



Conprofe 5-Axis Gantry Machining Centers

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UGG Series 20241121 VE1.7

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

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Direct Industry



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Technical Data

Item	Unit	UGG4020H-5AXIS	UGG6028-5AXIS
Travel			
X/Y/Z-Axis Travel	mm	4,000×2,000×1,200	6,000×2,800×1,000
Distance between Two Columns	mm	2,800	3,500
Spindle Nose to Table	mm	200-1,400	200-1,200
Spindle Center to Table	mm	380-1,380	380-1,380
Worktable to Beam	mm	2,185	2,185
Worktable			
Dimensions	mm	4,000×2,000	6,000×2,800
T-Slot (No.×Width×Distance)	pcs×mm×mm	15×22×160	17×22×160
Spindle			
Spindle Taper	-	HSK-A100	HSK-A100
Speed	rpm	50-15,000	50-15,000
Max. Torque (A/C-Axis)	Nm	1,200/ 1,100	1,200/ 1,100
Motor Power	kW	45	45
Output Torque	Nm	145	145
Speed			
Cutting Speed	mm/min	1-8,000	1-8,000
X/Y/Z-Axis Rapid Speed	m/min	15/15/10	15/15/10
Accuracy			
X/Y/Z-Axis Positioning Accuracy	mm	0.015/0.015/0.015	0.02/0.02/0.02
X/Y/Z-Axis Repeatability	mm	0.008/0.008/0.008	0.015/0.015/0.015
Tool Magazine			
Tool Holding Capacity	No. of Tools	40 (Optional: 60)	40 (Optional: 60)
Max. Tool Diameter (Full / Partial)	mm	Φ 125/Φ 250	Φ 125/Φ 250
Max. Tool Length	mm	400	400
Max. Tool Weight	kg	25	25
Total Tool Weight	kg	≤ 480	≤ 480
Type	-	Chain Type	Chain Type
Miscellaneous			
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	65	140
Air Pressure	MPa	0.5-0.8	0.5-0.8
Net Machine Weight	kg	≈ 58,000	≈ 65,000
Machine Size (L×W×H)	mm	12,000×5,500×5,589	14,200×5,500×7,500
Controller			
CNC Controller	-	SIEMENS One (Standard)	SIEMENS One (Standard)
		HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)

Technical Data

Item	Unit	UGG6030L-5AXIS	UGG6040-5AXIS
Travel			
X/Y/Z-Axis Travel	mm	6,000×3,000×1,200	6,000×4,000×1,300
Distance between Two Columns	mm	3,600	4,500
Spindle Nose to Table	mm	200-1,400	200-1,500
Spindle Center to Table	mm	380-1,580	380-1,680
Worktable to Beam	mm	2,185	2,385
Worktable			
Dimensions	mm	6,000×3,000	6,000×4,000
T-Slot (No.xWidth×Distance)	pcs×mm×mm	17×22×160	18×28×200
Spindle			
Spindle Taper	-	HSK-A100	HSK-A100
Speed	rpm	50-15,000	50-15,000
Max. Torque (A/C-Axis)	Nm	1,200/ 1,100	1,200/ 1,100
Motor Power	kW	45	45
Output Torque	Nm	145	145
Speed			
Cutting Speed	mm/min	1-8,000	1-8,000
X/Y/Z-Axis Rapid Speed	m/min	15/15/10	15/15/10
Accuracy			
X/Y/Z-Axis Positioning Accuracy	mm	0.02/0.02/0.02	0.02/0.02/0.02
X/Y/Z-Axis Repeatability	mm	0.015/0.015/0.015	0.015/0.015/0.015
Tool Magazine			
Tool Holding Capacity	No. of Tools	40 (Optional: 60)	40 (Optional: 60)
Max. Tool Diameter (Full / Partial)	mm	Φ 125/Φ 250	Φ 125/Φ 250
Max. Tool Length	mm	400	400
Max. Tool Weight	kg	25	25
Total Tool Weight	kg	≤ 480	≤ 480
Type	-	Chain Type	Chain Type
Miscellaneous			
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	150	150
Air Pressure	MPa	0.5-0.8	0.5-0.8
Net Machine Weight	kg	≈ 65,000	≈ 70,000
Machine Size (L×W×H)	mm	14,200×5,500×7,500	13,200×7,500×6,100
Controller			
CNC Controller	-	SIEMENS One (Standard)	SIEMENS One (Standard)
		HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)

