



# *Conprofe Horizontal 5-Axis Simultaneous Machining Centers*

The information given is not binding. The actual product and mutual agreement shall prevail.

ULH Series 20231110 VE1.3

**Conprofe Machine Tool Co., Ltd.** // Wholly-Owned Subsidiary of Conprofe Technology Group Co., Ltd.

Contact: Esther HU +86-138 2607 9999    E-mail: [esther.hu@conprofetech.com](mailto:esther.hu@conprofetech.com)    Web: [www.conprofetech.cn](http://www.conprofetech.cn)  
Address: No.6 2nd Nanyun Road, Science City, Hi-tech Development Zone, Guangzhou, 510663, P.R.C



## Technical Parameters

Item	Unit	ULH400-5AXIS	ULH500-5AXIS
<b>Travel</b>			
X/Y/Z-Axis Travel	mm	500×650×700	800×700×900
Spindle Center to Table	mm	50-700	50-750
Spindle Nose to Table	mm	150-850	150-1,050
<b>Worktable</b>			
Dimensions	mm	Φ400	Φ500
A-Axis Rotating Range	°	-120°~+120°	-120°~+120°
B-Axis Rotating Range	°	360°	360°
Max. Load (Horizontal)	kg	300	500
Max. Load (Tilt)	kg	200	300
Max. Workpiece Swing Diameter	mm	400×300	500×400
Workpiece Max. Height	mm	650	650
<b>Feed Rate</b>			
X/Y/Z-Axis Rapid Speed	m/min	40	36
Feed Rate	m/min	0-20	0-20
A-Axis Rotary Feed (Max.)	r/min	100	100
B-Axis Rotary Feed (Max.)	r/min	150	150
<b>Ultrasonic Spindle</b>			
Spindle Taper	-	HSK A63	HSK A63
Speed	rpm	100-20,000	100-20,000
Speed Option	-	Full-Range Programmable	Full-Range Programmable
Motor Power	kW	22	35
Motor Torque (Max.)	Nm	29	85
<b>Accuracy</b>			
X/Y/Z-Axis Positioning Accuracy	mm	0.007	0.007
X/Y/Z-Axis Repeatability	mm	0.004	0.004
A-Axis Indexing Positioning Accuracy	"	8	8
B-Axis Indexing Positioning Accuracy	"	8	8
A-Axis Indexing Repeatability	"	5	5
B-Axis Indexing Repeatability	"	5	5
Position Feedback (X/Y/Z-Axis)	-	Linear Encoders	Linear Encoders
Position Feedback (A/B-Axis)	-	Rotary Encoders	Rotary Encoders
Min. Resolution (X/Y/Z-Axis)	-	0.001	0.001
Min. Resolution (A/B-Axis)	-	0.001	0.001
<b>Tool Magazine</b>			
Tool Holding Capacity	No. of Tools	24 (Optional:40)	24 (Optional:40)
Max. Tool Diameter (Full / Partial)	mm	70/130	80/150
Max. Tool Length	mm	200	300
Max. Tool Weight	kg	8	8
Tool Change Time (Tool-Tool)	sec	4.5	4.5
Tool Change Type	-	Random Position, Two-Way Tool Selection	Random Position, Two-Way Tool Selection
<b>Miscellaneous</b>			
Power Supply Voltage	V	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	50	60
Air Pressure	MPa	0.55-0.7	0.55-0.7
Total Weight (incl. Accessories)	kg	16,500	17,000
Machine Size (L×W×H)	mm	6,270×3,400×2,450	6,390×3,560×2,540
<b>Controller</b>			
CNC Controller	-	SIEMENS 840D sl	SIEMENS 840D sl

