

OPERATING GUIDE



CIRRUS **Vario**

CIRRUS **Maxx**

SIMPLE. INGENIOUS. ROBUST.



AIRWORKS
our passion is product protection

IMPRINT

The User Guide is an essential part of the delivered machine and explains the appropriate handling of the equipment.

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Suggestions and proposals which are subject to improve our products and user guide are warmly welcome.

Thank you very much for your support.

Yours sincerely,
Hanns Loersch GmbH & Co. KG and the AIRWORKS®-Team



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1 General Information

This User Guide includes important information for the safe usage of the machine, to avoid problems and to solve any faults. Hence, please, read the User Guide carefully and keep it on a handy place.

1.1 Basic Requirements

- Read this User Guide carefully and get familiar with the functioning of the machine, before starting to work actively with the equipment.
- Keep the safety instructions in mind at all time.
- Consider all regulations and instructions at site to prevent accidents. Keep track of all maintenance intervals (📖 see page 38 maintenance chart).
- Operate the machine only according to the regulations (📖 see page 9 Purpose of Usage).
- Any kind of changes and interventions, which are not permitted by the manufacturer as well as operating against the regulations will result into the loss of warranty and any kind of reliability.
- All documents, drawings, plans etc. are protected by copyright. It is not permitted to use, copy, hand over and change the design without prior consent of the manufacturer.
- We reserve the rights to technical changes resulting into improvements of the machine.

1.2 Composition of User Guide

1.2.1 Composition of warning notice

Warning- and information text is especially highlighted. Nevertheless read carefully the full text, to avoid danger!

The highlighted warning and information text and fields are visible by different symbols, colours and indicating following danger levels:

DANGER

Non-observance results into heavy and deadly injuries.

WARNING

Non-observance can result into heavy or deadly injuries.

ATTENTION

Non-observance can result into light injuries.

ATTENTION

Non-observance can result into material- and/or property damage.

All warning notices are constructed in the same way.

They include:

- Signal field
- Type and source of danger
- Implication of ignorance
- Provisions to put dangers off or avoid them


1.2.2 Activity instruction

The Activity instruction orders you to carry out a task. They are activity oriented constructed. Please carry them out in the indicated sequence. They are marked with a black arrow in front.

Activity instructions are structured as follows:

- ➔ At the beginning you are asked to carry out a certain operation.
 1. The necessary steps are numbered..
 - ☒ This sign indicates the precise result of such a step – just to make sure the step is carried out in the right way.

Example for a activity instruction

- ➔ Switch on automatic mode
 1. Press the start button (2) of the der CIRRUS Airpillow Machine (User Guide CIRRUS Air Pillow Machine  page 11 machine overview).
 - ☒ The start switch light is off.

1.2.3 Information and hints

Information/notes to environmental damages and hints do not include safety relevant content.

They are designed as follows:



Environment


Ignorance of these instructions can result into environmental damages.



Hint/Information

Such texts are giving helpful information for a optimized use of the machine.

1.3 Reference

References to other chapter are visible by the -symbol. When the text mentions parts of the machine which are also visible in a picture/drawing, you will find the position number of the part and where necessary the number of the picture/drawing in brackets behind the word.

1.4 General safety advice

This chapter includes general safety information regarding the safe use of the **CIRRUS Maxx** and **CIRRUS Vario**.

General safety advice/information are not a replacement for necessary warning information, which are mentioned in other chapters of this user guide.

You have to follow strictly all warning information in following chapters.

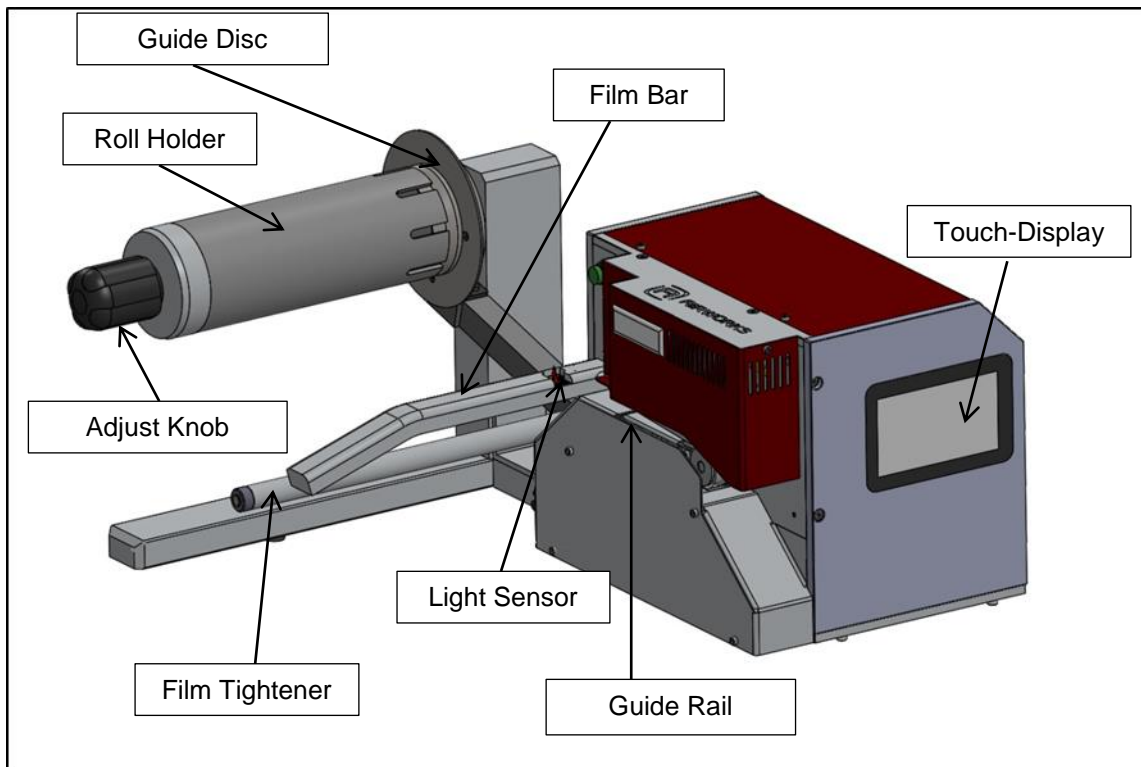
⚠ WARNING

Electric stroke due to electric cable. Possible heavy injuries.

