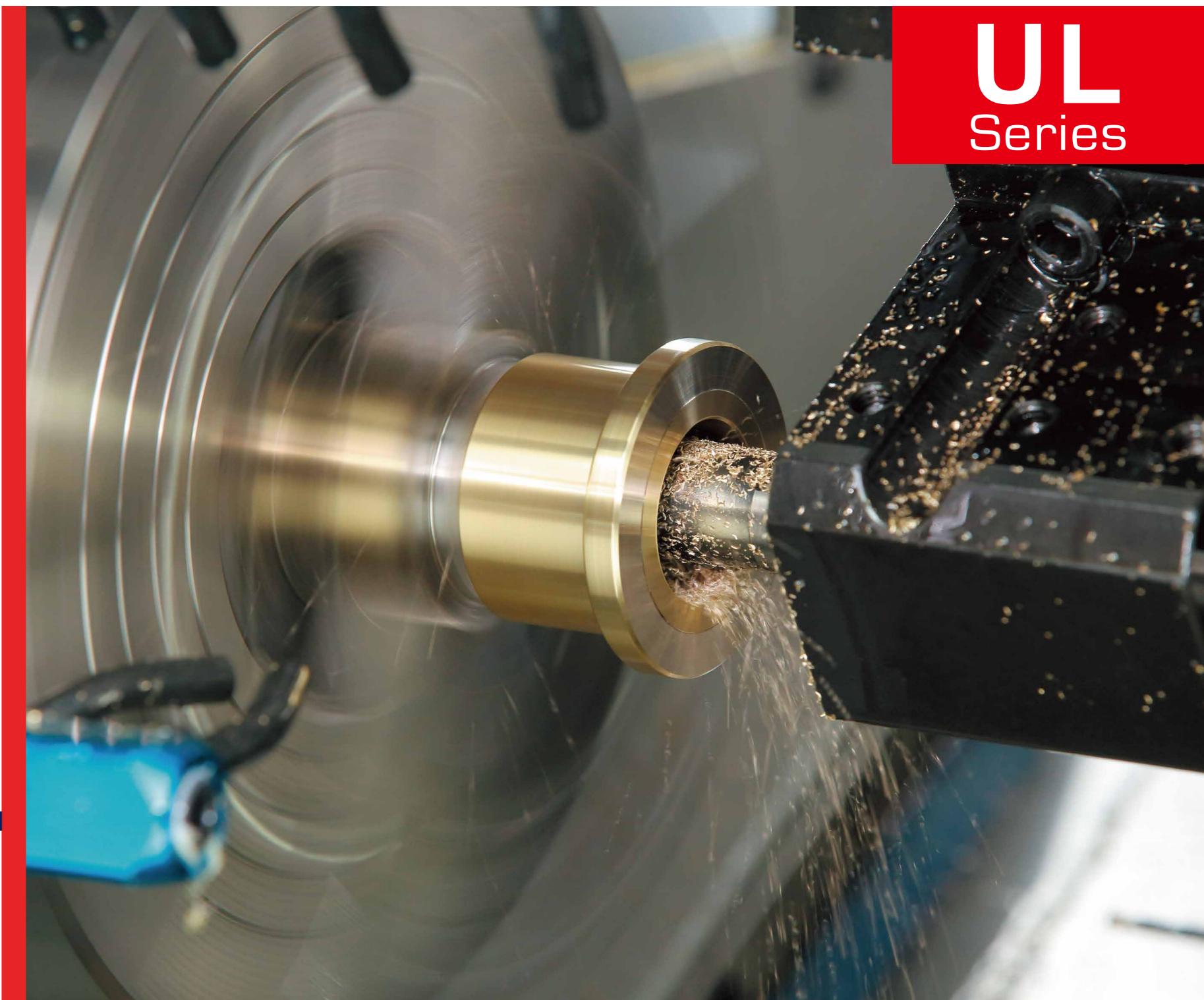




Flat-Bed CNC Turning Center



UL
Series



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

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Optimized Mechanical Structure Design

Delicate Scraping Work

Gibs and sliding surfaces coated with Turcite-B are hand-scraped to create oil pockets and grooves for precise motion and durability of machine.

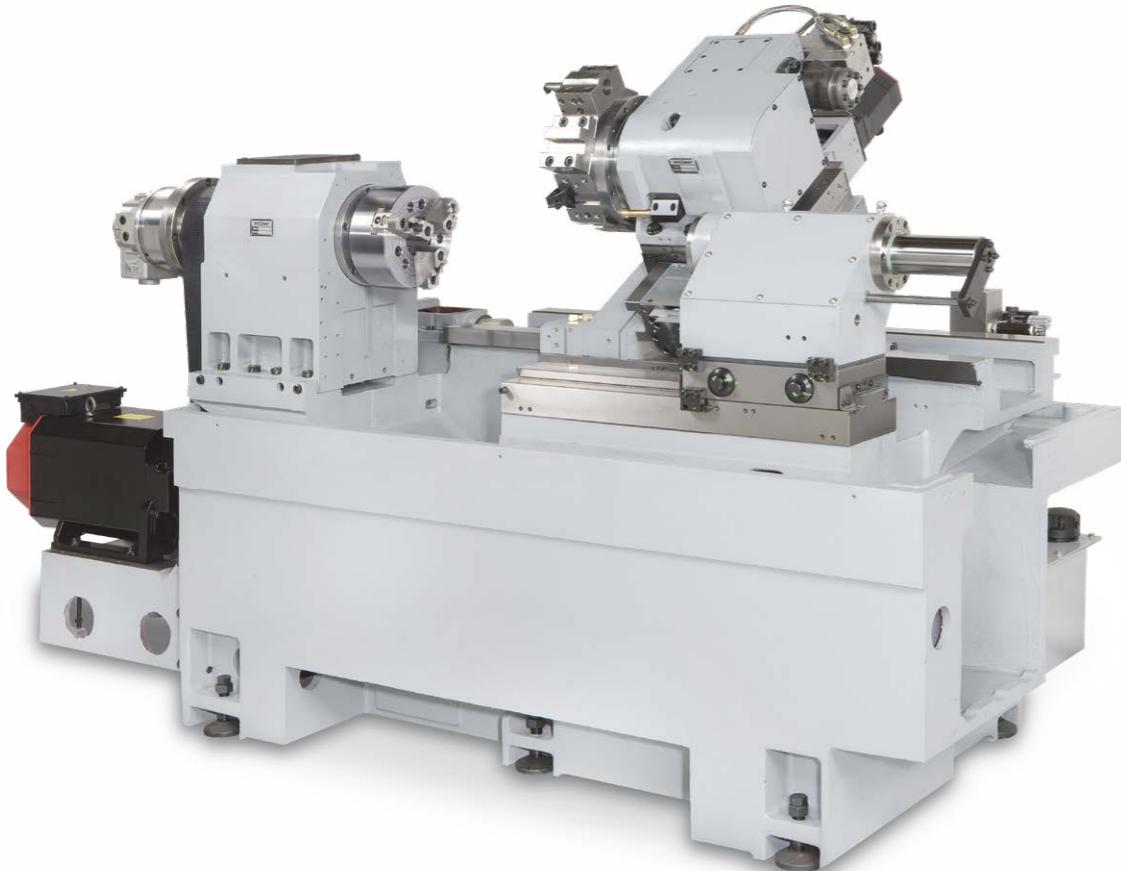
Skilled craftsmen perform continuous surface trimming to adjust flatness, squareness and straightness to satisfy accuracy requirements.



