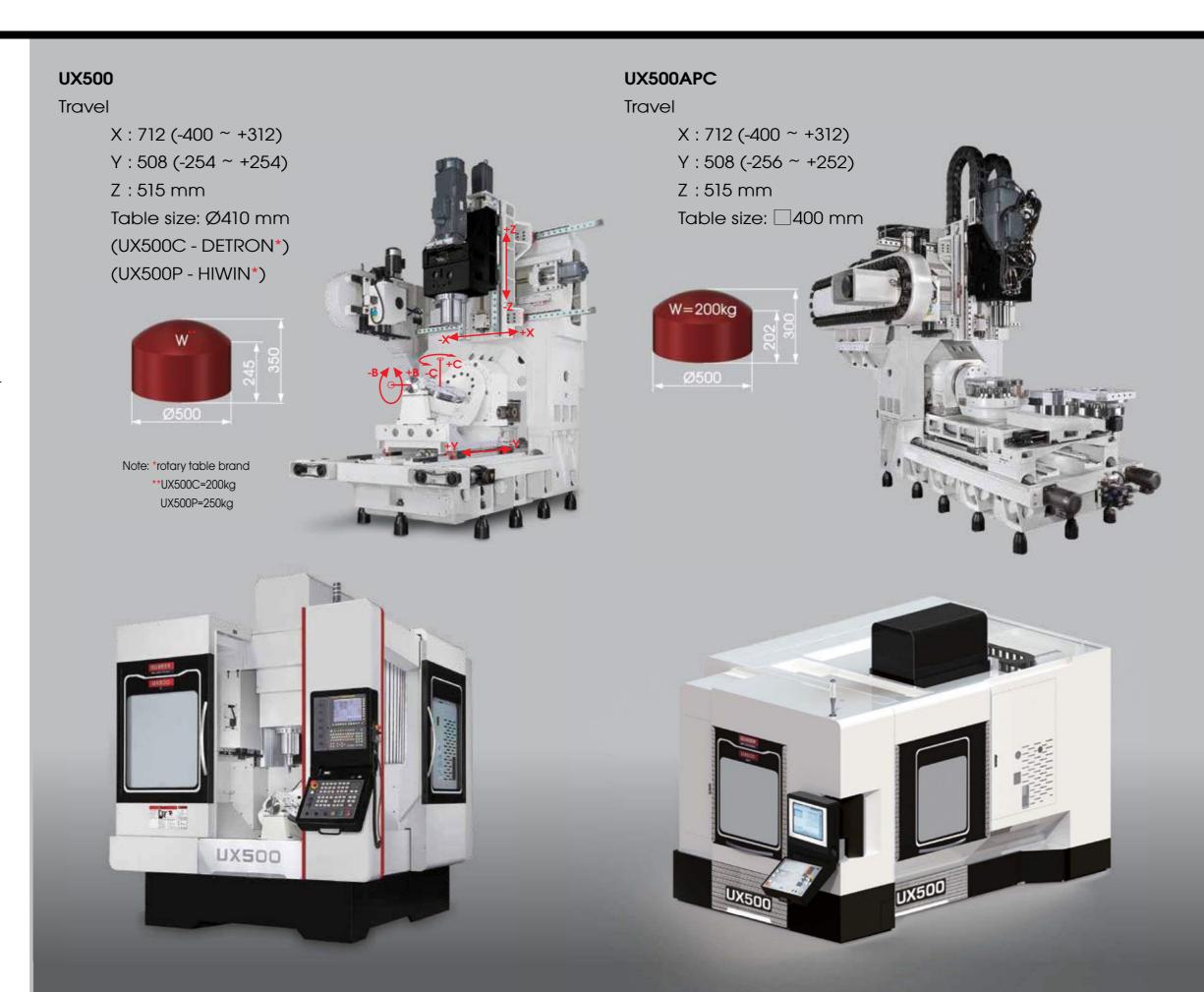


UX SERIES

UX series

Contents

UX500 & UX500APC 01-02 03-04 UX630 & UX 630APC UX600 & UX800 05-06 Cutting area and 07-10 interference Unique spindle technology 11-12 Work envelope 13-14 ATC system 15-16 Thermal management 17-18 Ergonomic operation 19-20 Coolant & chip management 21-22 Technical data Standard / 23-28 option accessories 29-33 Installation dimension 34 We build machines in a hybrid way



UX630P

Travel

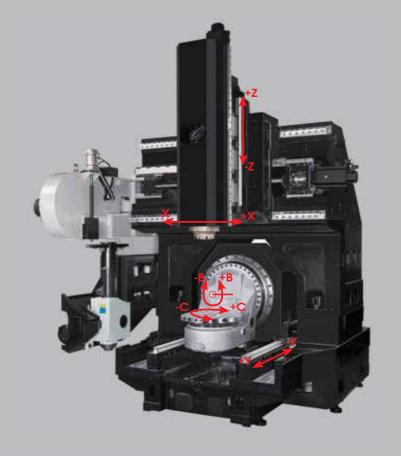
X:900 (-450 ~ +450)

Y: 740 (-330 ~ +410)

Z:610 mm

Table size: Ø480 mm







UX630APC

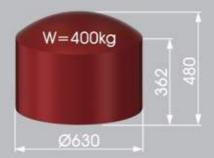
Travel

X:900 (-450 ~ +450)

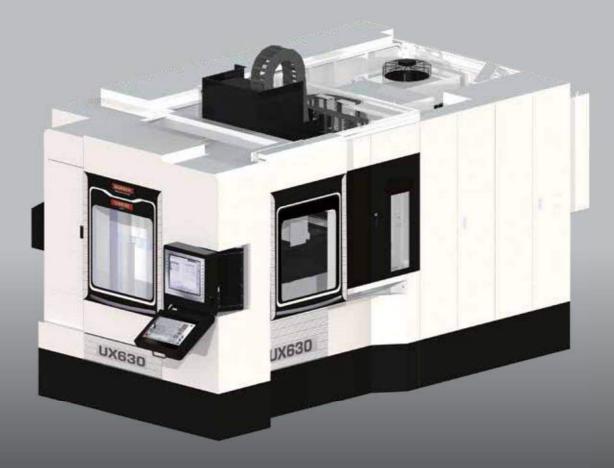
Y:660 (-330 ~ +330)

Z:610 mm

Table size: □500 mm







UX600

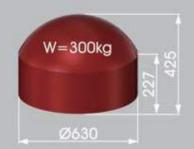
Travel

X:885 (-580 ~ +305) Y:800 (+375 ~ -425)

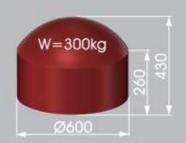
Z:500 mm

Table size: Ø500 mm (UX600C)

Ø280 / Ø600 x W500 (UX600P)



(UX600C - DETRON*)



(UX600P - MMK MATSUMOTO*)

Note:*rotary table brand



UX800P

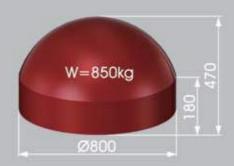
Travel

X:995 (-625 ~ +370)

Y: 800 (+375 ~ -425)

