

Technical data

UG g-line

High performance automatic machines for drilling printed circuits boards.

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UltraSpeed			g-line						
UG6000	X axis of Y axis of Z axis of	Drilling machine X axis driven by linear motor Y axis driven by gantry linear motor Z axis driven individually by linear motor Machine controlled by the POSALUX 3000 CNC							
UG6000-6	6 stations, single spindle per station Chain tool-magazine with 6'000 tools, no production interruption while loading / unloading tools								
UG6000-6 A	ATC	6 stations, single spindle per station							
UG6000-6 D	6 stations DUAL Double spindles per station allowing the simultaneous machining of the part programm Chain tool-magazine with 6'000 tools, no production interruption while loading / unloading tools								
UG6000-6 D A	DUAL ATC								
Machine model and workpiece format		UltraSpeed UG-6 / UG-6 A / UG-6 D							
		1	2	3	4	5	6	27.0" [685.8 mm]	
		6 x 21.	5" [6 x 546	.0 mm]				_	
		UltraSp	eed UG-6 E) A	•) °) ·	٦	
		1	2	3	4	5	6	24.5" [622.3 mm]	
		6 x 21.	 5" [6 x 546	.0 mm]		_ •		_	
Workpiece clamping	2-point clamping device (prism and slot) for pins. Passive clamping for pin diameter: 3.17 mm [¹/ ₈ "] Single contact claw for CONTACT DRILL function. Template screw holes provided on table. Clamping device position control by ACCURACY CHECK function.								
X axis Speed Acceleration Distance between stations Distance between units	Spindle carrier unit. $<80 \text{ m min}^{-1} [3150" \text{ min}^{-1}]$ $<10.0 \text{ m/s}^2 \cong 1.02 \text{ g}$ UG-6: 551.0 mm [21.69"] UG-6 D: 143.0 mm to 408.0 mm [5.63" to 16.06"]								
Y axis Speed Acceleration	Machine table. $<80 \text{ m min}^{-1} [3150" \text{ min}^{-1}]$ $<12.0 \text{ m/s}^2 \cong 1.22 \text{ g}$								
Z axis Working stroke Speed Acceleration Pressure-foot	<12.0 m <30 m s	LZ carrier unit, independent drive system for each spindle. $<12.0 \text{ mm } [.472"]$ $<30 \text{ m min}^{-1} [1181" \text{ min}^{-1}]$ $<40 \text{ m/s}^2 \cong 4.1 \text{ g}$ 3 positions IPF interchangeable insert.							
Synchronous spindle Speed range Drill bit diameter Tool shank diameter		S 200 krpm mm [.25"] m [¹ / ₈ "]	PX250 20 to <5.00 i 3.17 m	250 25 <u>.</u> 19					
Asynchronous spindle Restriction Speed range Drill bit diameter Tool shank diameter	PS300 — 30 to 3.20 mr 3.17 mr	300 krpm m [.126"]	PS300 ATC o 30 to 3.20 m 2.00 m	300 m [.12					
ATC tool-magazine Cassette per spindle Tool supply	6	UltraSpeed UG-6 UltraSpeed UG-6 D							
Chain tool-magazine Capacity Tool supply		6'000 tools per machine. In EUROMAGAZINES, no production interruption while loading / unloading tools.							
Tool measuring and monitoring DL tool measuring station Tool break monitoring		ter measuring a NTACT DRILL t			by optica	l system.			





UltraSpeed	g-line						
Tools management Joker function	Option.						
POSALUX CNC 3000	Industrial PC, QNX real-time operating system. Man-machine interface (touch monitor, connection to outside world through network).						
Quality assurance, accuracy X / Y positioning repetition Machining accuracy: drilling Z depth in drilling repetition in blindhole	±0.005 mm [±.2 mil"] ±0.002 mm [±.08 mil"] ±0.015 mm [±.59 mil"] ±0.15 mm [±6 mil"] ±0.01 mm [±.4 mil"]						
Energy sources Electrical supply Voltage Frequency Installed power, including the the cooling system	UltraSpeed UG-6 3 x 400 V~ + GND 50 - 60 Hz 28.0 kVA	UltraSpeed UG-6 D 3 x 400 V~ + GND 50 - 60 Hz 35.0 kVA					
Pneumatic supply Air pressure Air consumption Air dryer	7.0 bar 1'050 NI min ⁻¹ Included	7.0 bar 2'050 NI min ⁻¹ Included					
Cooling circuit Choice of heat exchanger	Two independent cooling loops: spindles and linear n Water-water: heat dissipation by cold water (supplied Water-air: heat dissipation by ventilation.	ed by the customer).					
Vacuum for tool Ø 0 - 0.15 mm	-0.22 bar	-0.22 bar					
Environment Mass Distributed load on the floor (4380 x 1885 mm)	UltraSpeed UG-6 8'550 kg [18'850 lb] 10'407 N/m ² [212.85 lb/sq ft]	UltraSpeed UG-6 D 9'300 kg [20'502 lb] 11'320 N/m ² [236.36 lb/sq ft]					

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UltraSpeed	g-line	
Installation layout	A Distance of machine table from floor	g Electricity
	B Minimum distances for maintenance work	Air compessed
	B' Machine with CCD camera	★ Cooling circuit
	C' Machine with CCD camera	⊗ Vacuum system
	D Compressed air treatment	Ventilation
		UG0013
	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A = 877 [34.53]
1885 [74.21]	4380 [172.45]	
1:50	B = 800 [23.62] 5730 [225.60] C' = 5750 [226.38]	B = 750 [23.53] B' = 770 [30.31]
mm ["] [']	↓ 〔	
For more information: see UG6000	D-I 01 document.	

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