

ACCUWAY



ACCUWAY
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UV45/55/75/100
Vertical Turning Center

Rigid Structure

UV-45/55/75



Robust and rigid structure design

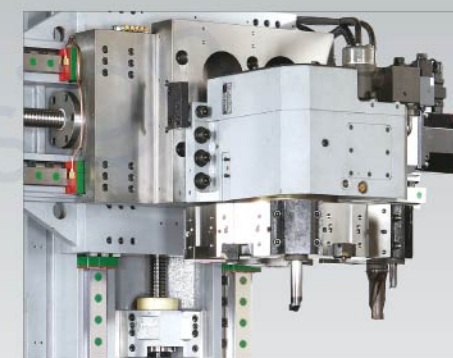
- Meehanite grade castings are internally reinforced with heavy ribs to resist bending and damp vibrations, and each one is thoroughly inspected prior to machining to ensure it is free of flaws.
- Castings feature intensive symmetric ribs that not only increase rigidity but also improve thermal stability. Massive base and special column castings further decrease natural frequency, ensuring precise accuracy and repeatability.
- Easy chip flush space design and separate coolant tank prevents thermal distortion on castings from coolant heat.

Main Features



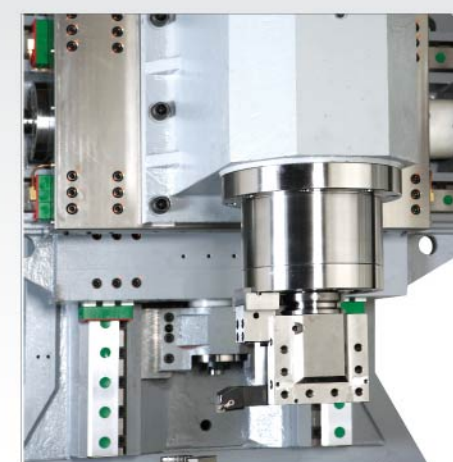
Heavy duty cutting spindle design

- Strong rigid bearing structure allows heavy duty cutting under workpiece self-weight with asymmetric geometry while performing excellent accuracy. It must pass through continuous run-in test to reach smooth mating tolerance between spindle shaft and support bearings to withstand high vibration and heat distortion.
- Large diameter main spindle bearing combining powerful wide range torque spindle motor offers highest rigidity to satisfy versatile cutting requirements.



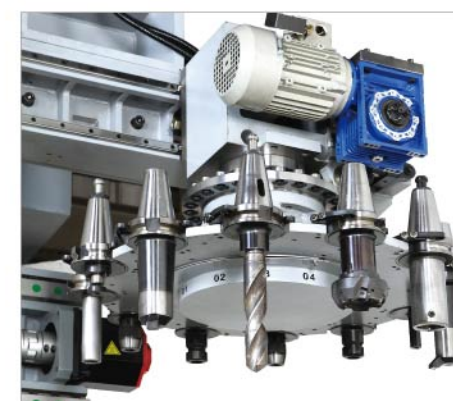
Reliable hydro-mechanical turret

- Applies hydraulic motor with cam mechanism designed for fast, smooth and precise indexing. It has large diameter curvic coupling for tool clamping under heavy-duty machining.
- Bolt-on or VDI tooling systems are available for proper tool holders selection satisfying most machining processes.



Hybrid machining capability

- Hybrid ATC design offers multiple machining functions such as turning, milling, drilling and rigid tapping operations if integrated with subspindle and live toolings. It also eliminate secondary operations and increase productivity by reducing time of loading & unloading and fixture cost.
- C-axis provides indexing resolution of 0.01 degree per increment. Contouring, complex round and prismatic machining, rectangular slot and lettering are accomplished by synchronizing the spindle with the X and Z axes. Rigid tapping can be done with both cylindrical and end-working surfaces.



