

# Specification

Item / Model		UL-15	UL-20
Controller		FANUC 0i-T	
Capacity			
Swing over bed	mm	455	455
Swing over saddle	mm	260	260
Max. turning diameter	mm	330	330
Max. turning length	mm	300	600
Spindle			
Spindle nose	ASA	A2-6 (A2-5)	
Power chuck diameter	in	8 (6)	
Spindle speed	rpm	4500 / 4000 (6000)	
Spindle motor power <Cont. / 30 min>	kW	11 / 15	
Bar capacity	mm	52 / 65 (45)	
Travels			
Z-axis	mm	330	625
X-axis	mm	175	175
Rapid Feed Rate			
Z-axis	m / min	20	20
X-axis	m / min	20	20
Turret			
Turret type		Hydraulic mechanical	
Tooling system		BOT/VDI	
Number of tools	station	8 (12)	8 (12)
Square tool shank size	mm	25 ( 20)	25 ( 20)
Round tool shank size	mm	32	32
Tailstock			
Tailstock body travel	mm	200	400
Quill travel	mm	80	150
Quill diameter	mm	70	70
Quill taper	MT#	4	4
Machine Dimension			
Floor space	m	2.2 × 1.3	2.4 × 1.3
Height	m	1.6	1.6
Net weight	kg	3000	3500

\*Specifications are subject to change without prior notice.

## Standard Accessories

1. Hollow 3-jaw hydraulic cylinder & chuck
2. Hydraulic turret and tool holders
3. FANUC 0i-T controller
4. 8.4" color LCD monitor
5. Registered part program numbers: 400 sets
6. Part program memory size: 640mm
7. RS-232 interface
8. Heat exchanger for electric cabinet
9. Hydraulic power supply unit
10. Coolant system
11. Full-enclosed axis way cover
12. Automatic lubrication system
13. Three-color warning light
14. Soft and hard jaw
15. Tool kit
16. Operation manual
17. Chip conveyor
18. Chip cart

## Optional Accessories

1. Collect chuck
2. Tool setter
3. External control box
4. Parts catcher
5. Bar feeder interface 7 or 24 pins
6. Bar feeder
7. Oil skimmer
8. Oil mist collector
9. Air cooler for electric cabinet
10. Transformer



