Original user manual for

Skin Drum

Jasopels • Fabriksvej 19 •
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1. Declaration of Conformity

EU Declaration of Conformity

Manufacturer:	Jasopels A / S	Tel. +45 76 94 35 00
Address:	Fabriksvej 19,	DK-7441 Bording

Machine: Skin Drum
Type: 3240-290100

Jasopels A / S declares that this product is in accordance with the following EU directives:

2006/42

2006/95/EC

2006/108/EC

Furthermore, we declare that the following harmonized standards have been applied:

EN 60204-1

DS / EN 12100: 2005

DS / EN 14121-1

DS / EN 14121-2

Place and date: Bording 24th August 2011
Name: CEO Poul Bach

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3.Preface

- This User Manual is an important part of your new machine. Read the manual carefully and use it as a reference book.

- This manual contains important information about safety and the proper use of the machine.

- The manual should be stored with the machine. It is important that the user manual is supplied with the machine upon resale and loan.

- The owner of the machine must make sure that the operator, service personnel and others who have access to the machine are instructed on the proper use and handling of the machine. Read this user's manual for more information.

- Unauthorized modifications, additions or changes to the machine are not permitted for the sake of overall security. Neither the manufacturer nor the supplier can be held liable for damages incurred as a result of the above. All and any risks in the case of such misuse lie on the end user alone.

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4. Symbol explanation

• Please read this manual and follow the instructions. In order to emphasize certain information, the following expressions are used:

Note! 

A triangle containing an exclamation mark is a warning symbol that warns you about important instructions or information concerning this machine.

Danger! 

A triangle containing a lightening bolt is a warning symbol that warns of "High Voltage"

Warning! 

A triangle containing a warning about an entanglement and crush hazard.

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5. Introduction to the machine

- Jasopels' self-emptying Skin Drum is designed for the tumbling of mink pelts.

- The development of the machine has made it possible to reduce human engagement connected with the process of tumbling to an absolute minimum.

- The machine is built to drum approximately 80 males or 110 females at a time. Using between 23 and 30 kg sawdust in addition to that is recommended.

- The control system, which is an integral part of the skin drum, is designed so the machine can be operated manually or automatically with a skin moving system.

- Manual operation: When the operator has filled the machine with skins and sawdust, the tumbling time needs to be set and tumbling can begin. The drum now performs the entire process of tumbling automatically, after which the sawdust is disposed of below the drum. At the very end of the process the skins are removed from the drum at the drum's end.

- Automatic operation: The skin drum can be integrated into the Jasopels Skin Moving System, which will give a greater capacity as the machine can tumble and network clean the skins at the same time.

Note!

- Make sure to read the manual before using the machine.
- The owner of the machine must make sure that the operator, service personnel and others who have access to the machine are instructed on the proper use and handling of the machine.
- The machine may only be used for the purpose it is designed for. The CE Declaration lapses upon any other use of the machine.
- If any problems occur with the machine or its operation, the machine must be properly shut off before correcting the problem, unless the correction can be made using the machine's control keys.
- The user manual must always be kept available for the operator.

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6. Commissioning

- Before the skin drum can be used, make sure that it is leveled on a flat, stable surface without tilting. Unless the machine is properly leveled, problems can occur.

- The machine is factory-fitted with a 5-pole 16 A CEE plug on the power supply cord and should be connected to a socket with 3P + N + PE.

- The electrical cabinet is not installed upon delivery in order to protect it during transport. It is bolted to the inside of the drum. Disassemble the arm to get the electrical cabinet out. The electrical cabinet can be installed to the right or left of the inlet funnel. **Important! The electrical cabinet must be installed before the inlet funnel**. The included stabilizer must also be installed on the arm.

- Make sure that the drum has the correct direction of rotation. This is done by activating the tumbling program. The drum should run counterclockwise as seen from the outlet end. If this is not the case, the drum must be stopped immediately. Switch the 2 phases in the plug and repeat the test.

- Connect the suction device to the flange on top of the machine and ALL protective screens.

- The drum skin is now ready for use.

In order to prevent possible damage to the control unit's microcontroller and the rest of the electrical system during thunderstorms, it is recommended to switch the electrical connection off when the machine is not in use.

DANGER!
Disconnect compressed air and power supply before maintenance, cleaning and other services are performed on the machine.

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7. Operation

- Make sure that the "EMERGENCY STOP" key is released.
- The control system is navigated directly on the screen using the menu.
- It is also possible to change values in the different fields.

Fig. 1 Deactivation of the emergency stop

- The emergency stop is deactivated by releasing the emergency stop key and pressing >

Fig. 2. Language selection

- Here you can choose between Danish and English.

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Fig. 3 Current Status

• Operational monitoring where you start, pause, stop and empty the machine.

Fig. 4 Pause Menu

• In order to change the settings during operation one must first press PAUSE, then STOP and then > to go to settings. See fig. 5.

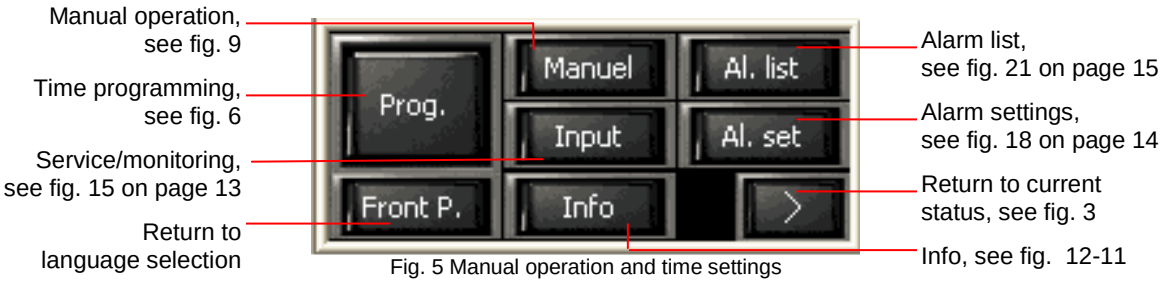

Fig. 5 Manual operation and time settings

• Main Menu, where you can change operation time, set the manual operation of the drum etc.

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7.1. Time programming

Keyboard shows up when keys are pressed and values can be changed. To finish, press ENT:

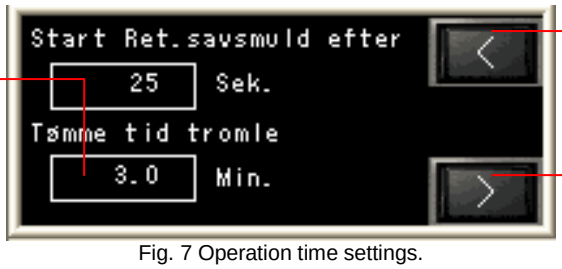
Back to fig. 5

Forward to fig. 7

Fig. 6 Operation time settings.

- Setting the drum and network time.

Keyboard shows up when keys are pressed and values can be changed. To finish, press ENT:



Back to fig. 6

Forward to fig. 8

Fig. 7 Operation time settings.

- Adjusting the start return of sawdust and the drum's emptying time.

Keyboard shows up when keys are pressed and values can be changed. To finish, press ENT:

Skin moving system on/off

Back to fig. 7

Forward to fig. 22

Fig. 8 Operation time settings.

