

## Technical data UltraSpeed 6000 - LZ CNC 3000

Ultraspeed

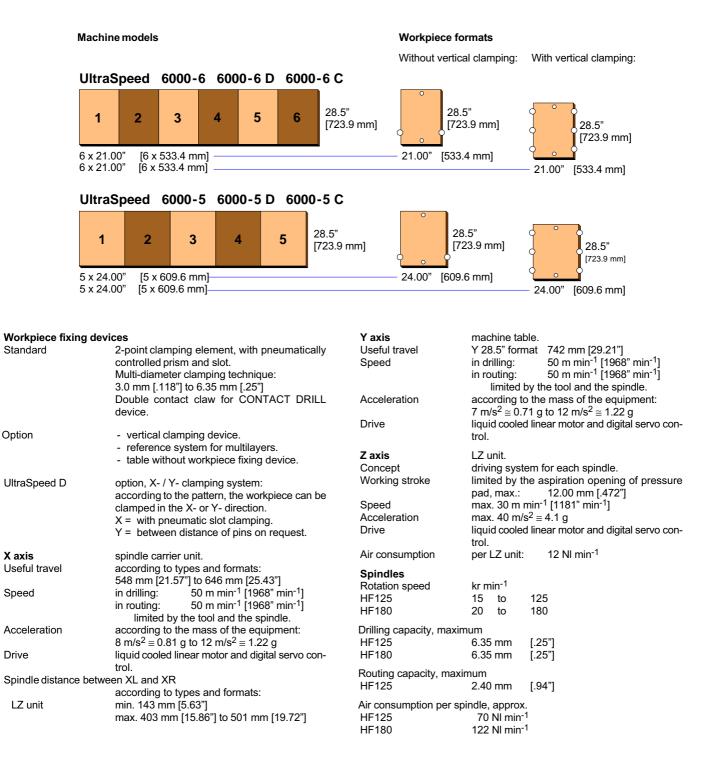
High performance automatic machine for drilling and routing of printed circuits boards

POSALUX SA 18, Rue F. Oppliger P. O. Box 6104 CH - 2500 Biel-Bienne 6 Switzerland

Phone +41 (0)32 344 75 00 Fax +41 (0)32 344 77 01 drillservice@posalux.ch www.posalux.ch Technical data

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- **UltraSpeed** Machine fitted with individual Z axis per spindle and a spindle per station, supplied by a chain driven tool magazine.
- **UltraSpeed D** Machine fitted with individual Z axis per spindle and two spindle per station (*DUAL*), for the simultaneous machining of two identical images (*STEP & REPEAT*), offset along the X axis, supplied by a chain driven tool magazine.
- **UltraSpeed C** Machine fitted with individual Z axis per spindle and a spindle per station, supplied by a tool magazine with removable cassette.