Z:500 mm

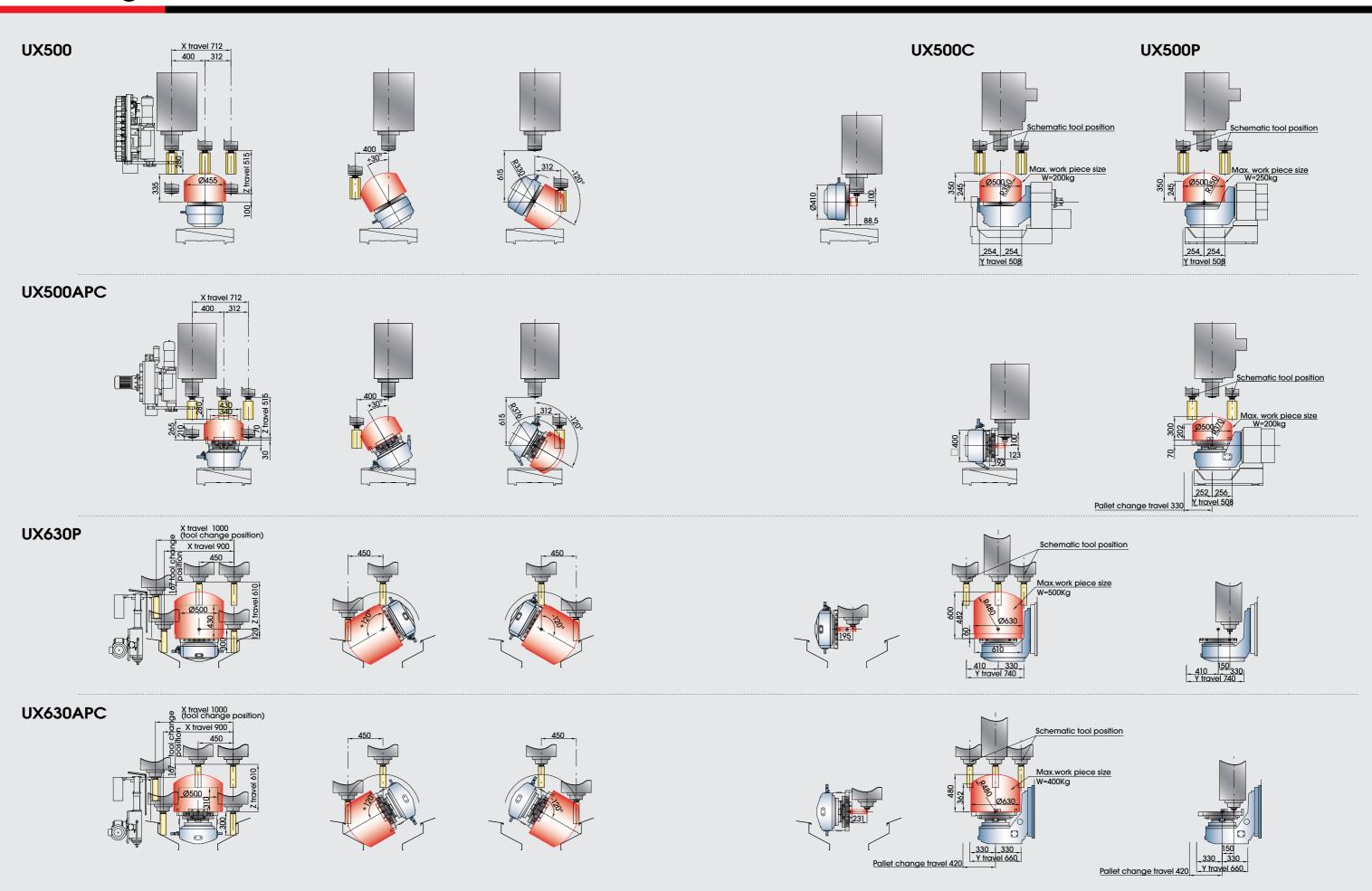
Table size: Ø630 mm







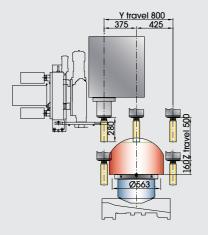
Cutting area and interference

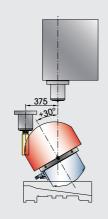


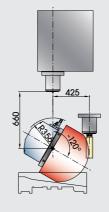
Cutting area and interference

UX600C

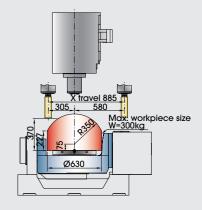
Coupling spindle



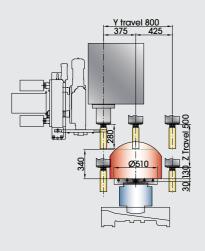


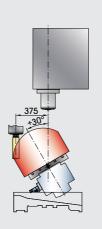


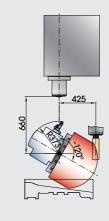


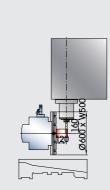


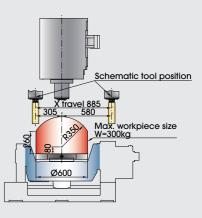
UX600P
Belt spindle
Coupling spindle



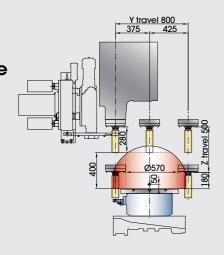


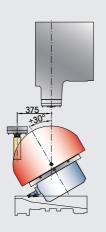


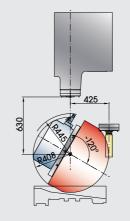




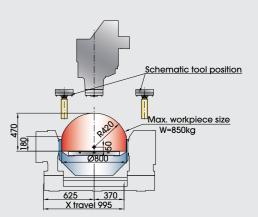
UX800P Coupling spindle









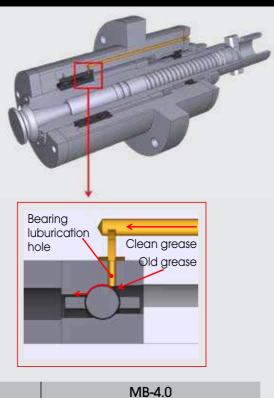


Unique spindle technology

 Re-grease supply system is stable and eco-friendly by supplying new grease intermittently to bearings during high speed rotation.

Standard on all models





New spindle code		SC-4.2		MB-4.0	
Shaft diameter		Ø80 / Ø70		Ø70 / Ø65	
Spindle Taper		IS	O-40	ISC)-40
Bearing arrangement		<	<<>>>	<:	> =
Ball bearing type		Ce	eramic	Cerd	amic
Roller bearing type			-	Ste	eel
Bearing lubrication		Greas	e packed	Grease	packed
Transmission		Co	upling	Be	elt
Spindle Speed		1:	2,000	9,000	12,000
FANUC					
Spindle base speed		1	,500		
Spindle output kW	(S3-25%)	18.5	15		-
Spindle output torque Nm	(S3-25%)	118	95.5		-
HEIDENHAIN					
Spindle base speed		1,500	2,000	1,125	1,500
Spindle output power kW	(S6-25%)	17	27.7	32	
Spindle output torque Nm	(S6-25%)	108	132	272	204
SIEMENS					
Spindle base speed		1,500	-	1,125	1,500
Spindle output power kW	(S6-25%)	13.3	-	28	3.5
Spindle output torque Nm	(S6-25%)	85	-	242	182
CTS Availability		O [*]	0	•	•
				_	
UX500C		• • •	•		
UX500P				• •	• •
UX500APC				• •	•
UX630					
UX630APC					
UX600C			• •		
UX600P				• •	• •
UX800P					