Rigid Casting Structure

One-piece flatbed base coupled with 30° slant saddle, made of high tensile strength MEEHANITE casting, heat treated and ground to reach hardness in HRC 53. All sliding surfaces are coated with Turcite B to maintain feeding and positioning accuracy plus long service life. Chip flushing function is excellent for this structure.

Large span of high-rigidity box way design, along with high damping coefficient, allows heavy or discontinuous cutting of carbon steel, stainless steel, and aluminum casting without inducing chatter.

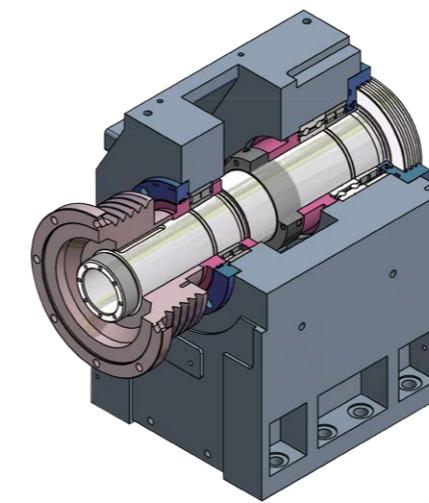
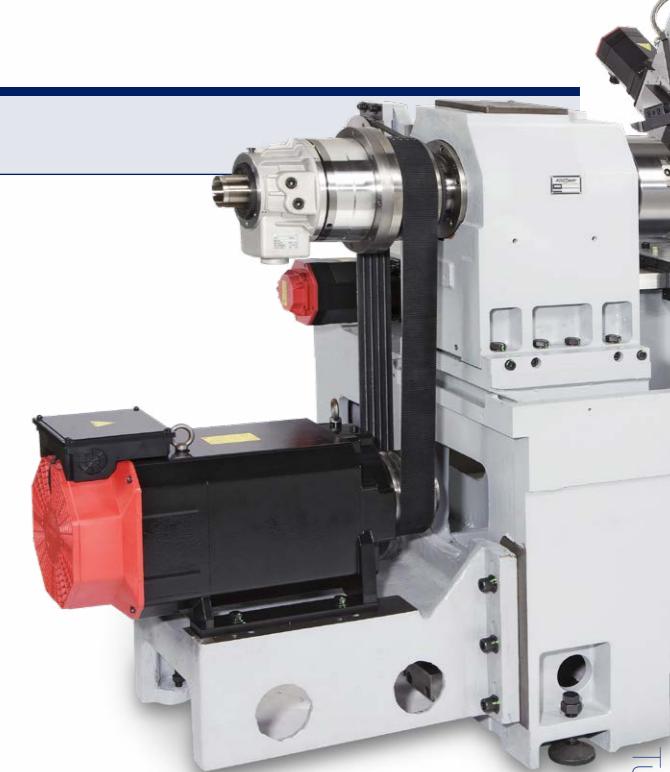


Powerful High-rigidity, Top-accuracy Spindle System

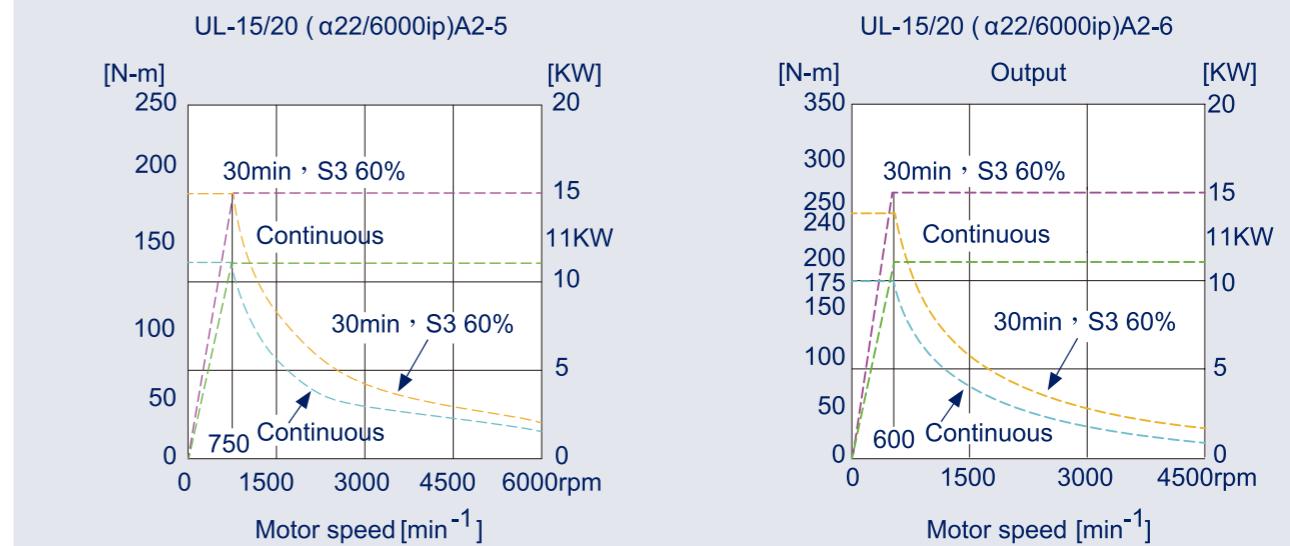
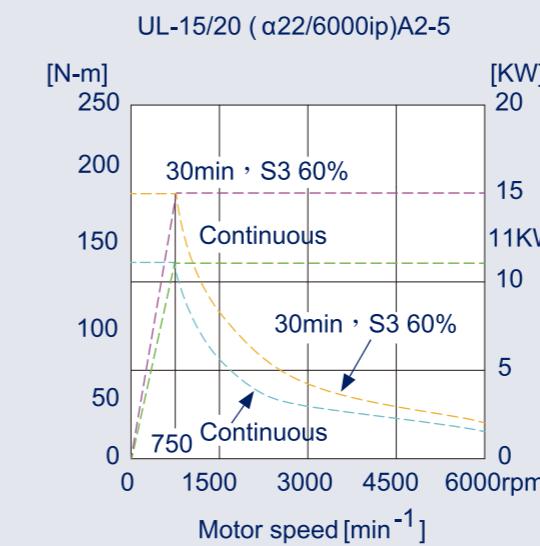
Spindle System

