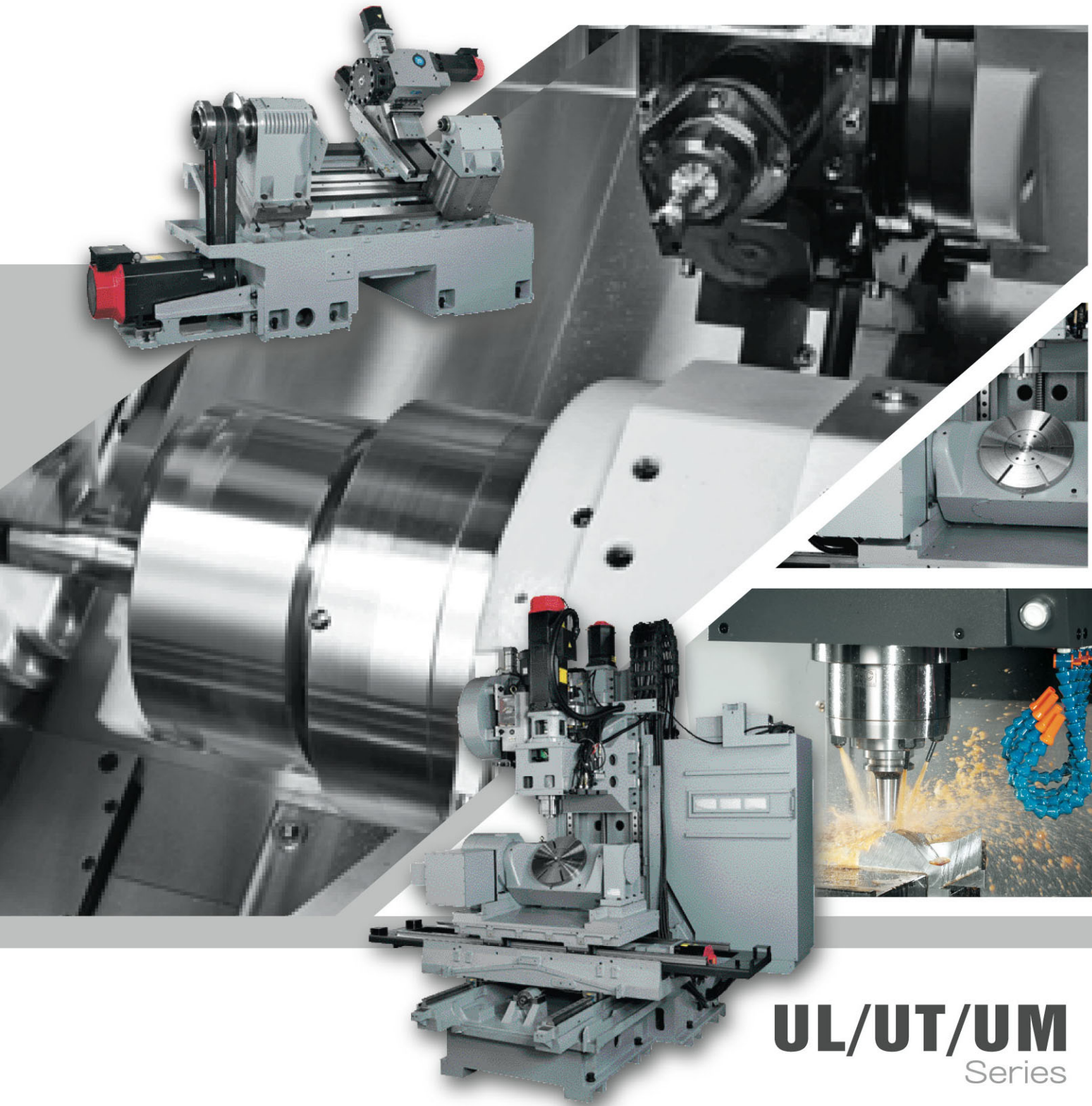


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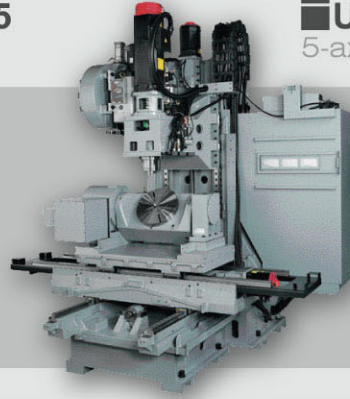
**UL/UT/UM**  
Series

