



# UX500

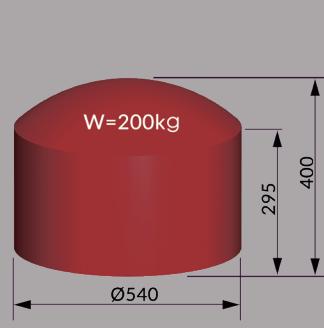
Multi Face , 5 Axes M/C



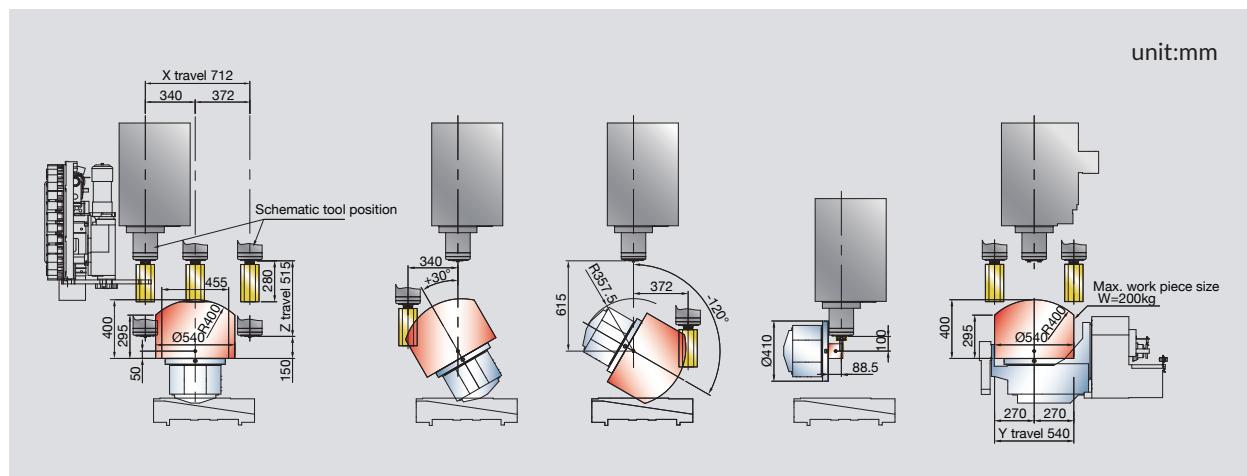
# Cutting Area and Interference



	UX500C	
	Rotary Axis (C-axis)	Tilting Axis (B-axis)
Drive method	Worm	Worm
Max. work piece size (mm)	$\varnothing 540 \times 400$	
Table load capacity (kg)	200	
Maximum R.P.M (min <sup>-1</sup> )	22.2	16.6(F/S); 22.2(T)
Indexing accuracy (sec)	8*	12*
Repeatability (sec)	4*	8*
Clamping torque (Nm)	1,600	2,500