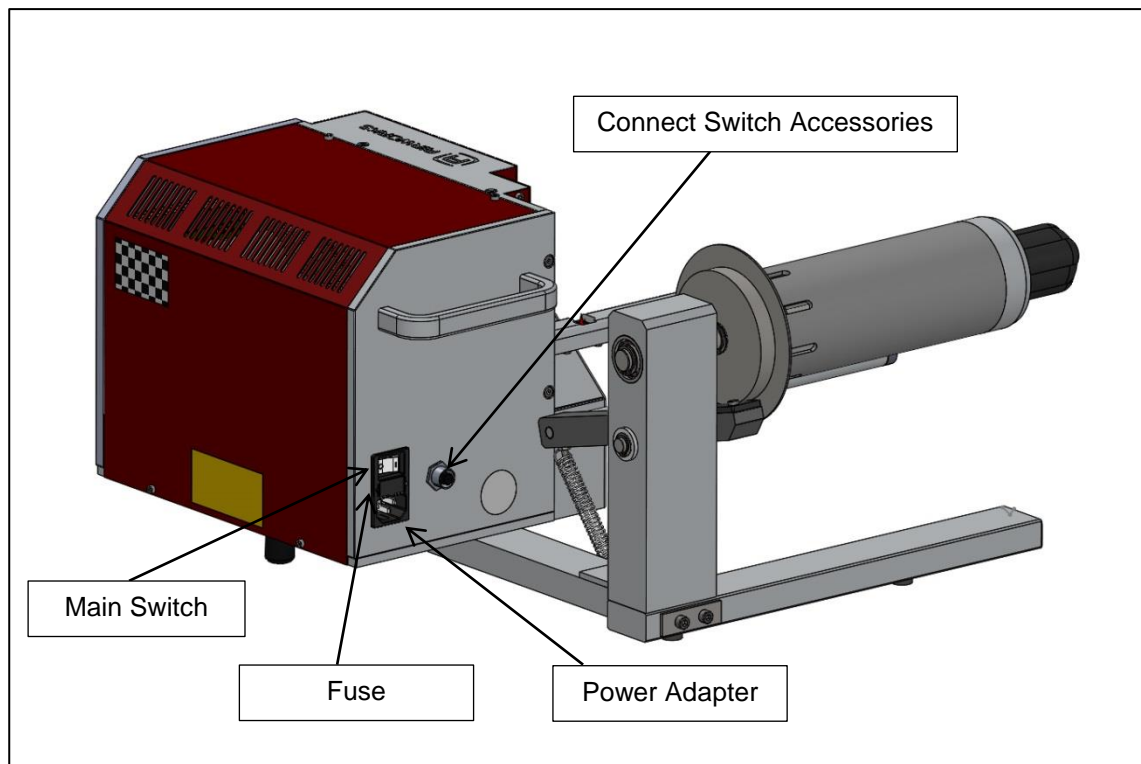
➔ Note, that malfunction at electric machine parts can only be repaired out by professional skilled electricians.

- Read the User Guide.
- Make sure that the machine is operated according to regulations.
- Wear tied clothing.
- In case of long hair, use a appropriate protection.
- Do not wear jewelleryes.

2 Machine overview



Pict. 1 Front View of the CIRRUS-Machine



Pict. 2 Rear view of the CIRRUS-Machine

2.1 General Advice

The CIRRUS Maxx and CIRRUS Vario are at the current state of technology. Despite they are constructed according to current safety regulations, injuries while in operation are possible.

Therefore:

- Use the machine only in faultless condition.
- Use the machine only according to regulations.
- Use the machine only in awareness of possible danger.
- Use the machine only under supervision.

2.2 Purpose of usage

The machine produces air pillows out of specifically pre-configured film made of HDPE. The special economic air filled pillows can be of various use in packaging applications.

2.3 Misuse

Any other kind of machine operation than indicated in 2.2 is considered as misuse/non consigned use of the machine and hence not permissible.

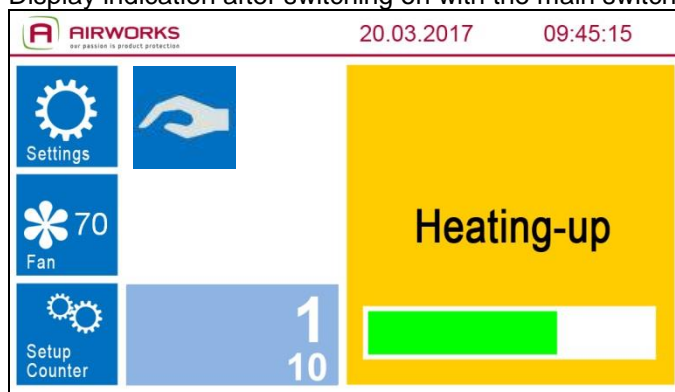
3 Machine functionality

3.1 Main switch

The machine will be switched on/off with the main switch (Pict. 2). In case of non operation over a longer time frame, the machine must be switched off. Before switching the machine off with the main switch, you have to stop operation with the stop-function in the display.

3.1.1 Switch on

Display indication after switching on with the main switch:



Pict. 3

Display indication after heating up:



Pict. 4

3.2 Film transport

After positioning the film in the machine the film will be drawn through the machine while pressing the film transport switch (📖 Pict. 5) and drawing the film by hand on the same time. Film transportation will last as long as the switch is being pressed.



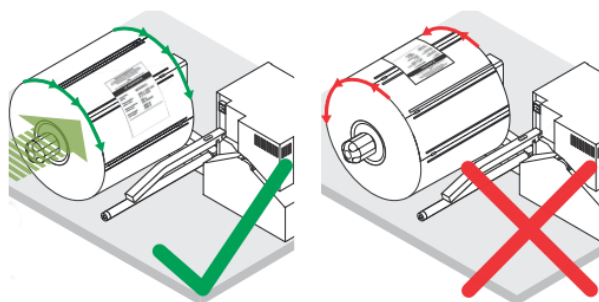
Pict. 5

3.3 Film insertion

ATTENTION

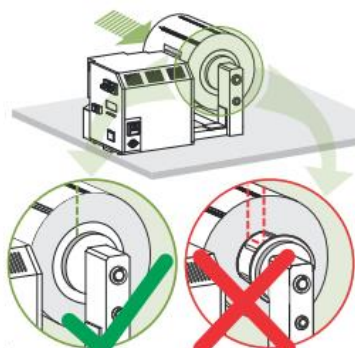
A wrongly positioned film roll causes faulty film sealing.
→ Please consider 1 – 5 for proper film insertion/film intake.