MC-4.1R	HM-4.0	HM-4.0A
Ø80 / Ø65	Ø80 / Ø60	Ø80 / Ø60
ISO-40 / HSK A63	ISO-40	HSK A63
<>=	<<>>	<<>>
Ceramic	Ceramic	Ceramic
Steel	-	-
Re-Grease	Grease packed	Oil-air
Coupling	В	uilt-in
15,000	12,000	18,000
1,400	-	-
26	-	-
177	-	-
2,000	2,940	3,000
27.7	40 ⁽¹⁾	46(1)
132	131.3 ⁽¹⁾	146 ⁽¹⁾
2,000	2,940	
27.7	40 ⁽¹⁾	46(1)
132	131.3 ⁽¹⁾	146 ⁽¹⁾
•	•	•
• •		
• •		
	• •	• •
	• •	• •
• •		
•		

Work envelope

	UX	500C	UX500P / UX500APC		
UX500	Rotary Axis	Tilting Axis	Rotary Axis	Tilting Axis	
	(C-axis)	(B-axis)	(C-axis)	(B-axis)	
Drive method	D-D Worm		D-D	D-D	
Max. swing piece size (mm)	Ø500 x 350 / Ø500 x 300				
Table load capacity (kg)	2	200	250 / 200		
Maximum R.P.M	50	16.6(F/S); 22.2(T)	100 / 100	60 / 60	
Indexing accuracy (sec)	8*	12*	5* / 5*	5* / 5*	
Repeatability (sec)	4*	8*	4* / 4*	4* / 4*	
Clamping torque (Nm)	1,800	2,500	1,800	2,500	

Note: *With absolute rotary encoder

	UX	530P	UX630APC		
UX630	Rotary Axis Tilting Axis		Rotary Axis	Tilting Axis	
	(C-axis)	(B-axis)	(C-axis)	(B-axis)	
Drive method	D)-D	D-D		
Max. swing piece size (mm)	Ø630	0 x 600	Ø630 x 480		
Table load capacity (kg)	5	00	400		
Maximum R.P.M	100 60		100	60	
Indexing accuracy (sec)	5* 5*		5*	5*	
Repeatability (sec)	4* 4*		4*	4*	
Clamping torque (Nm)	3,200	4,200	3,200	4,200	

Note: *With absolute rotary encoder

	UX600C	/ UX600P	UX800P		
UX	Rotary Axis	Tilting Axis	Rotary Axis	Tilting Axis	
	(C-axis)	(A-axis)	(C-axis)	(A-axis)	
Drive method	Wo	orm	D-D		
Max. swing (mm)	Ø630	x Ø600	Ø800		
Table load capacity (kg)	3	00	850		
Maximum R.P.M (min ⁻¹)	16.6 / 33.3 11.1 / 25		100	60	
Indexing accuracy (sec)	20(12*)/14(10*) 12* / 10*		5*	5*	
Repeatability (sec)	12(5*) / 4(2*) 8* / 5*		2*	5*	
Clamping torque (Nm)	2,000 / 1,666	2,500 / 2,156	2,400	2,400 x 2	