Note: \*With rotary encoder



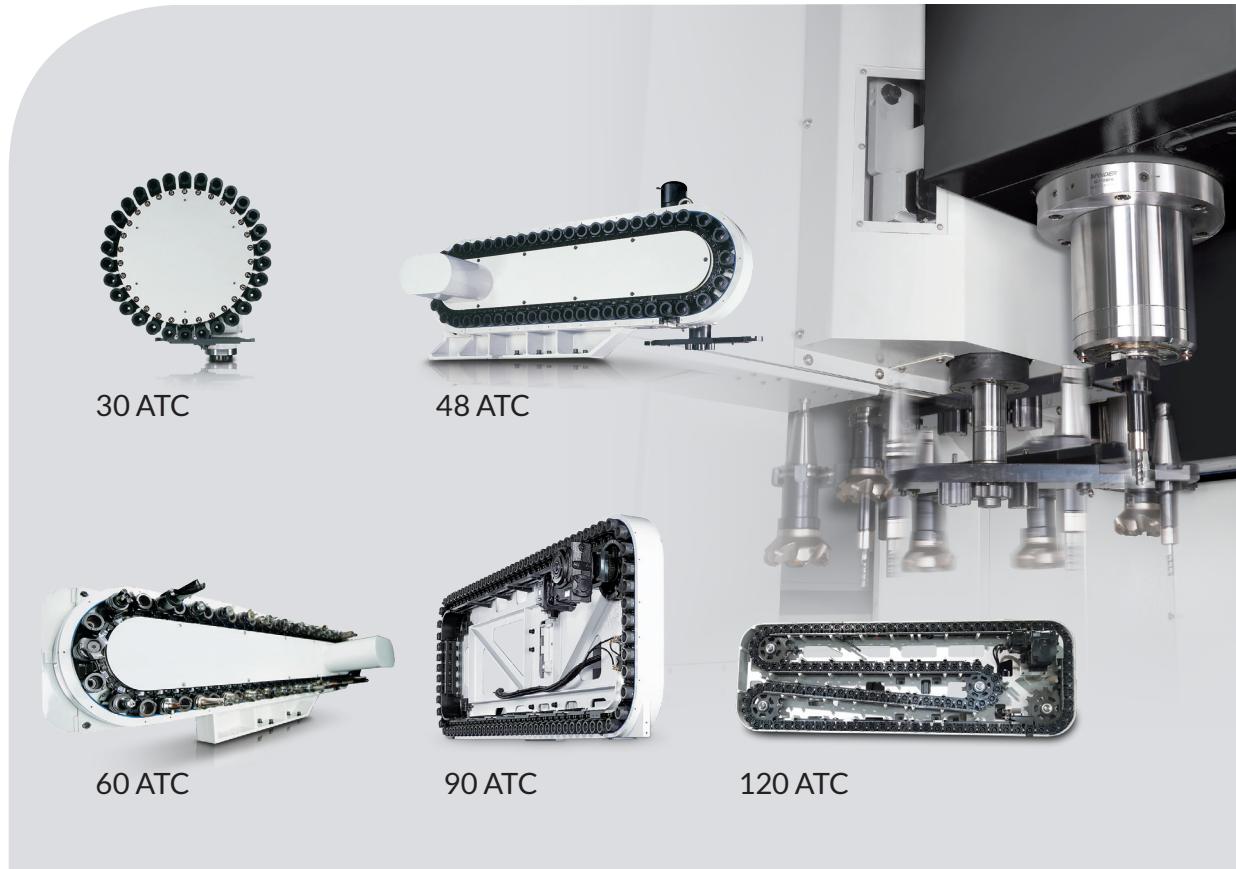
# Ergonomic Operation



**UX500**

<b>A</b>	Spindle to side door at a convenient height	295mm
<b>B</b>	From center of table to front door	654mm
<b>C</b>	Max. size when front door open	820mm
<b>D</b>	Side door opening	545mm
<b>E</b>	Swivel type operation panel	
<b>F</b>	Documentation & hand tool shelf	
<b>G</b>	Tool loading/ unloading on magazine side	
<b>H</b>	Centralized configuration of lubrication and pneumatic panel	

# ATC System



# Coolant & Chip Management



	UX500C
Coolant tank	450L
Coolant through spindle	Opt.
Nozzle coolant	3 bar
Wash gun	Std.
Chip augers	Std.
Wash down	3 bar