1. Position the film roll on the film holder. Please mind correct positioning and the right direction of rotation of the film roll. See Pict. 6 and Pict. 7



Pict. 6

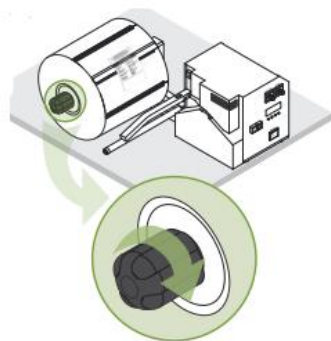
- ☒ Film roll winding down from top to front in direction of the machine.



Pict. 7

- ☒ Film roll positioned flat at the Guide Disc

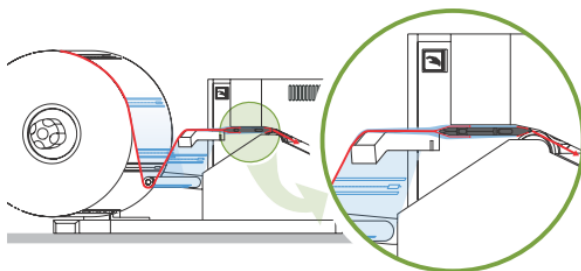
2. Film roll tightening and fixation by turning the adjust knob clockwise. (📖 Pict. 8)



Pict. 8

- ☒ Film roll rightened on the holder.

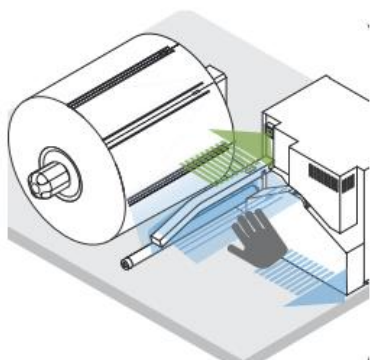
3. Take off label from the film roll.
4. Film roll positioning in the machine, as shown in Pict. 9.



Pict. 9

- ☒ Film runs **below** film tightener
- ☒ Film runs **above** film bar
- ☒ Upper film layer runs **above** the guide rail, lower film layer runs **below** guide rail

5. Draw the film by hand until transport wheels. Pressing the film transport switch on the same time.



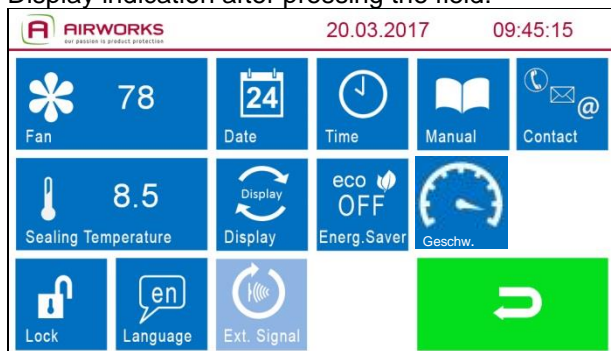
Pict. 10

3.4 Speed setting

1. Press on the Start-Display (📖 Pict. 4) the field „Setting“



Display indication after pressing the field:



Pic. 11

2. Press on the field „Speed“



Display indication after pressing the field:



Pic. 12

You can choice between two running speeds.

LOW: The machine runs with approx. 10 meter Per minute.

HIGH: The machine runs with approx. 15 meter per minute.

The confirm arrow button you will go back to the level of „Settings“ (📖 Pic.10).

3.5 Machine settings

The CIRRUS machines can process various sizes of air pillows as well as different film thicknesses. The necessary air volume depends on the air pillow size. For different film thicknesses you need a dedicated sealing temperature. With help of the film description and the pillow size on the film label you will find the correct indications for air volume and sealing temperature in the following chart.

3.5.1 Settings CIRRUS Maxx

Description	Cushion Size (mm)	Speed LOW		Speed HIGH	
		Air (%)	Temperature	Air (%)	Temperature
BasicLine, Select	200 x 100	34	1,5	39	2
	200 x 133	33	1,5	39	2
BasicLine, Standard GreenLine, Standard	200 x 100	32	4,0	33	5,0
	200 x 133	34	4,0	35	5,0
	200 x 200	36	4,0	37	5,0
	230 x 100	32	4,0	33	5,0
	230 x 133	34	4,0	35	5,0
	230 x 200	36	4,0	37	5,0
BasicLine, Standard	400 x 200 MP	70	4,0	80	5,0
	400 x 200 SL	85	4,0	95	5,0
GreenLine, Standard	400 x 200 MP	70	1,5	80	2,5
	400 x 200 SL	85	1,5	95	2,5
BasicLine, Strong	230 x 100	32	4,5	38	7,0
	230 x 133	36	4,5	38	7,0
	230 x 200	38	4,5	40	7,0
	400 x 100	45	4,5	50	7,0
	400 x 200 SL	80	4,5	90	7,0
BasicLine, Heavy	230 x 100	33	6,5	38	9,5
	230 x 133	33	6,5	39	9,5
	230 x 200	36	6,5	41	9,5
	400 x 100	48	6,5	50	9,5
	400 x 240 SL	90	6,5	100	9,5
	400 x 400 SL	90	6,5	100	9,5

3.5.2 Settings CIRRUS Vario

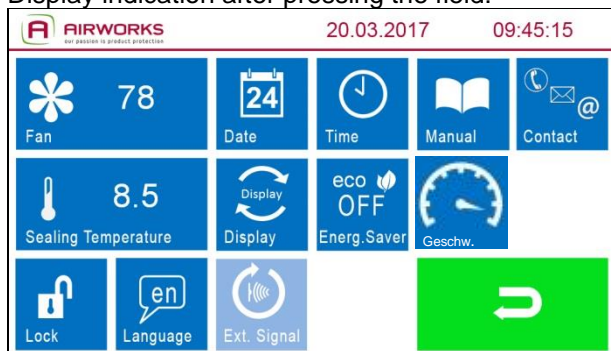
		Speed LOW		Speed HIGH	
Description	Cushion Size (mm)	Air (%)	Temperature	Air (%)	Temperature
Select	200 x 100	34	1,5	39	2,0
	200 x 133	33	1,5	39	2,0
Standard, Standard GreenLine	200 x 100	35	4,0	38	5,0
	200 x 133	34	4,0	41	5,0
	200 x 200	34	4,0	46	5,0
	230 x 100	42	4,0	48	5,0
	230 x 133	37	4,0	46	5,0
	230 x 200	37	4,0	46	5,0
Strong	230 x 100	45	4,5	51	7,0
	230 x 133	40	4,5	51	7,0
	230 x 200	40	4,5	49	7,0
Heavy	230 x 100	48	6,5	54	9,5
	230 x 133	43	6,5	54	9,5
	230 x 200	43	6,5	52	9,5