Symmetrical reinforced headstock structure design balances thermal displacement and reduces spindle errors. Annealed, and naturally seasoned to diminish residual stress for stable material quality and assure long-term machining accuracy.

High-performance, wide-range spindle motor powered by 20 hp offers full-scale power output at speed range of 750-6000 rpm. In addition, 240 N·m peak torque makes it become the most powerful and competitive lathe at this level.



Spindle Motor Torque Chart

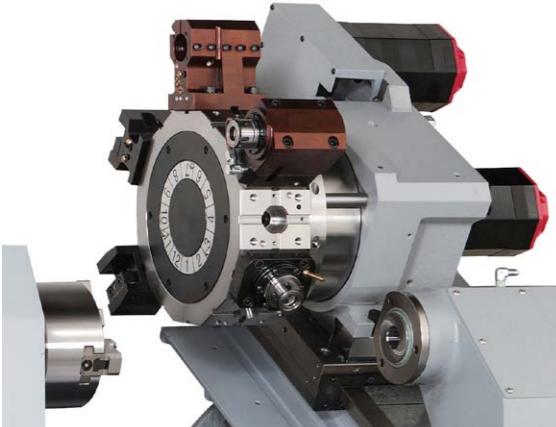


Precise Transmission & Position Control

High-accuracy Turret

Large-size precision curve coupling combined with roller-cam mechanism and hydraulic actuator provide accurate positioning for indexing.

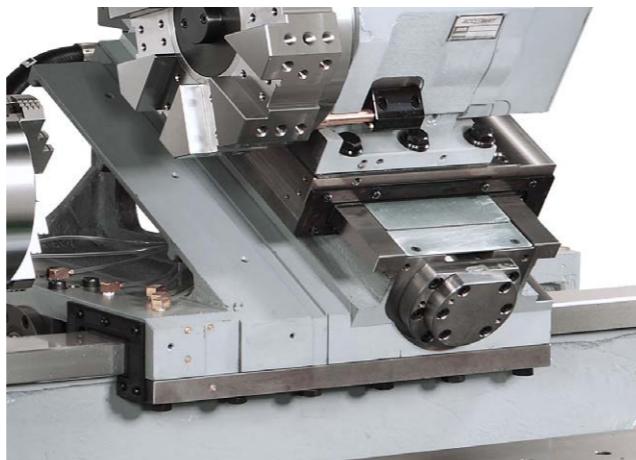
Fast bi-directional index selects tools at 0.3 seconds for adjacent tool, and 1.5 seconds for opposite tool.



High Performance X/Z Axis Box Slideways

Pre-loaded double-nut ballscrews features high rigidity, and alleviate backlash significantly.

Square box slideways on X/Z axes have high stiffness, large contact areas and excellent damping effects. They are the best design to sustain heavy duty as well as segmented cuttings.



FANUC 0i-T controller

FANUC 0i-T controller with color LCD monitor, integrated with one-piece control panel, provides the most comfortable and convenient man-machine interface.



Optional Accessories

Automatic Door

Automatic door opens after the end of machining cycle. This function saves time and increases more efficiency.



Tool Setter

To eliminate downtime for tool inspection and compensation, tool setter measures and offsets tool wear to maintain 5 μ m repeatability accuracy.



Parts Catcher

Upon completion of turning cycle, receives workpiece automatically, then conveys it to collection box, and saves more time if fitted with bar-feeder and parts conveyor.