- Setting the total time for the return of sawdust and for the connection of skin moving system. See section 7.7 on page 16

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7.2 Manual operation of the drum

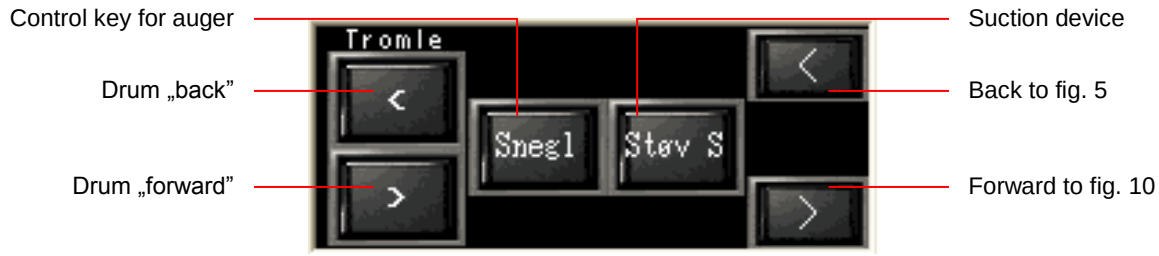

Fig. 9 Manual operation

- The drum can be manually rotated clockwise or counterclockwise by pressing and holding down the arrow keys.
- Empty the sawdust box by holding down the **SNEGL** key (the control key for auger). When you release the key, the auger stops running.
- Hold the **STØV S** key down to start the suction device. When you release the key, the suction device stops.
- This can be used to test whether the features work properly when troubleshooting. It can also be applied to fig. 12-13-14.

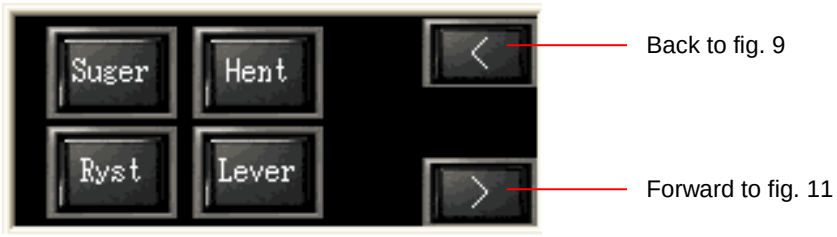

Fig. 10 Manual test of skin moving system

Fig. 11 Manual test of skin moving system.

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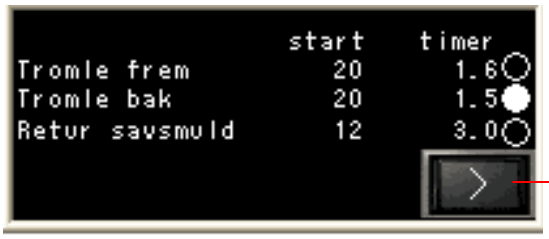
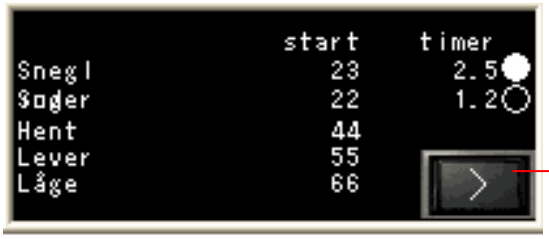
7.3 Running data

- By pressing the **Info** in fig. 5 it is possible to read which engines are running. See fig. 15 – 16



Forward to fig. 16

Fig. 12



Forward to fig. 17

Fig. 13

Back to fig. 5

Fig. 14

• In fig. 14 the number of skins in the magazine and the total number of skins are displayed.

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7.4 Service and monitoring of PLC output.

Fig. 15 Monitoring of the drum's input and output

- Reading of input and output in connection with skin drum servicing. See fig. 15

Fig. 16 Monitoring of inputs / outputs of the skin moving system

- Reading of input / output in connection with skin moving system servicing. See fig. 16 – 17.

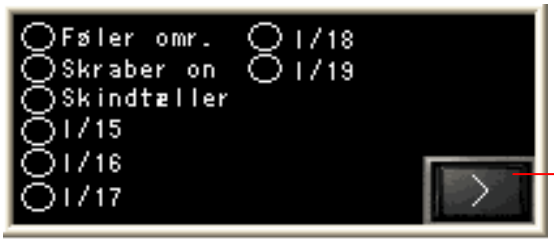

Fig. 17 Monitoring of input / output of the skin moving system

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7.5 Alarm settings

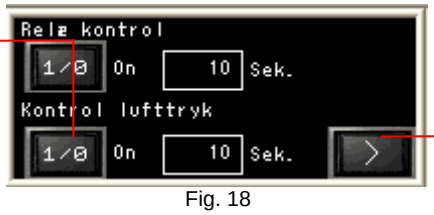

Fig. 18

- Disable alarms by clicking the **1/0** key.

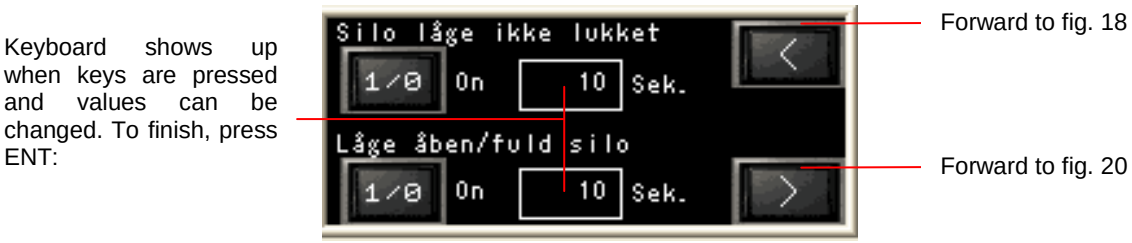

Fig. 19 Monitoring of the magazine.

- Here you can monitor whether the magazine door is closed and whether there is sawdust inside.

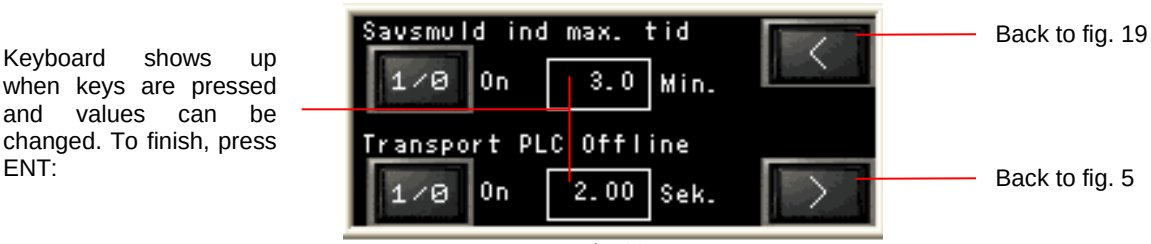

Fig. 20

- Setting the maximum time for sawdust feeding. If maximum time is exceeded the control system alarm goes off.

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7.6 Alarm list

Fig. 21st Resetting the alarm

- If the alarm cannot be reset, you can go back to the menu and press AL.SET.

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7.7 Skin moving system

• In order to start the skin moving system you need to activate the **1/0** in fig. 8.

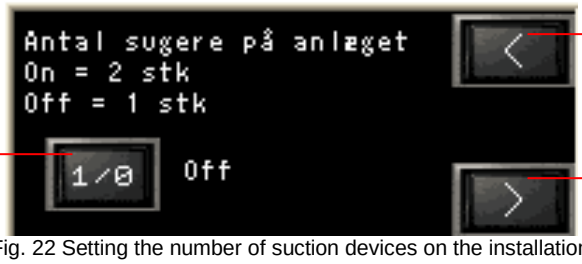

Fig. 22 Setting the number of suction devices on the installation.

• Choose whether 2 suction devices are connected to the installation. 2 suction devices must be connected if you want to be able to fill the magazine with skins and empty the drum at the same time.

Fig. 23 Setting the startup of suction devices etc.

• Setting the startup of suction devices before completion of network time and the “time for shaking” time.

Fig. 24 Settings for board magazine with network drum.

• Setting the pulse (on/off) and return time for the drum of the network into board magazine.

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8. Maintenance

DANGER!
Disconnect compressed air and power supply before maintenance, cleaning or other services are performed on the machine.

- The drum is supported by bearings at the ends. These bearings must receive a single squeeze from a grease injector once a week.