CE

## UM-350V5

## UM-500V5

5-axis Vertical Machining Center



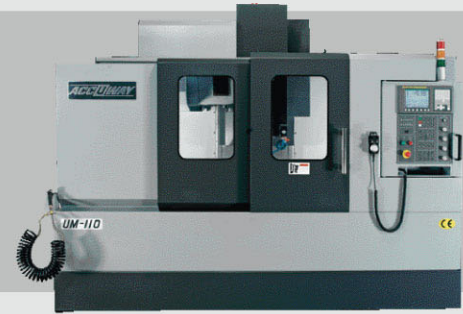
Item / Model		UM-350V5	UM-500V5
<b>SPINDLE</b>			
Spindle speed	rpm	12000(10000)	
Spindle taper size		BT 40	
Bearing inner diameter	mm	70	
Drive system	mm	Direct	
<b>TRAVELS</b>			
X-axis	mm	700	1000
Y-axis	mm	550	650
Z-axis	mm	470	
A-axis	deg	-120° / +10°	-120° / +30°
C-axis	deg	360°	
Max. speed of rotary axis (C-axis)	rpm	33.3	25
Max. speed of tilting axis (A-axis)	rpm	25	12.5
Max. weight on table at 0 degree	kg	200	300
Max. weight on table at 90 degree	kg	100	250
Spindle nose to table	mm	120-590	
<b>TABLE</b>			
Table size	mm	φ 350	φ 500
Max. swing	mm	φ 490	φ 730
Max. workpiece size	mm	φ 490 × 450	φ 730 × 450
T-slot size	mm	12	14
<b>FEED RATES</b>			
(X/Y/Z) Rapid traverse rate	m/min	42/42/30	
Cutting feed rate	m/min	12	
Ball screw diameter	mm	45	
Guideway type		Roller	
<b>AUTOMATIC TOOL CHANGE SYSTEM</b>			
Capacity	pcs	24	
Max. tool weight	kg	7	
Max. tool diameter	mm	80	
Max. tool diameter without adjacent tools	mm	150	
Method of tool exchange		Arm type	
Max. tool length	mm	300	
<b>CONTROLLER</b>			
Type		FANUC 18i-MB / Heidenhain i TNC530	
<b>Motor</b>			
Spindle motor power (Cont. / 30 min)	kW	7.5/11	
X/Y/Z Feed motor	kW	3/3/4	
Coolant pump (50Hz / 60Hz)	kW	0.53+0.85/ 0.75+1.27	
<b>OTHERS</b>			
Air supply	kg/cm <sup>2</sup>	5.5	
Machine weight	kg	7500	9000
Machine dimension (L×W×H)	m	2.7×2.2×3.2	3.0×2.2×3.2

## ■UM-85 / UM-85H

High Performance Vertical Machining Center



## ■UM-110 / UM-110H



Item / Model		UM-85H	UM-110H	UM-60	UM-85	UM-110	UM-130	UM-160	
<b>SPINDLE</b>									
Spindle speed	rpm	12000		8000	8000(10000)	8000(10000)	8000(10000)	6000	
Spindle taper size		BT-40	BT-40	BT-40	BT-40	BT-40/BT-50	BT-40/BT-50	BT 50	
Bearing inner diameter	mm	70	70	70	70	70/90	70/90	90	
Drive system	mm	Direct			Belt			2-speed gear	
<b>TRAVELS</b>									
X-axis	mm	850	1100	600	850	1100	1300	1600	
Y-axis	mm	550	550	510	550	550	650	850	
Z-axis	mm	550	550	510	550	550	550	850	
Spindle nose to table	mm	150-700	150-700	150-660	150-700	150-700	150-700	200-1050	
<b>TABLE</b>									
Table dimension	mm	1100×600	1200×600	900×560	1100×600	1200×600	1500×600	1700×880	
T-slot (No. of T-slot × width × pitch)	mm					5×18×100		7×18×100	
Max. weight on table	kg	1000	1200	500	1000	1200	1200	2000	
<b>FEED RATES</b>									
(X/Y/Z) Rapid traverse rate	m/min	42/42/30		36/36/30	30/30/30			15/15/15	
Cutting feed rate	m/min					12			
Ball screw diameter	mm	45	45	40	45	45	45	50	
Guideway type		Roller			Ball		Roller	Box way	
<b>AUTOMATIC TOOL CHANGE SYSTEM</b>									
Capacity	pcs					24			
Max. tool weight	kg	7	7	7	7	7/15	7/15	15	
Max. tool diameter	mm	80	80	80	80	80/110	80/110	110	
Max. tool diameter without adjacent tools	mm	150	150	150	150	150/200	150/200	200	
Method of tool exchange						Arm type			
Max. tool length	mm					300			
<b>CONTROLLER</b>									
Type		FANUC 18i-MB/HEIDENHAIN iTNC 530			FANUC 0i-MC/HEIDENHAIN iTNC530				
High speed high precision		AI NANO CC			AICC				
Data server		128 MB	128 MB	--	--	--	--	--	
<b>MOTOR</b>									
Spindle motor power (Cont. / 30 min)	kW	7.5/11		7.5/11	7.5/11(15/18.5)		15/18.5		
X/Y/Z Feed motor	kW	3/3/4		3/3/4	3/3/4(3/3/7)		4/4/7	4/4/7	
Coolant pump (50Hz / 60Hz)	kW					0.53+0.85 / 0.75+1.27			
<b>OTHERS</b>									
Air supply	kg/cm <sup>2</sup>					5.5			
Machine weight	kg	7000	7500	5200	7000	7500/8000	9000/10500	15000	
Machine dimension (L×W×H)	m	2.7×2.2×3.0	3.0×2.2×3.0	2.0×2.3×2.6	2.7×2.2×3.0	3.0×2.2×3.0	3.3×2.7×3.0	4.4×3.2×3.2	

