

Conprofe Engraving & Milling Centers



ULM Series 

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ULM Series 20231109 VE1.1

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

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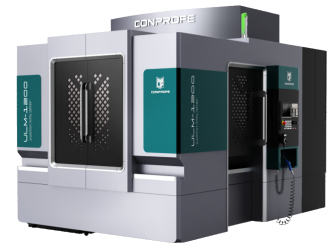
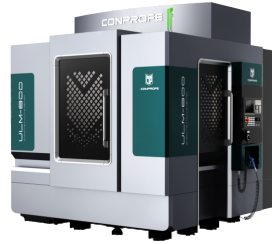


Technical Parameters



Item	Unit	ULM-400A B C	ULM-500A B	ULM-600A B C
Travel				
X/Y/Z-Axis Travel	mm	400×400×150	500×400×300	600×500×300
Spindle Nose to Table	mm	210-360 215-365 185-335	175-475 175-475	130-430 130-430 150-450
Worktable				
Dimensions	mm	400×400	500×400	620×560
Max. Load	kg	100	200	300
T-Slot (No.×Width×Distance)	pcs×mm×mm	5×12×80	4×12×100	7×12×80
Spindle				
Diameter	mm	Φ80 Φ80 Φ100	Φ100 Φ120	Φ100 Φ120 Φ150
Max. Speed (Short-Duration)	rpm	40,000 50,000 40,000	40,000 30,000	40,000 30,000 18,000
Max. Speed (Long-Duration)	rpm	32,000 40,000 32,000	32,000 24,000	32,000 24,000 14,400
Motor Power (Rated)	kW	3.7 3.7 6	6 7.5	6 7.5 Y:15 Δ:20
Motor Torque (Rated)	Nm	1.17 1.17 2.7	2.7 3.4	2.7 3.4 Y:39.6 Δ:24.8
Spindle Taper	-	ISO20 HSK-E25 HSK-E32	HSK-E32 HSK-E40	HSK-E32 HSK-E40 HSK-A63
Ultrasonic	-	Optional	Optional	Optional
Feed Rate				
X/Y/Z-Axis Rapid Speed	m/min	15/15/15	15/15/15	15/15/15
X/Y/Z-Axis Max. Feed	m/min	10/10/10	10/10/10	10/10/10
X/Y/Z-Axis Motor Power	kW	0.75/0.75/0.75	0.75/0.75/0.75	0.85/0.85/0.85
Accuracy				
X/Y/Z-Axis Positioning Accuracy	mm	0.005	0.005	0.005
X/Y/Z-Axis Repeatability	mm	0.003	0.003	0.003
Tool Magazine				
Tool Holding Capacity	No. of Tools	Non-Ultrasonic: 14 14 11	Non-Ultrasonic: 14 12	Non-Ultrasonic: 15 13 9
		Ultrasonic: 12 13 11	Ultrasonic: 14 12	Ultrasonic: 15 13 9
Max. Tool Diameter (Full)	mm	60 60 60	90 90	130 140 110
Max. Tool Length	mm	75 90 75	90 90	80 80 70
Max. Tool Weight	kg	3	3	3
Type	-	Umbrella Type	Umbrella Type	Umbrella Type
Miscellaneous				
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	8 8 10	10.5 12	12 14 27
Air Pressure	MPa	0.5-0.7	0.5-0.7	0.5-0.7
Total Air Consumption	L/min	>100	>100	>100
Total Weight (incl. Accessories)	kg	2,100	3,500	5,000
Machine Size (L×W×H)	mm	1,245×1,750×2,130	1,650×1,880×2,405	1,850×2,100×2,395
Controller				
CNC Controller	-	HNC-918D (Standard) SIEMENS 828D-280 (Optional)	HNC-918D (Standard) SIEMENS 828D-280 (Optional)	HNC-918D (Standard) SIEMENS 828D-280 (Optional)

