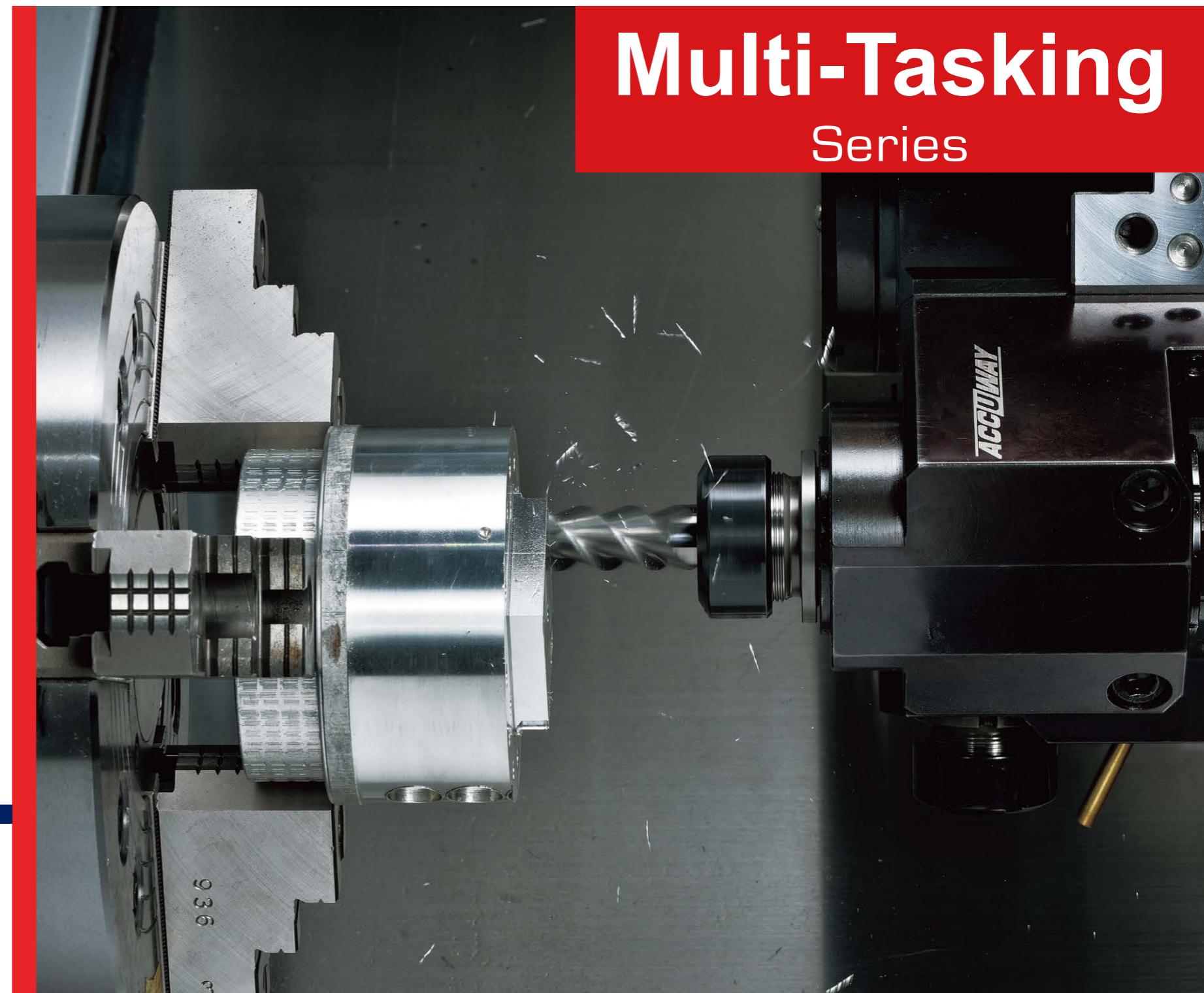
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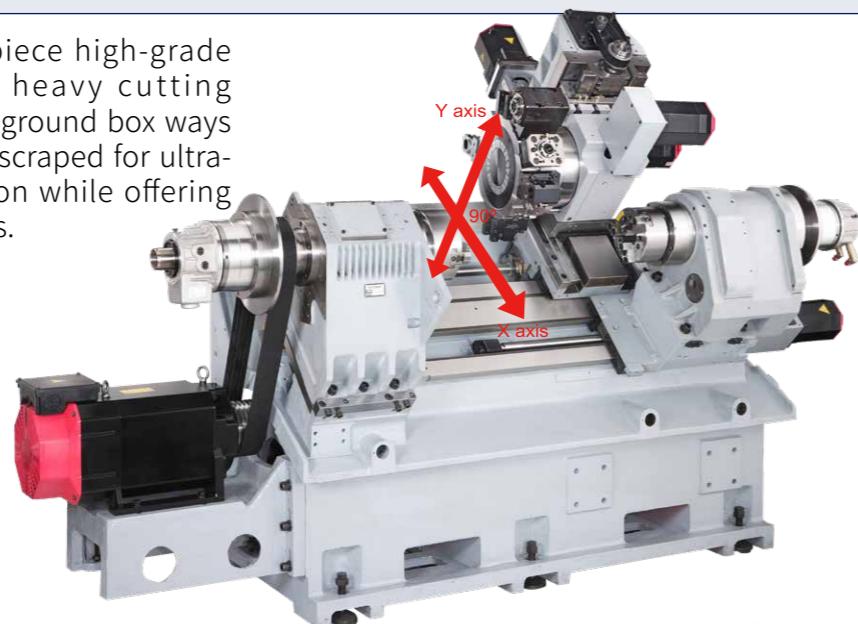
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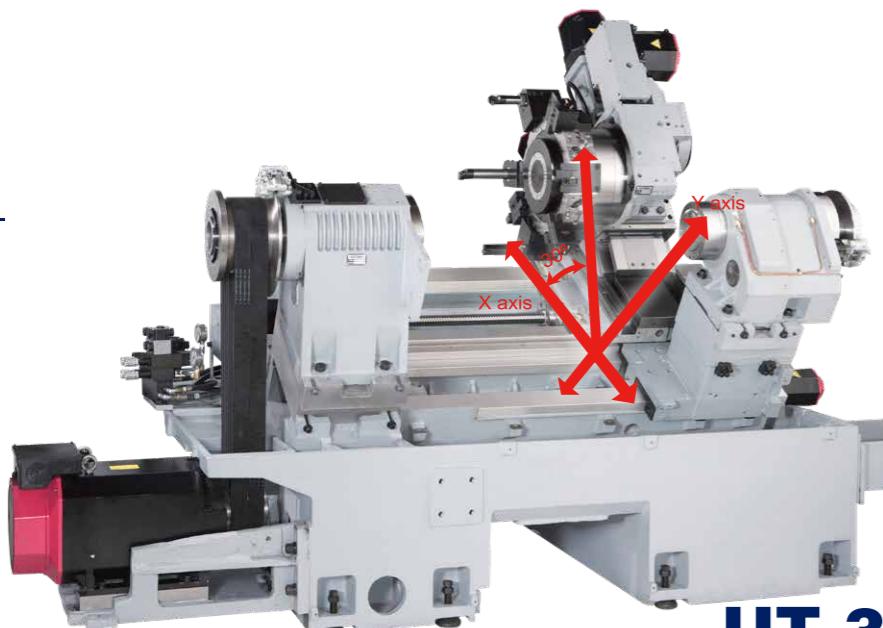
Rigid Structure

One-piece slant bed structure

Machine bed is made of one-piece high-grade Meehanite casting to allow heavy cutting capabilities. Wide hardened and ground box ways are coated with Turcite and hand-scraped for ultra-precise fitting to reduce vibration while offering better tool life and surface finishes.