# ACCUWAY

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ISO 9001  
FM 583077

## UL Series

### Flat-Bed CNC Turning Center



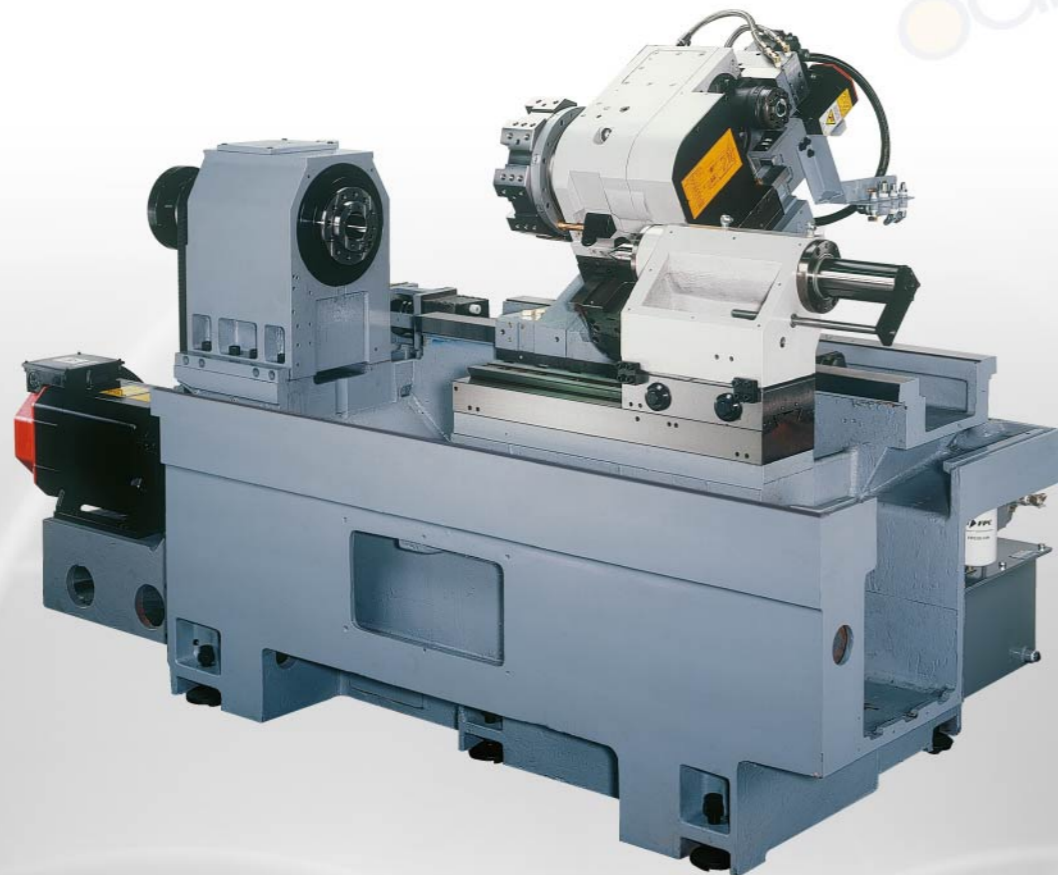


### Delicate scraping works

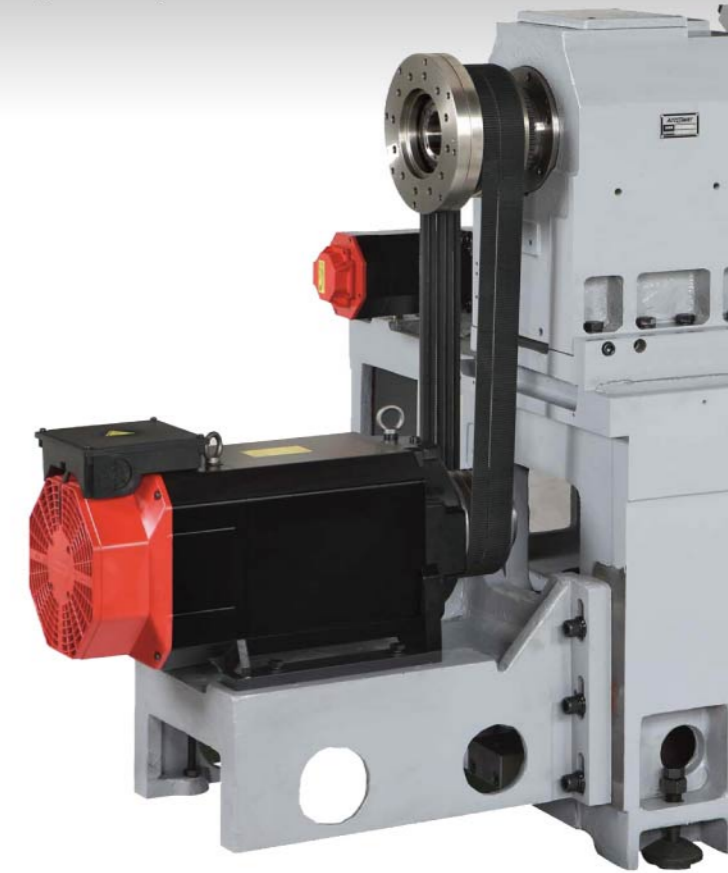
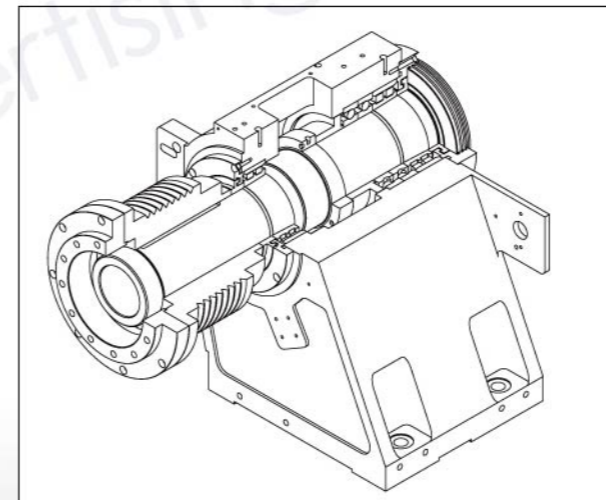
- Gibs and sliding surfaces coated with Turcite-B are hand scraped to create oil pockets and grooves for precise motion and extended life.
- Skilled workers perform continuous surface trimming to adjust flatness, squareness and straightness to satisfy accuracy requirements.