Technical Parameters



Item	Unit	ULM-800A B C	ULM-1200A B C
Travel			
X/Y/Z-Axis Travel	mm	800×800×350	800×1,200×350
Spindle Nose to Table	mm	150-500 150-500 150-500	150-500 150-500 145-495
Worktable			
Dimensions	mm	850×850	850×1,250
Max. Load	kg	1,000	1,000
T-Slot (No.xWidth×Distance)	pcs×mm×mm	8×18×100	8×18×100
Spindle			
Diameter	mm	Φ 100 Φ 120 Φ 150	Φ 100 Φ 120 Φ 150
Max. Speed (Short-Duration)	rpm	40,000 30,000 18,000	40,000 30,000 18,000
Max. Speed (Long-Duration)	rpm	32,000 24,000 14,400	32,000 24,000 14,400
Motor Power (Rated)	kW	6 7.5 Y:15 △:20	6 7.5 Y:15 △:20
Motor Torque (Rated)	Nm	2.7 3.4 Y:39.6 △:24.8	2.7 3.4 Y:39.6 △:24.8
Spindle Taper	-	HSK-E32 HSK-E40 HSK-A63	HSK-E32 HSK-E40 HSK-A63
Ultrasonic	-	Optional	Optional
Feed Rate			
X/Y/Z-Axis Rapid Speed	m/min	24/24/24	24/24/24
X/Y/Z-Axis Max. Feed	m/min	10/10/10	10/10/10
X/Y/Z-Axis Motor Power	kW	3.1/3.1/3.1	3.1/4.3/3.1
Accuracy			
X/Y/Z-Axis Positioning Accuracy	mm	0.005	0.005
X/Y/Z-Axis Repeatability	mm	0.003	0.003
Tool Magazine			
Tool Holding Capacity	No. of Tools	Non-Ultrasonic: 25 25 40	Non-Ultrasonic: 25 25 40
		Ultrasonic: 25 25 20	Ultrasonic: 25 25 20
Max. Tool Diameter (Full)	mm	60 60 76	60 60 76
Max. Tool Length	mm	150 150 260	150 150 260
Max. Tool Weight	kg	5 5 5	5 5 5
Type	-	Disc Type Disc Type Chain Type	Disc Type Disc Type Chain Type
Miscellaneous			
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	18 20 33	18 20 33
Air Pressure	MPa	0.5-0.7	0.5-0.7
Total Air Consumption	L/min	>100	>100
Total Weight (incl. Accessories)	kg	9,000	11,000
Machine Size (L×W×H)	mm	2,990×2,935×2,875	2,990×3,770×2,900
Controller			
CNC Controller	-	SIEMENS 828D-280	SIEMENS 828D-280