DANGER!
If you need to perform maintenance tasks inside the drum, the power supply cable and compressed air hose *MUST* be disconnected.

There are two lubrication points in each corner

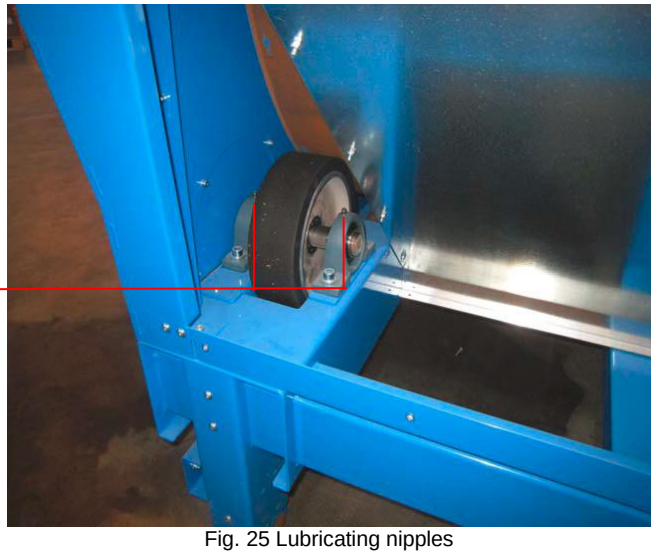

Fig. 25 Lubricating nipples

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9. Technical data

• Power supply:	3 x 400 V + N + PE -pole CEE plug	
• Power consumption:	6.3 A	
• Weight:	800 kg	
• Dimensions:	Height:	175 cm
	Length:	340 cm
	Width:	180 cm

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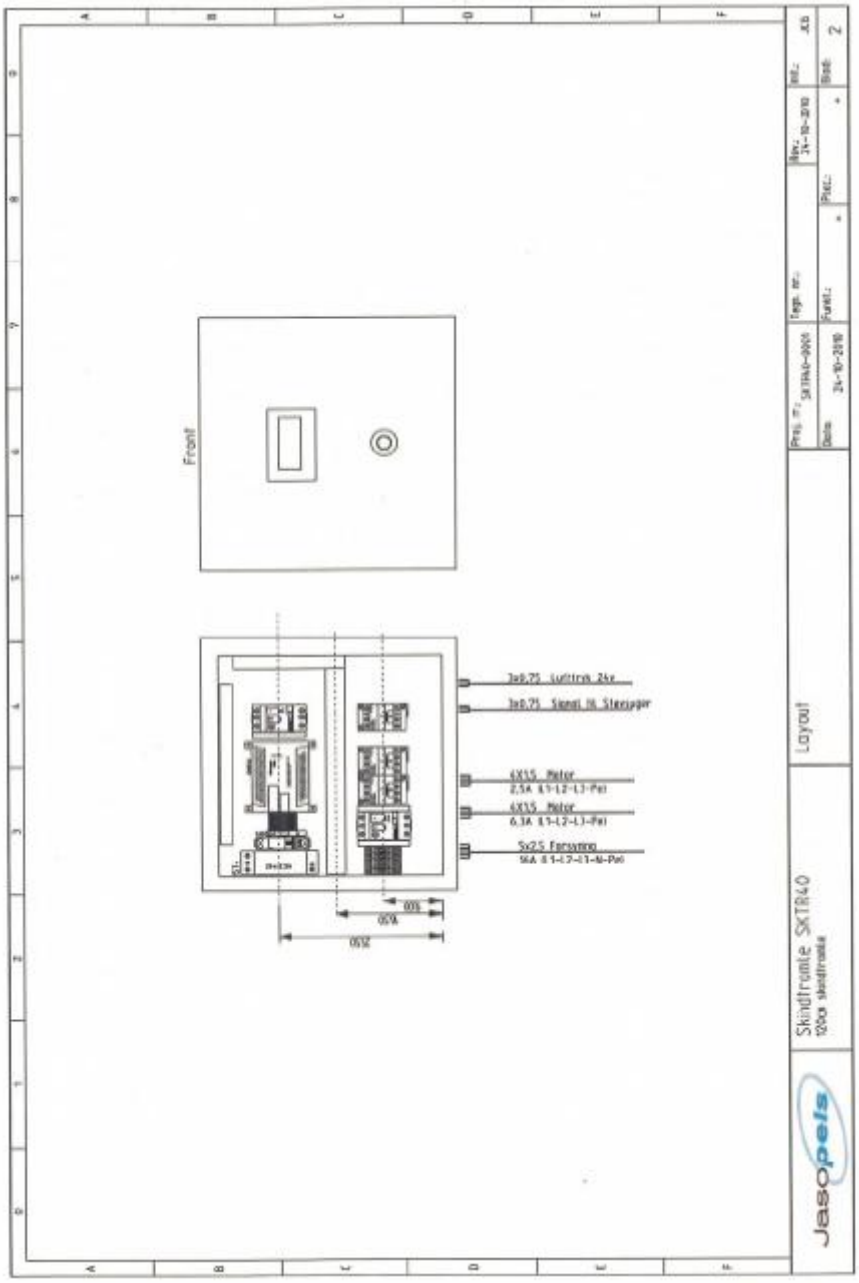
10. Electrical power and airflow diagram



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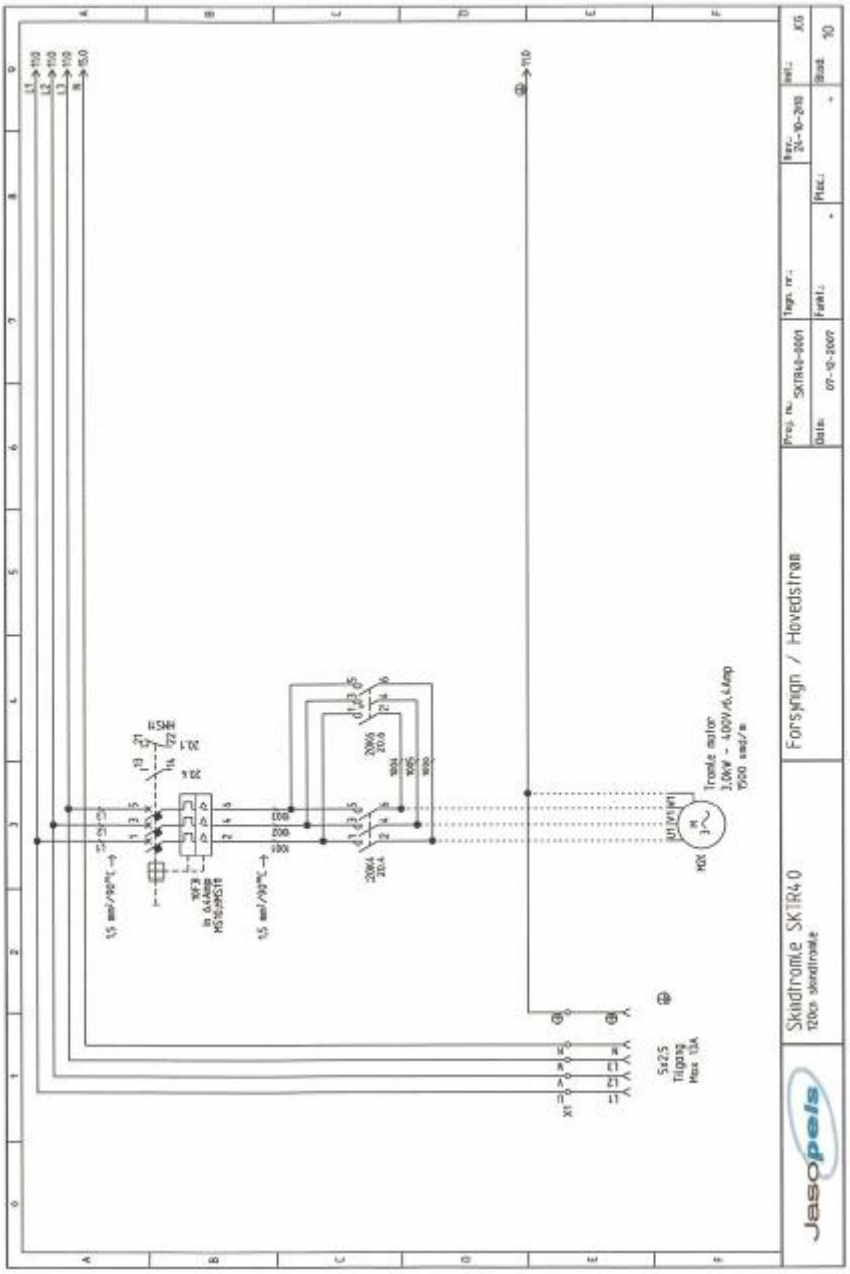