Note: *With absolute rotary encoder

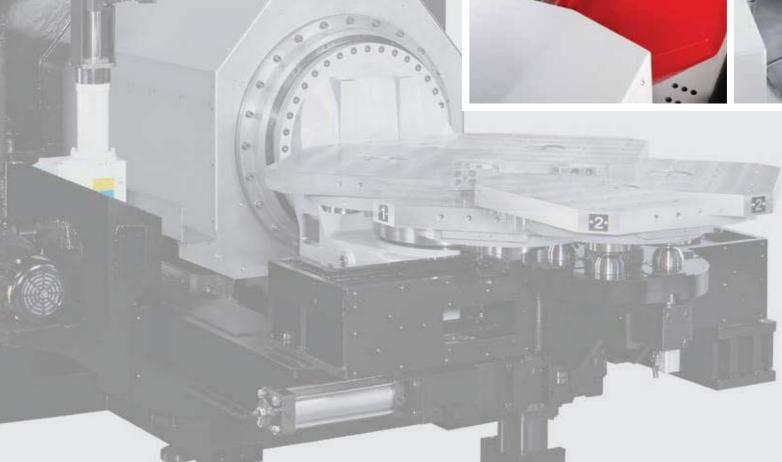


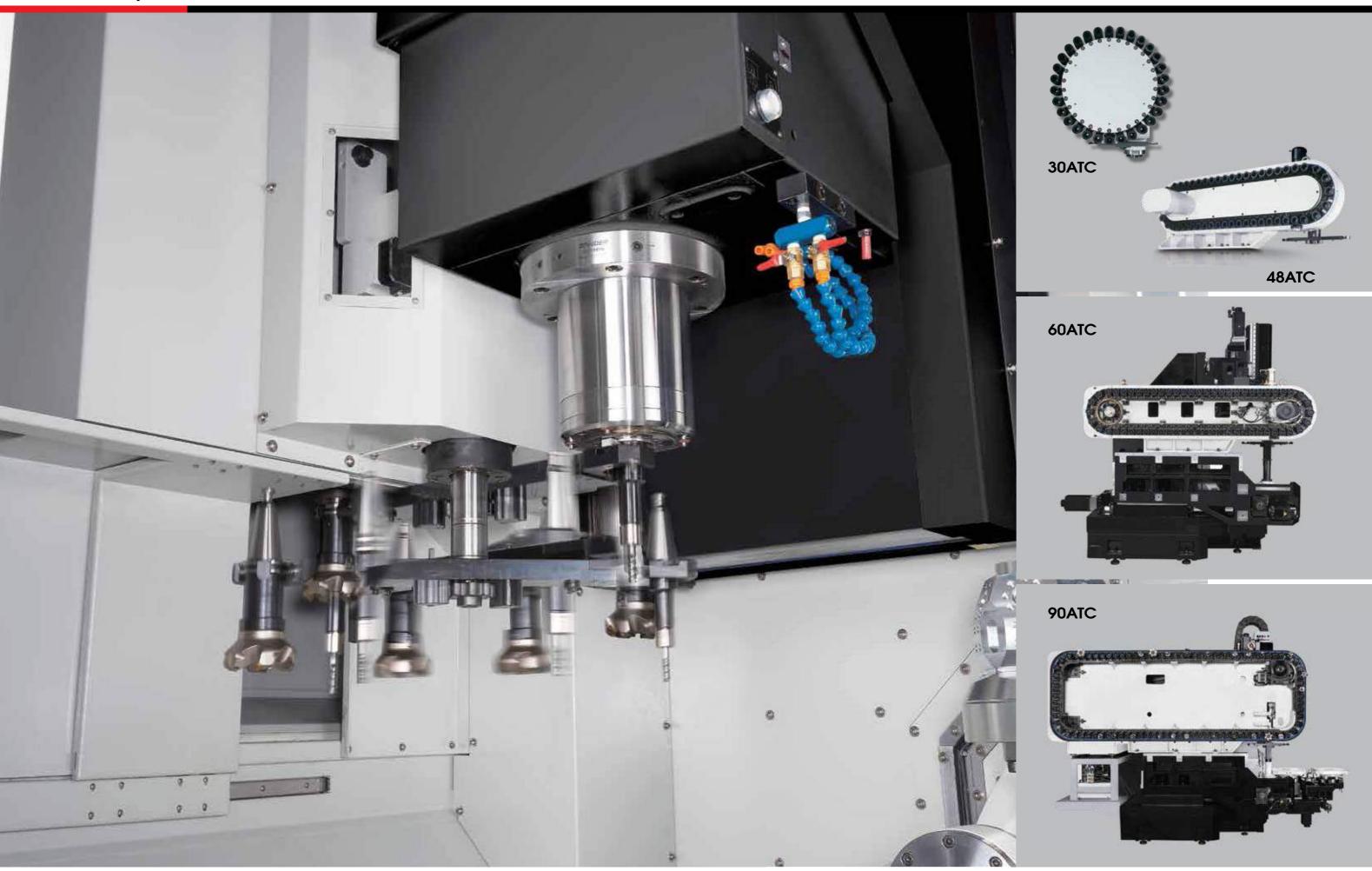






14



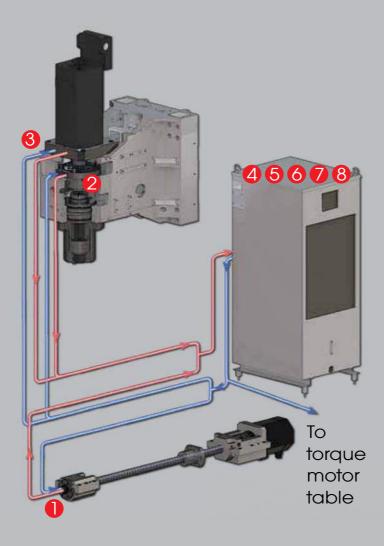


Thermal management

To meet more and more severe "WORKING ACCURACY" requirements, our "THERMAL MANAGEMENT":

LEVEL I - Standard

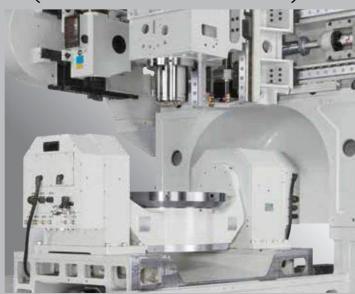
- 1 Coolant through ball screw. To keep
 - a). Under \pm 10 μ m repeatability on X, Y & Z
 - b). Stable rigidity on ball screw system
- 2 Spindle cooling circuit
- 3 Motor mountingblock cooling circuit (for coupling spindle)
- 4 Oil chiller 6,000 BTU
- 5 Oil chiller 12,000 BTU
- 6 Oil chiller 24,000 BTU
- Oil chiller 48,000 BTU
- 8 Water chiller



	UX500C	UX500P /	UX500APC	UX630P / UX630APC	UX600C	UX6	00P	UX800P
	Coupling	Belt	Coupling	Built-in	Coupling	Belt	Coupling	Coupling
	0	•	•	•	0	•	•	•
2	•	•	•	•	•	•	•	•
3	•	×	•	×	•	×	•	•
4	•	×	×	×	•	×	×	×
5	0	×	×	×	0	•	•	×
6	×	•	•	×	×	×	0	×
7	×	×	×	×	×	×	×	•
8	×	×	×	•	×	×	×	×

LEVEL II

Scale on X, Y, Z & C
(Scale on A axis as standard)



Tool length / breakage measurement (opt.)



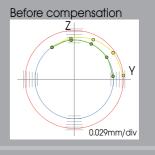
LEVEL III

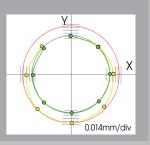
11 Thermal comp whith probe

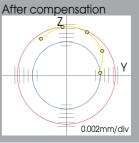


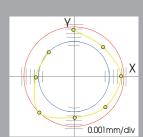
12 Touch probe cycles for automatic measurement of rorary axes (opt.)











18

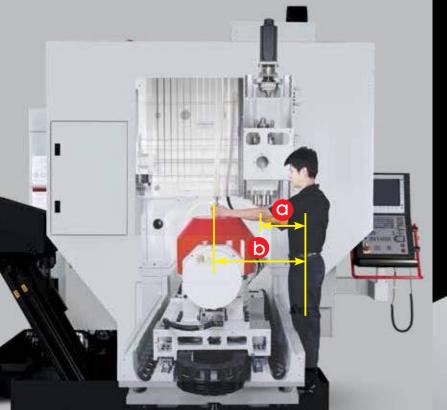
Ergonomic operation

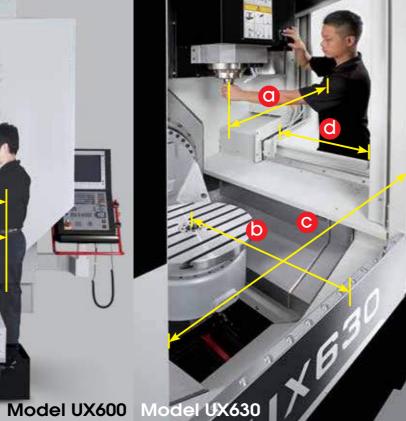


		UX500 / UX500APC	UX630 / UX630APC	UX600 / UX800
a	Convenient distance from operator to the spindle (mm)	434 / 458	356	200
b	From center of table to front door (mm)	670 / 367	565 / 438	625
C	Max. size when front door open (mm)	800 / 850	950 / 900	830
d	Side door opening (mm)	840 / 1,050	750 / 790	-
е	Ergonomic operation panel with adjustable angle	St	d.	-
O	Documentation & hand tool shelf		Std.	
9	Tool loading / unloading on magazine side		Std.	
h	Centralized configuration of lubrication and pneumatic panel		Std.	
0	Our hydrauilc and oil chiller are integrated into the machine design for clean appearance, minimal floor requirement and easy access for service.	-	Std.	-





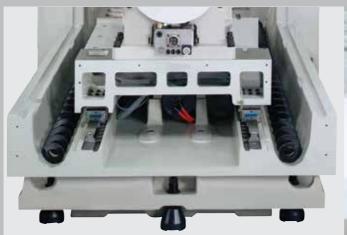






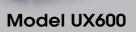
Coolant & chip management

	UX500C	UX500P / UX500APC	UX630P / UX630APC	UX600C	UX600P	UX800P
Coolant tank	450 L		400 L	400 L		
Coolant through spindle	Opt.	20 bar	20 bar	20 bar		
Nozzle coolant	3 bar		3.5 bar	3.5 bar		
Wash gun	Std.		Std.	Std.		
Chip augers	Std.		-	Std.		
Ceiling wash down	Std.		Std.	-		
wash down	3 k	oar	3.5 bar	3 bar		