3.6 Fan settings

1. Press on the Start-Display (📖 Pict. 4) the field „Setting“



Display indication after pressing the field:

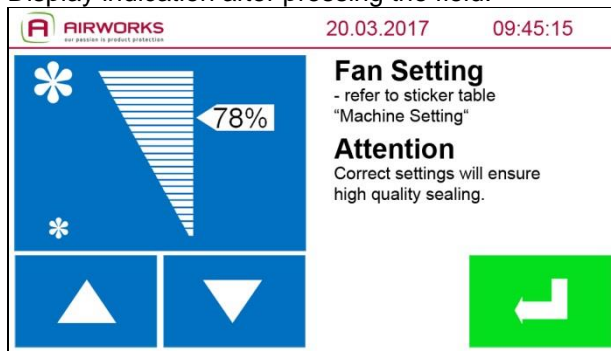


Pict. 13

2. Press the field „Fan“



Display indication after pressing the field:



Pict. 14

You can adjust the air volume by using the arrows. (📖 Page 14 Machine Settings)

The confirm arrow button you will go back to the level of „Settings“ (📖 Pict. 13).

ATTENTION

Environment circumstances can vary, hence the setting values might be subject to little adjustments up or down. If the variation of values is too big (📖 Page 14 Machine Settings) it will have negative impact on the sealing of the film.

3.6.1 Correction of fan settings

Fan settings can be adjusted, while the CIRRUS machine produces air pillows.

Display indication while in operation:



Pict. 15

1. Press the field „Fan“



Display indication after touch the field:



Pict. 16

With help of the arrows you can adjust the air volume settings. (📖 Page 14 Machine Settings)

By pressing the green confirmation field arrow you will reach the level „Stop“ (📖 Pict. 16).

3.7 Sealing temperature adjustment

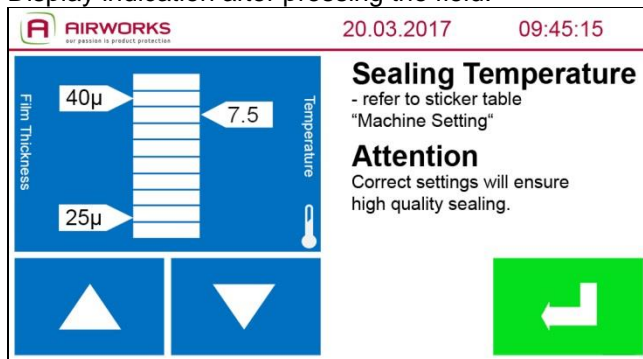
1. Press the field „Settings“ on the Start Display (📖 Pict. 4)



2. Press the field „Sealing Temperature“



Display indication after pressing the field:



Pict. 17

The 2 markings on the left side (40μ und 25μ) are the recommended sealing values for the respective film thickness.

While pressing the arrows you can adjust the sealing temperature. (📖 Page 14 Machine Settings)

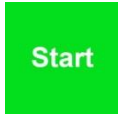
Press the confirm arrow to return to the „Settings“ level (📖 Pict. 13).

ATTENTION

Environment circumstances can vary, hence the setting values might be subject to little adjustments up or down. If the variation of values is too big (📖 Page 14 Machine Settings) it will have negative impact on the sealing of the film.

3.8 Sealing start and stop

Press the field „Start“ on the Start Display (📖 Pict. 4) to begin with the sealing of the air pillows.



Display indication after touching the field:



Pict. 18

Touch the field „Stop“ to stop the sealing process and to return to „Start Display“ (📖 Pict. 4).

3.9 Counter turn off

1. Touch on the Start Display (📖 Pict. 4) the field „Setup Counter“.



Display indication after touching the field:



Pict. 19

Default value is „1“.

To turn off the counter, touch the field „Off“. If the counter is turned off, the machine will produce continuously. Confirm by touching the confirmation arrow and you return to the „Start-Display“ (📖 Pict. 4).

By touching the red field you will return to „Start-Display“ (📖 Pict. 4), without any change of settings.

3.9.1 Counter turn on

1. Touch on the start display the field „Setup Counter“.



Display indication after touching the field:



Pict. 20

With turned off counter the machine will produce continuously. In order to switch on the counter, touch the field „On“.

Display indication after touching the field:



Pict. 21

Key in the number of air pillows produced in one go by using the number fields.

With this field you can revise your setting.



With the confirmation button you adopt the value and you return to the „Start Display“ (📖 Pict. 4).

By touching the red field you return to „Start-Display“ (📖 Pict. 4), without changing the prior settings.

3.10 Lock turn on

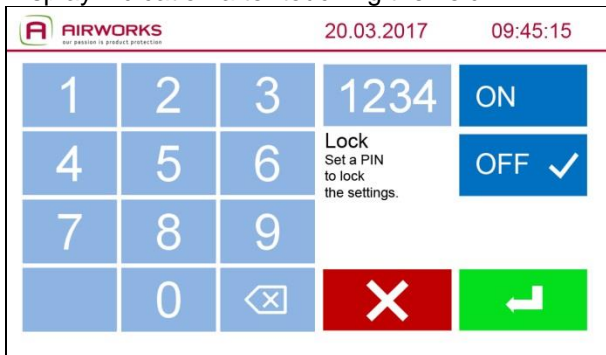
1. Touch on the Start-Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Lock“.



Display indication after touching the field:

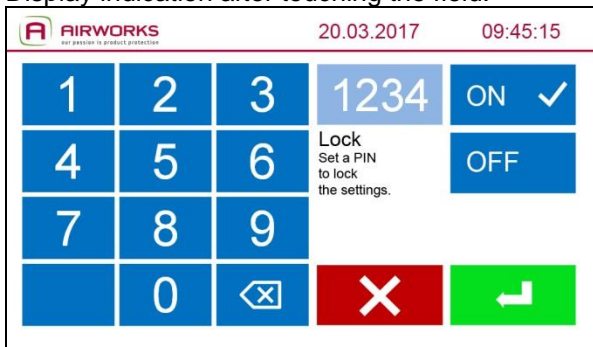


Pict. 22

In the default setting lock is deactivated. Each operator has access to the settings of the CIRRUS-Machines and can adjust them.