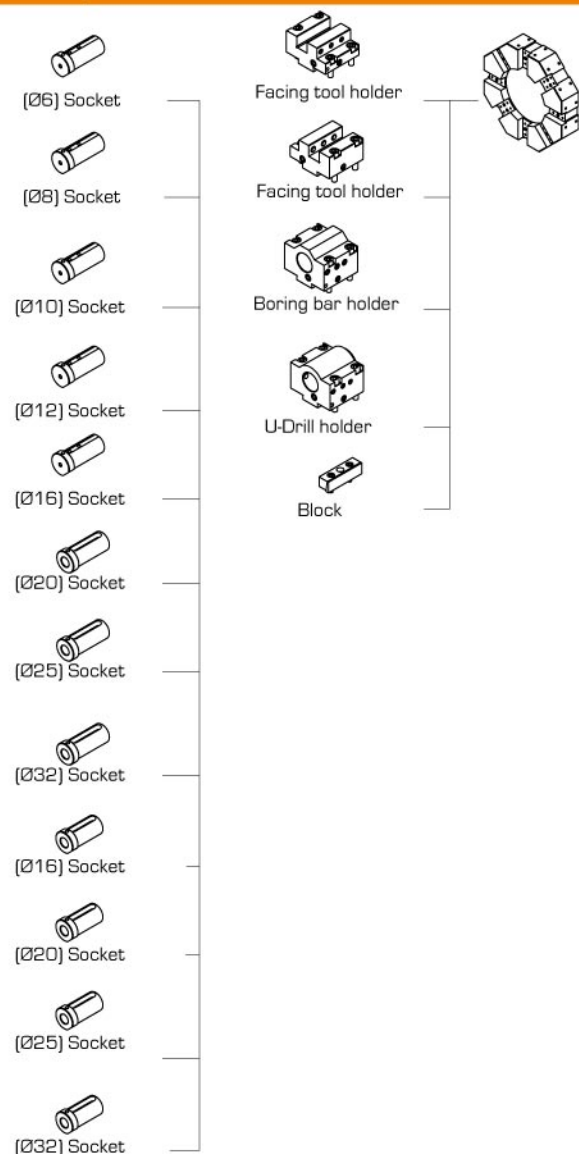
ATC

The 12-tool magazine meets the demands of various machining operations and being convenient for fast tool selection and easy operation.

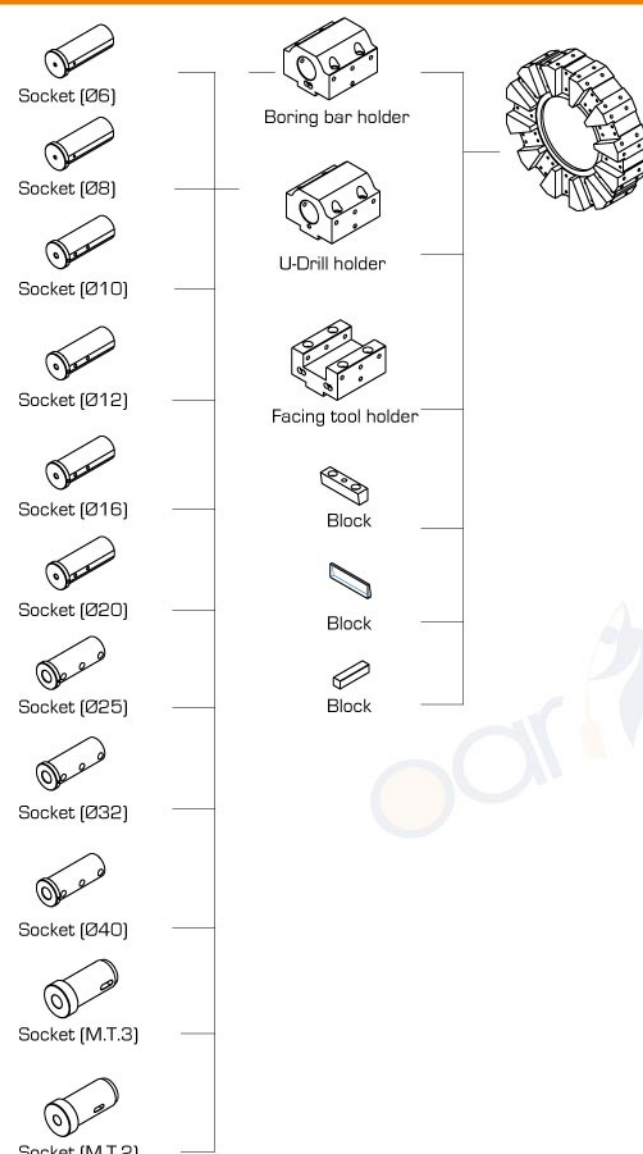
- Maximum weight of single tool holder: 50 kg
- Maximum rotary tool power: 7.5 kW
- Tool holder taper: BT-50
- Tool magazine indexing mechanism: cam