		UX500	UX5U	0 / UX500APC
Technical data		C		P
		Multi face 5 axes		5 axes
Spindle code		12C	9B	12B 15C
Work range		Ø410		8410 / 🗆 400
Table size (mm)		Ø410		6410 / <u>400</u>
Travel	X / Y / Z (mm)	712 (-400 ~ +312) / 508 (-254 ~ +254) / 515 712 (-400 ~ +312) / 508 (-256 ~ +252) / 515		+252) / 515
	B / C (degree)	+30 ~	-120° / 360° (Cont	inuous)
Max. swing (mm)			Ø500	
Table surface to spindle nose (mm)		100 ~ 615	100 ~	615 / 30 ~ 545
Spindle nose to tilting		100 ~ 615		100 ~ 615
Max. work piece size	· · · ·	Ø500 x 350 ⁽¹⁾		350 ⁽¹⁾ / Ø500 x 300
Table load capacity	(kg)	200		250 / 200
Feed drive Feed force	X / Y / Z (N)	6,283 / 6,283 / 11,519 (F) 6,283 / 6,283 / 10,472 (S) 9,268 / 9,268 / 11,310 (1)		10,472 / 14,137 (\$) 11,310 / 13,666 (T)
Rapid movement	X / Y / Z (m / min)	7,200 / 7,200 / 11,010 (1)	36 / 36 / 36	
Rapid Hovernerii	B / C (min ⁻¹)	B=22.2 (F;T) 16.6 (F;S) / C=50		=60 / C=100
Acceleration	X / Y / Z (m/s²)	3 / 3 / 2.5 (F)(S)(T) 5 / 5 / 5 (S)(T)		/ 5 / 5 (S)(T)
Dia. & pitch of the ball screw		(Ø40 / P = 12 / 12 / 1	2
Accuracy Positioning / I	Repeatability			
ISO 230-2			0.008 / 0.004	
JIS 6338 (300 mm)			±0.003 / ±0.002	
VDI3441			0.008 / 0.004	
Main spindle				
Spindle taper			BBT 40	
Max. spindle speed		12,000	9,000	12,000 15,000
Tool changer				
Tool selection		Random		
Magazine positions		30 (std.) 48 / 60 (opt.) 48 (std.) 60 (opt.)		
Max. tool diameter w	/o adjacent tool (mm)	Ø76.2 / Ø125		
Max. tool length (mm)	280		
Max. tool weight (kg)		7		
Tool to tool time (sec.))	1.7		
Chip to chip time (see	C.)	9.1	9.1 8.9	
Pallet changer				
Number of pallet		-		-/2
Method of pallet cha		-	-/	Swing type
Pallet change time (s		-		-/ 12
Pallet changing repe	atability	-		- / 0.01
Coolant system				
Coolant tank capacit	ty (Liter)		450	
Pump capacity			75.1 /	
- Nozzie coolant			75 L / min., 3 bar	
- Coolant through spindle		Opt.		/ min., 20 bar
- Wash down		75 L / min., 3 bar	75	_/ min., 3 bar
Machine size				
Height (mm)		3,350 3,350		
Floor space W x D (mm)		2,720 x 3,900 2,720 x 3,900 3,900 x 4,480		
Weight (kg)		8,430(30ATC) 8,730(48ATC) 8,930(60ATC) 10	300(48AIC) 10,500(60ATC
Connections		000	\	EOLI-
Main power	10 (A)	1	V / 60Hz or 400V / 8	
Power consumption (KVA) ctual max. workpiece inte	27(F) 25(S) 30(T)		38(S) 40(T)

Note: (1)Please refer to actual max	. workpiece interference diagram.
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Spincle code			UX	630	UX63	BOAPC	
Spindle code	Technical data			F)		
Spinciale code 12M							
Work range Totale size (mm)	Spindle code		12M			18M	
Table size (mm)			12141	10141	12141	TOIVI	
Travel	· ·		Ø	180		500	
Max. swing (mm)		X / Y / 7 (mm)					
Max. swing (mm)	ii dvoi		766(166 166)//				
Table surface to spindle nose (mm) Spindle nose to tillting center at 90" (mm) Spindle nose to tillting center at 90" (mm) Max. work plece size (mm) G630 x 600° G630 x 480° Table load capacity (kg) Feed drive Feed force X / Y / Z (N) Rapid movement X / Y / Z (m / min) B / C (min¹) B / C (min¹) B / C (min¹) Acceleration X / Y / Z (m / min) B / C (min²) B / C (min²) Acceleration X / Y / Z (m / min) B / C (min²) B / C (min²) B / C (min²) Accuracy Postitioning / Repeatability Sic 230.2 Jis 6338 (300 mm) VDI3411 Max. spindle speed Spindle taper Tool shaper Tool selection Max. sool weight (kg) Tool to tool time (sec) Chip to chip time (sec.) Chip to chip time (sec.) Pollet changer Number of pallet Method of pallet changer Number of pallet Coolant system Coolant Inva capacity (Liter) Nazzie coolant - Coolant Inva capacity (Liter) Nazzie coolant - Coolant through spindle - Wash down 75 L / min. 3.5 bar 75 L / min. 3.5 bar 15.500 16.500 Weight (kg) 48 / A0 / 90 ATC Acomactons Moin power 48 / A0 / 90 ATC Acomactons Moin power 48 / A0 / 48 / A0 Acomactons Ac	Max. swing (mm)	27 0 (009.00)			-		
Spincile nose to tillting center at 90" (mm)		nose (mm)	120 -	1		· 610	
Max. work place size (mm)							
Table load capacity (kg) 500 400 Feed drive Feed force X/Y/Z (N) 10,249 / 18,692 / 10,249 (T) 10,603 / 14,137 / 10,603 (S) Rapid movement X/Y/Z (m/min) 8 / 60 / C=100 Acceleration X/Y/Z (m/s²) 8 / 7 / 10 (T) 6 / 4.1 / 4 (S) Dia. & pitch of the boil screw 240 / P = 16 / 16 / 16 Accuracy Positioning / Repeatability ISO 230-2 0.008 / 0.004 Main spindle Spindle taper BBT 40 HSK A63 BBT 40 HSK A63 Max. spindle speed 12,000 18,000 12,000 18,000 Tool changer 10 / 12,000 18,000 12,000 18,000 Tool changer 10 / 10 / 10 / 10 / 10 / 10 / 10 / 10							
Feed drive Feed force			 	i			
Rapid movement		,					
Rapid movement							
B C (min m) B 60 / C 100	Feed force	X / Y / Z (N)	10,249 /	/ 18,692 / 10,249 (T)	10,603 / 14,137 / 1	0,603 (S)	
Acceleration X / Y / Z (m/s²) 8 / 7 / 10 (T) 6 / 4.1 / 4 (S)	Rapid movement	X / Y / Z (m / min)		48 / 4	8 / 48		
Dia. & pitch of the ball screw		B / C (min ⁻¹)		B=60 /	C=100		
Accuracy Positioning / Repeatability Size 239:2 0.008 / 0.004 1.0003 / ± 0.002 1.0003 / ± 0.002 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.0008 / 0.004 1.0008 / 0	Acceleration	X / Y / Z (m/s ²)		8 / 7 / 10 (T)	6 / 4.1 / 4 (S)		
Accuracy Positioning / Repeatability Size 239:2 0.008 / 0.004 1.0003 / ± 0.002 1.0003 / ± 0.002 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.004 1.0008 / 0.0008 / 0.004 1.0008 / 0	Dia & nitch of the hall so	Prow/		Ø/10 / P = 1	16 / 16 / 16		
ISO 230-2	· · · · · · · · · · · · · · · · · · ·			<u> </u>	10 / 10 / 10		
JIS 6338 (300 mm)		ediability		0.008 /	0.004		
VDI3441							
Main spindle Spindle toper			·				
Spindle taper BBT 40				0.0007	0.00 1		
Max. spindle speed 12,000 18,000 12,000 18,000 Tool changer Tool selection Random Random Magazine positions 48 (std.) 60 / 90 (opt.) Max. tool diameter w/o adjacent tool (mm) Ø762 / Ø125 Max. tool length (mm) 300 Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)	•		BBT 40	HSK A63	BBT 40	HSK A63	
Tool changer Random Tool selection Random Magazine positions 48 (std.) 60 / 90 (opt.) Max. tool diameter w/o adjacent tool (mm) Ø76.2 / Ø125 Max. tool length (mm) 300 Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)			<u> </u>			+	
Tool selection			12,000	10,000	12,000	10,000	
Magazine positions 48 (std.) 60 / 90 (opt.) Max. tool diameter w/o adjacent tool (mm) Ø76.2 / Ø125 Max. tool length (mm) 300 Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)	<u> </u>			Rand	dom		
Max. tool diameter w/o adjacent tool (mm) Ø76.2 / Ø125 Max. tool length (mm) 300 Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)			48 (std.) 60 / 90 (opt.)				
Max. tool length (mm) 300 Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)		adiacent tool (mm)					
Max. tool weight (kg) 7 Tool to tool time (sec.) 1.7 (< 6kg)		,	300				
Tool to tool time (sec.) Chip to chip time (sec.) Pallet changer Number of pallet Number of pallet Number of pallet			7				
Chip to chip time (sec.) Pallet changer Number of pallet - 2 Method of pallet changer - Swing type Pallet change time (sec.) - 12.1 Pallet changing repeatability (mm) - 0.01 Coolant system - 400 Coolant tank capacity (Liter) 400 Pump capacity - 75 L / min., 3.5 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz				1.7 (<	6kg)		
Pallet changer - 2 Method of pallet changer - Swing type Pallet change time (sec.) - 12.1 Pallet changing repeatability (mm) - 0.01 Coolant system Coolant tank capacity (Liter) 400 Pump capacity - 15 L / min., 3.5 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48 ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	· · · · · · · · · · · · · · · · · · ·		7.2				
Number of pallet - 2 Method of pallet changer - Swing type Pallet change time (sec.) - 12.1 Pallet changing repeatability (mm) - 0.01 Coolant system Coolant tank capacity (Liter) 400 Pump capacity - 400 - Nozzie coolant 75 L / min., 3.5 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz							
Pallet change time (sec.) - 12.1 Pallet changing repeatability (mm) - 0.01 Coolant system Coolant tank capacity (Liter) 400 Pump capacity - Nozzie coolant - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz			- 2			2	
Pallet change time (sec.) - 12.1 Pallet changing repeatability (mm) - 0.01 Coolant system Coolant tank capacity (Liter) 400 Pump capacity - Nozzie coolant - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	·	er	- Swing typ		g type		
Coolant system 400 Pump capacity 75 L / min., 3.5 bar - Nozzie coolant 75 L / min., 20 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	Pallet change time (sec.)					
Coolant tank capacity (Liter) 400 Pump capacity - Nozzie coolant 75 L / min., 3.5 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48 ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	Pallet changing repeata	ibility (mm)	- 0.01			.01	
Pump capacity - Nozzie coolant 75 L / min., 3.5 bar - Coolant through spindle 25 L / min., 20 bar - Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power	Coolant system						
- Nozzie coolant - Coolant through spindle - Wash down - T5 L / min., 3.5 bar - T25 L / min - T25 L /	Coolant tank capacity (l	Liter)		40	00		
- Coolant through spindle - Wash down Machine size Height (mm) Floor space W x D (mm) Weight (kg) All A for Sport	Pump capacity						
- Wash down 75 L / min., 3.5 bar 125 L / min Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz			75 L / min., 3.5 bar				
Machine size Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	- Coolant through spindle	е					
Height (mm) 3,520 Floor space W x D (mm) 48 / 60 / 90ATC 3,920 x 4,810 3,920 x 5,245 Weight (kg) 48ATC 15,350 16,250 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	- Wash down		75 L / min., 3.5 bar 125 L / min			_ / min	
Floor space W x D (mm)	Machine size						
Weight (kg) 48ATC 15,350 16,250 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections Main power 220V / 60Hz or 400V / 50Hz	Height (mm)			3,5	20		
Weight (kg) 60 / 90ATC 15,500 / 16,300 16,400 / 17,200 Connections 220V / 60Hz or 400V / 50Hz	Floor space W x D (mm)	48 / 60 / 90ATC	3,920	x 4,810	3,920 x 5,245		
Connections Main power 220V / 60Hz or 400V / 50Hz	Weight (kg)	48ATC	TC 15,350 16,250		,250		
Main power 220V / 60Hz or 400V / 50Hz	Weigili (kg)	60 / 90ATC	15,500	/ 16,300	16,400	/ 17,200	
	Connections						
Power consumption (KVA) 72(T) 69(S)	Main power		220V / 60Hz or 400V / 50Hz				
	Power consumption (KVA	4)		72(T)	69(S)		