Technical Parameters

Item	Unit	ULM-1700A	ULM-1700B	ULM-1700C
Travel				
X/Y/Z-Axis Travel	mm	1,700×1,200×350	1,700×1,200×350	1,700×1,200×350
Spindle Nose to Table	mm	150-500	150-500	145-495
Worktable				
Dimensions	mm	1,700×1,200	1,700×1,200	1,700×1,200
Max. Load	kg	1,500	1,500	1,500
T-Slot (No.xWidth×Distance)	pcs×mm×mm	9×18×125	9×18×125	9×18×125
Spindle				
Diameter	mm	Φ 100	Φ 120	Φ 150
Max. Speed (Short-Duration)	rpm	40,000	30,000	18,000
Max. Speed (Long-Duration)	rpm	32,000	24,000	14,400
Motor Power (Rated)	kW	6	7.5	Y:15 △:20
Motor Torque (Rated)	Nm	2.7	3.4	Y:39.6 △:24.8
Spindle Taper	-	HSK-E32	HSK-E40	HSK-A63
Ultrasonic	-	Optional	Optional	Optional
Feed Rate				
X/Y/Z-Axis Rapid Speed	m/min	15/15/24	15/15/24	15/15/24
X/Y/Z-Axis Max. Feed	m/min	10/10/10	10/10/10	10/10/10
X/Y/Z-Axis Motor Power	kW	3.1/4.3/3.1	3.1/4.3/3.1	3.1/4.3/3.1
Accuracy				
X/Y/Z-Axis Positioning Accuracy	mm	0.005	0.005	0.005
X/Y/Z-Axis Repeatability	mm	0.003	0.003	0.003
Tool Magazine				
Tool Holding Capacity	No. of Tools	Non-Ultrasonic: 25	Non-Ultrasonic: 25	Non-Ultrasonic: 40
		Ultrasonic: 25	Ultrasonic: 25	Ultrasonic: 20
Max. Tool Diameter (Full)	mm	60	60	76
Max. Tool Length	mm	150	150	260
Max. Tool Weight	kg	5	5	5
Type	-	Disc Type	Disc Type	Chain Type
Miscellaneous				
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	18	20	33
Air Pressure	MPa	0.5-0.7	0.5-0.7	0.5-0.7
Total Air Consumption	L/min	> 100	> 100	> 100
Total Weight (incl. Accessories)	kg	13,000	13,000	13,000
Machine Size (L×W×H)	mm	4,660×3,350×2,910	4,660×3,350×2,910	4,660×3,350×2,910
Controller				
CNC Controller	-	SIEMENS 828D-280	SIEMENS 828D-280	SIEMENS 828D-280

Main Configurations

●Yes ○No

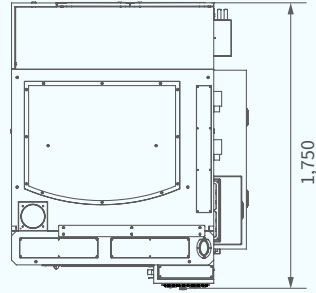
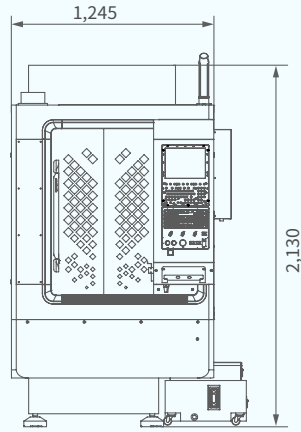
	ULM-400 A B C	ULM-500 A B	ULM-600 A B C	ULM-800 A B C	ULM-1200 A B C	ULM-1700 A B C	ULM-400 AA BB CC	ULM-500 AA BB	ULM-600 AA BB CC
Standard Configurations									
Coolant System	●	●	●	●	●	●	●	●	●
Centralized Automatic Lubrication System	●	●	●	●	●	●	●	●	●
Spindle Chiller	●	●	●	●	●	●	●	●	●
Handwheel	●	●	●	●	●	●	●	●	●
Blow Gun	●	●	●	●	●	●	●	●	●
Electrical Cabinet Heat Exchanger	●	●	●	●	●	●	●	●	●
LED Work Light	●	●	●	●	●	●	●	●	●
Three-Color Alarm Light	●	●	●	●	●	●	●	●	●
Door Safety Interlock	●	●	●	●	●	●	●	●	●

	ULM-400 A B C	ULM-500 A B	ULM-600 A B C	ULM-800 A B C	ULM-1200 A B C	ULM-1700 A B C	ULM-400 AA BB CC	ULM-500 AA BB	ULM-600 AA BB CC
Optional Configurations									
High Precision Probe	●	●	●	●	●	●	●	●	●
High Precision Linear Encoders	○	○	○	●	●	●	○	○	○
Oil-Mist Collector	●	●	●	●	●	●	●	●	●
4/5th Axis Rotary Table	●	●	●	●	●	●	●	●	●
Automatic Door	●	●	●	●	●	●	●	●	●
Contact Tool Setter	●	●	●	●	●	●	●	●	●
Ultrasonic Amplitude Measuring Instrument	●	●	●	○	○	○	●	●	●
5-Axis Simultaneous Machining System (with RTCP Function)	●	●	●	○	○	○	●	●	●
Extended Tool Magazine	See the table below	See the table below	See the table below	○	○	○	○	○	○