Technical Data

Item	Unit	UGG8028-5AXIS	UGG8040-5AXIS
Travel			
X/Y/Z-Axis Travel	mm	8,000×2,800×1,100	8,000×4,000×1,300
Distance between Two Columns	mm	3,500	4,500
Spindle Nose to Table	mm	200-1,200	200-1,500
Spindle Center to Table	mm	380-1,480	380-1,680
Worktable to Beam	mm	1,700	2,385
Worktable			
Dimensions	mm	8,000×2,800	8,000×4,000
T-Slot (No.xWidth×Distance)	pcs×mm×mm	19×28×200	18×28×200
Spindle			
Spindle Taper	-	HSK-A100	HSK-A100
Speed	rpm	50-15,000	50-15,000
Max. Torque (A/C-Axis)	Nm	1,200/ 1,100	1,200/ 1,100
Motor Power	kW	45	45
Output Torque	Nm	145	145
Speed			
Cutting Speed	mm/min	1-8,000	1-8,000
X/Y/Z-Axis Rapid Speed	m/min	15/15/10	15/15/10
Accuracy			
X/Y/Z-Axis Positioning Accuracy	mm	0.02/0.02/0.02	0.025/0.025/0.025
X/Y/Z-Axis Repeatability	mm	0.015/0.015/0.015	0.017/0.017/0.017
Tool Magazine			
Tool Holding Capacity	No. of Tools	40 (Optional: 60)	40 (Optional: 60)
Max. Tool Diameter (Full / Partial)	mm	Φ 125/Φ 250	Φ 125/Φ 250
Max. Tool Length	mm	400	400
Max. Tool Weight	kg	25	25
Total Tool Weight	kg	≤ 480	≤ 480
Type	-	Chain Type	Chain Type
Miscellaneous			
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	85	85
Air Pressure	MPa	0.5-0.8	0.5-0.8
Net Machine Weight	kg	≈ 75,000	≈ 70,000
Machine Size (L×W×H)	mm	17,600×5,500×7,500	13,200×7,500×6,100
Controller			
CNC Controller	-	SIEMENS One (Standard)	SIEMENS One (Standard)
		HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)

Technical Data

Item	Unit	UGG9050-5AXIS	UGG12028-5AXIS
Travel			
X/Y/Z-Axis Travel	mm	9,000×5,000×1,500	12,000×2,800×1,100
Distance between Two Columns	mm	5,500	3,500
Spindle Nose to Table	mm	260-1,760	260-1,360
Spindle Center to Table	mm	380-1,880	380-1,480
Worktable to Beam	mm	2,485	1,700
Worktable			
Dimensions	mm	9,000×5,000	12,000×2,800
T-Slot (No.xWidth×Distance)	pcs×mm×mm	23×28×200	19×28×200
Spindle			
Spindle Taper	-	HSK-A100	HSK-A100
Speed	rpm	50-15,000	50-15,000
Max. Torque (A/C-Axis)	Nm	1,200/ 1,100	1,200/ 1,100
Motor Power	kW	45	45
Output Torque	Nm	145	145
Speed			
Cutting Speed	mm/min	1-8,000	1-8,000
X/Y/Z-Axis Rapid Speed	m/min	15/15/10	15/15/10
Accuracy			
X/Y/Z-Axis Positioning Accuracy	mm	0.025/0.025/0.025	0.025/0.025/0.025
X/Y/Z-Axis Repeatability	mm	0.017/0.017/0.017	0.020/0.020/0.020
Tool Magazine			
Tool Holding Capacity	No. of Tools	40 (Optional: 60)	40 (Optional: 60)
Max. Tool Diameter (Full / Partial)	mm	Φ 125/Φ 250	Φ 125/Φ 250
Max. Tool Length	mm	400	400
Max. Tool Weight	kg	25	25
Total Tool Weight	kg	≤ 480	≤ 480
Type	-	Chain Type	Chain Type
Miscellaneous			
Power Supply Voltage	-	Three-Phase AC, 380V/50Hz	Three-Phase AC, 380V/50Hz
Power Capacity	kVA	95	95
Air Pressure	MPa	0.5-0.8	0.5-0.8
Net Machine Weight	kg	≈ 87,000	≈ 97,000
Machine Size (L×W×H)	mm	19,600×8,500×5,100	25,500×5,500×7,500
Controller			
CNC Controller	-	SIEMENS One (Standard)	SIEMENS One (Standard)
		HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)