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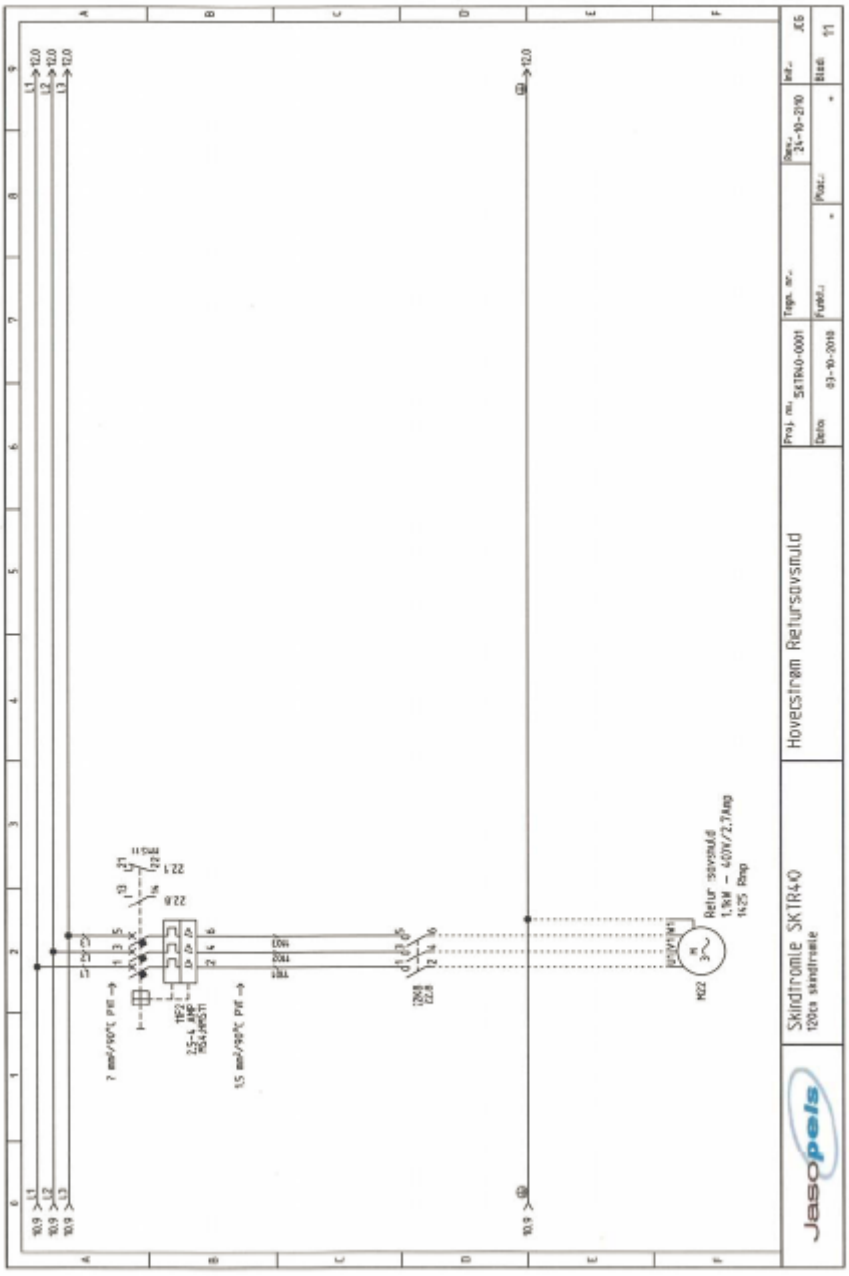

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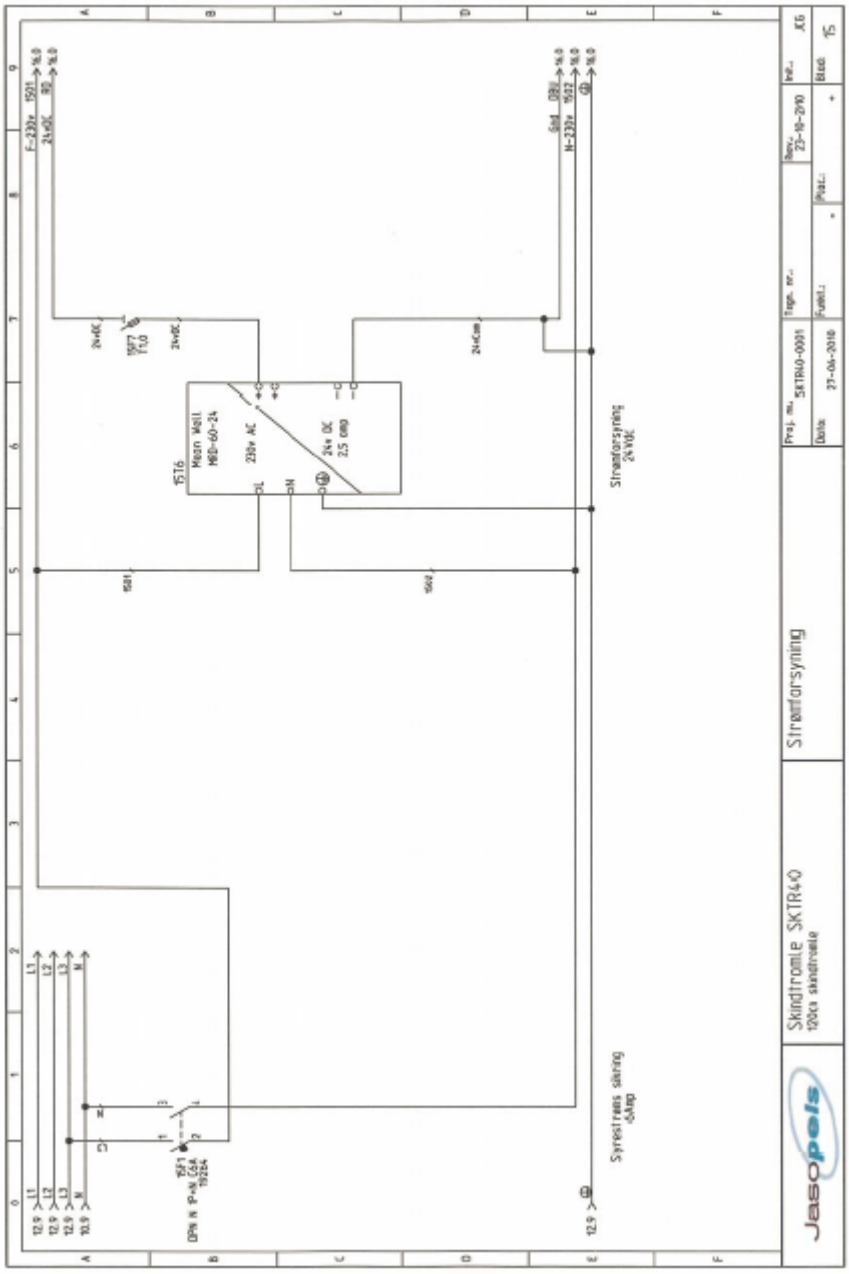