= Standard	Ω = Option	x = N /

	UX500		UX500 / UX500APC			
Standard / Option accessories	С		Р			
	Multi face	5 axes		5 axes		
Spindle code	120	C	9B	12B	15C	
QUASER mill i (4+1 Axes)	•	×	×	×	×	
HEIDENHAIN TNC620 (4+1 Axes)	0	×	×	×	×	
HEIDENHAIN TNC640 (5 Axes)	×	0	0	•	0	
HEIDENHAIN advanced function set2	×	0	0	•	0	
SIEMENS 828D (PPU290)	0	×	×	×	×	
SIEMENS 840D	×	×	0	0	0	
Oil chiller	•	•	•	•	•	
40 taper / 30 position tool magazine	•	•	×	×	×	
40 taper / 48 position tool magazine	0	0	•	•	•	
40 taper / 60 position tool magazine	0	0	0	0	0	
Pull stud for BT tooling	0	0	•	•	•	
Balance tooling for spindle warm up	0	0	•	•	•	
BBT spindle attachment (Simultaneous contact)	•	•	•	•	•	
ATC auto door	•	•	•	•	•	
X/Y/Z linear scale	0	0	0	0	0	
Rotary encoder on B & C axes	•	•	•	•	•	
Remote manual pulse generator	•	•	•	•	•	
Transformer (1)	0	0	0	0	0	
■ Work probe receive OMI-2T	•	•	•	•	•	
Work probe OMP-40	0	0	•	•	•	
Reference rod (for thermal comp with probe)	•	•	•	•	•	
■ Tool length / breakage measurement ^②	0	0	0	0	0	
5 Port through table (3)	0	0	•/×	•/×	●/×	
Air pressure detector for pallet clamping	×	×	×/•	×/•	×/•	
4 port through pallet (3) (4)	×	×	X/O	X/O	X/O	
Coolant system	•	•	•	•	•	
Coolant through ball screw	0	0	•	•	•	
Coolant through spindle 20 bar	0	0	•	•	•	
Coolant wash gun	•	•	•	•	•	
Coolant wash down	•	•	•	•	•	
■ Air gun	0	0	0	0	0	
Chip conveyor	•	•	•	•	•	
Chip augers	•	•	•	•	•	
Cutter air blast	•	•	•	•	•	
Oil-mist collector	0	0	0	0	0	
■ Bag filtration	0	0	0	0	0	
Filtration unit	0	0	0	0	0	
Documentation (CD-ROM) (5)	•	•	•	•	•	
■ Total Enclosure Guard (with Top side cover)	•	•	•	•	•	
■ Work light	•	•	•	•	•	
Machine status light	•	•	•	•	•	
■ CE & EMC ⁽⁶⁾ / GB	0	0	0	0	0	

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.

⁽²⁾ APC only laser type.

(3) Without Solenoid valve and control. (4) Factory mounted only.

(5) Paper documentation is option. (6) As standard for Europe area.

- Machine specification might be different from the catalog if any specification update.