UT-200SY

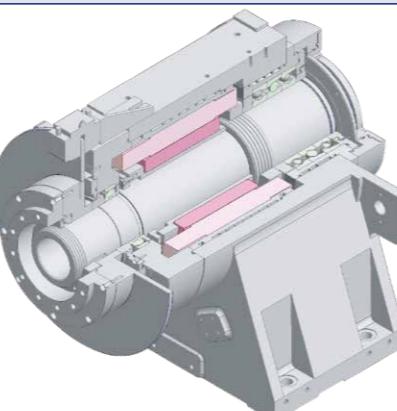


UT-300SY

Built-in motor driven spindle

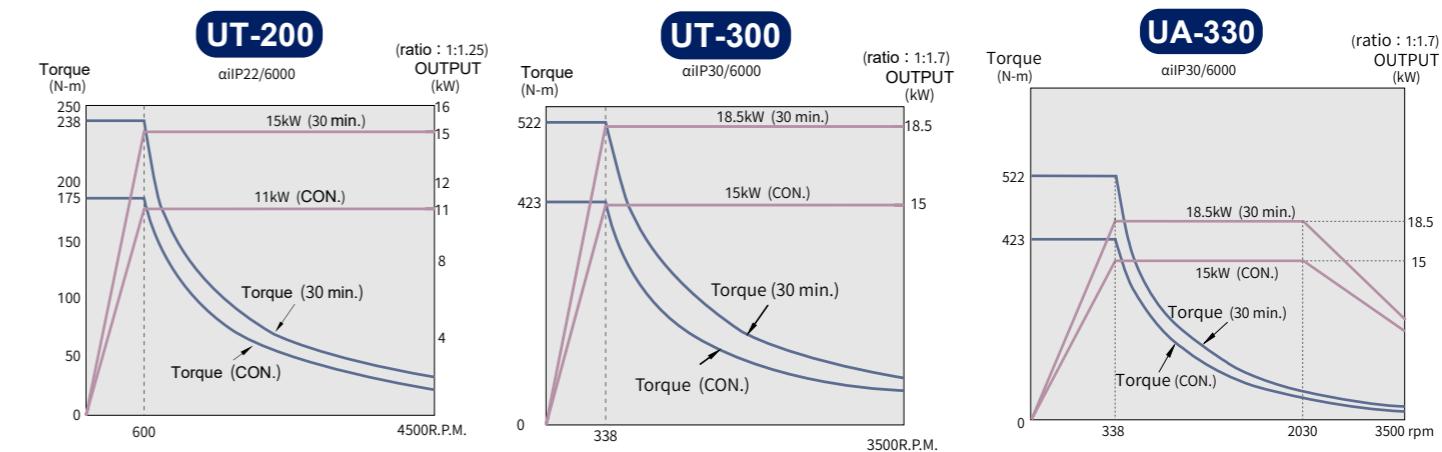
Thermally symmetrical design on the head stock diminishes distortion and provides stable accuracy on work pieces even in continuous high speed machining.

Spindle is supported by a double row of tapered roller bearings in the front and rear of the spindle to resist axial cutting force, while self-alignment angular contact bearings provide tremendous radial load capability.



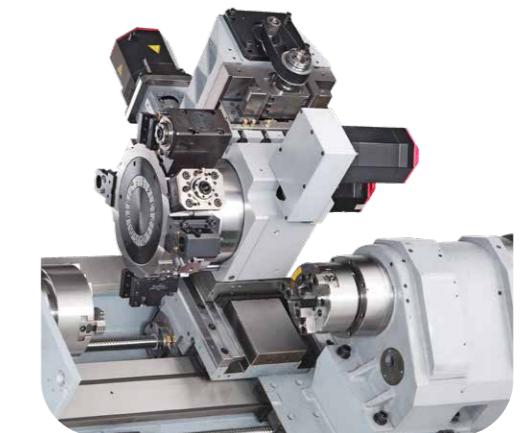
Optional Accessories

Spindle motor torque power chart



Main and sub spindle synchronization

Both the main and sub spindle, C1 and C2 axes provide positioning resolution up to 0.005 degree. Accomplish three dimensional contouring, combine round and prismatic machining by harmonized control of the spindles with the X and Z axes.



Synchronization between main and sub spindle at any rotation speed can be programmed to perform part transfer for secondary machining, enhancing production efficiency and reducing idle time.

Turret

The fast 12-station BMT servo-mechanical dodecagonal drum turret, featuring a large 3-piece curvic coupling and powerful hydraulic clamping force, assures unparalleled rigidity in all machining conditions.

Live tool holders can be mounted on all 12 stations, but only the working position is driven. VDI live tool turret is also available as an option upon request.



BMT 12-station

VDI 12-station

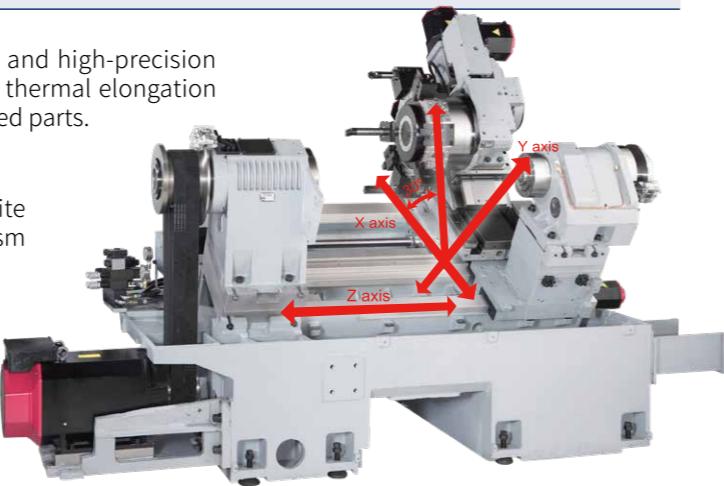
BMT 15-station

Stable axial system

■ The axial direction adopts high-precision ballscrew and high-precision bearing design, effectively eliminating backlash and thermal elongation displacement provide stable and high CP value finished parts.

■ Y-axis adopts 30-degree sliding seat virtual composite structure with high rigidity the best Y-axis mechanism with stability.

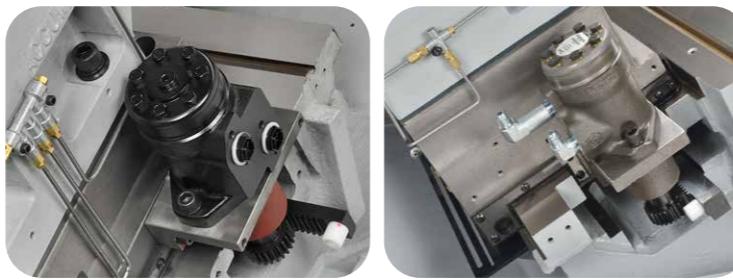
■ The axial sliding surface is attached to the Turcite wear piece and applied to the high shovel the scraping operation can maintain the characteristics of long-term smooth motion accuracy.