Touch the field „On“, to unlock.

Display indication after touching the field:



Pict. 23

Key-in a freely choosable PIN between 1000 and 9999 via the number fields.

Touch the green field with the confirmation arrow in order to activate/confirm the PIN and to go back to „Settings“ (📖 Pict. 13).

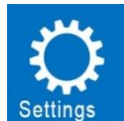
By touching the red field you will return to „Settings“ (📖 Pict. 11Pict. 13) without any changes.



With activated lock the access to all settings of the machines is disabled. Changes or general disabling of the lock can only be done by keying in the 4-digit PIN.

3.10.1 Partial lock deactivation

1. Touch on the Start-Display (📖 Pict. 4) the field „Settings“.



Display indication after touching the field:



Pict. 24

Key-in your 4-digit PIN on the number fields.

By pressing this field you can revise your setting.



Touch the green field with the confirmation arrow to confirm the entered PIN and to return to „Settings“ (📖 Pict. 11). With this PIN the lock is as long disabled until the Start-Display is shown again.

By touching the red field you will return to the Start-Display (📖 Pict. 4), without any changes done.

3.10.2 Permanent lock deactivation

1. Carry out the steps in chapter 3.10.1 and touch on level „Settings“ the field „Lock“.



Display indication after touching the field:



Pict. 25

Touch the field „Off“ and then the green confirmation arrow in order to permanent deactivate the lock and return to the level „Settings“.

By touching the red field you will go back to the Start-Display (📖 Pict. 4), without any changes.

3.11 Language setting

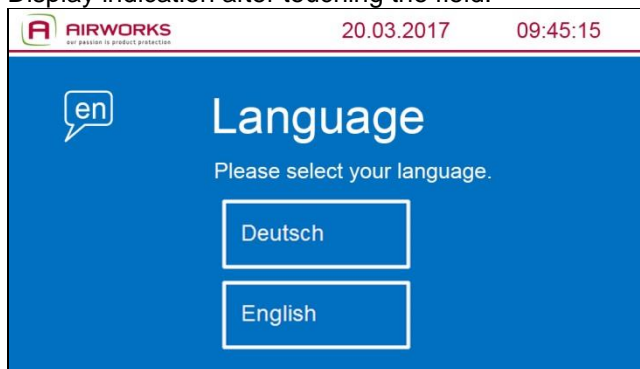
1. Touch on the Start-Display (📖 Pict. 4) the field „Setting“.



2. Touch the field „Language“.



Display indication after touching the field:

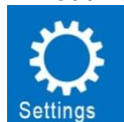


Pict. 26

By touching the respective language field you confirm your choice and return back to level „Settings“ (📖 Pict. 13).

3.12 Date


1. Touch on the Start-Display (📖 Pict. 4) the field „Setting“.



2. Touch the field „Date“.



Display indication after touching the field:

 AIRWORKS <small>our passion is product protection</small>		20.03.2017		09:45:15	
20.		03.		2017	
▲ ▼		▲ ▼		▲ ▼	
dd.mm.yyyy ✓		mm/dd/yyyy		✗	
				↩	

Pict. 27

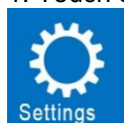
Using the arrow fields you can choose day, month and the year. You can choose between English and German format.

Touch the field with the confirmation arrow in order to confirm the chosen Date and to return to level „Setting“ (📖 Pict. 13).

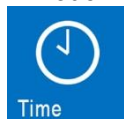
By touching the red field you will go back to level „Settings“ (📖 Pict. 11) without any changes.

3.13 Time


1. Touch on the Start-Display (📖 Pict. 4) the field „Setting“.



2. Touching the field „Time“.



Display indication after touching the field:

 AIRWORKS <small>our passion is product protection</small>		20.03.2017		09:45:15	
09:		15:		45	
▲ ▼		▲ ▼			
24 h ✓		12 h		✗	
				↩	

Pict. 28

With the arrows you can choose hour and minute. You can choose between 24-h- or 12-h-format. Touch the green field with the confirmation arrow in order to confirm the chosen time and format and return to level „Settings“ (📖 Pict. 13).

By touching the red field you will return to level „Settings“ (📖 Pict. 11) without any changes.

3.14 Displayanzeige drehen

1. Touch on the Start-Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Display“.



Display indication after touching the field:



Pict. 29

Touch the green field with the confirmation arrow to swivel the display indication and to return to the Start Display (📖 Pict. 4).

By touching the red field you will return to the Start Display (📖 Pict. 4) without any changes.

3.15 Eco mode activation

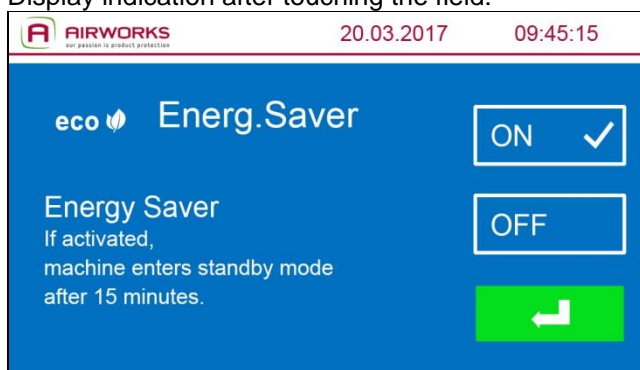
1. Touch on the Start Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Eco Mode“.



Display indication after touching the field:



Pict. 30

Default setting is Eco Mode off.

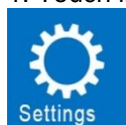
Activation of the Eco Mode by touching the field „On“. When Eco Mode is activated the machine will switch off the heating device and the screen saver on after 15 minutes of non operation.

To confirm the chosen modus touch the confirmation arrow and return automatically to level „Settings“ (📖 Pict. 13).

When the screen saver is on you can return to operative mode after touching the display.

3.15.1 Eco mode deactivation

1. Touch in the Start Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Eco Mode“



Display indication after touching the field:



Pict. 31

Deactivation of the Eco Mode by touching the field „Off“.

Touch the green confirmation arrow in order to confirm the chosen modus and return to level „Settings“ (📖 Pict. 13).