# Standard / Optional Accessories

Standard / Optional accessories	UX500		
	C		5 axes
	Multi face	12C	
Spindle code			
FANUC 0i-MF Plus (5 Face)	●		×
HEIDENHAIN TNC620 (5 Face)	○		×
HEIDENHAIN TNC640 (5 Axes)	×		○
HEIDENHAIN advanced function set2	×		○
SIEMENS 828D	○		×
Oil chiller	●		●
40 taper / 30 position tool magazine	●		●
40 taper / 48 / 60 / 90 / 120 position tool magazine	○		○
Pull stud for BT tooling	○		○
Balance tooling for spindle warm up	○		○
BBT spindle attachment (Double contact)	●		●
ATC auto door	●		●
X / Y / Z linear scale	○		○
Rotary encoder on B & C axes	●		●
Remote manual pulse generator	●		●
Transformer <sup>(1)</sup>	○		○
Work probe receive OMI-2T	●		●
Work probe OMP-40	○		○
Tool length / breakage measurement	○		○
6 Port through table	○		○
Reference rod (for thermal comp with probe)	●		●
Coolant system	●		●
Coolant through ball screw	○		○
Coolant through spindle 20 bar	○		○
Coolant wash gun	●		●
Coolant wash down	●		●
Air gun	○		○
Chip conveyor	●		●
Chip augers	●		●
Cutter air blast	●		●
Oil-mist collector	○		○
Bag filtration	○		○
Filtration unit	○		○
Documentation (USB) <sup>(2)</sup>	●		●
Total Enclosure Guard (with Top side cover)	●		●
Work light	●		●
Machine status light	●		●
CE & EMC <sup>(3)</sup> / GB	○		○

Note: <sup>(1)</sup> Transformer as standard or optional item will be varied according to control system and power supply condition.

● Standard

○ Option

✗ N/A

<sup>(2)</sup> Paper documentation is optional. <sup>(3)</sup> As standard for EU area.

# Technical Data

Technical Data	UX500	
	C	
	Multi face	5 axes
Spindle code	12C	
<b>Work range</b>		
Table size (mm)	Ø410	
Travel X / Y / Z (mm)	712 / 540 / 515	
B / C (degree)	+30° ~ -120° / 360° (Continuous)	
Max. swing (mm)	Ø540	
Table surface to spindle nose (mm)	150 ~ 665	
Spindle nose to tilting center at 90° (mm)	150 ~ 665	
Max. work piece size (mm)	Ø540 x 400 <sup>(1)</sup>	
Table load capacity (kg)	200 kg	
<b>Feed drive</b>		
Feed force X / Y / Z (N)	6,283 / 6,283 / 11,519 (F) 6,283 / 6,283 / 14,137 (S) 9,268 / 9,268 / 11,310 (T)	
Rapid movement X / Y / Z (m/min)	36 / 36 / 36	
B / C (min <sup>-1</sup> )	B=22.2(T) I6.6(F ; S) / C=22.2	
Acceleration X / Y / Z (m/s <sup>2</sup> )	3 / 3 / 2.5	
Dia. & pitch of the ball screw (mm)	Ø40 / P= 12/ 12/ 12	
<b>Main spindle</b>		
Spindle taper	BBT40	
Max. spindle speed	12,000	
Spindle base speed	1,500	1,500
Spindle output power (kW)	F* T/S**	18.5 17 / 13.3
Spindle output torque (Nm)	F* T/S**	118 108 / 85
Spindle transmission	Coupling	

	UX500	
	C	
	Multi face	5 axes
<b>Technical Data</b>		
Spindle code	12C	
<b>Tool changer</b>		
Tool selection	Random	
Magazine positions	30 (std.) 48 / 60 / 90 / 120 (opt.)	
Max. tool diameter w/o adjacent tool	Ø76.2 / Ø125	
Max. tool length	280	
Max. tool weight	7 kg	
Tool to tool time (sec.)	1.7±0.2	
Chip to chip time (sec.)	9.0±0.2	
<b>Coolant system</b>		
Coolant tank capacity (Liter )	450L	
Pump capacity	75 / min., 3 bar	
- Nozzle coolant	Opt. (25L/min.,20bar)	
- Coolant through spindle		
- Wash down	75 L/min., 3 bar	
<b>Machine size</b>		
Height (mm)	3,360	
Floor space W x D (mm)	2,770 x 4,040	
Weight (kg)	8,430 (30ATC) 8,730 (48ATC) 8,930 (60ATC) 9,690 (90ATC) 9,750 (120ATC)	
<b>Connections</b>		
Main power	220V or 380V or 400V or 415V / 50Hz or 60Hz	
Power consumption (KVA)	30(F)(T) 25(S)	