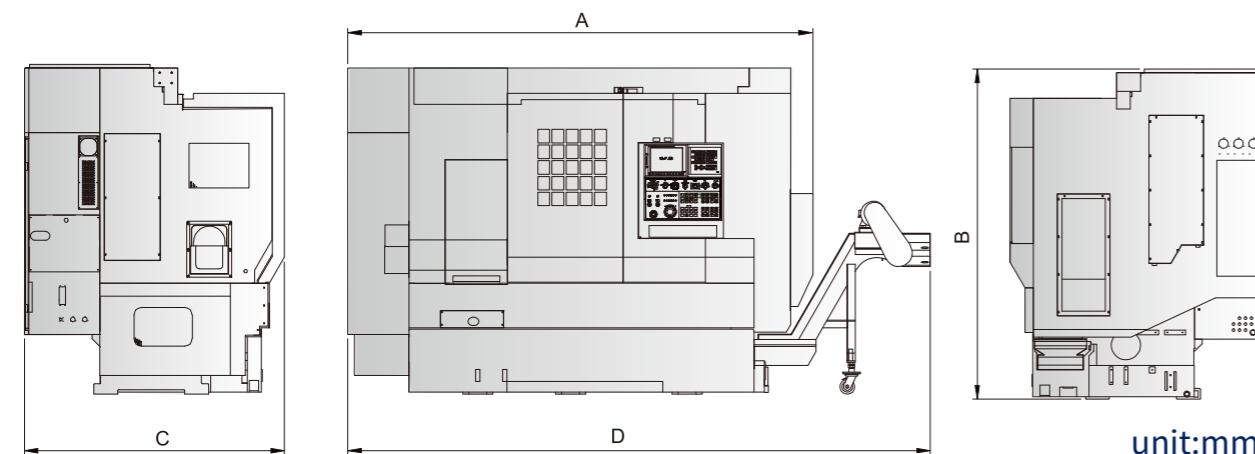
Programmable tailstock

■ The whole multi-tasking series equip with programmable tailstock as standard, the positioning of the tailstock body and the expansion and contraction of the quill both can be controlled by the program.

■ Saddle and tailstock can be adjusted separately or driven at the same time and driven to the desired position.



Machine Dimensions



Model	A	B	C	D
UT-200S	3000	1800	1600	3900
UT-200SM	3200	1800	1600	3900
UT-200SY	3200	2200	1900	3900
UT-200Y	3200	2200	1900	3900
UA-200Y	3200	2200	1900	4100
UT-300S	3500	1900	1900	4400
UT-300SM	3500	2000	1900	4400
UT-300SY	3900	2400	2100	4400
UT-300Y	3500	2400	2100	4400
UA-330Y	3900	2200	2400	4500

Y-axis machining characteristic

Keyway milling

Y-axis machining keyway has the advantage of radius correction, tool wearing time can still control the width of the keyway, and shaft processing because the turning and milling keyway in the same operation to complete, can maintain the symmetrical keyway excellent geometric tolerance, compared with the C-axis lathe to save the disassembly process, load and unload the workpiece time and fixture costs.

Non-axisymmetric eccentric hole machining

The simple C-axis can only machine axisymmetric holes when drilling and tapping in the radial direction, while the Y-axis lathe can perform asymmetrical machining due to the amount of bias in the Y direction.

Radial facing milling/Radial profile milling/Radial pocket machining

Various drilling, milling, and thread milling can be performed for the outer circle profile of the workpiece diameter.... And so on.

Cam milling

Even if the cam profile is not close to the end face, the Y-axis end milling can still machine the cam profile.

Thread milling

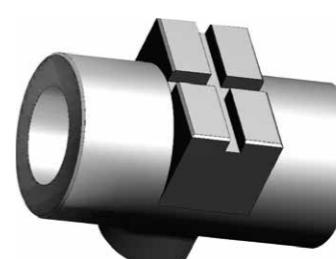
The Y-axis lathe is equipped with the controller milling machine for internal and external thread milling of the end face and outer diameter.

3D engraving milling

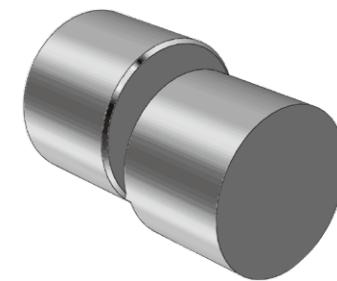
The use of X/Y/Z linear axis with C axis synchronous movement, 3D engraving milling can be carried out.