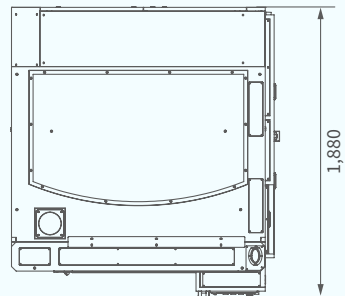
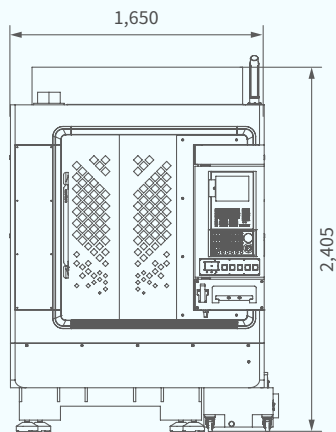
	ULM-400A	ULM-400B	ULM-400C	ULM-500A	ULM-500B	ULM-600A	ULM-600B	ULM-600C
Extended Tool Magazine Configurations								
Extended Tool Magazine (Non-Ultrasonic)	ETM-14	ETM-14	ETM-11	ETM-14	ETM-12	ETM-15	ETM-13	ETM-9
Extended Tool Magazine (Ultrasonic)	ETM-12	ETM-13	ETM-11	ETM-14	ETM-12	ETM-15	ETM-13	ETM-9

Floor Plans (Unit: mm)

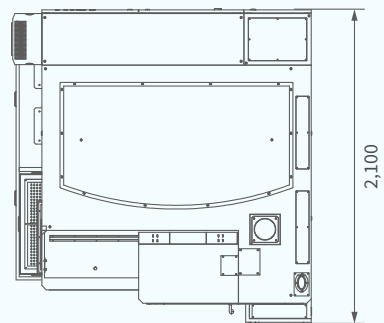
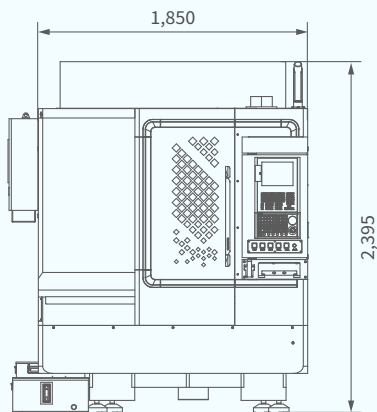
ULM-400A | B | C



ULM-500A | B

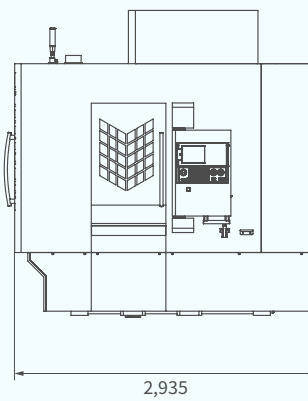
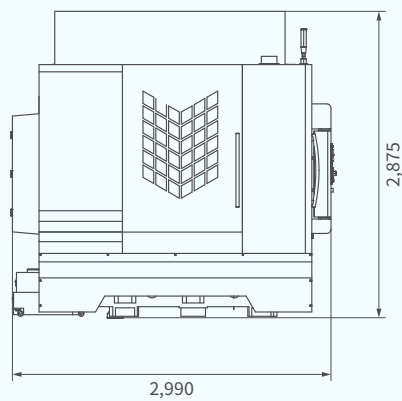


ULM-600A | B | C



Floor Plans (Unit: mm)

ULM-800A | B



ULM-1200A | B