Tooling System

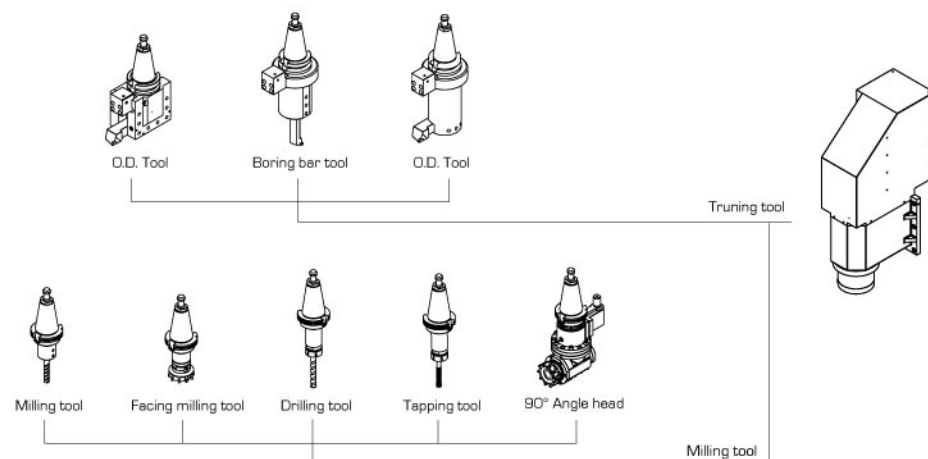
UV-45E/UV55E



UV-75E

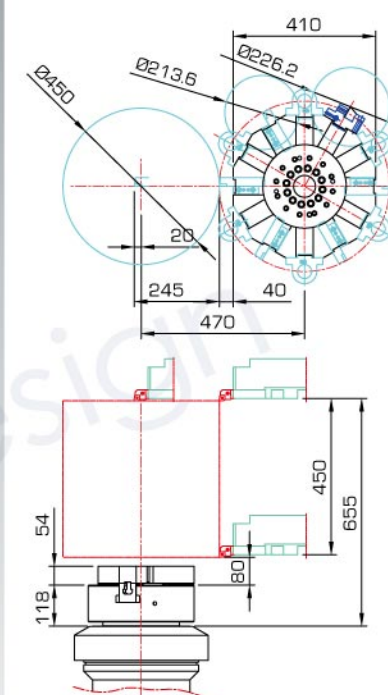


UV-75ATCC / UV-100ATCC

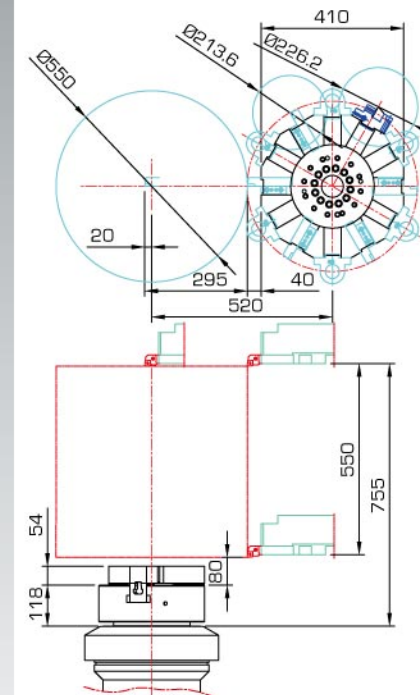


Tool Interference & Working Range Diagram

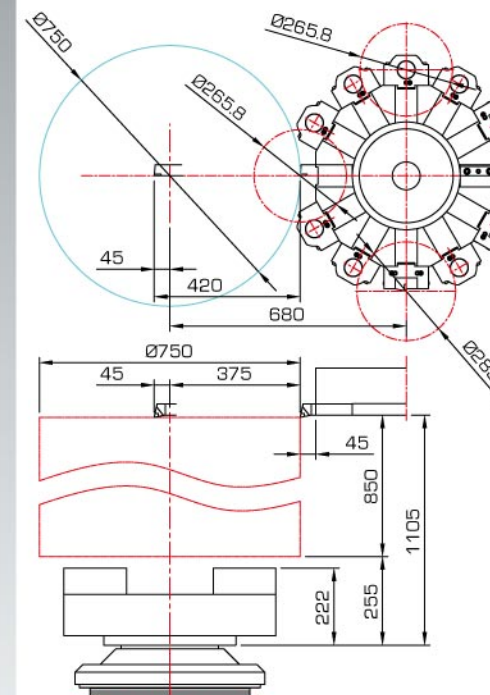
UV-45E



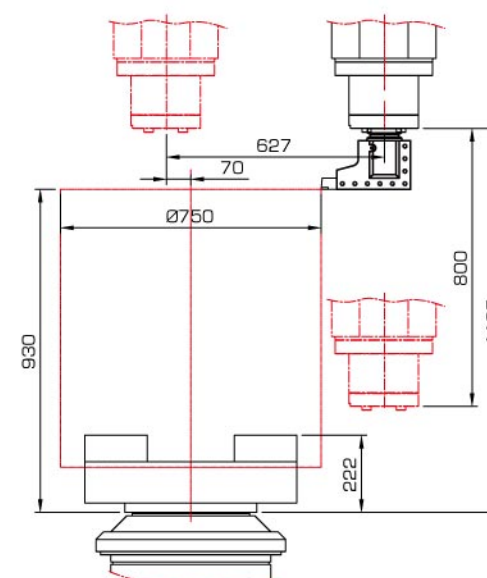
UV-55E



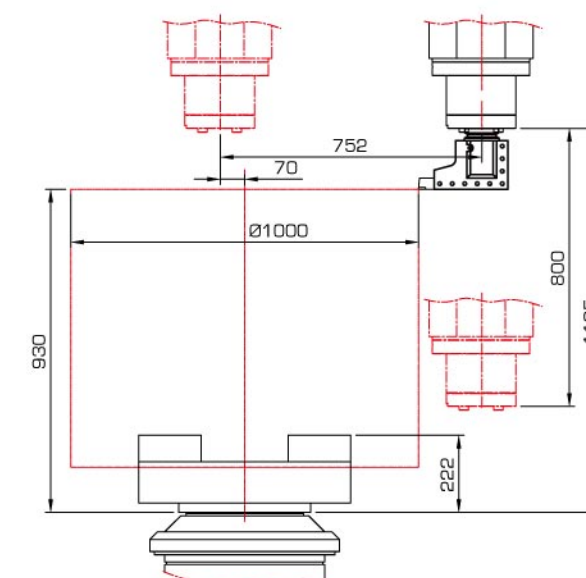
UV-75E



UV-75 ATC/ATCC



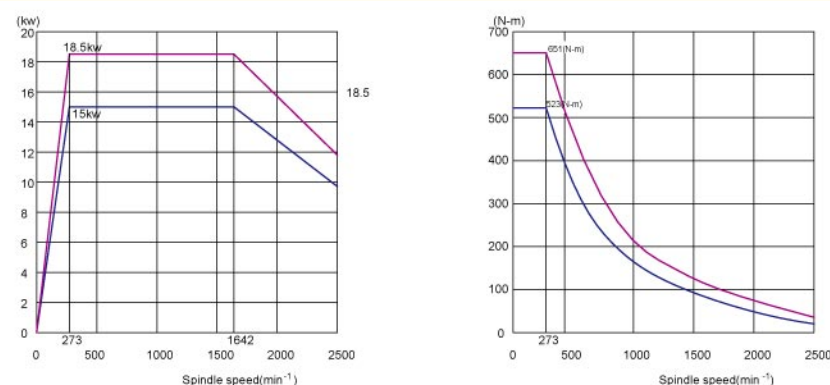
UV-100 ATC/ATCC



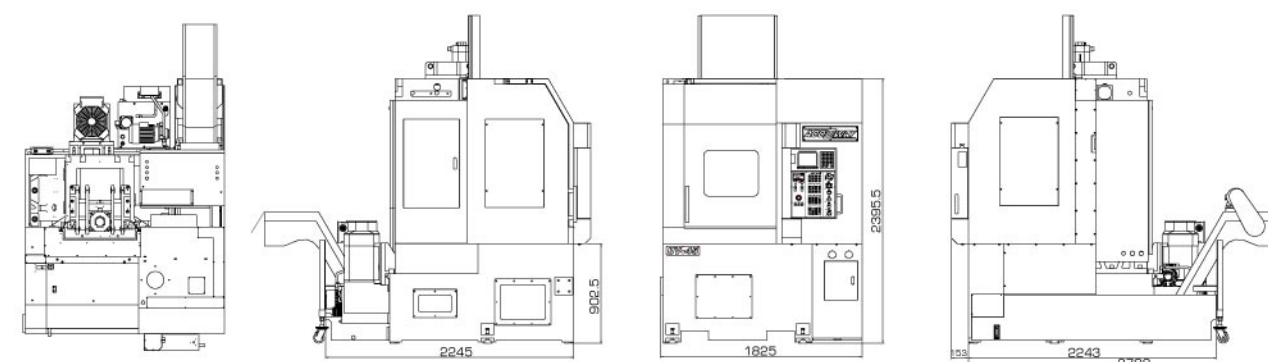
Spindle Torque Diagram