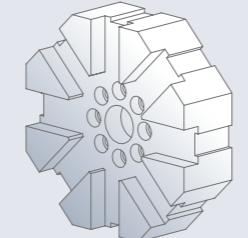
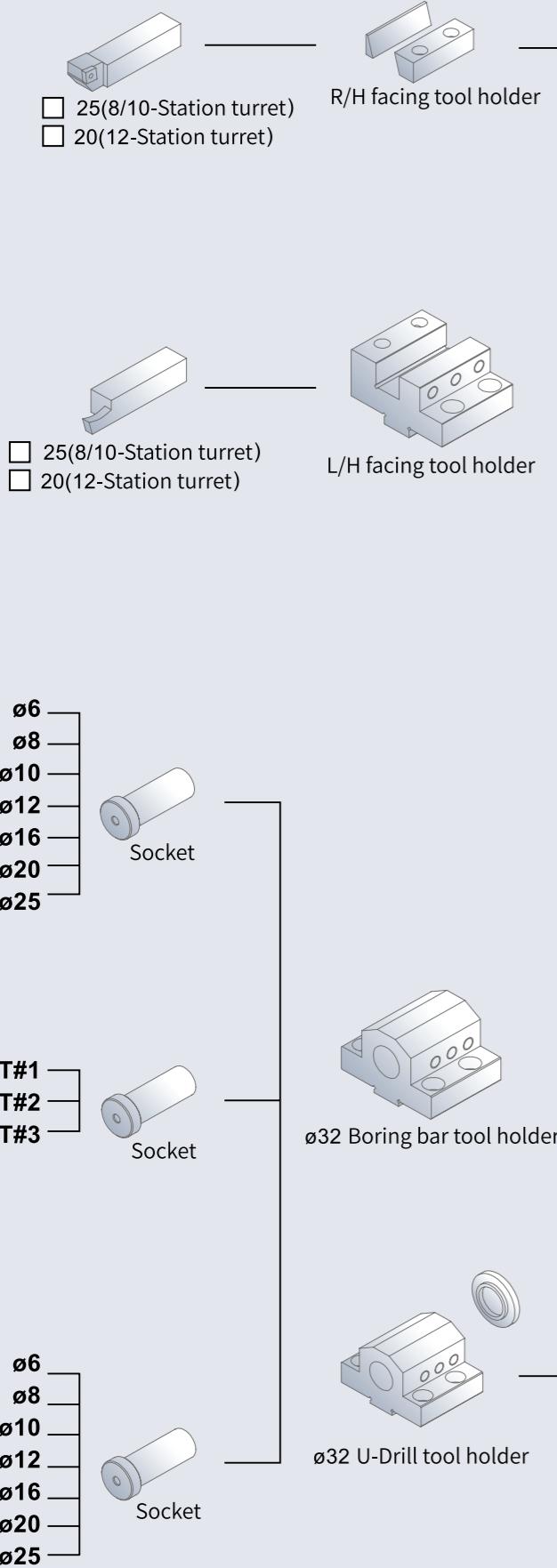


Auto loading and unloading mechanism

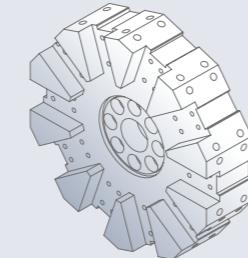
Applicable for single machine or multi-machines operation with completed process cycle. Saving operation time will be satisfied requirements with automation and cost reduction.



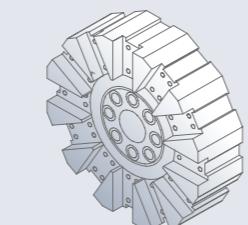
Tooling Diagram



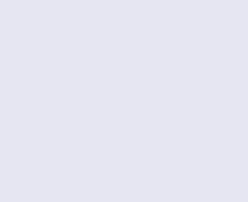
8-Station turret



10 -Station turret



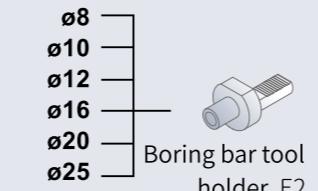
12 -Station turret



12 -Station turret (VDI30)



U-Drill tool holder ,E1



Boring bar tool holder, E2



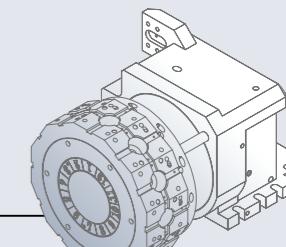
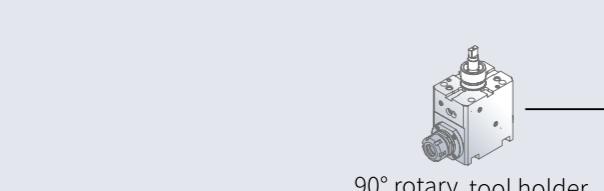
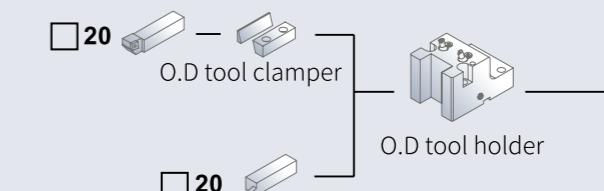
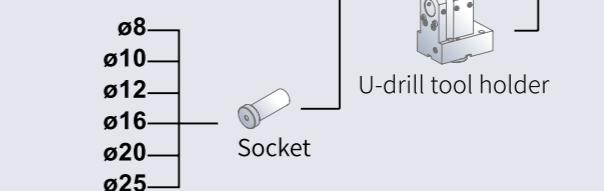
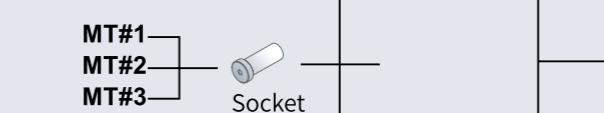
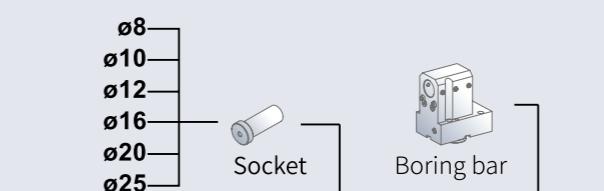
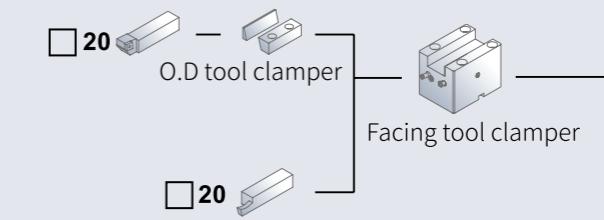
Morse taper tool holder ,F