3



Tools management for UltraSpeed 6000					Energy sources				
Capad	,	chain of 6'000 tools per machine			Voltage	5			
Tool s	supply	in EUROMAGAZINES, no dwell time			Frequency	50 or 60 Hz	50 L I	<u> </u>	
<b>T</b>	h a sa sa s		on interruption).	2	Installing power		50 Hz:	60 Hz:	
1001 0	hange	1 tool changer per spindle for ringed tools or				UltraSpeed 6000-6		22.0 kVA	
<b>T</b> :	- 6 4 4 1	tools without	0			UltraSpeed 6000-6 D		33.5 kVA	
Time	ime of the tool change including the measurement of the diameter and				UltraSpeed 6000-5				
		the length approx. XX seconds, to 80 kr min <sup>-1</sup>			Air progetto	UltraSpeed 6000-5 D min. 6.5 bar max.		30.0 kVA	
		appior. AA Seconds, 10 00 KI IIIIII '			Air pressure Air consumption	min. 6.5 bar max. 10 bar UltraSpeed 6000-6 850 NI min <sup>-1</sup>		NII min-1	
Tools management for UltraSpeed 6000 C					All consumption	UltraSpeed 6000-6 D			
Capad		1 x or 2 x 110 tools per spindle				UltraSpeed 6000-5		NI min <sup>-1</sup>	
Tool s	supply	by removable cassettes				UltraSpeed 6000-5 D		NI min <sup>-1</sup>	
		(preparation	out of machine):			OllaSpeed 0000-5 D	1444		
		- grooved p	late for EUROMA	GAZINE.	Environment				
Tool c	hange		er per spindle		Mass	Distributed load on the floor			
		- for ringed	tools.		Distributed load on th				
		- for tools wi	thout ring implies t	he use of the DL		approx. 10'000 N/m <sup>2</sup>			
		tool meas	uring station.		Localized load (3 sup	port points on the floor)			
Time	Time of the tool change including the measurement of the diameter and				max. 920'000 N/m <sup>2</sup> [19'210 lb/sq ft]		o/sq ft]		
		the length			Machine dimensions				
		approx. 27 s	econds, to 80 kr n	nin <sup>-1</sup>		height, closed door	1865 mm		
Maga	wine and monit	anima af tha t	• • I			height, opened door	2565 mm	L ]	
Measuring and monitoring of the tool DL tool measuring station						width		[172.44"]	
DL too	or measuring stati		oouring and longt	h manitaring hu		front-to-back	1840 mm	[72.44"]	
			asuring and lengt	n monitoring by	Automatic loading				
optical barrier. Tool break monitoring in real time					/ atomatio loading	concept leaving to the operator free access to			
- by CONTACT DRILL device.					the front of the machin				
		- by CONT		5.		<ul> <li>Individual loader on</li> </ul>		rs.	
Acces to the machining area						- Down Time Eliminator loader.			
		door opening	g on operator's rec	quest.					
Machi	ne with chain tool	-magazine:							
door movements associated with tool-magazi-									
		ne are pneur	natically controlle	d.					
Machi	ne with cassette t	ool-magazine	:						
door movements are performed manually by									
		the operator.							
Qualit	v accurance								
X/Y	y assurance positioning acc	uracy	±0,005 mm	[±.00020"]					
7/1	repetition accur		$\pm 0,005$ mm $\pm 0,002$ mm	[±.00020 ] [±.00008"]					
	machining accu	•	±0,002 mm	[±.00000 ]					
	machining acco	in drilling	±0,020 mm	[±.00078"]					
		in routing	±0,020 mm	[±.00197"]					
			±0,000 mm	L00107 ]					
Z	accuracy in dep	oth							
		in drilling	±0,15 mm	[±.006"]					
		in routing	±0,05 mm	[±.002"]					
	drilling of	blind hole	±0,01 mm	[±.0004"]					
	LUX CNC 3000 (	ontrol							
rU3A			Convinned with	machina cor					
		muusinai PC	c equipped with a	a machine con-					

strial PC equipped with a machine con troller to supervise:

- the man-machine interface

(colour touch screen, connection to outside world through network).

- the axes control through field bus.

- the inputs / outputs through field bus.

Galvanic Insulation with the machine.

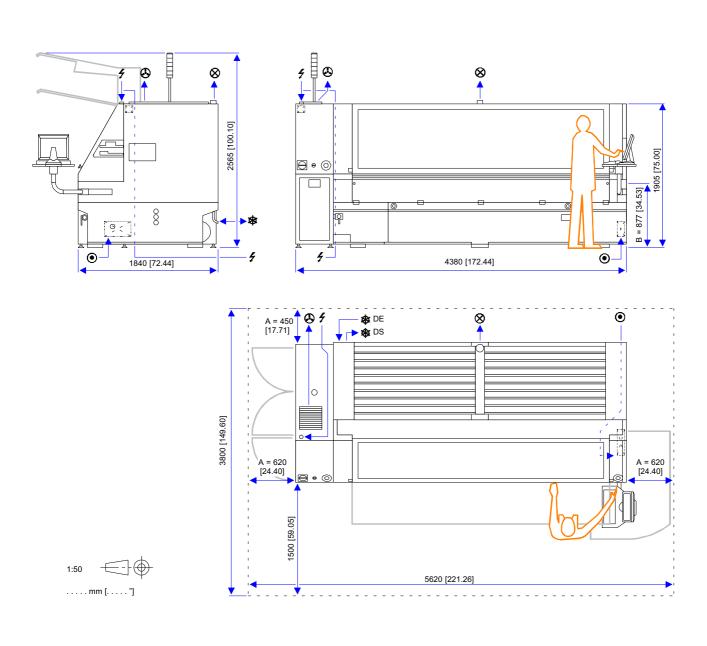
4 Technical data

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## Installation layout of the UltraSpeed 6000 machine

A = Minimum distances for maintenance work

B = Level of machine table from floor



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