Lantronic 88

Porcupine Unloader

MANUAL

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1.   Product information

Machine   : Porcupine Unloader
Type   : Lantronic 88
Year of manufacturing   : 1998
Manufacturer   : Lantronic Circuit Techniques B.V.
Residing at   : Wychen, Nederland

1.1. Machine

The Lantronic 88 porcupine unloader collects PBC boards from a process machine.
When the machine is on "1", it works as follows: at the input printed circuit will be received
between the strips. The boards will be turned to vertical position. The strips move a certain
distance every *x* seconds. The speed is adjustable with a time switch.
The printed circuit boards are being transported gradually towards the output side where they
will be brought into a horizontal position again. When there is no longer supply of new boards,
the belt will hold and the boards can be taken out of the unloader.

At the output side of the machine a safety precaution has been built. When a boards does not
leave the machine at the end and the belt moves on, the stuck board will activate a switch and
turn the machine off.

1.2. Safety

To make the machine as safe as possible to work with, all moving parts are covered (except for
the strips). In dangerous situations, the emergency stop will switch off the machine immediately.

**Note: Make sure that during maintenance and repairs the power is switched off
completely!**

1.3. Technical information

Dimensions of the machine (88)	: 715 x 1070 x 1020 (LxWxH)
Dimensions of the machine (88-S)	: 1375 x 1070 x 1020 (LxWxH)
Weight of the machine (88)	: ± 80 kg.
Weight of the machine (88-S)	: ± 140 kg.
Material cover	: PVC/ PP
Material frame	: Stainless steel
Dimensions of the board	: Max. 610 x 610 mm
Weight of the board	: Max. 3 Kg.
Max. board thickness	: 4,5 mm
Power	: 220 VAC, 2A, one fase , earthed
Capacity 88	: 48 panels
Capacity 88-S	: 96 panels

1.4. Customer information

For more information you can contact:

Lantronic Circuit Techniques B.V.
Kamerlingh Onnestraat 6
6603 AZ Wychen, Nederland
Telefoon: *31-(0)24-6421621
Fax: *31-(0)24-6419954

2. **Installation of the machine**

2.1. Transportion

The machine must be transported in an upright position. Handle with care, rough handling can cause damage to the machine.

2.2. Connection prescription

Connect the unloader to an earthed power circuit 220VAC, 2A, one phase.

3. Use of the machine

3.1. How to tend the machine

a. Connect the machine to an earthed source.

b. Put the "Main Switch" in position "1".

c. Press the "Start" button and wait until the light is on.

d. Adjust the speed with the time switch.

e. The machine is ready for use.

3.2. Emergency stop

When a dangerous situation arises the emergency stop must be activated. The unloader will switch off completely.
Before the machine can be started again the emergency stop must be unlocked.

4. Maintenance of the machine

Disconnect the power supply before doing any maintenance on the machine!
Maintenance consists mainly of cleaning the machine. Maintenance and repairs must be done by qualified technicians.

Partslist

ITEM	PARTS	AMOUNT
01	PVC cover	1
02	Stainless Steel frame	1
03	Adjustable feet	4
04	Conveyor tooth belt	1
05	Motor	1
06	V-belt	1
07	Tension bearing	2
08	Main conveyor belt 480 mm	1
09	Plastic strip	96
10	Belt wheel	1
11	Belt wheel	1

ITEM	(ELECTRONIC) PARTS	AMOUNT
12	Main switch	1
13	Switch D1G2S	1
14	Emergency stop switch D1C1R	1
15	Timer	2
16	Push button start D1A6G	1
17	Push button stop D1A6S	1
18	Pilot light D1V1Y	1
19	Proximity switch KSS 2020	1
20	Endswitch EM95	2