## ■UM-60

High Performance Vertical Machining Center



## ■UM-130



## UL-15 / UL-20 CNC Turning Center

## UT-200



## UT-200S / UT-200SM Dual Spindles Turning Center



Machine Model		UL-15	UL-20	UT-200	UT-300	UT-300L			
Controller		FANUC 0i-TC							
CAPACITY									
Swing over "Z" cover	mm	455	455	505	612	612			
Swing over "X" cover	mm	260	260	318	388	388			
Max cutting diameter	mm	330	330	350	500	500			
Max cutting length	mm	300	600	570	700	1200			
SPINDLE									
Spindle nose	ASA	A2-5/A2-6	A2-6	A2-5	A2-6	A2-8	A2-8	A2-11	
Power chuck diameter	inch	6/8	8	6	8	10	12	10/12	15
Spindle hole diameter	mm	56/62	62	56	62/76	86	101	86/101	116
Spindle speed	rpm	6000/4500	4500	6000	4500/4000	3500	2700	3500/2700	2500
Spindle drive power (30 min rating/continuous)	kw	11/15	11/15	11/15	15/18.5	15/18.5	[18.5/22]		
Bar capacity	mm	44/52	52	44	52/65	75	90	90	105
TRAVELS									
Z axis	mm	350	625	600	750	1250			
X axis	mm	175	175	220	250+50	250+50			
FEED RATES									
Rapid traverse- Z axis	m/min	20	20	20	24	24			
Rapid traverse- X axis	m/min	20	20	20	20	20			
TOOL TURRET									
Number of tools	station	8[12]	8[12]	8[10/12]	12	12			
Square tool shank size	mm	25[20]	25[20]	25[20]	25	25			
Round tool shank size	mm	32	32	32	40	40			
TAILSTOCK									
Tailstock body travel	mm	200	400	545	540	1040			
Quill travel	mm	80	150	80	120	120			
Quill diameter	mm	70	70	75	85	85			
Quill taper	MT#	4	4	4	5	5			
Tailstock body positioning		Manual	Manual	Manual	Programmable	Programmable			
DIMENSIONS									
Floor space required	m	2.2×1.3	2.4×1.3	2.9×1.6	3×1.8	3.6×1.8			
Height	m	1.6	1.6	1.7	1.8	1.8			
Weight	kg	3000	3500	3600	5500	6000			

Machine Model		UT-200S	UT-200SM
Controller		FANUC 0i-TC	FANUC 18i-TB
CAPACITY			
Swing over "Z" cover	mm	522	522
Swing over "X" cover	mm	318	318
Max cutting diameter (Main spindle)	mm	260	286
Max cutting diameter (Sub-spindle)	mm	260	286
Max cutting length	mm	495	495
MAIN SPINDLE			
Spindle nose taper	ASA	A2-6	A2-6
Power chuck diameter	inch	8	8
Spindle hole diameter	mm	62	76
Spindle speed	rpm	4500	4000
Spindle drive power (30min rating/continuous)	kW	11/15	11/15
Bar capacity	mm	52/65	52/65
SUB SPINDLE			
Sub spindle nose taper	ASA	A2-5	A2-5
Sub spindle power chuck diameter	inch	6	6
Sub spindle hole diameter	mm	56	56
Sub spindle speed	rpm	6000	6000
Sub spindle drive power (30 min rating/continuous)	KW	5.5/7.5	5.5/7.5
Sub spindle bar capacity	mm	45	45
TRAVELS			
Z axis	mm	600	600
X axis	mm	220	220
B axis	mm	625	625
FEED RATE			
Rapid traverse- Z axis	m/min	20	20
Rapid traverse- X axis	m/min	20	20
Rapid traverse- B axis	m/min	20	20
TOOL TURRET			
Type		VDI30	VDI30
Number of tools	station	12	12
Square tool shank size	mm	20	20
Round tool shank	mm	32	32
Cs spindle index angle	deg	-	0.015
Max. rotary tool speed	rpm	-	6000
Rotary tool driver power	kW	-	2.2
DIMENSIONS			
Floor space required	m	2.9×1.6	2.9×1.6
Height	m	1.7	1.7
Weight	kg	4000	4000