3.16 External signal

1. Touch on the Start Display (📖 Pict. 4) the field „Settings“.

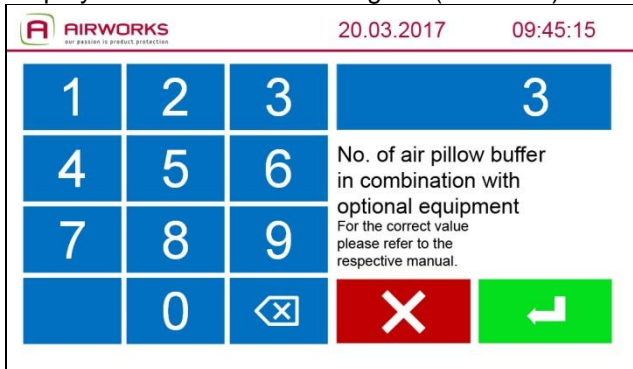


2. Touch the field „ext. signal“.



This field is colour deposited in dark blue and is functional as soon as the CIRRUS Machine is connected with a CIRRUS System Solution.

Display indication after touching the (dark blue) field:



Pict. 32

Key-in the number of air pillows which should be produced in backlash after the sensor signal given to the CIRRUS-Machine. You will find the correct value in the User Guide of the CIRRUS System Solution or contact the manufacturer.

Touch the green field with the confirmation arrow to take over the prior keyed in value and to return to the level „Settings“ (📖 Pict. 13).

By touching the red field you return to level „Settings“ (📖 Pict. 13) without any changes.

3.16.1 Start-Display with connected CIRRUS-Attachments



Pict. 33

The field „Sensor“ appears on the Start-Display only if the machine is connected with a CIRRUS-System Solution (📖 Pict. 2 Rear view of the CIRRUS-Machine, connecting attachments).

Touch the field „Start“ to enable the CIRRUS-Machine to start production of air pillows on demand.

Display indication after touching the field:



Pict. 34

3.17 Quick guide

1. Touch on the Start-Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Manual“



Display indication after touching the field:



Pict. 35

With the grey arrows you can switch for and back in pictured quick guide. A detailed instruction you will find in the User Guide (📖 Page 11 Film Insertion).

By touching the green field with the return arrow you will return to level „Settings“.

3.18 Contact

1. Touch on the Start-Display (📖 Pict. 4) the field „Settings“.



2. Touch the field „Contact“.



Display indication after touching the field:



Pict. 36

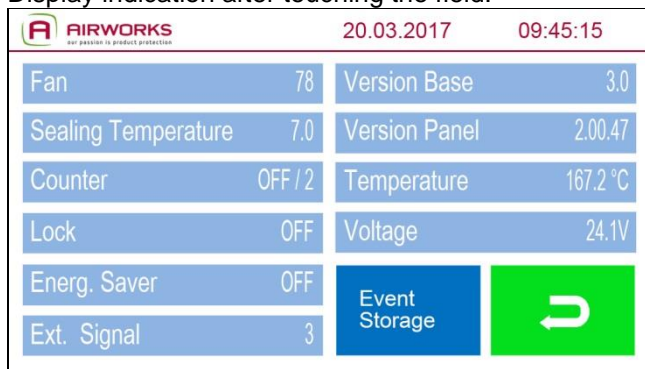
By touching the green field with the return arrow you will go back to level „Settings“.

3.19 Overview settings

1. Touch on the Start-Display the field „AIRWORKS“.



Display indication after touching the field:



Pict. 37

Here you find an overview about the important settings of the CIRRUS-Machine.

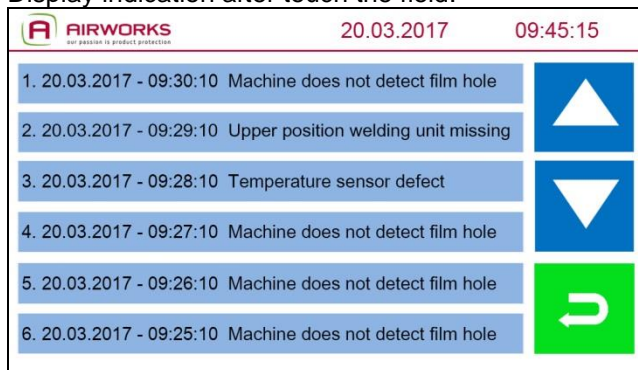
By touching the green field with the return arrow you will return to the Start-Display (📖 Pict. 4).

3.19.1 Event storage

1. Carry out the single steps indicated in chapter 3.19 Overview settings.
2. Touch the field „Event Storage“.



Display indication after touch the field:



Pict. 38

You will find here the last 40 error messages of the CIRRUS-Machine.

By touching the arrows you can flip up and down in the list.

By touching the green field with the return arrow you will go back to the overview of the settings (📖 Pict. 37).

4 Operation

4.1 Filling of air pillows

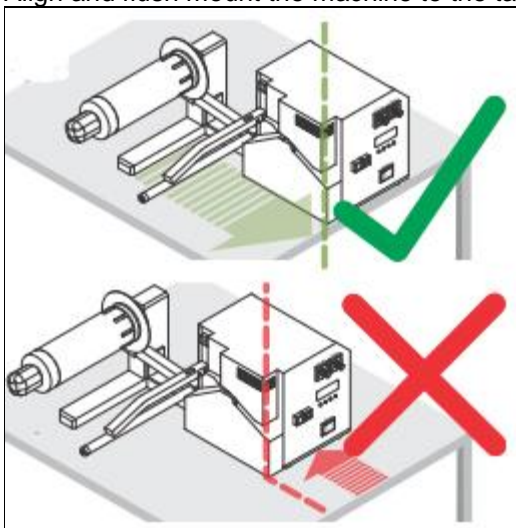
⚠ WARNING

Possibility of parts and connections breaking down.
Major injuries possible.

- ➔ Be aware of machine operation according to regulations.
- ➔ Keep maintenance interval in mind (📖 6.1 Maintenance Chart).

Be aware of the following steps by filling air pillows:

1. CIRRUS Machine, correct positioning at work place.
Align and flush mount the machine to the table in rolling direction of the air pillows.



Pict. 39


☒ Improved flow of air pillow production.

2. Put the power plug in the wall socket.
3. Switch on the machine with the main switch. (📖 Pict. 2 Rear View CIRRUS Machine, Chapter Machine Overview).
4. Be aware of display and flashing of the film transport switch. Blinken des Folientransport-Tasters beachten. (📖 Pict. 1 Front View of the CIRRUS-Machine, Chapter 2 Machine Overview and **Fehler! Verweisquelle konnte nicht gefunden werden.**)
☒ The CIRRUS-Machine is ready for use if the Start-Display (📖 Pict. 4) appears and the film transport switch flashes continuously.
5. Insert the film in the CIRRUS-Macchine einlegen (📖 3.3 Film Insertion).
6. Adjust air volume and temperature setting (📖 3.6 Fan Settings and 3.7 Sealing Temperature adjustment).
7. Adjust number of air pillows being filled (📖 3.9.1 Counter turn on).
8. Touch the field „Start“ in the Start-Display (📖 Pict. 4).