O.D. tool holder , B3

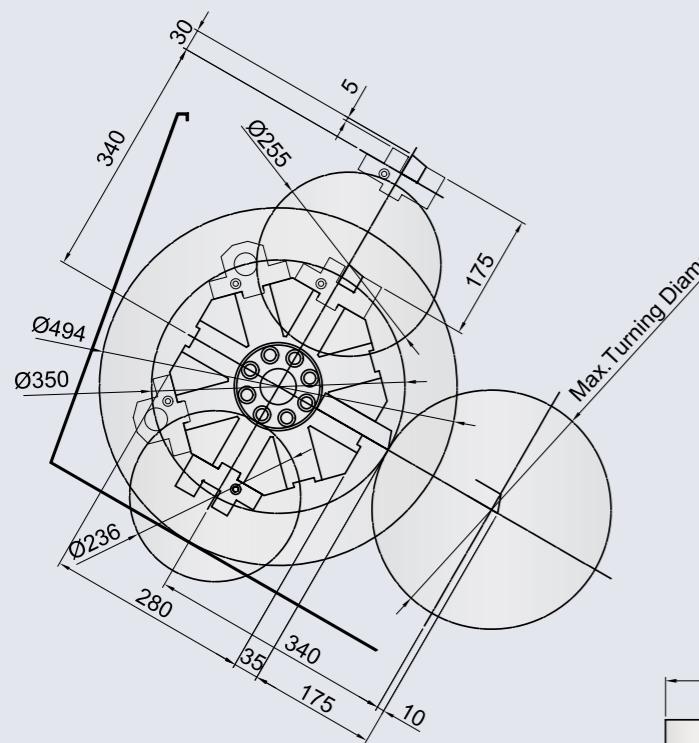


O.D. tool holder , B1

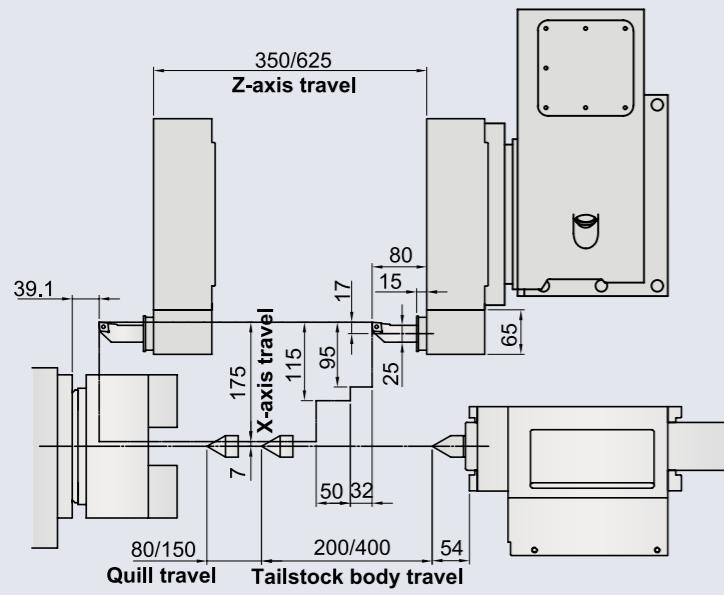
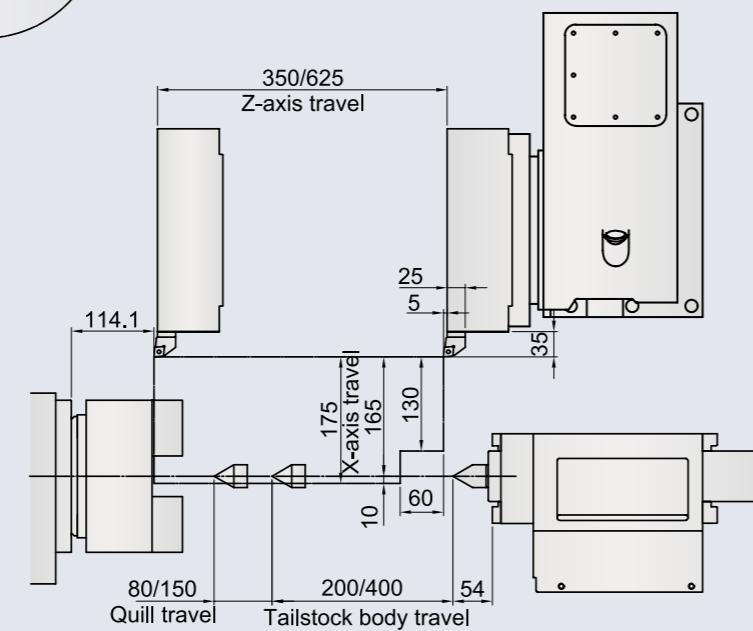


12 -Station power turret (APT30)