### Robust Casting Design

- One-piece flatbed base coupled with 30 ° slant saddle, made of high tensile strength MEEHANITE casting, heat treated and ground. Hardness may reach 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.

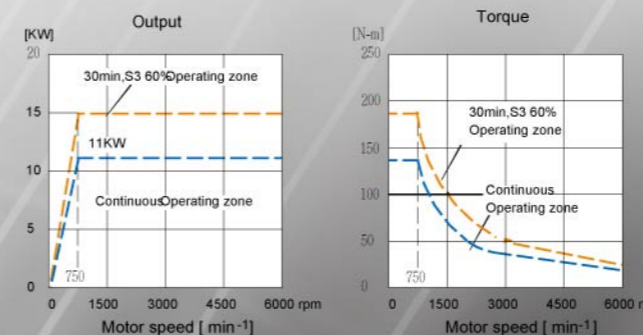


- Reinforced headstock structure with symmetrical design balances thermal displacement and reduces spindle errors. Annealed, natural seasoning diminishes internal residual stress for stable material quality and assures long-term machining accuracy.
- Large-diameter, high-precision dual-roller bearings and self-alignment angular contact ball bearings support spindle to withstand radial, axial, and combined loading. It is applicable to high-speed fine turning as well as low-speed, heavy-duty turning.
- High-performance, wide-range spindle motor powered by 20 hp offers full-scale power output at speed range of 750-6000 rpm. In addition, 190 N-m high-torque acceleration makes it the most powerful lathe at this level.

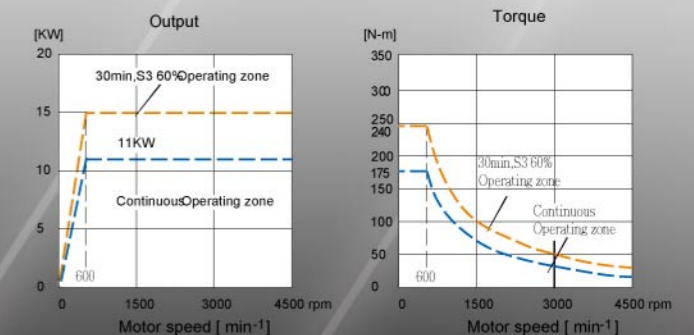


### Spindle Motor Torque Chart

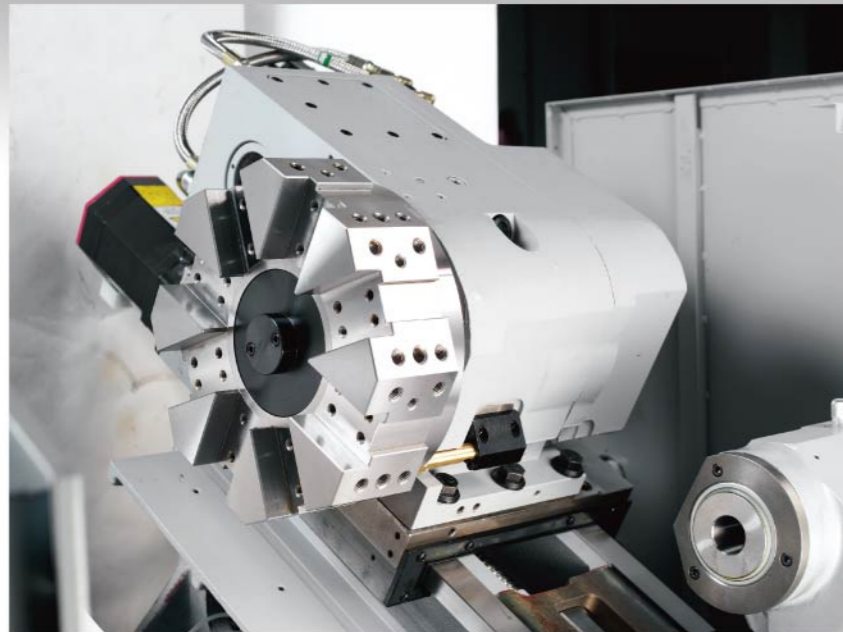
UL-15/20 (α22/6000ip)A2-5



UL-15/20 (α 22/6000ip)A2-6



## 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.

## Automatic Door

- Door is open automatically while a machining cycle comes to an end. This function saves cycle time drastically and adds you more profits.