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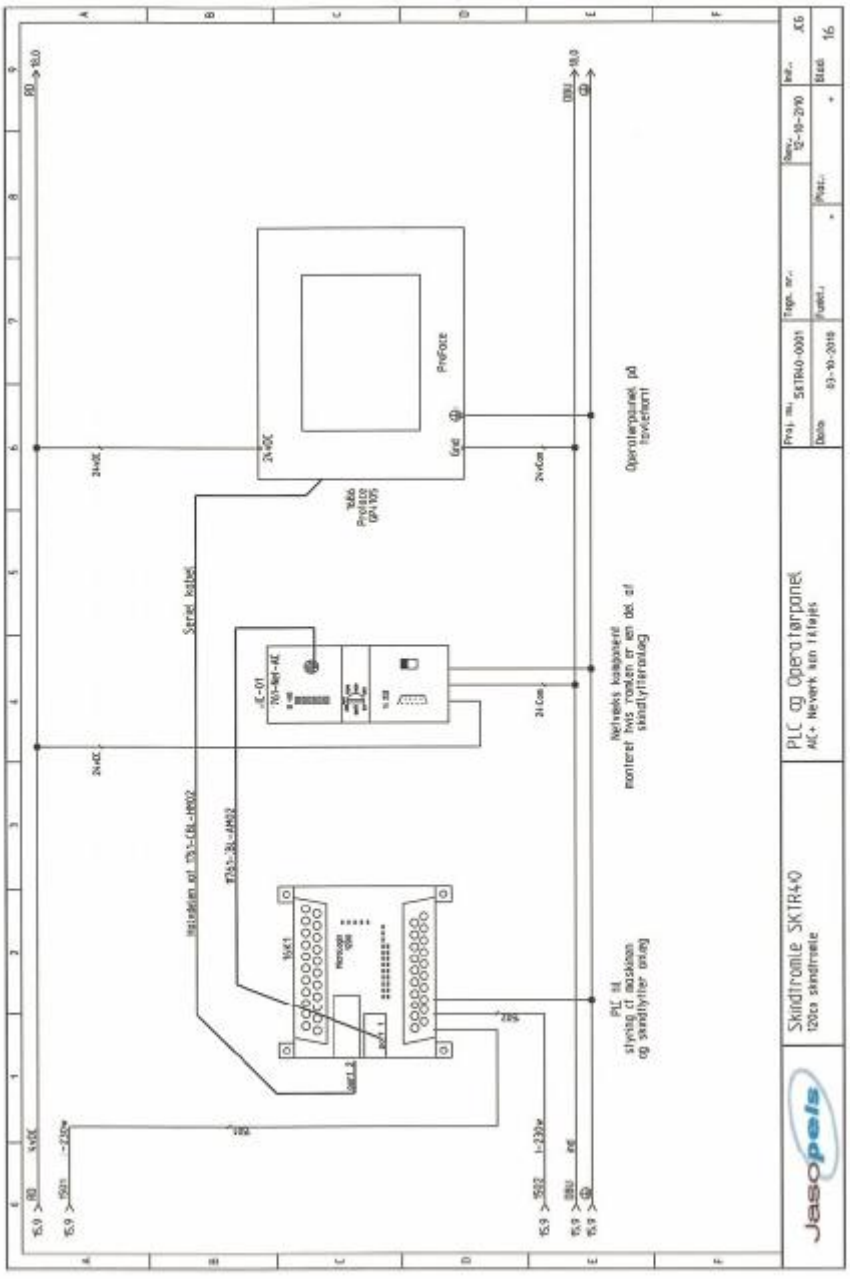

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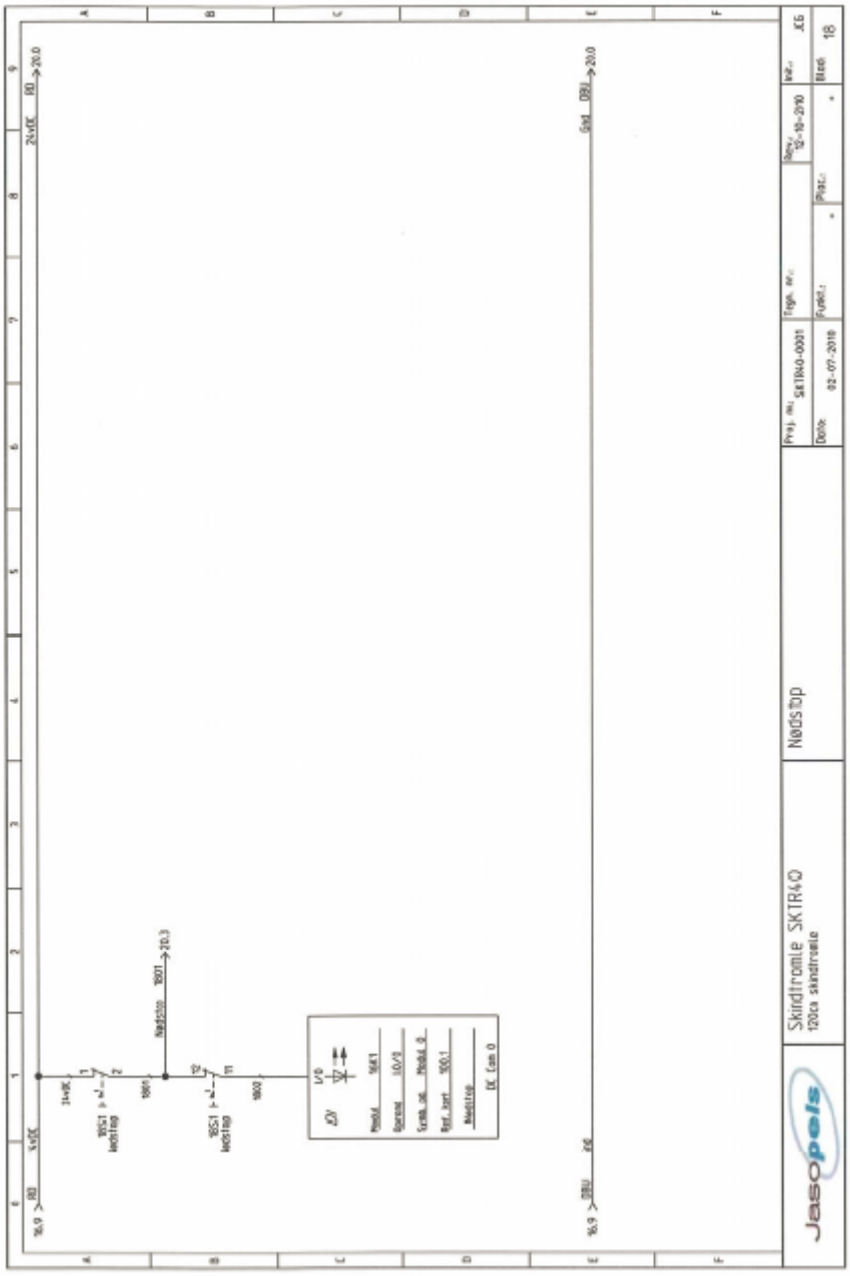

