

AUERTECH "Technik zur Holzbearbeitung "Woodworking machinery" Modern times für den Holzhausbau

DATA SHEET

BL100A

BLOCKHAUSFRÄSE



Fully automated Loghouse milling machine Blockhausfräse BL100A for economic production of components used in modern log cabin construction.

Due to the efficient production method with automatic Optimization and multiple lengths (Multilog System) the output from this machine is very high. During each working shift can be produced up to 1200 metres of components for average-sized, individual houses.

High performance spindle drives and climb milling ensures a clean cut milling contour without beeing frayed.

Through the compact an fully developed construction the machine is very efficient and the working result is exact and precise.

The machine consists of

- Belt conveyer loading system, where the operator puts onto the raw material.
- Infeed table with Servo pushing system for fully automated workpiece transport and positioning.
- Blockhausfräse BL100 with the working units.
- Outfeed table with the pneumatic unloading device.
- Workpiece deposit support, where the operator takes off the finished Logs.
- Operator panel with IPC for software and machine control.

process flow: The machine should be adjusted to the required workpiece dimension. The operator puts the Log onto the belt conveyer loading system and starts the program. Now the working process occurs fully automated: The servo pushing system takes the log from the belt conveyer. On the infeed table the servo pushing system verify the length of the raw material and moves the log to the working positions, as inputted in the software. At the positions the machine control starts the proper working unit until all jobs at the log are done. After this the Servo pushes the finished material with the last offcut to the out pushing position and the unloading devices moves the logs to the workpiece deposit support.





Datenblatt BL100A E.doc © 12.05.2005 Seite 1 von 3

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IPC- CONTROL & IITO SOFTWARE

The operation and the control of the complete machine is handled by industry PC with PLC and TFT monitor.

At the IPC is installed the input-, import and optimization software IITO Control. This Software handles all the workpiece management and the complete machine control with the automatic operation. The Data Input results trough:

- A) Manual Input: All the required Data as quantity, length and operation of the log house components are putted into the IITO-Software very comfortable and with graphical Visualisation.
- B) Directly through Data Import from other Software that supply the proper information.

The list of the workpieces at the IITO Software is automatically optimized to a Multilog list with multiple lengths (Optimized Exploitation of the Wood length) for the production.

For this optimization are some options available:

- Single wall optimization: Each wall of the building is able to choose and can be optimized separately (Big buildings).
- Building Optimization: All the components of the building will be optimized and produced at once.
- Several projects optimization: The software optimize several projects and they can be produced at once (smaller garden houses)

Directly from this Multilog List at the IITO Software is the automated production to START. The machining sequence "workpiece Infeed" – "pushing and positioning" – "operation with the different tools" and "Outfeed" after the last operation is fully automated.

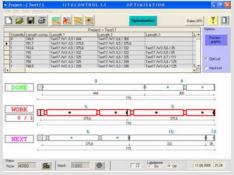
The produced pieces will be booked automatically at the Software and the operator keeps the full overview about the production.

Through the possibility to install a labeling system is it very easy to identify the workpieces at packing or assembling. The information on the label contains name of project, log#, wall#, length. Additional information from strange CAD software can also be printed. Sticking on the labels to the Log occurs through the operator.

Automated printing directly to the workpiece with inkjet system is also possible.











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TECHNICAL DATA:

. 15	Marking dime				
	Working dime				
	Wall thickness x log he		28 x 100mm		
		max.:	140 x 200mm		
	Workpiece length min.		900mm		
	Workpiece length min.:		300mm		
	Workpiece length max.	<u>. </u>	Depends on mechanisa	tion	
Industry PC:	Treat a record of	DO 111 4.0.01	TI. 100 '11 TET		
Industry PC	High quality Industry- I Celeron Processor; 2		The IPC with TFT Display is built in at a	C C C C C C C C C C C C C C C C C C C	
	12MIT/S; TTY; 30GBY		ergonomic console	and a	
	Modem for remote		with temperature	DE CONTRACTOR DE	
	mouse.	corvico, nojbodia a	monitoring and		
			heater.		
NA		45" TET 0 1			
Monitor System & Software	15" TFT flatscreen in build in frame MS Windows XP PROF, SP1, English				
System & Software	IITO Software, English, Siemens WinAC, English,				
Printer	Laserprinter A4, standard				
1 miles	Thermotransfer printer for labels (optional)				
Servopushing Sys	stem				
Servopusher	Servo pushing arm, guided in precision linear modul				
Drive Servopusher	Servodrive, 3,0Nm				
Measuring system	Resolver				
Max. speed	110m/min				
repeat accuracy	0,1mm				
Requirement raw material	Planed Soft wood with min. 1 flat surface (surface on table);				
	Righ	nt angle at Face surfac	e for servo pusher requ	ired!	
Workingunits:					
	A FINE				
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				0	
	500				
			The Contract of the Contract o		
	Am				
5 :	4-Fold unit	Groove unit	Drilling device	Circular saw	
Drives	Hor.: 2 x 3kW Vert.: 2 x 4kW	3,0kW	1,5kW	4,0kW	
Spindle speed	4200 U/min	4200 U/min	1500 U/min	86 m/s	
Milling shaft Ø	30mm	30mm	Drill chuck with	30mm	
			Gear ring		
Milling shaft length	120mm	90mm		-	
Tool Ø max.	220mm	180mm	30mm	550mm	
Tool width max.	140mm	40mm	-	-	
Feed	Hydro pneumatic in		Pneumatic infinitely variable		
Adjustment milling arranged	express traverse Trapezoid spindle with digital counter -				
Adjustment milling support Workpiece- holder	max. 5pcs. pneumatic pressing cylinder upside				
vvoikpiece- Holder	max. 5pcs. pneumatic pressing cylinder upside max. 2pcs. pneumatic pressing cylinder frontside				
Suction	under floor suction (hole) central D=160mm, 30m/min D=120mm, 30mmin				
Oution	Euro coupler, compressed air - dried and cleaned, 8 bar, ca. 300l/min				
Pneumatic supply	Furn coun	Euro coupler, compressed air - dried and cleaned, 8 bar, ca. 500i/min Eurocurrency 400V+N+PE, 25kW			
Pneumatic supply Current supply	Euro coup				
Current supply	Euro coup	Eurocurrency 4	00V+N+PE, 25kW		
		Eurocurrency 4			

 Datenblatt_BL100A_E.doc
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 Seite 3 von 3