Radial eccentric hole machining



Radial facing milling /
Radial profile milling



Cam milling



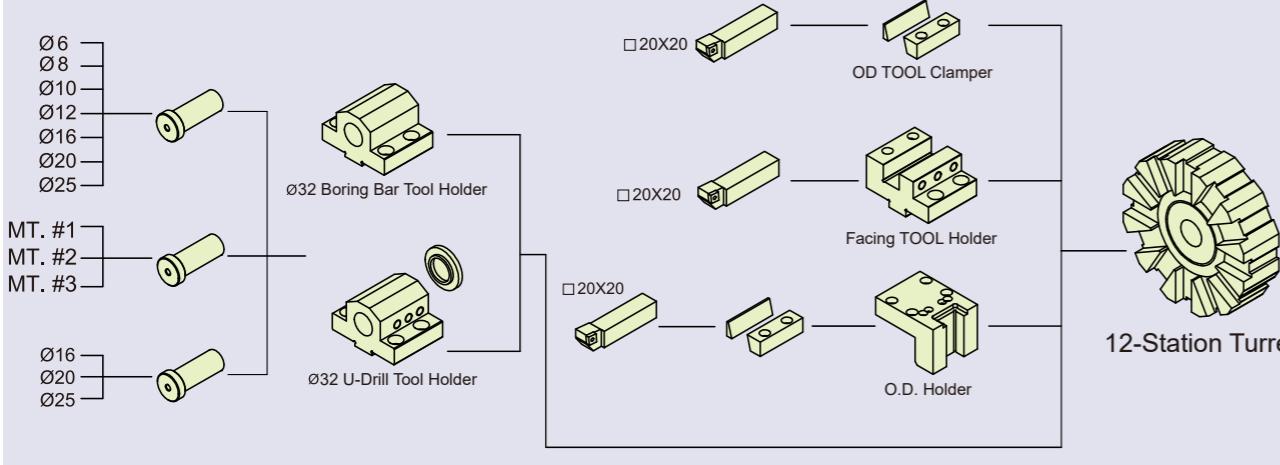
Radial pocket machining



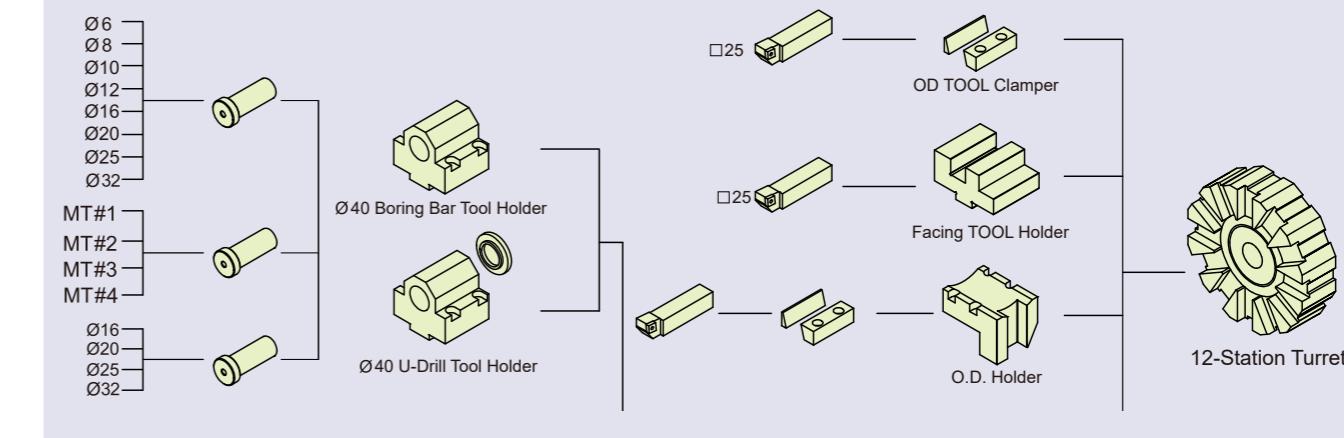
Keyway milling

Tooling system

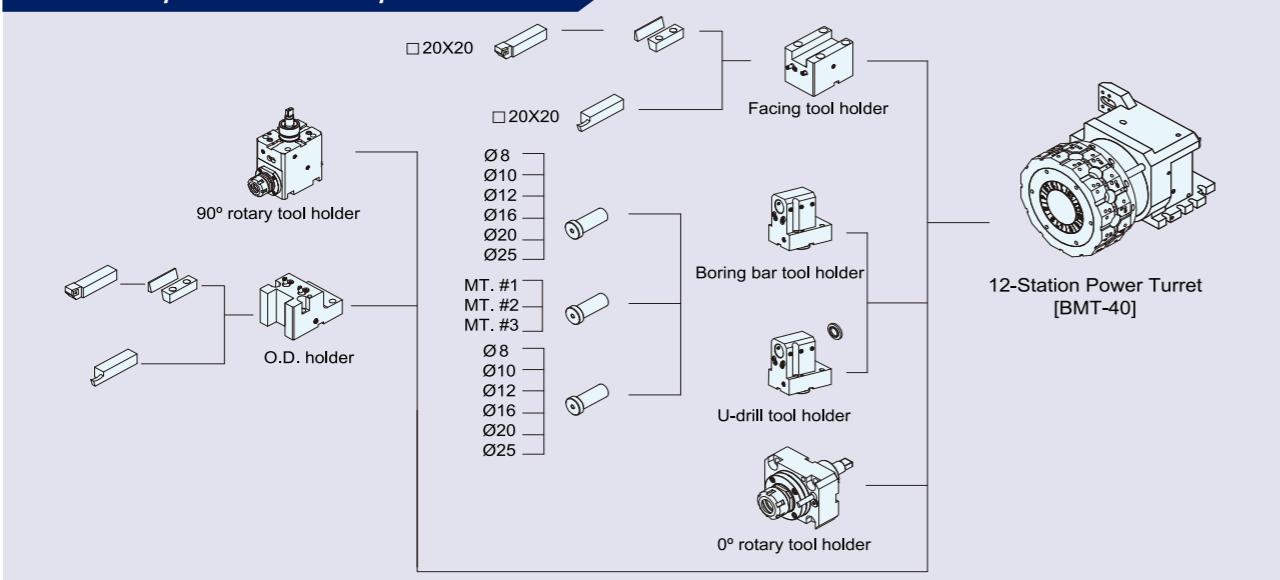
UT-200S



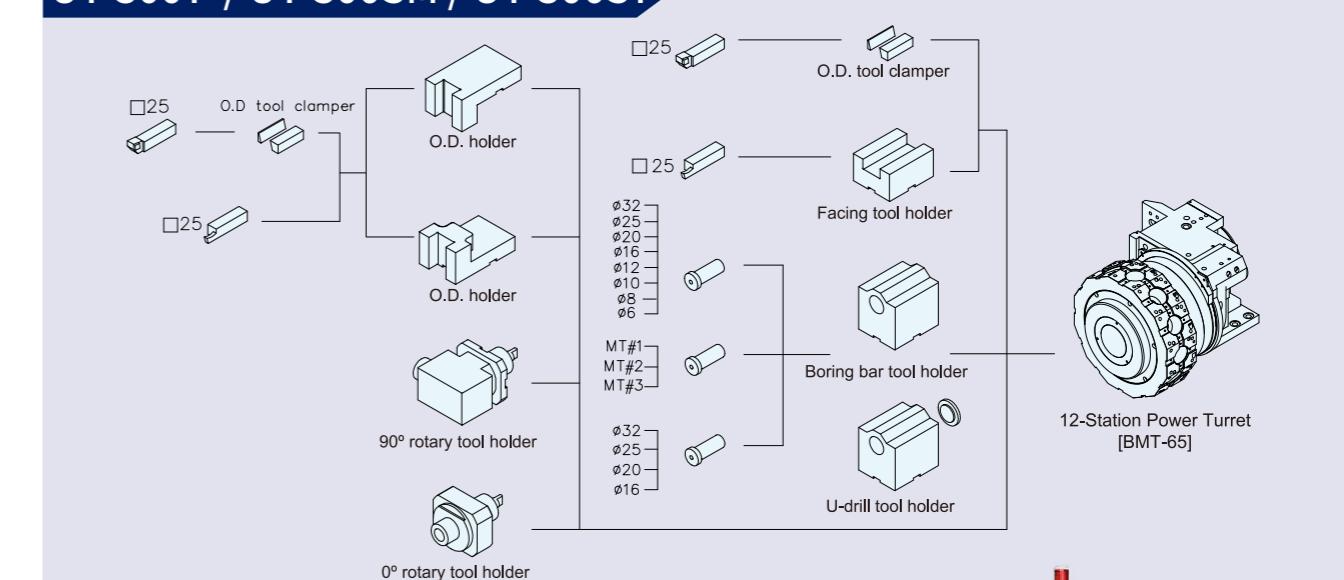
UT-300S



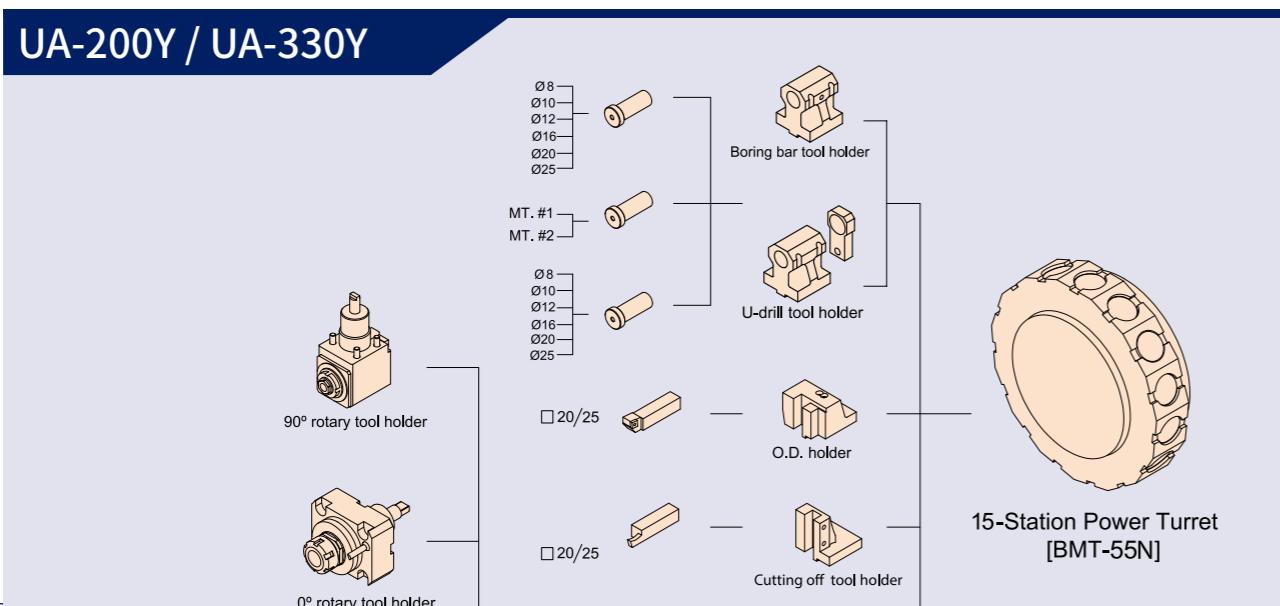
UT-200Y/UT-200SM / UT-200SY



UT-300Y / UT-300SM / UT-300SY



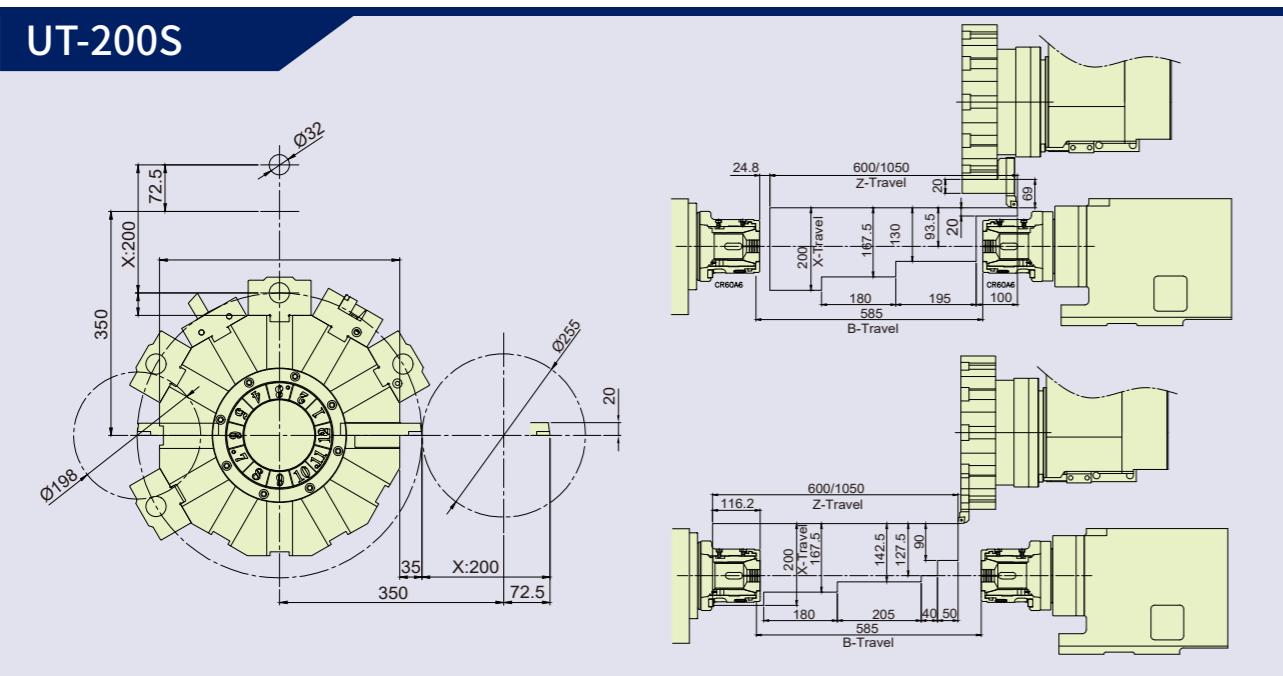
UA-200Y / UA-330Y



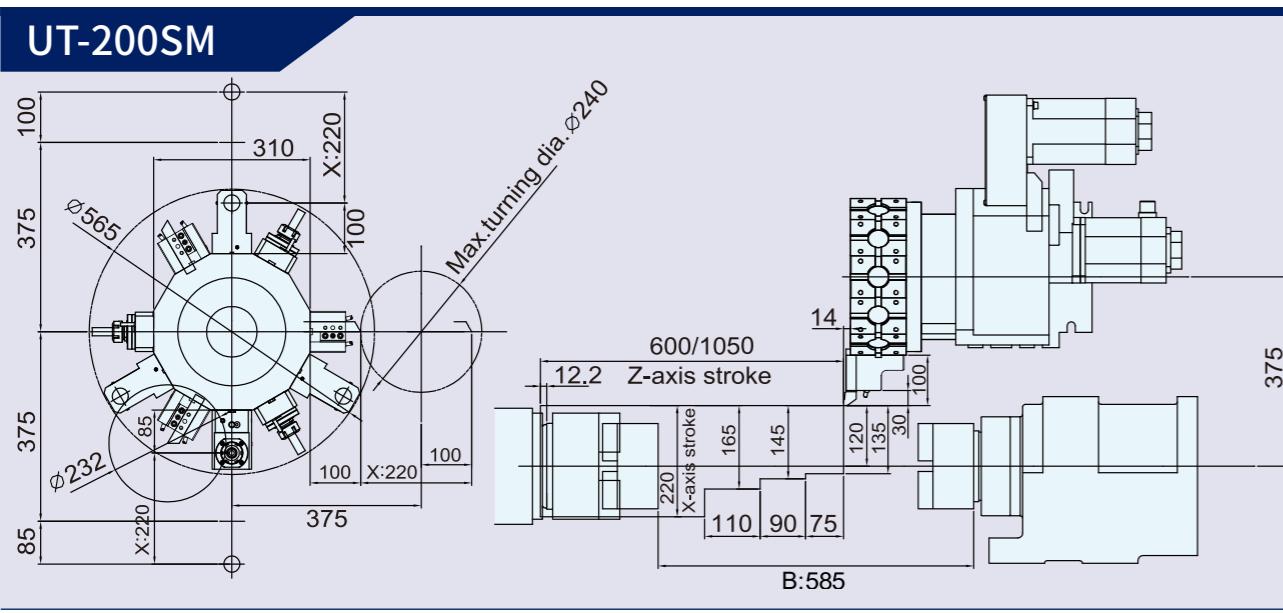
Tool Interference Diagrams

SLANT-BED TURNING CENTER

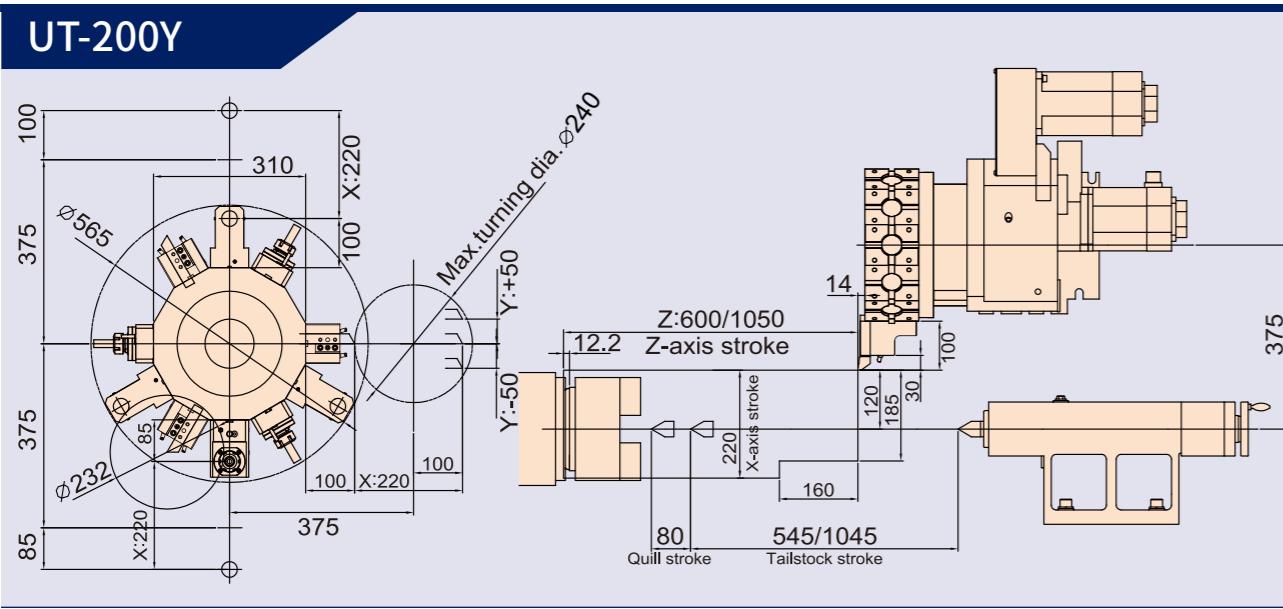
UT-200S



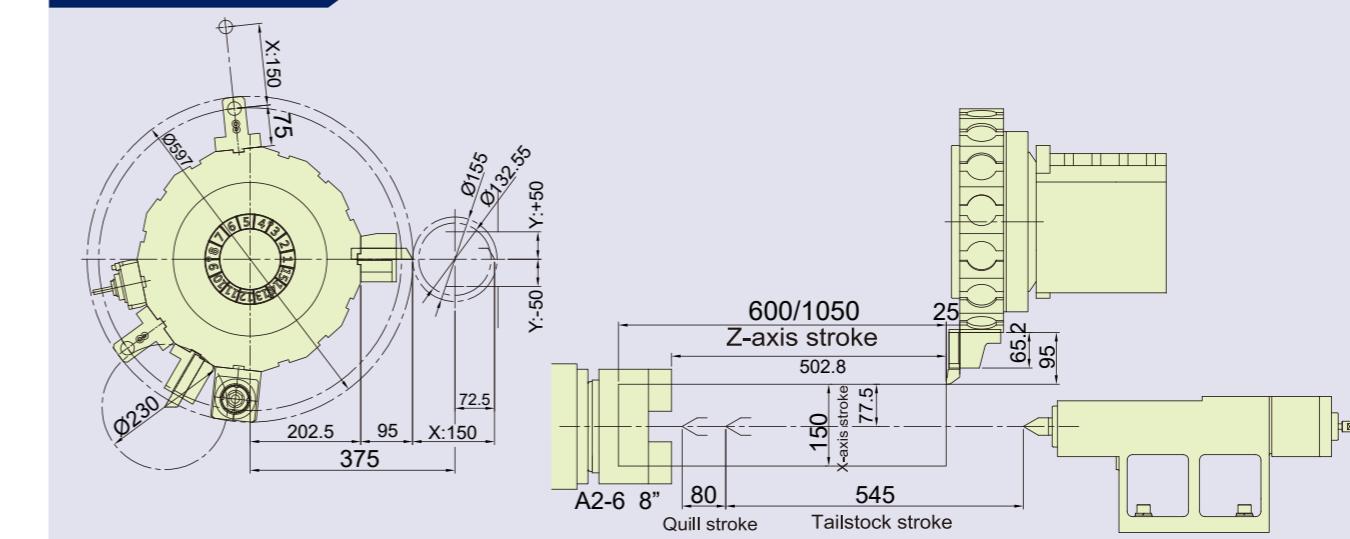
UT-200SM



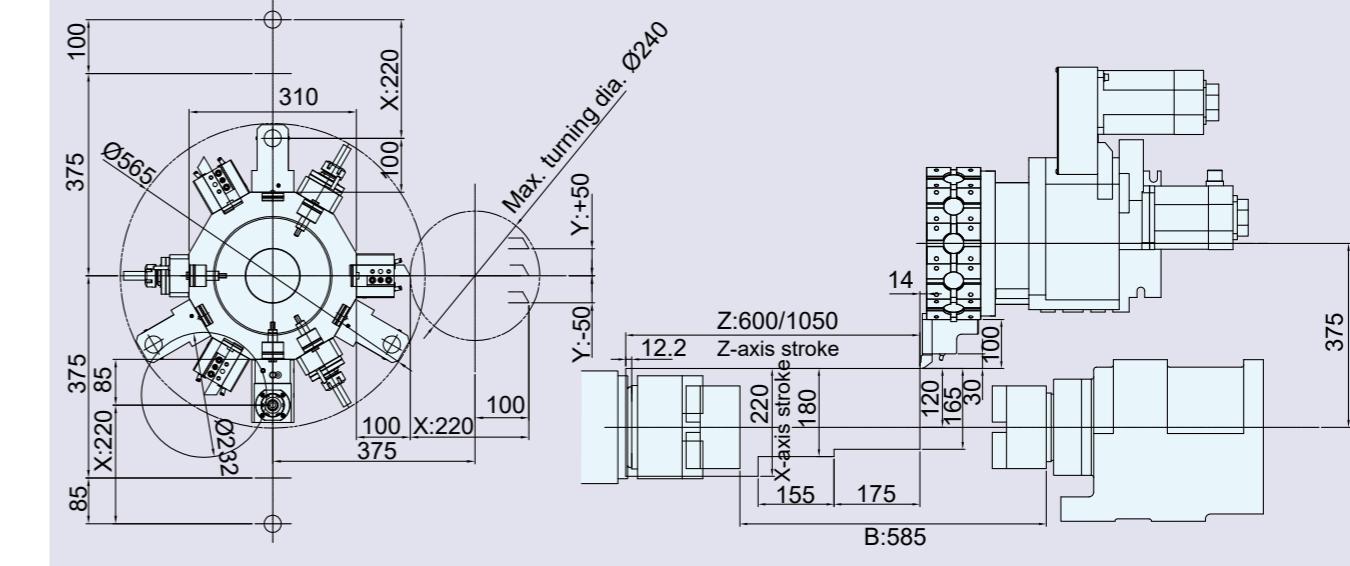
UT-200Y



UA-200Y

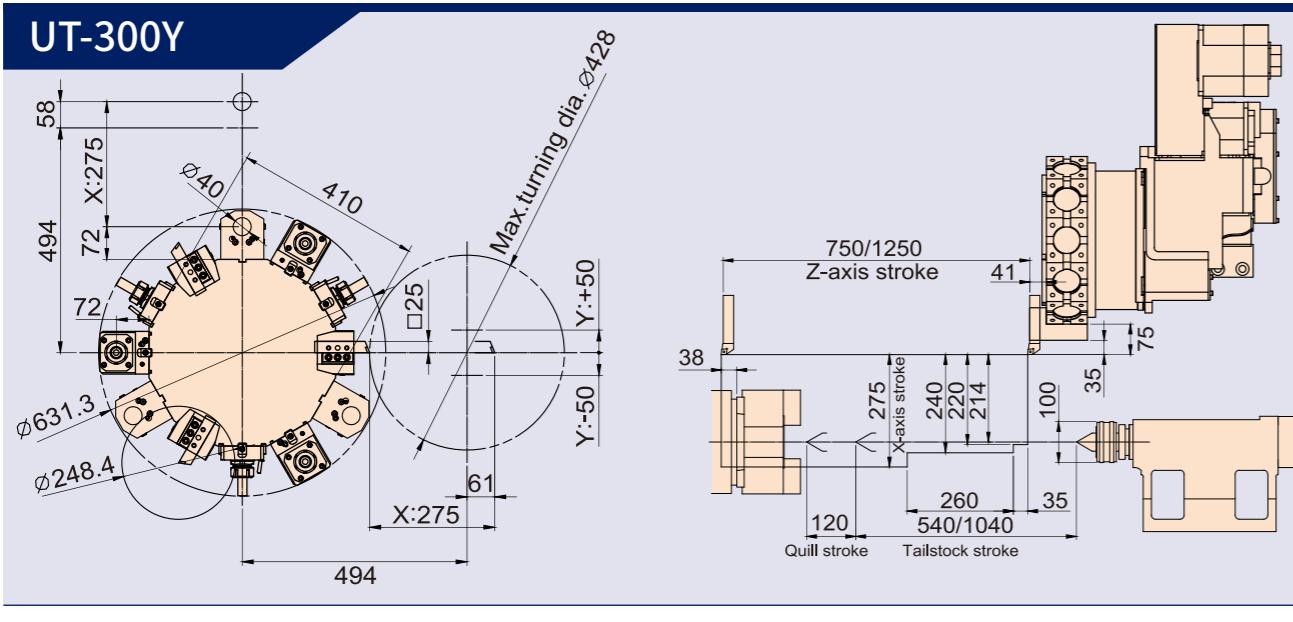


UT-200SY

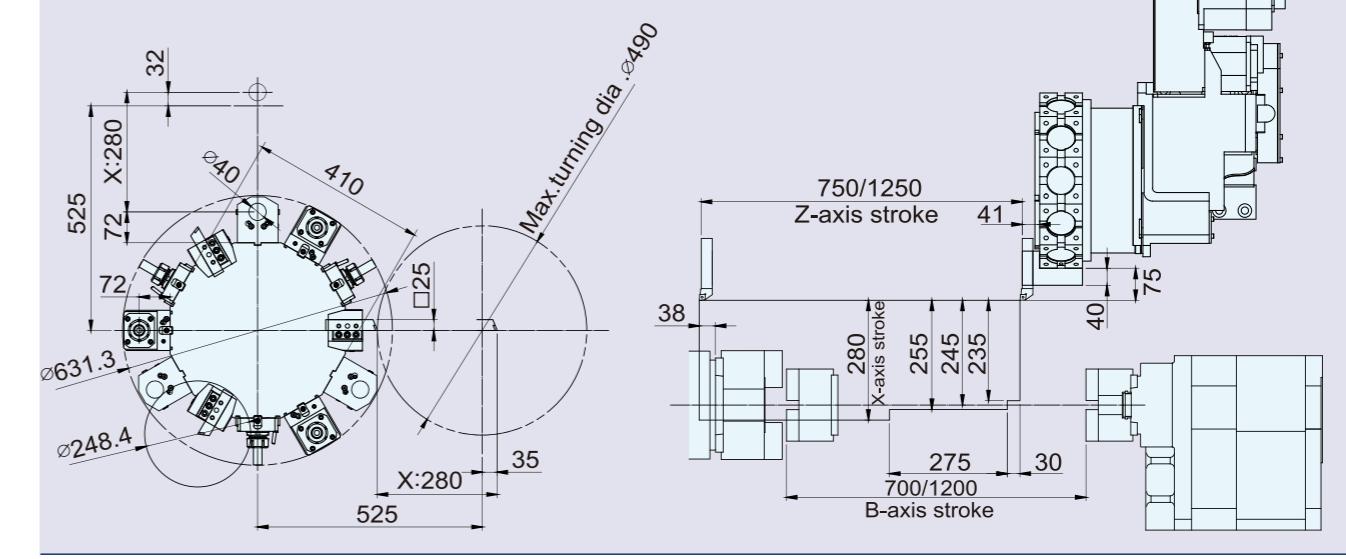