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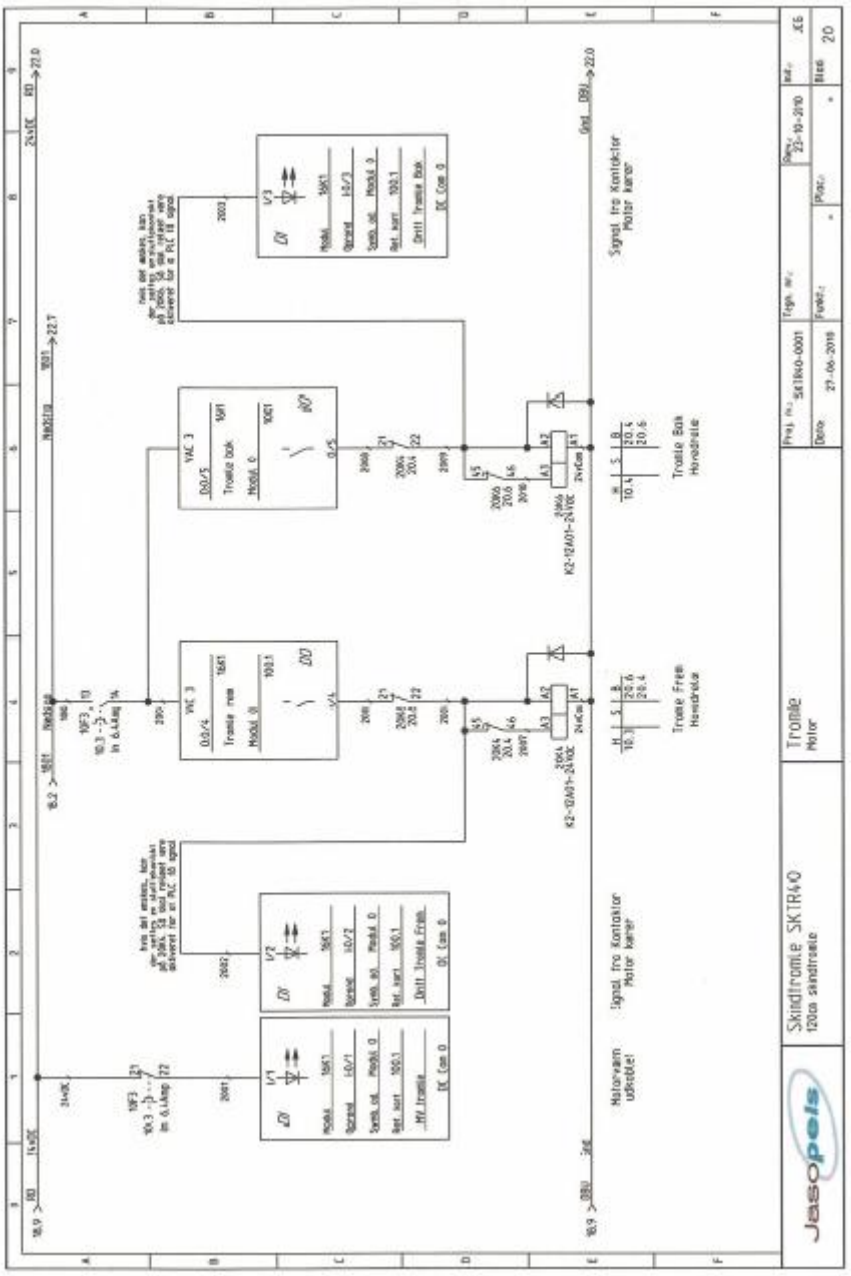

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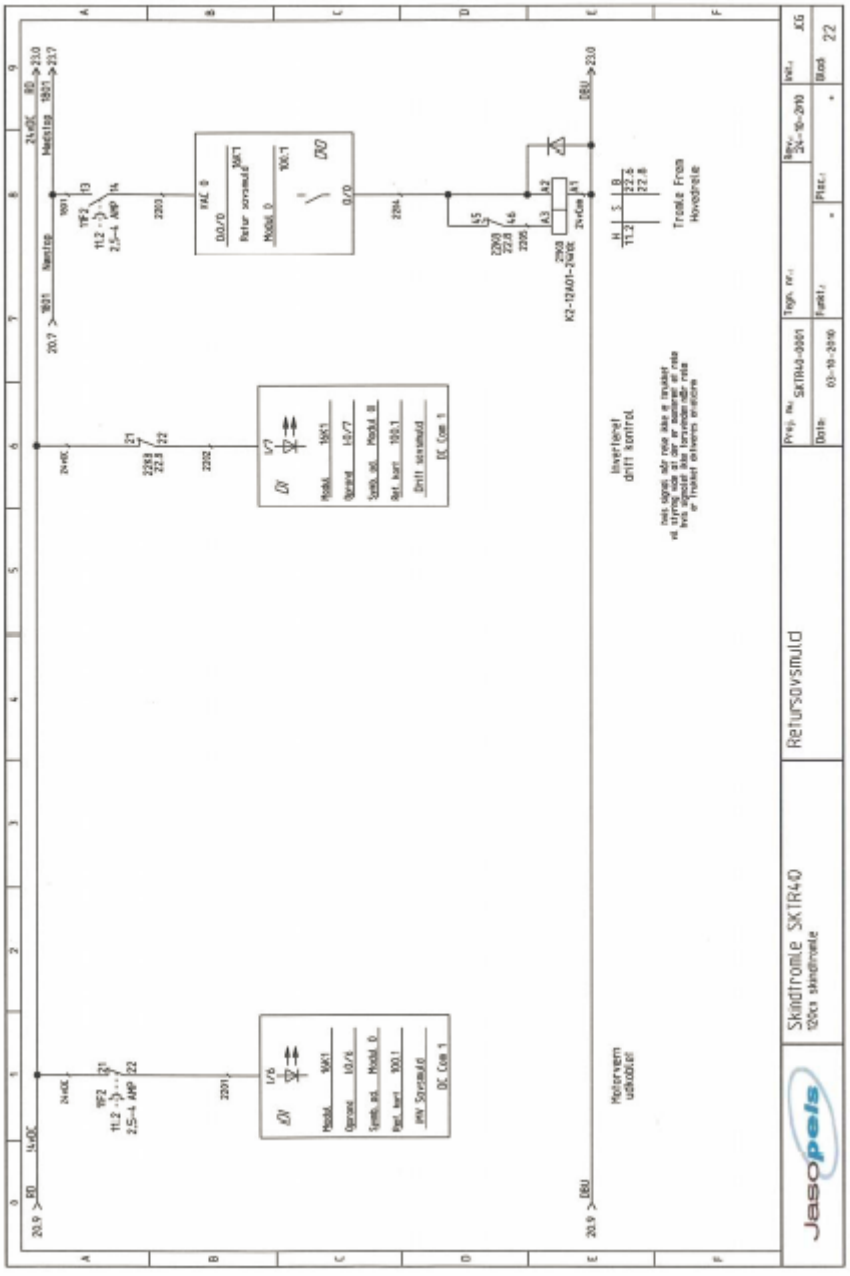