Machine Dimensions

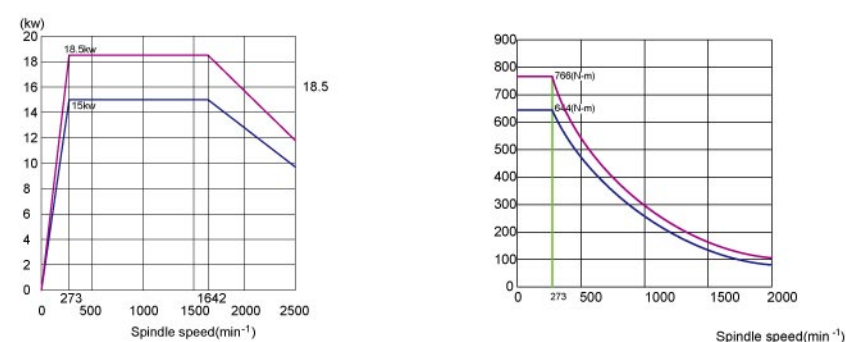
UV-45



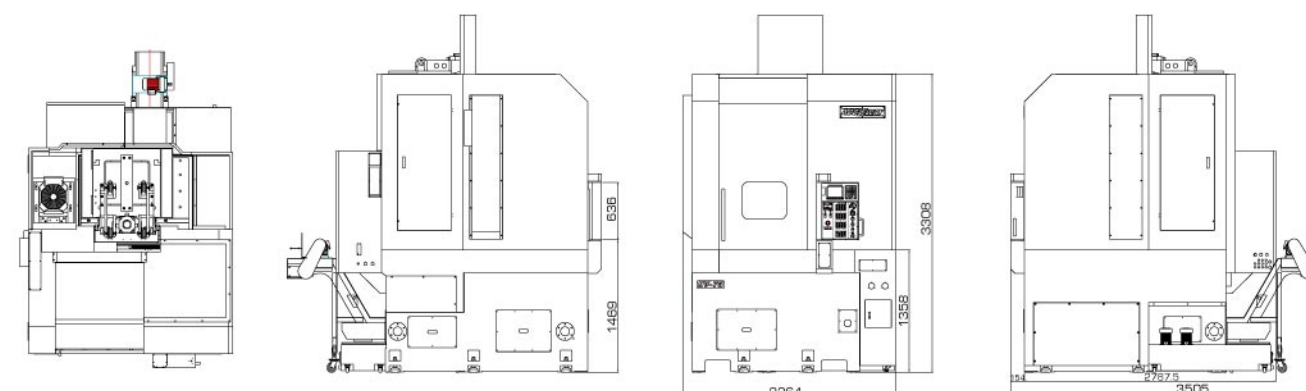
UV-45/UV-55



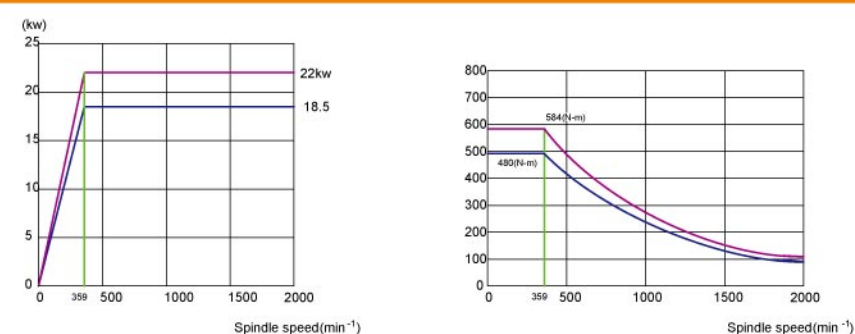
UV-55



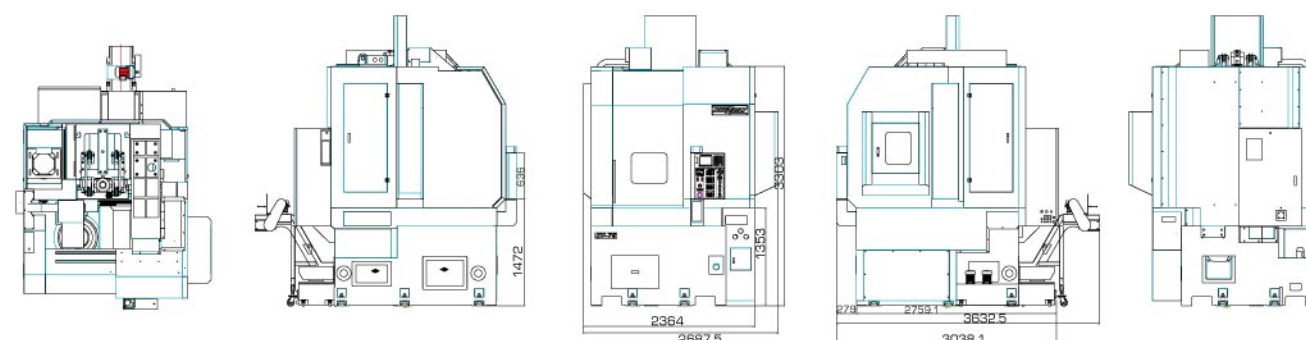
UV-75



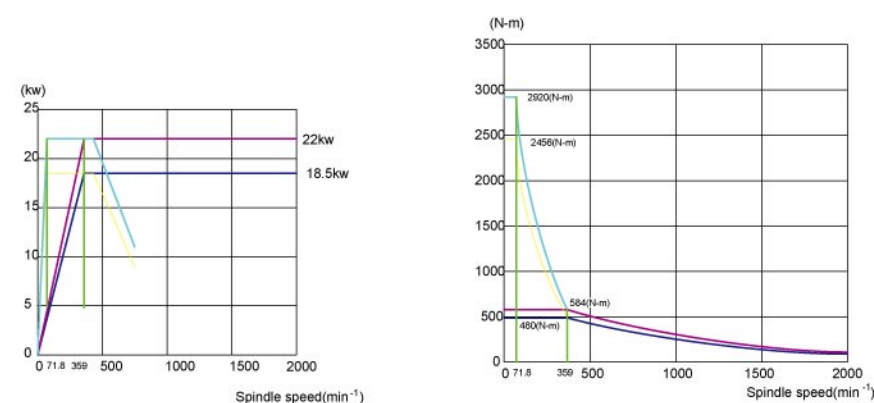
UV-75



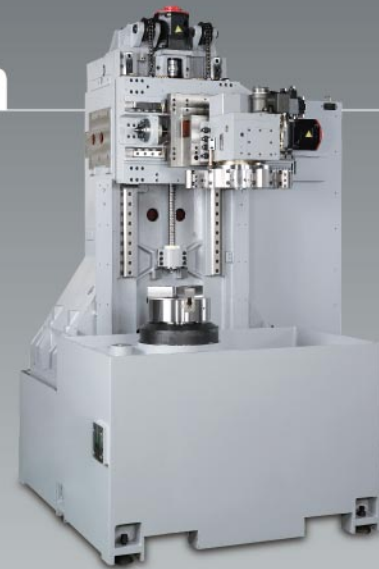
UV-100



UV-100



UV-45 Specification



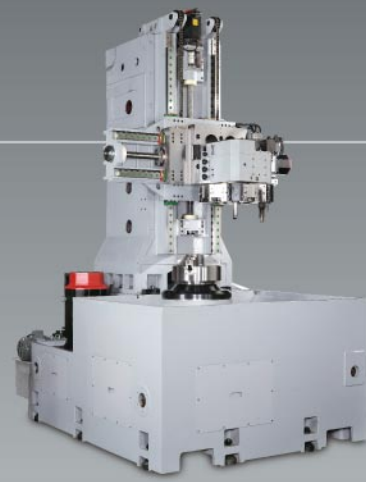
Item / Model		UV-45E	UV-45EC
Capacity			
Max. swing	mm	ø600	ø600
Max. turning diameter	mm	ø450	ø450
Max. turning length	mm	400	400