Technical Data

Item	Unit	UGG12060-5AXIS	UMG15080-5AXIS	UMG20080-5AXIS
Travel				
X/Y/Z-Axis Travel	mm	12,000×6,000×1,500	15,000×7,800×1,500	20,000×8,200×1,500
Distance between Two Columns	mm	6,800	8,000	9,000
Spindle Nose to Table	mm	260-1,760	260-1,760	260-1,760
Spindle Center to Table	mm	380-1,880	380-1,380	380-1,480
Worktable to Beam	mm	2,485	2,300	2,300
Worktable				
Dimensions	mm	12,000×6,000	15,000×7,200	20,000×8,000
T-Slot (No.×Width×Distance)	pcs×mm×mm	29×28×200	24×28×300	24×28×300
Spindle				
Spindle Taper	-	HSK-A100	HSK-A100	HSK-A100
Speed	rpm	50-15,000	50-15,000	50-15,000
Max. Torque (A/C-Axis)	Nm	1,200/ 1,100	1,200/ 1,100	1,200/ 1,100
Motor Power	kW	45	45	45
Output Torque	Nm	145	145	145
Speed				
Cutting Speed	mm/min	1-8,000	1-8,000	1-8,000
X/Y/Z-Axis Rapid Speed	m/min	15/15/10	10/15/10	10/15/10
Accuracy				
X/Y/Z-Axis Positioning Accuracy	mm	0.025/0.025/0.025	0.035/0.035/0.035	0.035/0.035/0.035
X/Y/Z-Axis Repeatability	mm	0.020/0.020/0.020	0.015/0.015/0.015	0.015/0.015/0.015
Tool Magazine				
Tool Holding Capacity	No. of Tools	40 (Optional: 60)	40 (Optional: 60)	40 (Optional: 60)
Max. Tool Diameter (Full / Partial)	mm	Φ 125/Φ 250	Φ 125/Φ 250	Φ 125/Φ 250
Max. Tool Length	mm	400	400	400
Max. Tool Weight	kg	25	25	25
Total Tool Weight	kg	≤ 480	≤ 480	≤ 480
Type	-	Chain Type	Chain 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	95	115	115
Air Pressure	MPa	0.5-0.8	0.5-0.8	0.5-0.8
Net Machine Weight	kg	≈ 105,000	≈ 210,000	≈ 210,000
Machine Size (L×W×H)	mm	25,600×9,500×5,100	19,000×10,500×5,600	22,600×10,500×5,600
Controller				
CNC Controller	-	SIEMENS One (Standard)	SIEMENS One (Standard)	SIEMENS One (Standard)
		HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)	HEIDENHAIN / HNC (Optional)