5 Malfunction

In case of malfunction of the CIRRUS-Machine the Display will show a error message. This error message refers to the possible fault, explains the meaning behind und provides a instruction how to solve the problem.

⚠ WARNING Breaking down of machine parts and connections.
Major injuries possible.

- ➔ Be aware of machine operation according to regulations.
- ➔ Keep maintenance interval in mind ( 6.1 Maintenance Chart)

⚠ WARNING Inaccurate fault repair.
Major injuries possible.

- ➔ Be aware that only skilled personal can carry out repairs.
- ➔ Be aware that faults on electric machine parts can only be repaired by special skilled electric personal.

5.1 Error indication

5.1.1 Error indication without special notice

5.1.1.1 No film inserted

Display indication:



Pict. 40

1. Insert film in the CIRRUS-Machine (📖 3.3 Film Insertion).
2. Quit fault by touching the green field with the return arrow.

☒ Start-Display appears (📖 Pict. 4) and the CIRRUS-Machine is ready for use.

5.1.1.2 Machine does not recognise the sensor punch

Display indication:



Pict. 41

1. Insert the film again in the CIRRUS-Machine (📖 3.3 Film Insertion).
2. Light Sensor (Pict. 1 Front View of the CIRRUS-Machine), clean-up carefully with a soft cloth.

ATTENTION Faulty clean up can result into a possible machine damage.

- ➔ Do not use any cleaning detergent.
- ➔ Be aware of maintenance interval (📖 6.1 Maintenance chart)

3. Confirm the error message by touching the green field with the return arrow.

☒ The Start-Display appears (📖 Pict. 4) and the CIRRUS-Machine is ready for use.

5.1.1.3 Time out

Display indication:



























Pict. 42

1. Switch off the machine with the main switch (📖 Pict. 2).
2. Leave the machine switched off for approx. 1 minute.
3. Switch on the machine with the main switch.

☒ After heating-up (📖 Pict. 3) the Start-Display appears (📖 Pict. 4) and the CIRRUS-Machine is ready for use.

5.1.2 Error indication with information to Service

In case of appearance of the following error message, please inform the Service of the manufacturer and please do not undertake any changes in settings of the CIRRUS-Machine!

  20.03.2017 09:45:15 system error RAM	  20.03.2017 09:45:15 system error flash	  20.03.2017 09:45:15 system error power
  20.03.2017 09:45:15 sealing temperature out of range	  20.03.2017 09:45:15 sealing temperature out of range	  20.03.2017 09:45:15 failure nether position sealing unit
  20.03.2017 09:45:15 failure upper position sealing unit	  20.03.2017 09:45:15 power supply 24 V missing / to low	  20.03.2017 09:45:15 failure drive motor
  20.03.2017 09:45:15 failure motor sealing unit	  20.03.2017 09:45:15 failure fan motor	  20.03.2017 09:45:15 CRC failure

5.1.3 Extern malfunction active

Display indication:



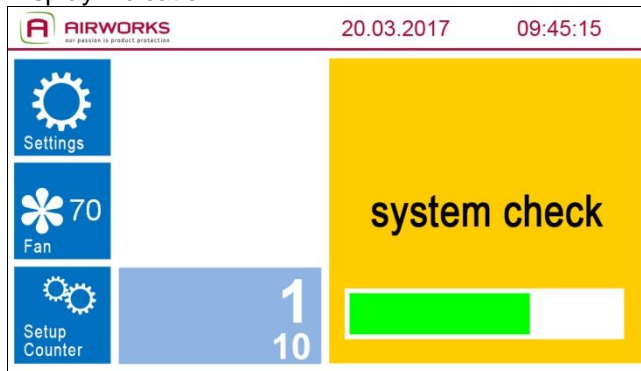
Pict. 43

1. Check of the connected CIRRUS-Attachments (📖 separate User Guide of the CIRRUS-System Solution).
2. Quit the error message by touching the green field with the return arrow.

☒ The Start-Display appears (📖 Pict. 4) and the CIRRUS-Machine is ready for use.

5.1.4 System check

Display indication:



Pict. 44

Indicated error message, which was quit.

1. Touch the field with the yellow triangle:



2. Error message will be shown again.

3. Eliminate the error message according to the respective instruction in the User Guide (📖 5.1 Error Indication) or inform the Service of the manufacturer.

5.2 Change of fuse

If it is not possible to switch on the machine with the main switch (Pict. 2Rear view of the CIRRUS-Machine), please check the fuse of the machine.

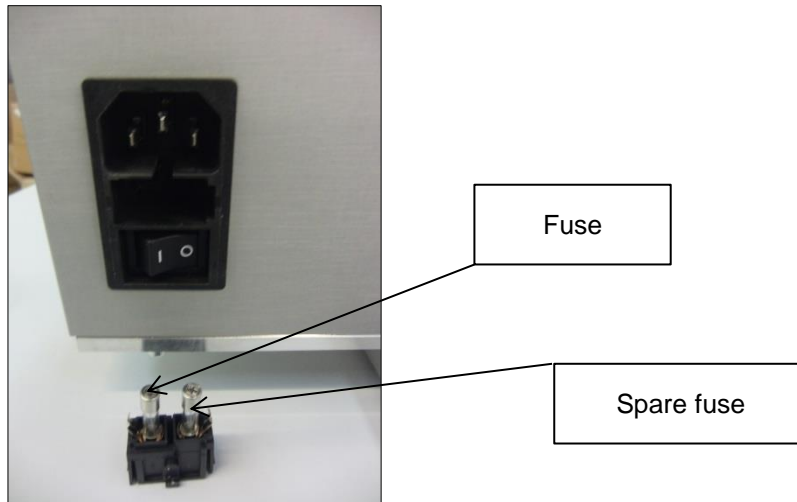
➔ Be aware of the following steps:

1. Set the main switch to „O“.
2. Take of the power plug from the wall socket.
3. Take off the power cable.
4. Pull the fuse holder underneath the power connection:



Pict. 45

5. Take the fuse out of the fuse holder:



Pict. 46

6. Take the spare fuse and put it in the fuse holder. Put back the fuse holder.
Sicherungshalter wieder einsetzen (📖 Pict. 44).
7. Connect power cable to power connection on the machine.
8. Put the power adapter into the wall socket.
9. Switch on the machine with the main switch.