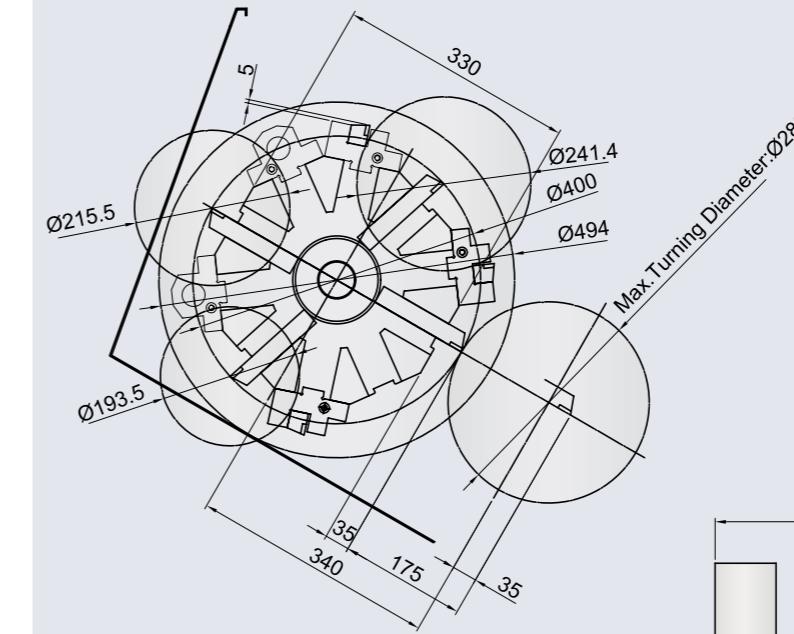
Working Range Diagram



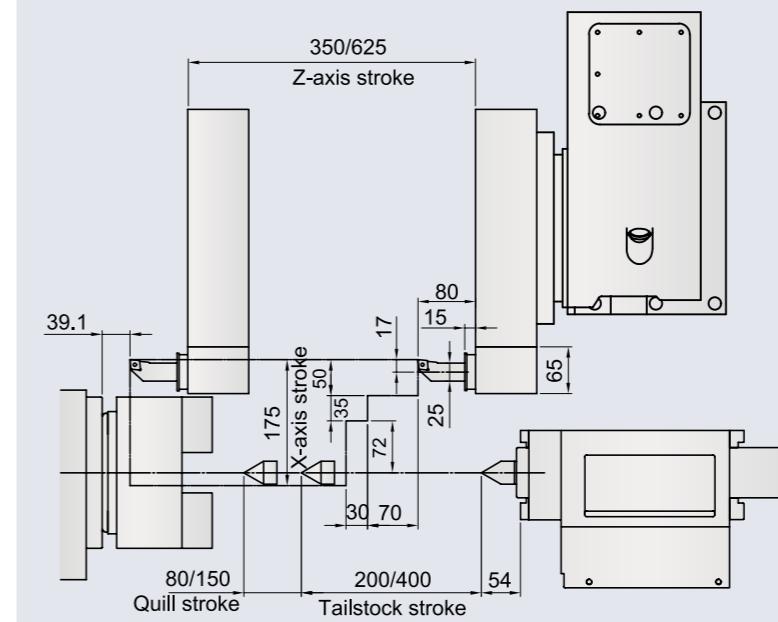
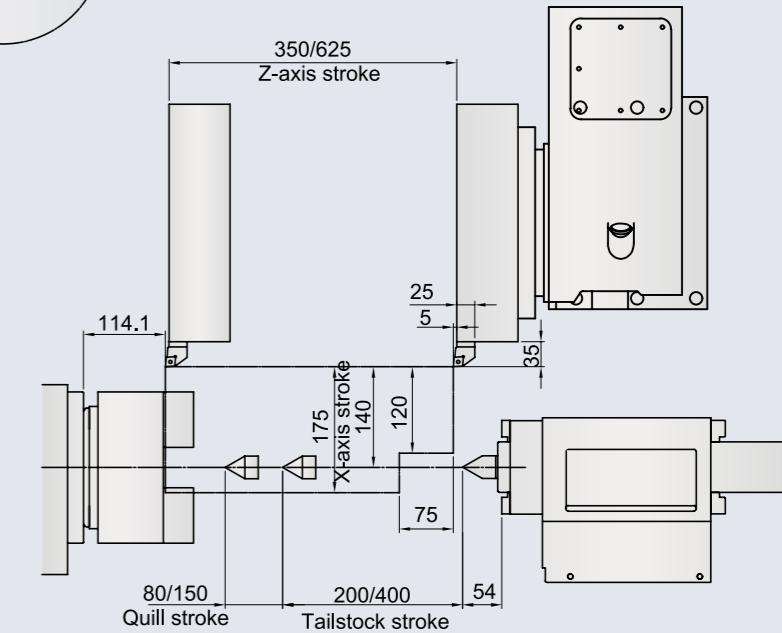
8-station turret