Spindle			
Spindle speed	rpm	50~2500	50~2500
Spindle bearing diameter	mm	130	130
Spindle nose	ASA	A2-8	A2-8
Chuck diameter	in	12 / 15(OP.)	12 / 15(OP.)
Turret			
Type		Bolt-on tool	Bolt-on tool / VDI
Number of tools	pcs	12	12
Tool shank size	mm	□ 25/ø40	□ 25/ø40
Travels			
X-axis travel	mm	-20~+225	-20~+225
Z-axis travel	mm	450	450
Rapid traverse- X axis	m/min	20	20
Rapid traverse- Z axis	m/min	24	24
Motor			
Spindle motor power	kW	15/18.5	15/18.5
X-axis motor	kW	3	3
Z-axis motor	kW	3	3
Hydraulic motor	kW	2.2	2.2
Coolant pump motor	kW	0.5+1	0.5+1
Rotary tool driving motor	kW	-	3.7/5.5
Machine Dimension			
Floor space (L x W)	mm	1850 x 3000	1850 x 3000
Height	mm	3060	3060
Net weight	kgs	5000	5500

UV-55 Specification



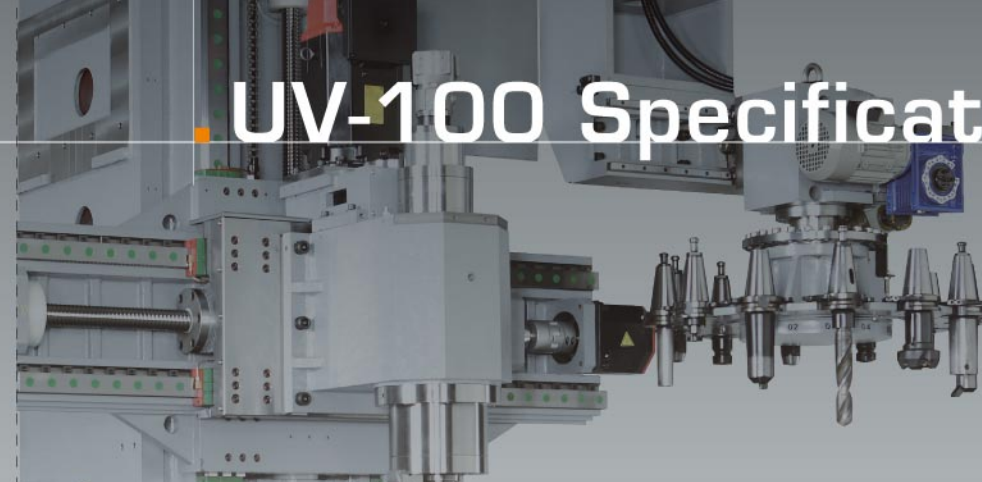
Item / Model		UV-55E	UV-55EC
Capacity			
Max. swing	mm	ø750	ø750
Max. turning diameter	mm	ø550	ø550
Max. turning length	mm	550	550
Spindle			
Spindle speed	rpm	50~2500	50~2500
Spindle bearing diameter	mm	130	130
Spindle nose	ASA	A2-8	A2-8
Chuck diameter	in	12 / 15(OP.)	12 / 15(OP.)
Turret			
Type		Bolt-on tool	Bolt-on tool / VDI
Number of tools	pcs	12	12
Tool shank size	mm	□ 25/ø40	□ 25/ø40
Travels			
X-axis travel	mm	-20~+275	-20~+275
Z-axis travel	mm	550	550
Rapid traverse- X axis	m/min	20	20
Rapid traverse- Z axis	m/min	24	24
Motor			
Spindle motor power	kw	15/18.5	15/18.5
X-axis motor	kW	3	3
Z-axis motor	kW	3	3
Hydraulic motor	kW	2.2	2.2
Coolant pump motor	kW	0.5+1	0.5+1
Rotary tool driving motor	kW	-	3.7/5.5
Machine Dimension			
Floor space (L x W)	mm	1850x3000	1850x3000
Height	mm	3060	3060
Net weight	kgs	5300	5800