Tool Interference Diagrams

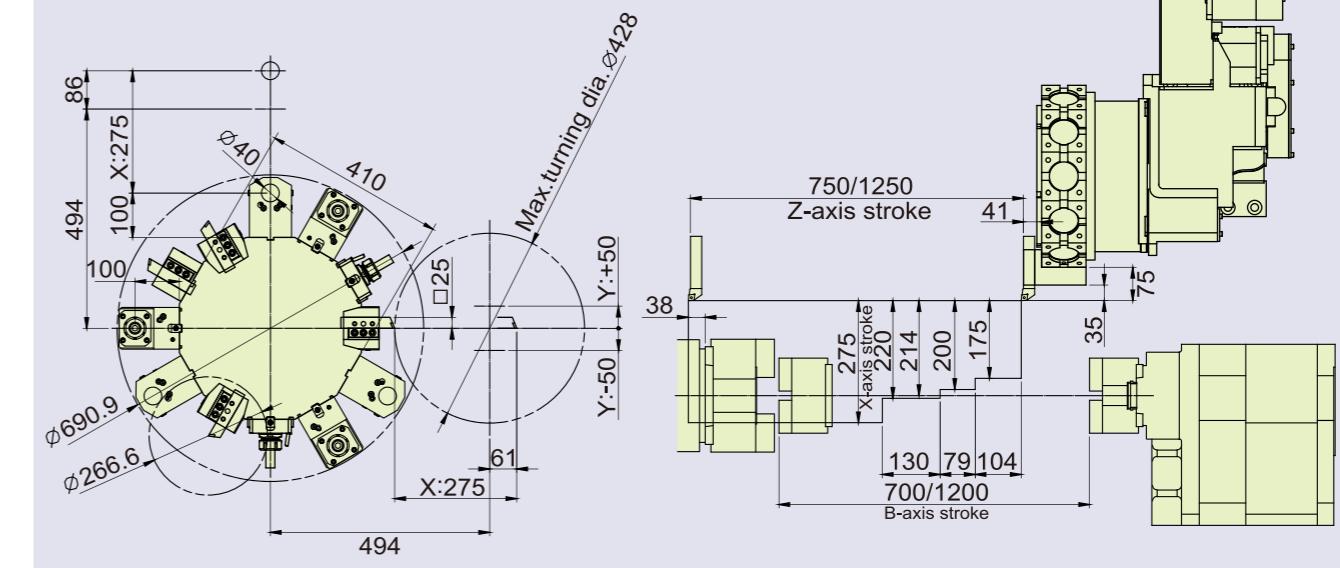
SLANT-BED TURNING CENTER



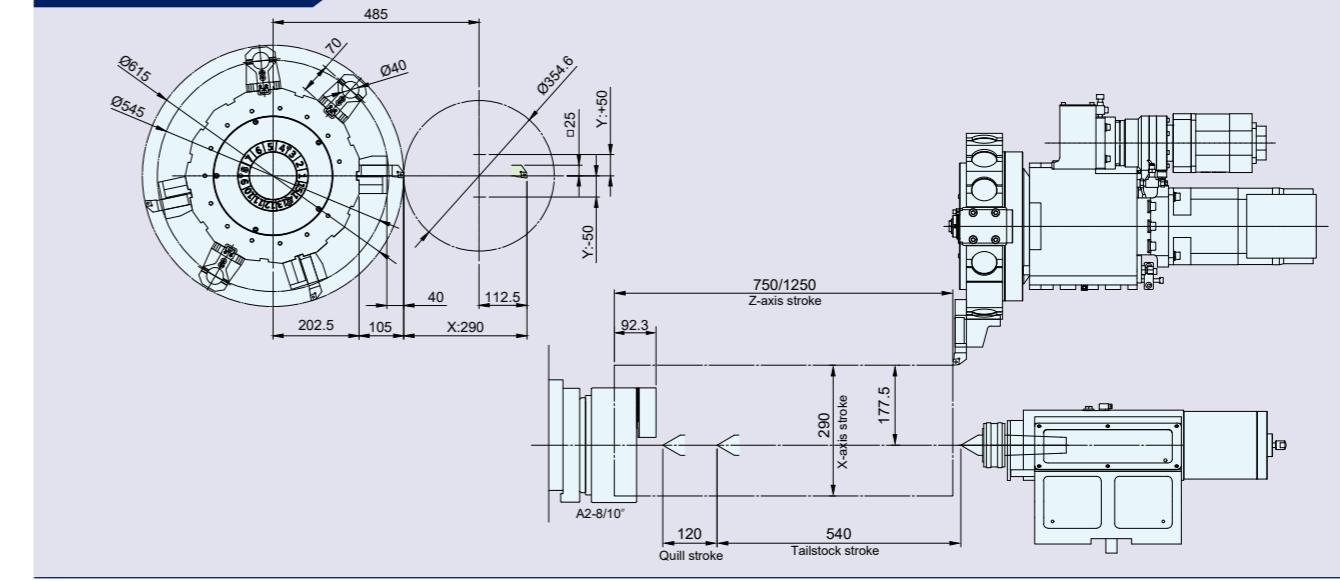
UT-300SM



UT-300SY



UA-330Y



Specifications

Item \ Model		UT-200S	UT-200SM	UT-200SY	UT-200Y	UA-200Y
CONTROLLER		FANUC 0i-T				
CAPACITY						
Swing Over Bed	mm	505	570	680		
Swing Over Saddle	mm	318	378	485		
Max. Turning Diameter (SP1)	mm	250	250	240	155	
Max. Turning Diameter (SP2)	mm	220	200	-		
Max. Turning Length	mm	480 (400)	440(360)	500 (425)		
Guide way type		Box				
SPINDLE 1						
Spindle Nose	ASA	A2-6(A2-5/A2-8)				
Chuck Diameter	inch	8 (6/10)				
Spindle Speed	rpm	4500 (6000/4000/3500)				
Spindle Motor Power (Cont./30min)	kW	11/15 (15/18.5)				
Bar Capacity	mm	52 (44/65/75)				
SPINDLE 2						
Spindle Nose	ASA	A2-5			-	
Chuck Diameter	inch	6 (8)			-	
Spindle Speed	rpm	6000 (5000)			-	