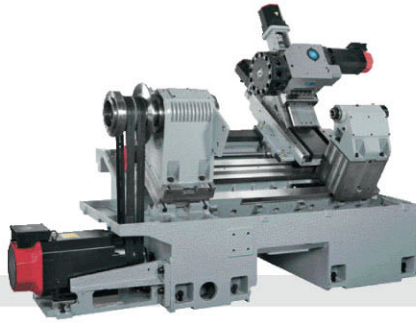
## UT-300 CNC Turning Center

## UT-300L



# UT-300Y / UT-300LY / UT-300SM / UT-300SY

Powerful Multi-tasking Turning Center



Machine Model		UT-300Y		UT-300LY		UT-300SM		UT-300SY	
Controller		FANUC OiTC		FANUC OiTC		FANUC 18i TB		FANUC 18i TB	
<b>CAPACITY</b>									
Swing over "Z" cover	mm	910		910		612		910	
Swing over "X" cover	mm	720		720		388		720	
Max cutting diameter (Main spindle)	mm	470		470		420		450	
Max cutting diameter (Sub-spindle)	mm	-		1145		375		375	
Max cutting length	mm	615		1190		610		615	
<b>MAIN SPINDLE</b>									
Spindle nose taper	ASA	A2-8		A2-8		A2-11		A2-8	
Spindle bearing inner diameter	mm	130	140	130/140	160	130	140	130	140
Power chuck diameter	inch	10	12	10/12	15	10	12	10	12
Spindle hole diameter	mm	86	101	86/101	116	86	101	86	101
Spindle speed	rpm	3500	2700	3500/2700	2500	3500	2700	3500	2700
Spindle drive power (30 min rating/continuous)	kW	15/18.5		15/18.5		15/18.5		15/18.5	
Bar capacity	mm	75	90	75/90	105	75	90	75	90
<b>SUB SPINDLE</b>									
Sub spindle nose taper	ASA	-		-		A2-5		A2-5	
Sub spindle Power chuck diameter	inch	-		-		6		6	
Sub spindle hole diameter	mm	-		-		56		56	
Sub spindle speed	rpm	-		-		6000		6000	
Sub spindle drive power (30min rating/continuous)	kW	-		-		5.5/7.5		5.5/7.5	
Sub spindle Bar capacity	mm	-		-		45		45	
<b>TRAVELS</b>									
Z axis	mm	750		1250		750		750	
Y axis	mm	±50		±50		-		±50	
X axis	mm	275		275		300		275	
B axis	mm	-		-		780		660	
<b>FEED RATES</b>									
Rapid traverse- Z axis	m/min	24		24		24		24	
Rapid traverse- Y axis	m/min	10		10		-		10	
Rapid traverse- X axis	m/min	20		20		20		20	
Rapid traverse- B axis	m/min	-		-		24		24	
<b>TOOL TURRET</b>									
Type		APT 40/ VDI 40		APT 40/ VDI 40		APT 40/ VDI 40		APT 40/ VDI 40	
Number of tools	station	12		12		12		12	
Square tool shank size	mm	25		25		25		25	
Round tool shank size	mm	40		40		40		40	
Cs spindle index angle	deg	0.01		0.01		0.01		0.01	
Max. rotary tool speed	rpm	4000/5000		4000/5000		4000/5000		4000/5000	
Rotary tool driver power	kW	3/3.7		3/3.7		3/3.7		3/3.7	
<b>TAILSTOCK</b>									
Tailstock body travel	mm	540		1040		-		-	
Quill travel	mm	120		120		-		-	
Quill diameter	mm	85		85		-		-	
Quill taper size	MT	5		5		-		-	
Tailstock body positioning		Programmable		Programmable		-		-	
<b>DIMENSIONS</b>									
Floor space required	m	3.5 x 2		3.6 x 2		3 x 1.8		3.5 x 2	
Height	m	2.2		2.2		1.8		2.2	
Weight	kg	6000		7500		5900		6500	

# ACCUWAY

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