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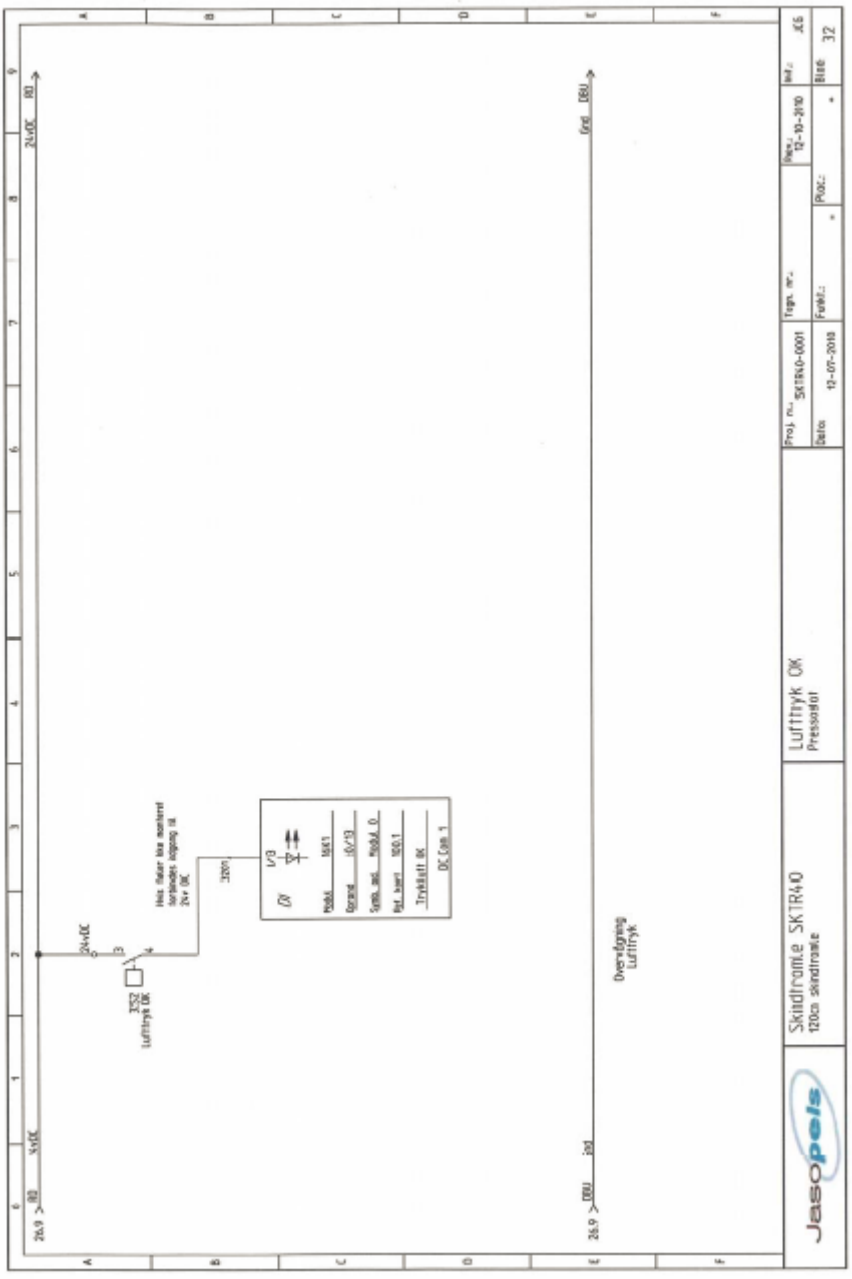

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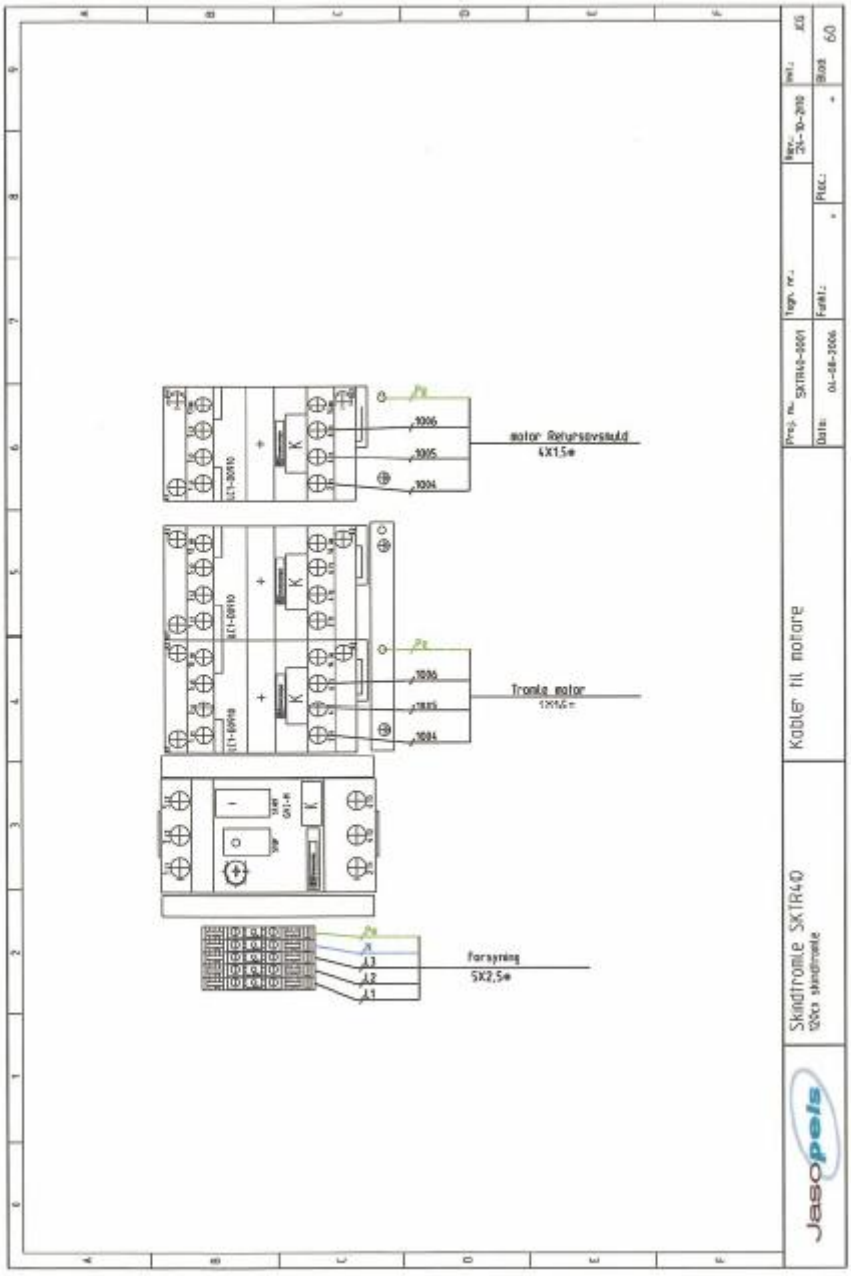

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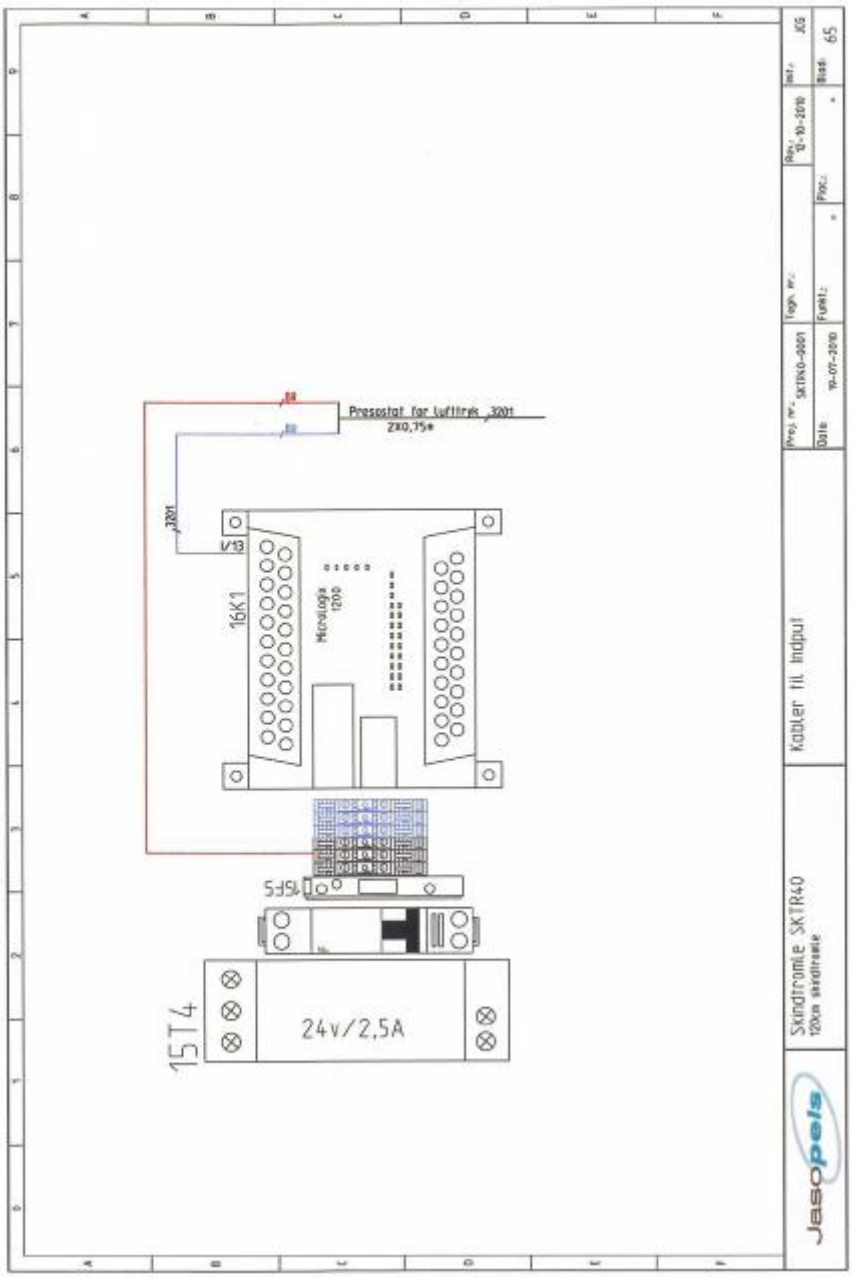