## Technical Parameters

Item	Unit	ULH650-5AXIS	ULH800-5AXIS
<b>Travel</b>			
X/Y/Z-Axis Travel	mm	1,000×800×900	1,300×1,000×1,100
Spindle Center to Table	mm	50-850	100-1,100
Spindle Nose to Table	mm	150-1,050	200-1,300
<b>Worktable</b>			
Dimensions	mm	Φ650	Φ800
A-Axis Rotating Range	°	-110°~+110°	-110°~+110°
B-Axis Rotating Range	°	360°	360°
Max. Load (Horizontal)	kg	500	800
Max. Load (Tilt)	kg	300	500
Max. Workpiece Swing Diameter	mm	600×400	800×500
Workpiece Max. Height	mm	750	900
<b>Feed Rate</b>			
X/Y/Z-Axis Rapid Speed	m/min	36	30
Feed Rate	m/min	0-20	0-20
A-Axis Rotary Feed (Max.)	r/min	80	80
B-Axis Rotary Feed (Max.)	r/min	100	100
<b>Ultrasonic Spindle</b>			
Spindle Taper	-	HSK A63	HSK A63
Speed	rpm	100-20,000	100-20,000
Speed Option	-	Full-Range Programmable	Full-Range Programmable
Motor Power	kW	35	35
Motor Torque (Max.)	Nm	85	85
<b>Accuracy</b>			
X/Y/Z-Axis Positioning Accuracy	mm	0.008	0.008
X/Y/Z-Axis Repeatability	mm	0.004	0.004
A-Axis Indexing Positioning Accuracy	"	10	12
B-Axis Indexing Positioning Accuracy	"	10	8
A-Axis Indexing Repeatability	"	6	7
B-Axis Indexing Repeatability	"	6	6
Position Feedback (X/Y/Z-Axis)	-	Linear Encoders	Linear Encoders
Position Feedback (A/B-Axis)	-	Rotary Encoders	Rotary Encoders
Min. Resolution (X/Y/Z-Axis)	-	0.001	0.001
Min. Resolution (A/B-Axis)	-	0.001	0.001
<b>Tool Magazine</b>			
Tool Holding Capacity	No. of Tools	24 (Optional:40)	24 (Optional:40)
Max. Tool Diameter (Full / Partial)	mm	80/150	80/150
Max. Tool Length	mm	300	300
Max. Tool Weight	kg	8	12
Tool Change Time (Tool-Tool)	sec	4.5	4.5
Tool Change Type	-	Random Position, Two-Way Tool Selection	Fixed Position, Two-Way Tool Selection
<b>Miscellaneous</b>			
Power Supply Voltage	V	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	60	100
Air Pressure	MPa	0.55-0.7	0.55-0.7
Total Weight (incl. Accessories)	kg	18,000	22,000
Machine Size (L×W×H)	mm	6,490×3,680×2,640	6,580×3,790×2,690
<b>Controller</b>			
CNC Controller	-	SIEMENS 840D sl	SIEMENS 840D sl

## Technical Parameters

Item	Unit	ULH1000-5AXIS	ULH1200-5AXIS
<b>Travel</b>			
X/Y/Z-Axis Travel	mm	1,300×1,000×1,100	1,300×1,200×1,100
Spindle Center to Table	mm	100-1,100	100-1,300
Spindle Nose to Table	mm	200-1,300	200-1,300
<b>Worktable</b>			
Dimensions	mm	Φ 1,000	Φ 1,200
A-Axis Rotating Range	°	-110°~+110°	-100°~+100°
B-Axis Rotating Range	°	360°	360°
Max. Load (Horizontal)	kg	1,000	1,200
Max. Load (Tilt)	kg	600	800
Max. Workpiece Swing Diameter	mm	1,000×500	1,200×500
Workpiece Max. Height	mm	1,000	1,100
<b>Feed Rate</b>			
X/Y/Z-Axis Rapid Speed	m/min	30	30
Feed Rate	m/min	0-20	0-20
A-Axis Rotary Feed (Max.)	r/min	50	50
B-Axis Rotary Feed (Max.)	r/min	80	80
<b>Ultrasonic Spindle</b>			
Spindle Taper	-	HSK A100	HSK A100
Speed	rpm	100-15,000	100-15,000
Speed Option	-	Full-Range Programmable	Full-Range Programmable
Motor Power	kW	26	26
Motor Torque (Max.)	Nm	216	216
<b>Accuracy</b>			
X/Y/Z-Axis Positioning Accuracy	mm	0.008	0.008
X/Y/Z-Axis Repeatability	mm	0.004	0.004
A-Axis Indexing Positioning Accuracy	"	12	12
B-Axis Indexing Positioning Accuracy	"	8	8
A-Axis Indexing Repeatability	"	7	7
B-Axis Indexing Repeatability	"	6	6
Position Feedback (X/Y/Z-Axis)	-	Linear Encoders	Linear Encoders
Position Feedback (A/B-Axis)	-	Rotary Encoders	Rotary Encoders
Min. Resolution (X/Y/Z-Axis)	-	0.001	0.001
Min. Resolution (A/B-Axis)	-	0.001	0.001
<b>Tool Magazine</b>			
Tool Holding Capacity	No. of Tools	24 (Optional:40)	24 (Optional:40)
Max. Tool Diameter (Full / Partial)	mm	80/150	80/150
Max. Tool Length	mm	350	350
Max. Tool Weight	kg	12	15
Tool Change Time (Tool-Tool)	sec	5.5	5.5
Tool Change Type	-	Fixed Position, Two-Way Tool Selection	Fixed Position, Two-Way Tool Selection
<b>Miscellaneous</b>			
Power Supply Voltage	V	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	100	100
Air Pressure	MPa	0.55-0.7	0.55-0.7
Total Weight (incl. Accessories)	kg	23,000	24,000
Machine Size (L×W×H)	mm	6,580×3,890×2,790	6,580×3,890×2,790
<b>Controller</b>			
CNC Controller	-	SIEMENS 840D sl	SIEMENS 840D sl