Working Range Diagram

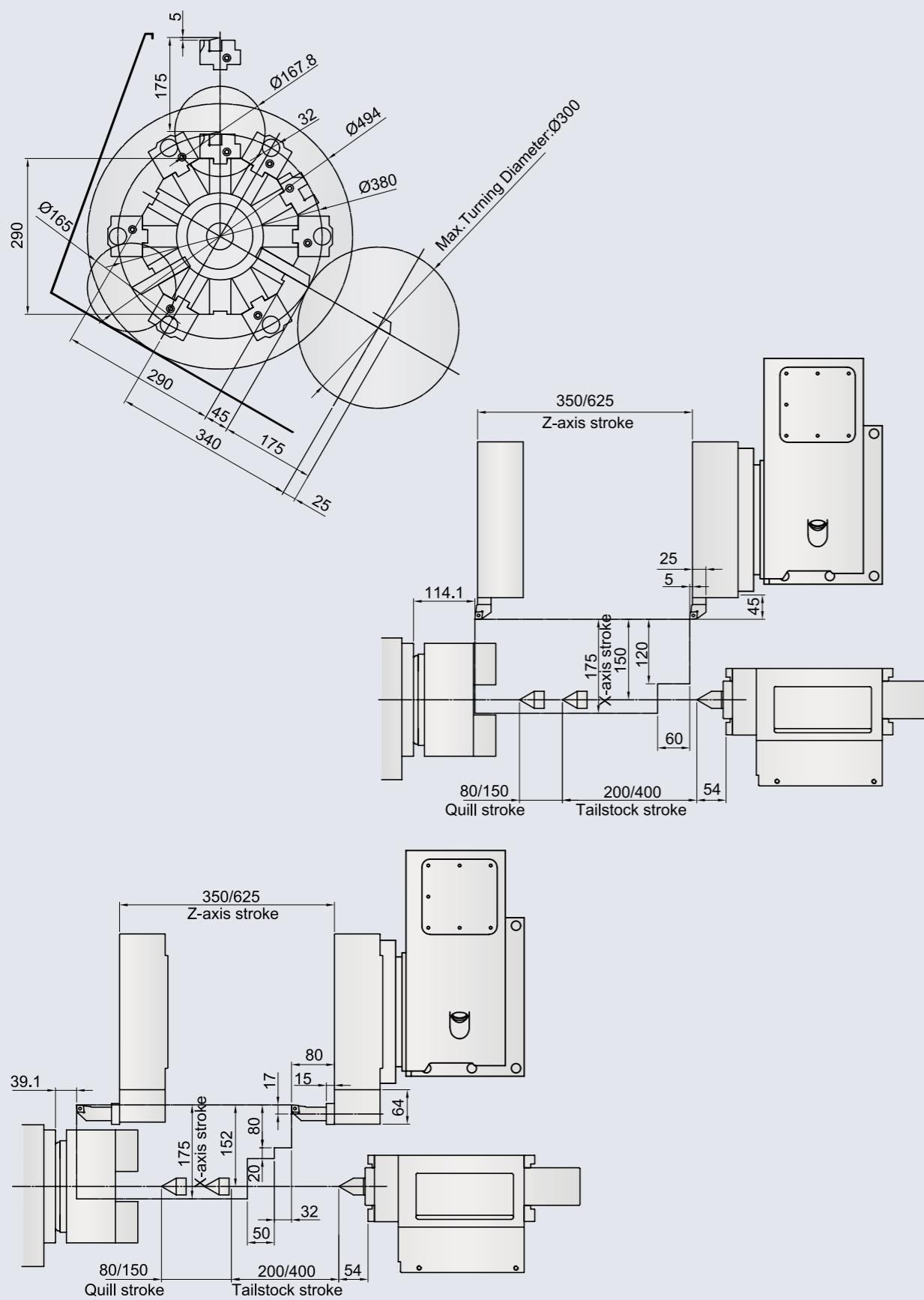


10-station turret



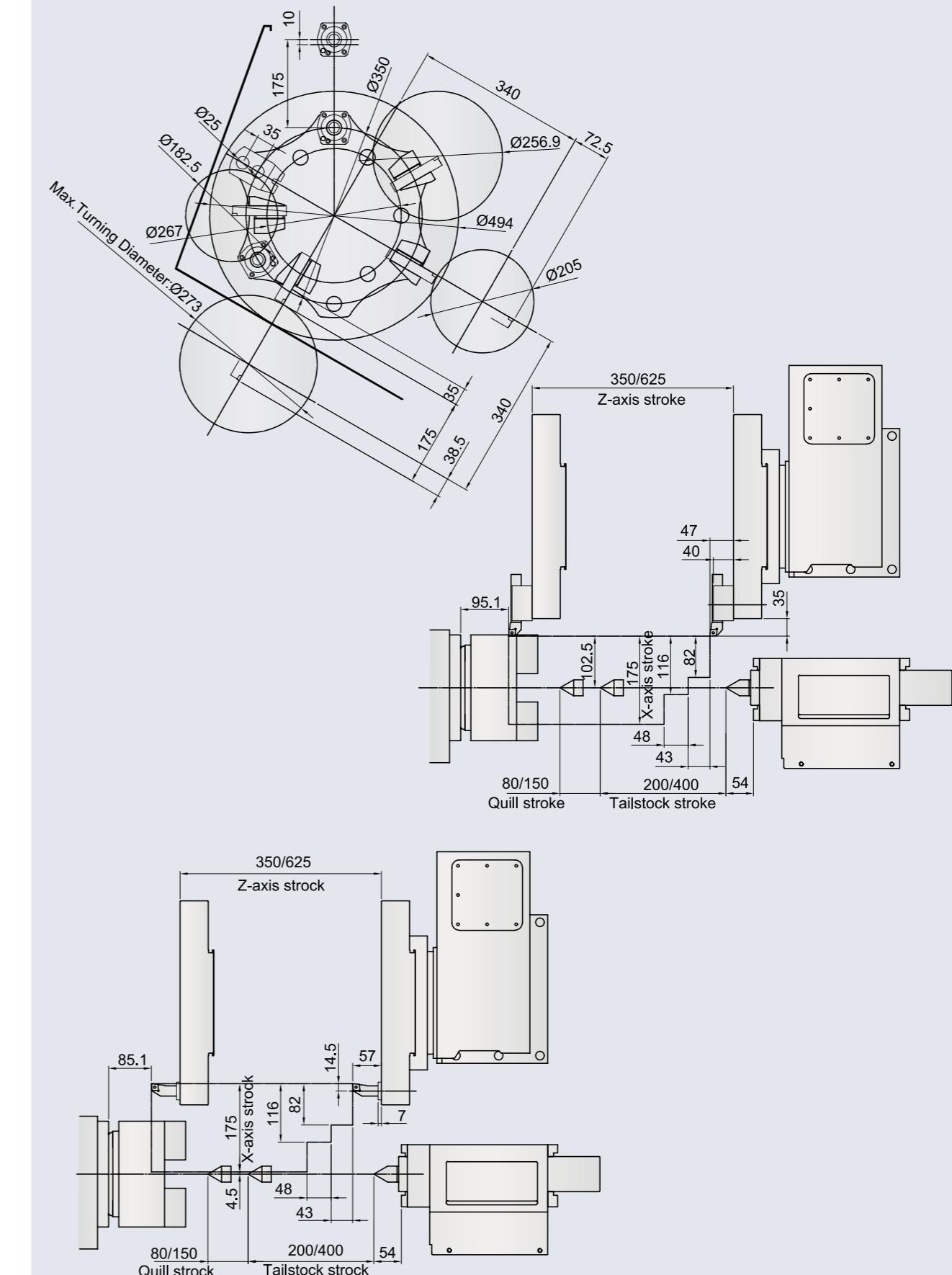
Working Range Diagram

12-station turret



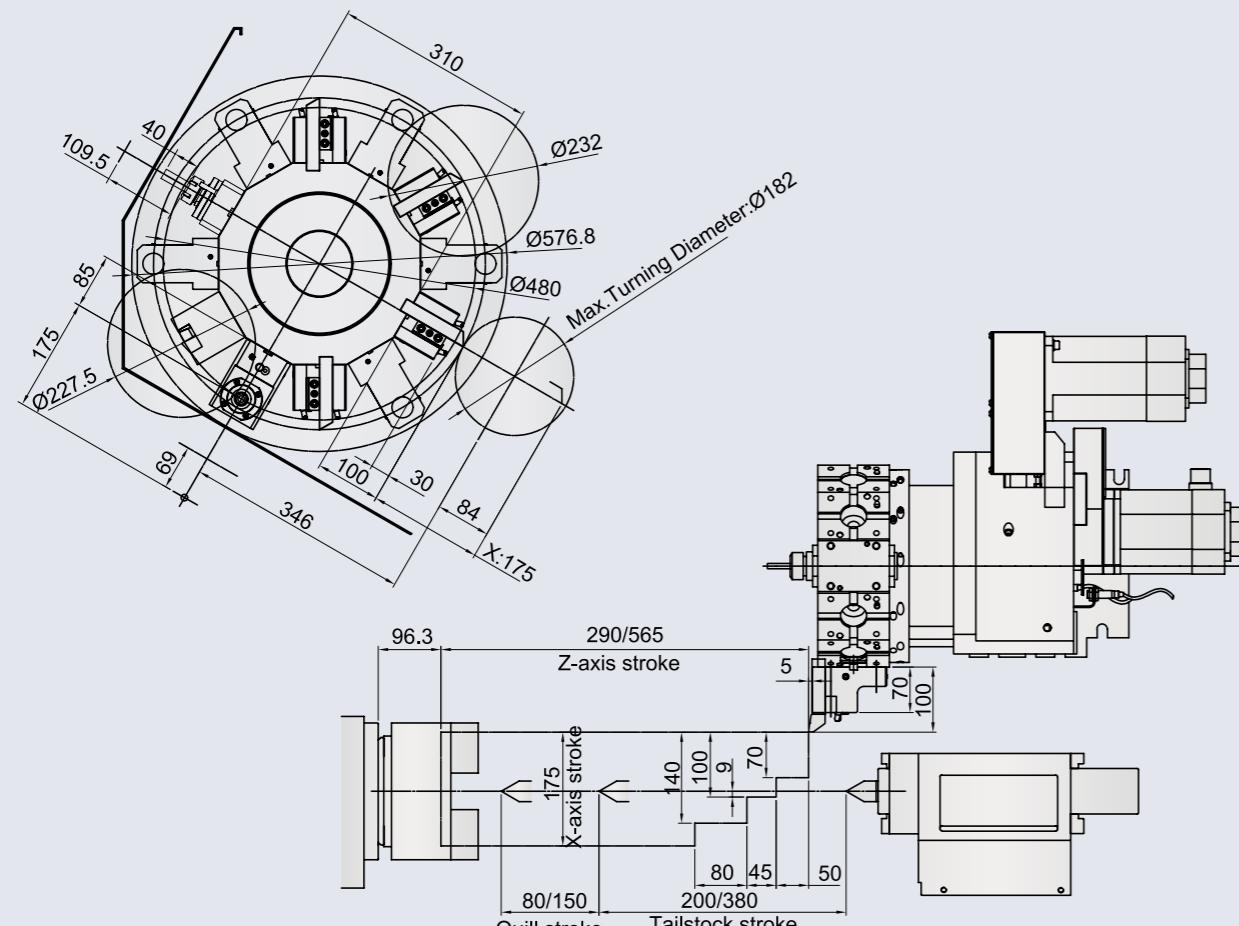
Working Range Diagram

12-station VDI 30 turret



Working Range Diagram

12-station APT 30 power turret

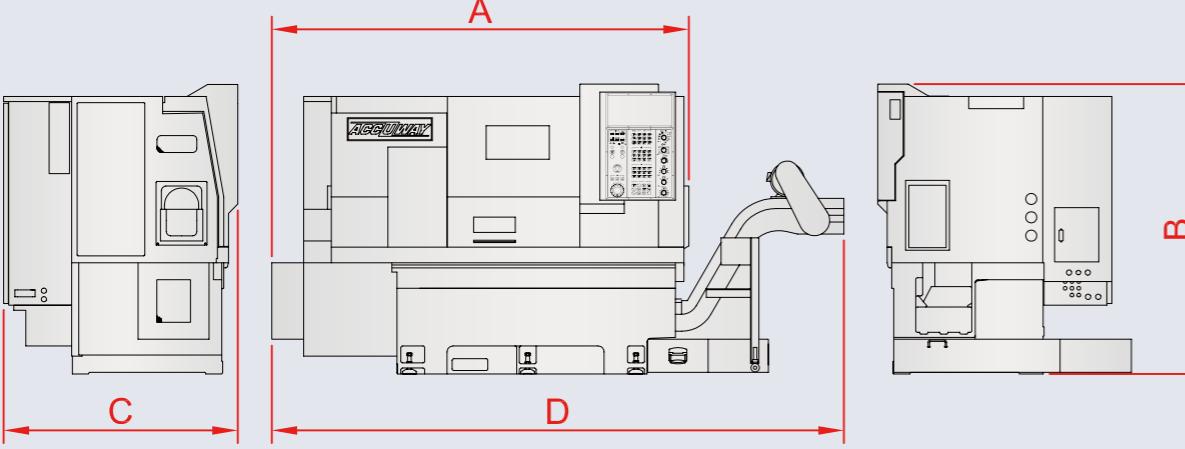


Specifications

ITEM/MODEL	UL-15	UL-15M	UL-20	UL-20M
Controller				FANUC 0i-T
CAPACITY				
Swing over bed	mm		455	
Swing over saddle	mm		260	
Max. turning diameter	mm	280	180	280
Max. turning length	mm	300	210	600
Guide way type		Box Way		
SPINDLE				
Spindle nose taper	ASA		A2-6 (A2-5)	
Chuck diameter	inch		8 (6)	
Bar capacity	mm		52/65 (44)	
Spindle speed	rpm		4500/4000 (6000)	
Spindle motor power (Cont. / 30min)	kW		11/15	
TRAVELS				
X-axis travel	mm		175	
Z-axis travel	mm	350		625
Y-axis travel	mm		-	
FEED RATES				
X-axis Rapid Traverse Rate	m/min		20	
Z-axis Rapid Traverse Rate	m/min		20	
Y-axis Rapid Traverse Rate	m/min		-	
TURRET				
Tooling system		BOT	-	BOT
Turret driven type		Hydraulic/Servo	Servo mechanical	Hydraulic/Servo
Number of tools	station	10/12 (8)	12	10/12 (8)
Square tool shank size	mm	25/20 (25)	20	25/20 (25)
Round tool shank size	mm		32	
Max. Rotary Tool Speed	rpm	-	6000	-
Rotary Tool power	kW	-	4.5	-
TAILSTOCK				
Tailstock body travel	mm	200		400
Quill travel	mm	80		150
Quill diameter	mm		70	
Quill taper	MT#		4	
DIMENSION				
Machine dimension L x W x H	m	2.2 x 1.5 x 1.7	2.4 x 1.5 x 1.75	2.5 x 1.5 x 1.7
Net weight	kg	2850	3000	3350

■ Specifications are subject to change without prior notice.

Machine Dimensions



Model	A	B	C	D
UL-15	2250	1700	1500	3100
UL-15M	2350	1750	1500	3100
UL-20	2450	1700	1500	3400
UL-20M	2600	1750	1500	3400