**Control:** (F) FANUC (S) SIEMENS (T) HEIDENHAIN

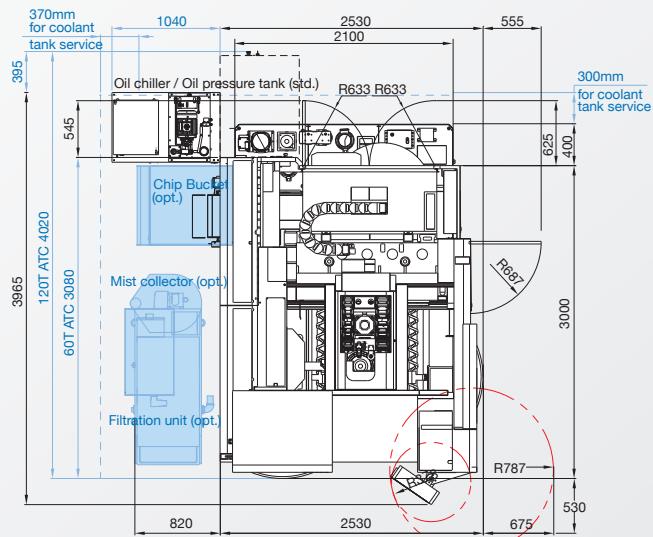
**Note:** <sup>(1)</sup> Please refer to actual max. workpiece interference diagram.

\*(S3-25%) \*\*(S6-25%)

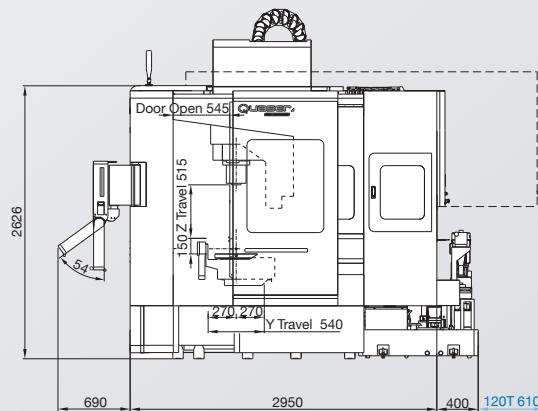
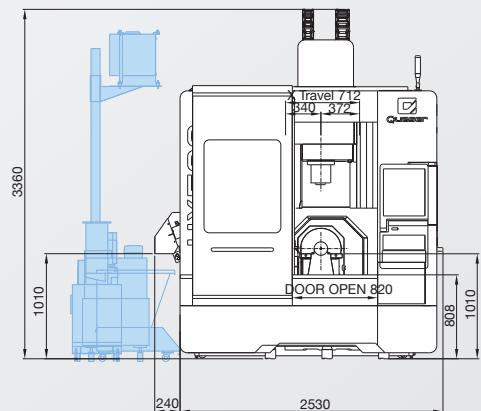
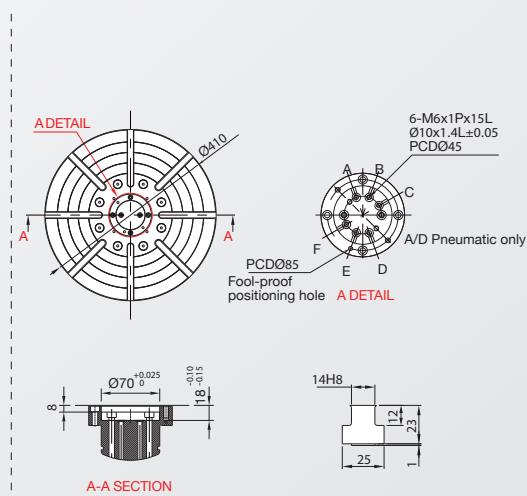
- Machine specification might be different from the catalog if any specification is updated.

# Machine Dimensions

**Installation dimension**



**Table dimension**



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