## High performance X and Z axis box slideways



- Pre-loaded double-nut ballscrews featuring high rigidity, alleviate backlash more effectively.
- Square box slideways on X/Z axes have high stiffness, large contact areas and excellent damping effects. They are the best design to sustain heavyduty as well as segmented cuttings.

## Parts Catcher

- Upon completion of turning cycle, catcher automatically receives workpiece, then conveys it out the gate to workpiece collection box, saves more time if fitted with automatic bar-feeder.



## FANUC Di-T controller

- FANUC Di-T controller with color LCD monitor, integrated with one-piece control panel, allows operator to set running time for chip conveyor directly from the panel for most comfortable and convenient man-machine interface.

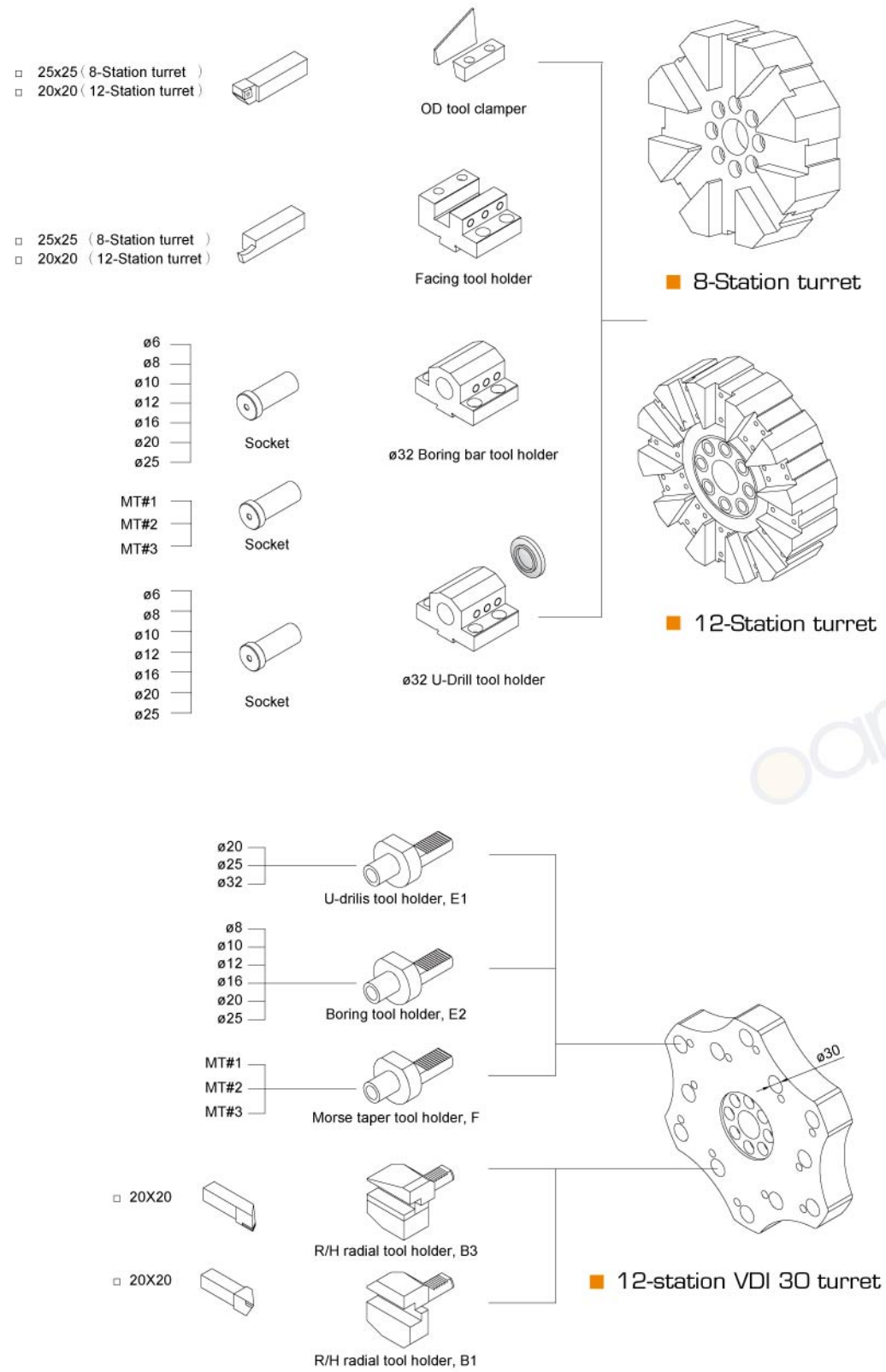


## Tool Setter

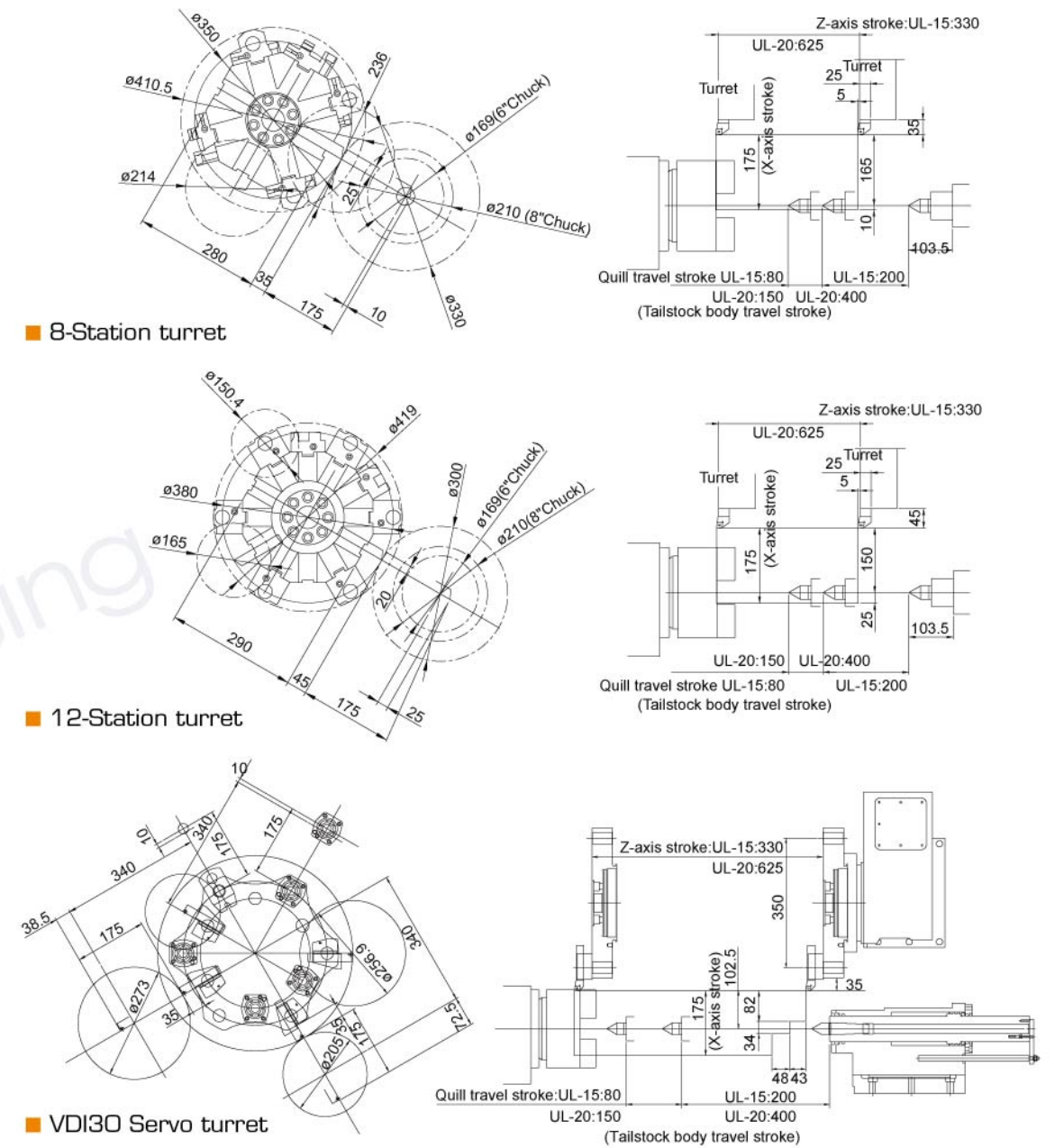
- Eliminating downtime for tool inspection and compensation, this manual tool setter measures and offsets tool wear to maintain 5µm repeatability accuracy.



## Tooling system



## Working range diagram



## Machine outline drawing

MODEL	A	B	C	D	E
UL-15	2030	1640	1380	1860	3100
UL-20	2200	1640	1380	2030	3280