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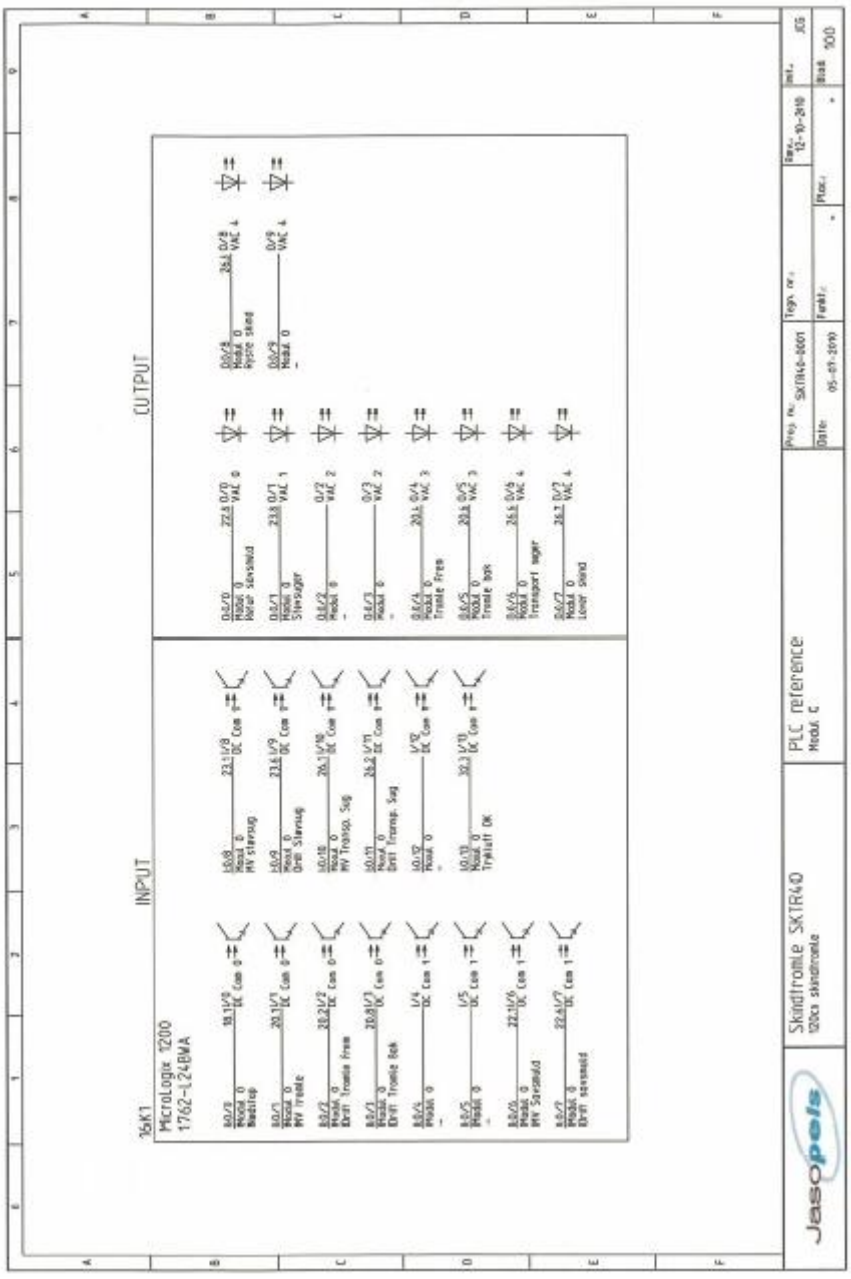

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11. Spare parts list

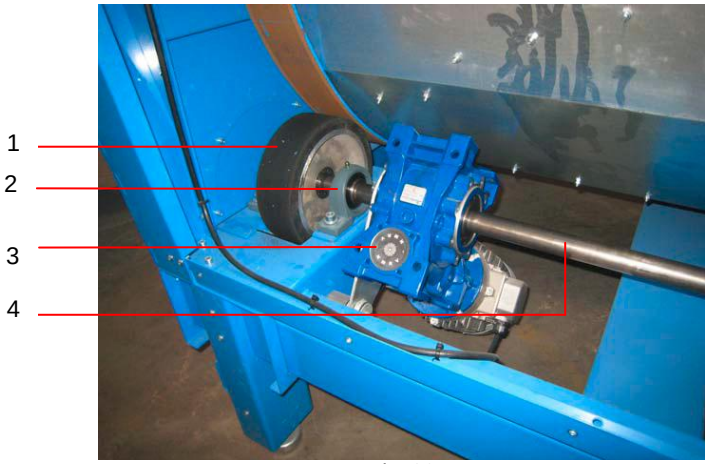

Fig. 26

Figure number	Jaso number	Name
19.1	5150-00271211	Driving wheel
19.2	5150-00271207	Bearing
19.3	5935-11901516028	Engine (3kw)
19.4	5150-00271201	Shaft

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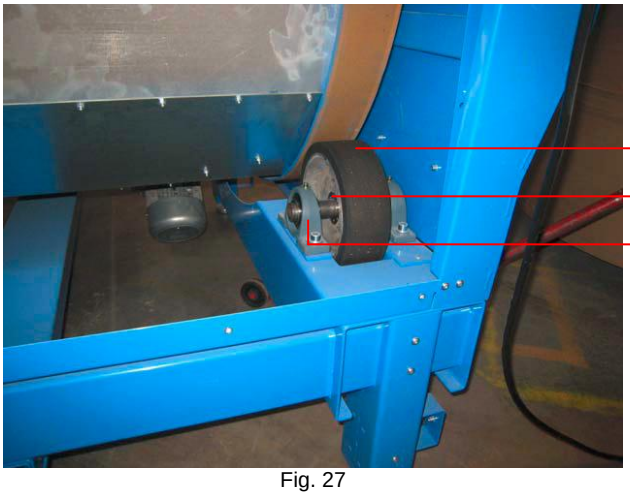

Fig. 27

Figure number	Jaso number	Name
20.1	5150-00271211	Trail wheel
20.2	5150-0027121301	Shaft
20.3	5150-00271207	Bearing

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12. Troubleshooting

If you cannot correct an error that has appeared, it is recommended that you contact Jasopels' Service Department for further assistance.

DANGER!
Disconnect compressed air and power supply before maintenance, cleaning or other services are performed on the machine.

DANGER!
If you need to perform maintenance inside the drum you MUST remove the power supply cable plug from the socket.

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14. User's notes

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