Main Configurations

●Yes ○No

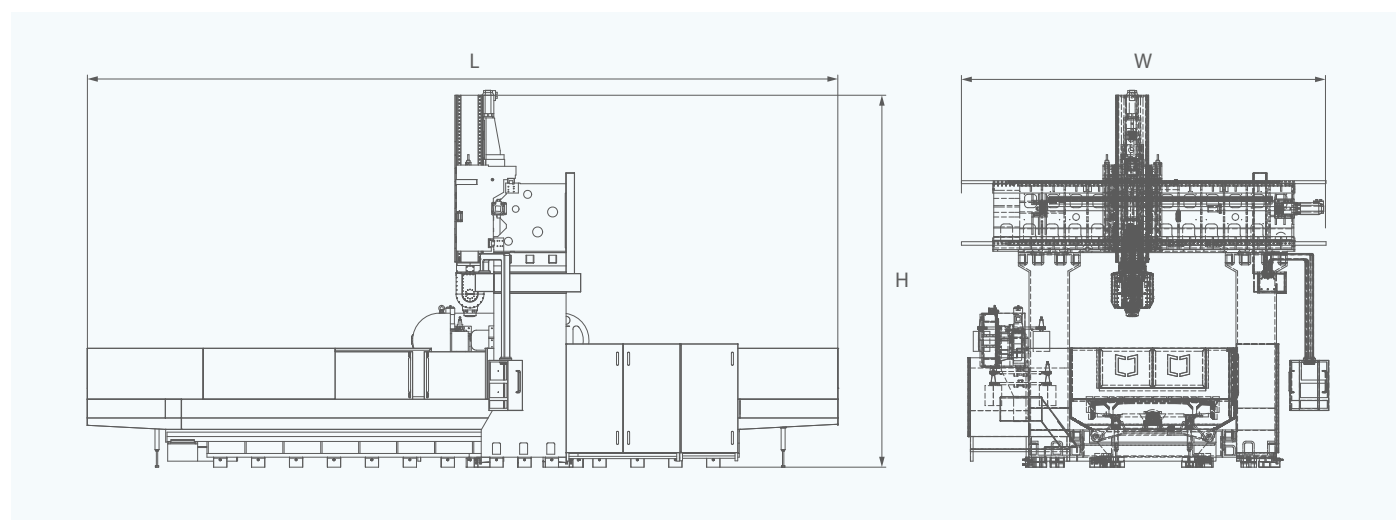
	UGG4020H -5AXIS	UGG6028 -5AXIS	UGG6030L -5AXIS	UGG6040 -5AXIS	UGG8028 -5AXIS	UGG8040 -5AXIS	UGG9050 -5AXIS	UGG12028 -5AXIS	UGG12060 -5AXIS	UMG15080 -5AXIS	UMG20080 -5AXIS
Standard Configurations											
Coolant System	●	●	●	●	●	●	●	●	●	●	●
Centralized Automatic Lubrication System	●	●	●	●	●	●	●	●	●	●	●
Spindle Chiller	●	●	●	●	●	●	●	●	●	●	●
Contact Tool Setter	●	●	●	●	●	●	●	●	●	●	●
HEIDENHAIN Linear Encoders	●	●	●	●	●	●	●	●	●	●	●
Electrical Spindle	●	●	●	●	●	●	●	●	●	●	●
Handwheel	●	●	●	●	●	●	●	●	●	●	●
Blow Gun	●	●	●	●	●	●	●	●	●	●	●
Electrical Cabinet Heat Exchanger	●	●	●	●	●	●	●	●	●	●	●
LED Work Light	●	●	●	●	●	●	●	●	●	●	●
Three-Color Alarm Light	●	●	●	●	●	●	●	●	●	●	●
Door Safety Interlock	●	●	●	●	●	●	●	●	●	●	●
5-Axis Simultaneous Machining System (with RTCP Function)	●	●	●	●	●	●	●	●	●	●	●
Anti-Collision System	●	●	●	●	●	●	●	●	●	●	●
Auto Chip Conveyor	●	●	●	●	●	●	●	●	●	●	●
Ultrasonic Machining System	●	○	●	○	○	○	○	○	○	○	○

Optional Configurations											
High Precision Probe	●	●	●	●	●	●	●	●	●	●	●
Oil-Mist Collector	●	●	●	●	●	●	●	●	●	●	●
Laser Tool Setter	●	●	●	●	●	●	●	●	●	●	●
Through-Spindle Cooling Unit	●	●	●	●	●	●	●	●	●	●	●
Ultrasonic Machining System	○	●	○	●	●	●	●	●	●	●	●

A/C Swivel Head

Specifications	Unit	A-Axis	C-Axis
Max. Torque	Nm	1,200	1,100
Clamping Torque	Nm	2,160 (6bar)	3,024 (6bar)
Max. Speed	rpm	100	100
Swing Angle	deg	±105	±360
Measuring System	/	Absolute Type	Absolute Type
Positioning Accuracy	arcsec	8(VDI)	8(VDI)
Repeatability	arcsec	4(VDI)	4(VDI)

Floor Plans (Unit: mm)



Specifications	L	W	H
UGG4020H-5AXIS	12,000	5,500	5,589
UGG6028-5AXIS	14,200	5,500	7,500
UGG6030L-5AXIS	14,200	5,500	7,500
UGG6040-5AXIS	13,200	7,500	6,100
UGG8028-5AXIS	17,600	5,500	7,500
UGG8040-5AXIS	13,200	7,500	6,100
UGG9050-5AXIS	19,600	8,500	5,100
UGG12028-5AXIS	25,500	5,500	7,500
UGG12060-5AXIS	25,600	9,500	5,100
UMG15080-5AXIS	19,000	10,500	5,600
UMG20080-5AXIS	22,600	10,500	5,600



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