	0,000	0,1000,11			
Standard / Option accessories		P			
	5 a	5 axes			
Spindle code	12M/18M	12M/18M			
■ HEIDENHAIN TNC640 (5 Axes)	•	•			
HEIDENHAIN advanced function set2	•	•			
SIEMENS 840D (5 Axes)	0	0			
Water chiller	•	•			
40 taper / 48 position tool magazine	•	•			
40 taper / 60 position tool magazine	0	0			
40 taper / 90 position tool magazine	0	0			
Balance tooling for spindle warm up	•	•			
BBT spindle attachment (Simultaneous contact)	•	•			
ATC auto door	•	•			
X/Y/Z linear scale	0	0			
■ Rotary encoder on B / C axes	•	•			
Remote manual pulse generator	•	•			
■ Transformer (1)	0	0			
■ Work probe receive RMI-Q	•	•			
■ Work probe RMP-40	•	•			
Reference rod (for thermal comp with probe)	•	•			
■ Tool length / breakage measurement (2)	0	0			
5 Port through table (3)	•	×			
Air pressure detector for pallet clamping	X	•			
4 port through pallet (3) (4)	×	0			
Coolant system	•	•			
Coolant through ball screw	•	•			
Coolant through spindle 20 bar	•	•			
■ Coolant through spindle 50 bar	0	0			
Coolant wash gun	•	•			
Coolant wash down	•	•			
■ Air gun	0	0			
Chip conveyor	•	•			
Cutter air blast	•	•			
Oil-mist collector	0	0			
■ Filtration unit	0	0			
Documentation (CD-ROM) (5)	•	•			
■ Total Enclosure Guard (with Top side cover)	•	•			
■ Work light	•	•			
■ Machine status light	•	•			
CE & EMC (6)	0	0			

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.

⁽²⁾ Only laser type. ⁽³⁾ Without Solenoid valve and control. ⁽⁴⁾ Factory mounted only.

(6) As standard for Europe area. (5) Paper documentation is option.

- Machine specification might be different from the catalog if there is any specification update.

lacktriangle = Standard lacktriangle = Option lacktriangle = N / A

UX630APC

UX630

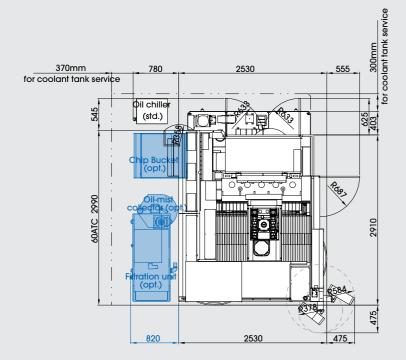
			UX800				
Technical data		С	C P		Р		
		Multi face 5 axes					
Spindle code		12C	9B 12B	15C	15C		
Work range							
Table size (mm)		Ø500	Ø280 / Ø600 x V	V500	Ø630		
Travel	X (mm)	885 (-580 ~ +305)	885 (-580 ~ +3	05)	995 (-625~+370)		
	Y (mm)	800 (+375 ~ -425)	800 (+375 ~ -4	25)	800 (+375~-425)		
	Z (mm)	500	500		500		
	A (degree)	+30° ~ -120°	+30° ~ -120	•	+30° ~ -120°		
	C (degree)	360° (Continuous)	360° (Continuo	ous)	360° (Continuous)		
Max. swing (mm)		Ø630	Ø600		Ø800		
Table surface to sp	indle nose (mm)	160 ~ 660	130 ~ 630		180 ~ 680		
Spindle nose to tiltir	ng center at 90°	160 ~ 660	160 ~ 660		130 ~ 630		
Max. work piece siz	e (mm)	Ø630 x 425	Ø600 x 430		Ø800 x 470		
Table load capacit		300	300		850		
Feed drive	, , , ,	11,519 / 11,519 / 11,519 (F)	13,666 / 13,666 / 13	,666 (T)			
Feed force	X / Y / Z (N)	13,666 / 13,666 / 13,666 (T)	14,137 / 14,137 / 14		19,897/13,666/13,666(1		
Rapid movement	X / Y / Z (m / min)	36 / 36 / 36	36		36		
·	A / C (min ⁻¹)	A=11.1 / C=16.6	A=25 / C=33	.3	A=60 / C=100		
A I		3 / 4 / 4 (F)	<u> </u>				
Acceleration	X / Y / Z (m/s ²)	3 / 4.5 / 4.5 (T)	5 / 5.5 / 5.5 (T)(S)		5 / 5.5 / 5.5 (T)		
Dia. & pitch of the ball screw		Ø45 / P = 12 / 12 / 12					
Accuracy Positioning	/ Repeatability						
ISO 230-2			0.008 / 0.004				
JIS 6338 (300 mm)		±0.003 / ±0.002					
VDI3441			0.008 / 0.004				
Main spindle							
Spindle taper			BBT 40				
Max. spindle speed	1	12,000	9,000 12,000	15,000	15,000		
Tool changer							
Tool selection			Random				
Magazine positions	;	30 (std.) 48 & 60 (opt.) 48 (std.) 60 (opt.)					
Max. tool diameter	(mm)	76.2					
w/o adjacent tool ((mm)	125					
Max. tool length (m	m)	280					
Max. tool weight (k	g)	7					
CTC time-ISO 10791	-9 (sec.)	7.2 (F) 6.9 (T)		6.7			
Coolant system							
Coolant tank capa	city (Liter)		400				
Pump capacity							
- Nozzie coolant		60 L / min., 3.5 bar					
- Through spindle c	oolant	25 L / min., 20 bar					
- Wash down		60 L / min., 3 bar					
Machine size							
Height (mm)			3,280				
Floor space W x D ((mm)	4,150 x 3,800					
Weight (kg)		11,680 (30ATC) 11,960 (48ATC) 12,100 (60ATC) 12,820 (90ATC)					
Connections		, ,	,		•		
Main power		220V	or 380V or 400V or 415V	/ 50Hz or 60	OHz		
Power consumption (KVA)			30(F) 35(T) 38(T) 41.3(S) 5				

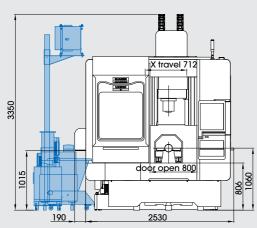
	UX600		UX600			UX800	
Standard / Option accessories	С		Р			Р	
	Multi face	5 axes	5 axes				
Spindle code	120	,	9B	12B	15C	15C	
QUASER mill I (4+1 Axes)	•	×	×	×	×	×	
■ HEIDENHAIN TNC620 (4+1 Axes)	0	×	×	×	×	×	
■ HEIDENHAIN TNC640 5 Axes)	×	•	0	•	0	•	
HEIDENHAIN advanced function set2	×	•	0	•	0	•	
■ SIEMENS 840D	×	×	0	0	0	×	
Oil chiller	•	•	•	•	•	•	
■ 40 taper / 30 position tool magazine	•	•	×	×	×	×	
■ 40 taper / 48 position tool magazine	0	0	•	•	•	•	
■ 40 taper / 60 position tool magazine	0	0	0	0	0	0	
■ 40 taper / 90 position tool magazine	0	0	0	0	0	0	
■ Pull stud for BT tooling system	0	0	•	•	•	•	
■ Balance tooling for spindle warm up	0	0	•	•	•	•	
■ BBT spindle attachment (Simultaneous contact)	•	•	•	•	•	•	
■ ATC auto door	•	•	•	•	•	•	
X/Y/Z linear scale & C rotary encoder	0	0	0	0	0	•	
■ Rotary encoder on A axes	•	•	•	•	•	•	
■ Remote manual pulse generator	•	•	•	•	•	•	
■ Transformer ⁽¹⁾	0	0	0	0	0	0	
■ Work probe receive OMI-2T	•	•	•	•	•	•	
■ Work probe OMP-40	0	0	•	•	•	•	
■ Tool length / breakage measurement	0	0	0	0	0	0	
Reference rod (for thermal comp with probe)	•	•	•	•	•	•	
2 Port through table ⁽²⁾	0	0	•	•	•	•	
Coolant system	•	•	•	•	•	•	
■ Coolant through ball screw	0	0	•	•	•	•	
Coolant through spindle 20 bar	•	•	•	•	•	•	
■ Coolant wash gun	•	•	•	•	•	•	
■ Coolant wash down	•	•	•	•	•	•	
■ Air gun	0	0	0	0	0	0	
■ Chip conveyor	•	•	•	•	•	•	
Chip augers	•	•	•	•	•	•	
Cutter air blast	•	•	•	•	•	•	
Stainless steel chip pan & chip channel	•	•	•	•	•	•	
Oil-mist collector	0	0	0	0	0	0	
■ Bag filtration	0	0	0	0	0	0	
Filtration unit	0	0	0	0	0	0	
Documentation (CD-ROM) (3)	•	•	•	•	•	•	
■ Total Enclosure Guard (with Top side cover)	•	•	•	•	•	•	
■ Work light	•	•	•	•	•	•	
■ Machine status light	•	•	•	•	•	•	
■ CE & EMC (4) / GB	0	0	0	0	0	0	

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.
(2) UX800-5 port through table.
(3) Paper documentation is option.
(4) As standard for Europe area.