UV-75 Specification



Item / Model		UV-75E	UV-75EC	UV-75ATC	UV-75ATCC
Capacity					
Max. swing	mm	ø850	ø850	ø850	ø850
Max. turning diameter	mm	ø750	ø750	ø750	ø750
Max. turning length	mm	800	800	700	700
Spindle					
Spindle speed	rpm	20~1400	20~1400	20~1400	20~1400
Spindle bearing diameter	mm	160	160	160	160
Spindle nose	ASA	A2-11	A2-11	A2-11	A2-11
Chuck diameter	in	24 / 32(OP.)	24 / 32(OP.)	24 / 32(OP.)	24 / 32(OP.)
Sub spindle					
Spindle taper		-	-	BT 50	BT50
Spindle speed	rpm	-	-	-	2000
Spindle bearing diameter	mm	-	-	-	ø100
Turret					
Type		Bolt-on tool	Bolt-on tool / VDI	ATC	ATC
Number of tools	pcs	12	12	12	12
Tool shank size		32/ ø50	32/ ø50	BT-50	BT-50
Travels					
X-axis travel	mm	-45~+375	-45~+375	-70~+580	-70~+580
Z-axis travel	mm	800	800	800	800
Rapid traverse- X axis	m/min	20	20	20	20
Rapid traverse- Z axis	m/min	24	24	24	24
Motor					
Spindle motor power	kW	18.5/22	18.5/22	18.5/22	18.5/22
X-axis motor	kW	4	4	4	4
Z-axis motor	kW	4	4	4	4
Hydraulic motor	kW	2.2	2.2	2.2	2.2
Coolant pump motor	kW	0.5+1	0.5+1	0.5+1	0.5+1
Sub spindle motor	kW	-	5.5/7.5	-	5.5/7.5
Machine Dimension					
Floor space (L x W)	mm	3500X2364	3500X2364	3650X2700	3650X2700
Height	mm	4037	4037	4037	4037
Net weight	kgs	15000	15000	16000	16500

UV-100 Specification



Item / Model		UV-100ATC	UV-100ATCC
Capacity			
Max. swing	mm	ø1100	ø1100
Max. turning diameter	mm	ø1000	ø1000
Max. turning length	mm	700	700
Spindle			
Spindle speed	rpm	10~600(2-Speed gear)	10~600(2-Speed gear)
Spindle bearing diameter	mm	220	220
Spindle nose	ASA	A2-11	A2-11
Chuck diameter	in	24 (32)	24 (32)
Sub spindle			
Spindle taper		BT 50	BT50
Spindle speed	rpm	-	2000
Spindle bearing diameter	mm	-	ø100
Turret			
Type		ATC	ATC
Number of tools	pcs	12	12
Tool shank size		BT50	BT50
Travels			
X-axis travel	mm	-70~+705	-70~+705
Z-axis travel	mm	800	800
Rapid traverse- X axis	m/min	20	20
Rapid traverse- Z axis	m/min	24	24
Motor			
Spindle motor power	kW	18.5/22	18.5/22
X-axis motor	kW	4	4
Z-axis motor	kW	4	4
Hydraulic motor	kW	2.2	2.2
Coolant pump motor	kW	0.5+1	0.5+1
Sub spindle motor	kW	-	5.5/7.5
Machine Dimension			
Floor space (L x W)	mm	3750 x 2550	3750 x 2550
Height	mm	4037	4037
Net weight	kgs	16500	17000