Spindle Motor Power (Cont./30min)	kW	5.5 / 7.5			-	
Bar Capacity	mm	44			-	
TRAVELS						
X-axis Travel	mm	220				
Z-axis Travel	mm	600				
Y-axis Travel	mm	-	±50			
B-axis Travel	mm	585			-	
FEEDS RATES						
X-axis Rapid Traverse Rate	m/min	20				
Z-axis Rapid Traverse Rate	m/min	20				
Y-axis Rapid Traverse Rate	m/min	-	10			
B-axis Rapid Traverse Rate	m/min	20			-	
TURRET						
Turret Drive Type	Hydraulic/Servo	Servo-mechanical				
Number of Tool Station		12			15	
Square Tool Shank Size	mm	20			20	
Round Tool Shank Size	mm	32			25	
Max. Rotary Tool Speed	rpm	-	6000			
Rotary Tool Driver Power	kW	-	4.5			3.7 / 5.5
TAILSTOCK						
Tailstock Body Travel	mm	-	545			
Quill Travel	mm	-	80			
Quill Diameter	mm	-	75			
Quill Taper Size	MT	-	4			
Tailstock Body Positioning		-	Programmable			
DIMENSIONS						
Floor Space Required	m	3.9 x 1.6		3.9 x 1.9		4.1 x 1.9