- Machine specification might be different from the catalog if there is any specification update.

Installation dimension





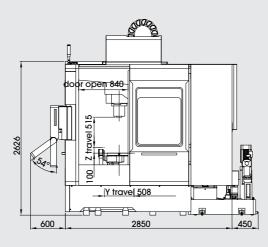
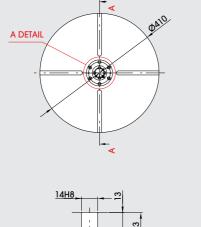
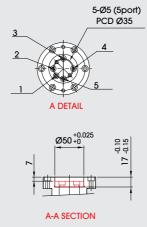
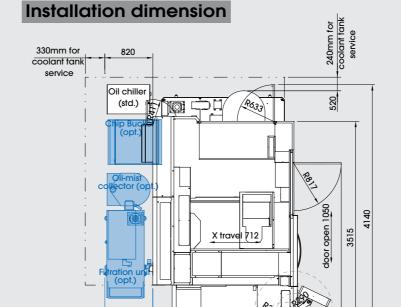
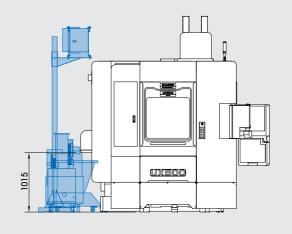


Table dimension









door open 850 2475

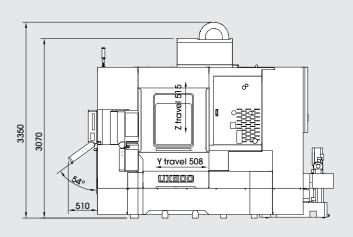
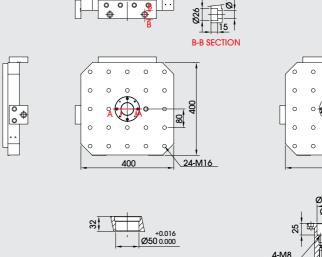
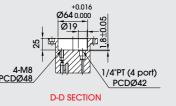


Table dimension

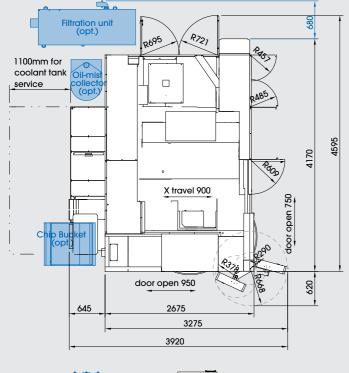


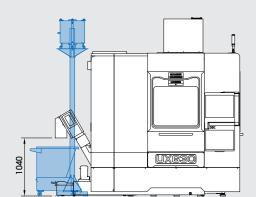
605 745

A-A SECTION



Installation dimension





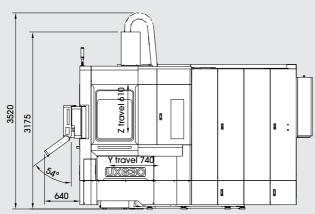
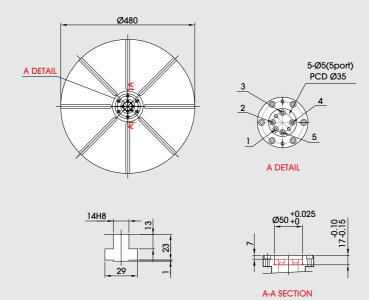
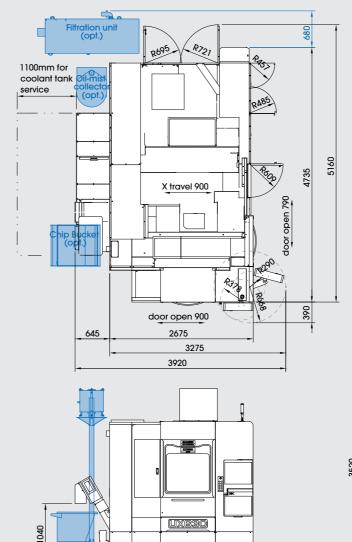


Table dimension



Installation dimension



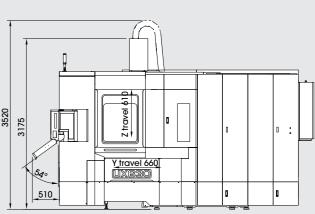
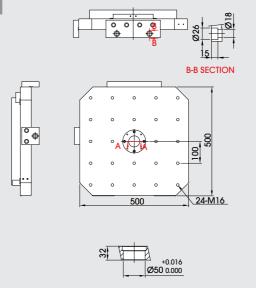
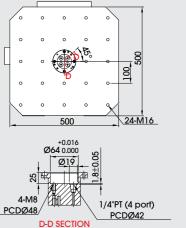


Table dimension

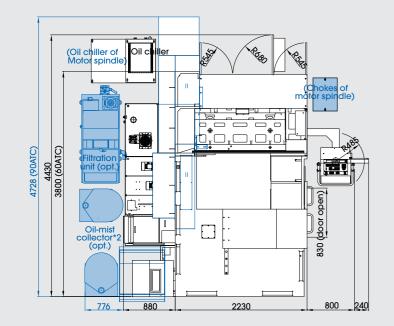




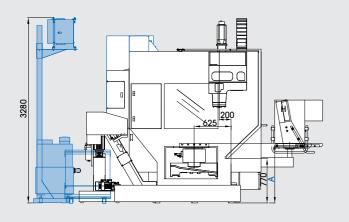
A-A SECTION

We build machines in a hybrid way

Installation dimension



	UX600	UX800			
Α	1,024	978			



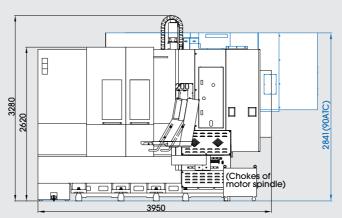
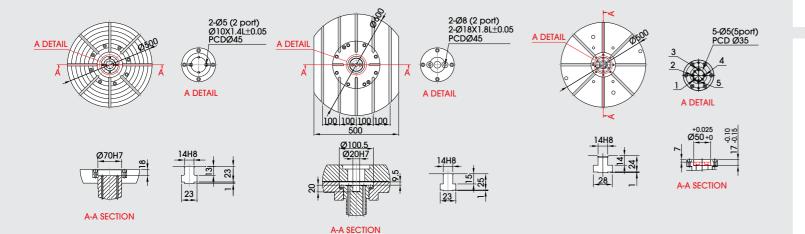


Table dimension



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