Height	m	1.8		2.2		
Machine Weight	kg	4000		4500		5000

Specifications

Item \ Model		UT-300S	UT-300SM	UT-300SY	UT-300Y	UA-330Y
CONTROLLER		FANUC 0i-T				
CAPACITY						
Swing Over Bed	mm	612	700	910	800	
Swing Over Saddle	mm	400	500	720	600	
Max. Turning Diameter (SP1)	mm	500	480	420	350	
Max. Turning Diameter (SP2)	mm	400	375	-		
Max. Turning Length	mm	610(540)	540(470)	640		
Guide way type		Box				
SPINDLE 1						
Spindle Nose	ASA	A2-8(A2-11)				
Chuck Diameter	inch	10/12 (15)				
Spindle Speed	rpm	3500 (2700/2500/2000)				
Spindle Motor Power (Cont./30min)	kW	15/18.5 (18.5/22)				
Bar Capacity	mm	75 (90/105/116.5)				
SPINDLE 2						
Spindle Nose	ASA	A2-5				
Chuck Diameter	inch	6 (8)				
Spindle Speed	rpm	6000 (5000)				
Spindle Motor Power (Cont./30min)	kW	5.5 / 7.5				
Bar Capacity	mm	44				
TRAVELS						
X-axis Travel	mm	300	280	275	290	
Z-axis Travel	mm	750		750		
Y-axis Travel	mm	-		±50		
B-axis Travel	mm	700			-	
FEEDS RATES						
X-axis Rapid Traverse Rate	m/min	20				
Z-axis Rapid Traverse Rate	m/min	24				
Y-axis Rapid Traverse Rate	m/min	-	10			
B-axis Rapid Traverse Rate	m/min	20			-	
TURRET						
Turret Drive Type	Hydraulic	Servo-mechanical				
Number of Tool Station		12				
Square Tool Shank Size	mm	25				
Round Tool Shank Size	mm	40				
Max. Rotary Tool Speed	rpm	-	4000			6000
Rotary Tool Driver Power	kW	-	4.5			3.7/5.5
TAILSTOCK						
Tailstock Body Travel	mm	-	540			
Quill Travel	mm	-	120			
Quill Diameter	mm	-	110			
Quill Taper Size	MT	-	5			
Tailstock Body Positioning		-	Programmable			
DIMENSIONS						
Floor Space Required	m	4.4 x 1.9	4.4 x 1.9	4.4 x 2.1	4.5 x 2.4	
Height	m	1.9	2.2	2.4	2.2	
Machine Weight	kg	5900	6000	6500	6700	

■ Specifications are subject to change without prior notice.