In case it is not possible to activate the machine after switching the fuse, please inform the Service of the manufacturer.

6 Maintenance

6.1 Maintenance chart

Interval	Location and provision	Action
daily	visual control of dirt and contamination	remove dirt and contamination
daily	visual control of damages which have an impact on safe operation	contact manufacturer
monthly	light sensor	clean with a soft cloth
monthly	visual control of the transport wheels	consider chapter 6.2

6.2 Transport wheel change

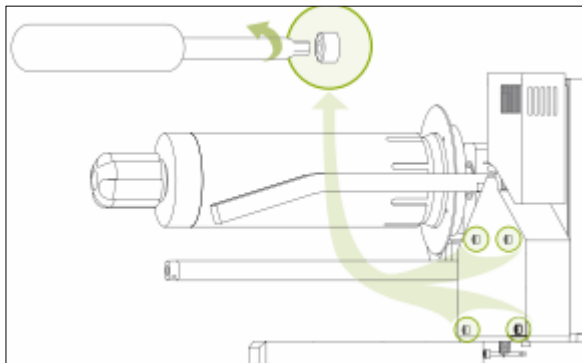
⚠ ATTENTION Hot surface.
Possible injuries.

➔ Carry out maintenance work only when the CIRRUS-Machine is cooled down.

In case of wear and tear on the silicon ring of the lower transport wheel, exchange this one with the upper transport wheel.

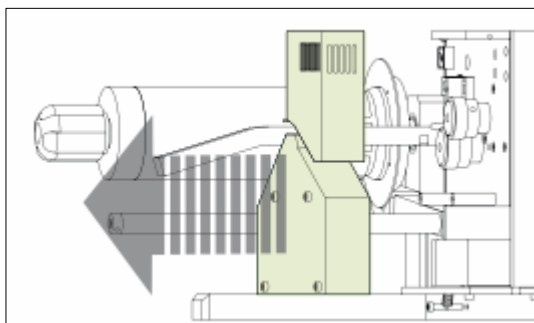
➔ Be aware of the following steps when changing the transport wheels:

1. Main switch (📖 Pict. 2 Rear view of the CIRRUS-Machine) to „O“.
2. Unplug the machine.
3. Take off net cable of the machine.
4. Colling down of the machine.
5. Take of the screws with a 2.5 mm hex-wrench.



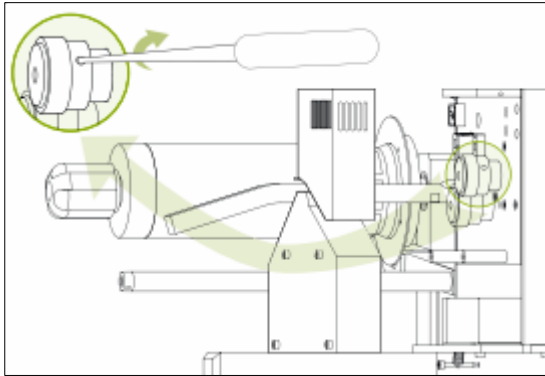
Pict. 47

6. Remove the front cover.



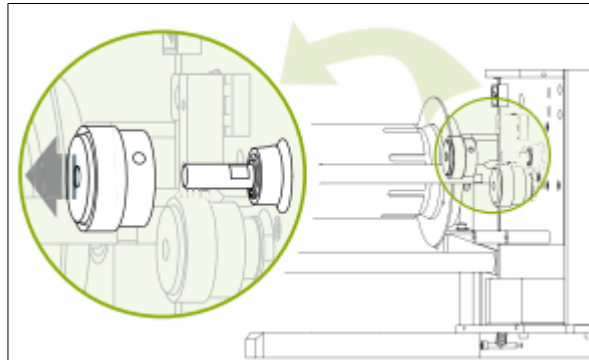
Pict. 48

7. Untighten the screw of the transport wheel carefully with a 2,0mm hex wrench anti-clockwise:



Pict. 49

8. Take of the transport wheel:



Pict. 50

9. Repeat step 6 and 7 with the other transport wheel.
10. Exchange the transport wheels jointly. **It is vital that the screws are pressing correctly on the bearing surface of the transport wheels and that they are tightened carefully.**
11. Fix the cover and tighten the screws.

7 Appendix

7.1 Technical Data

7.1.1 Technical Data CIRRUS Maxx

Film material	HDPE pre-fabricated Film-Roll
Air pillow size	200x100mm, 200x133mm, 200x200mm 230x100mm, 230x133mm, 230x200mm 400x200mm SL
Performance	max. 150 Pillows / Minute
Power	230V / 50Hz or 110V / 60Hz
Dimension	540 x 640 x 240 mm
Weight	approx. 13,5 kg

7.1.2 Technical Data CIRRUS Vario

Film material	HDPE pre-fabricated Film-Roll
Air pillow size	200x100mm, 200x133mm, 200x200mm 230x100mm, 230x133mm, 230x200mm
Performance	max. 150 Pillows / Minute
Power	230V / 50Hz or 110V / 60Hz
Dimension	540 x 480 x 240 mm
Weight	Approx. 11,5 kg

7.2 Environmental protection



Environment

Please be aware of the following environmental protection advice !

In case of final de-activation of the CIRRUS-Machine, please follow the the national regulation and legislation for recycling the equipment.

7.3 EG-Conformity-Declaration

EG-Conformity-Declaration according Machinery Directive 2006/42/EG Appendix II A

The manufacturer

Hanns Loersch GmbH & Co. KG – An der Bleiche 49 – 47638 Straelen

Declares, that the following products

Product declaration: CIRRUS Maxx, CIRRUS Vario

Are in line with the above mentioned directive – including any changes at time of declaration.

Furthermore is the product in line with directive:

2014/30/EU Electro-magnetic-compatibility (EMC)

The Low Voltage Directive 2014/35/EU according appendix I No. 1.5.1 MRL 2006/42/EG was followed.

Following harmonized Norms applied:

EN ISO 13850:2015 Safety of machineries – Emergency Stop – Principals for Design (ISO 13850:2015)

EN ISO 12100:2010-11 Safety of machineries – General principal for Design – Risk Asyessment and Risik Minimizing (ISO 12100:2010)

EN 60204-1:2006/A1:2009 Safety for machineries – Electric equipment of machineries – part 1: General requirements (IEC 60204-1:2005)

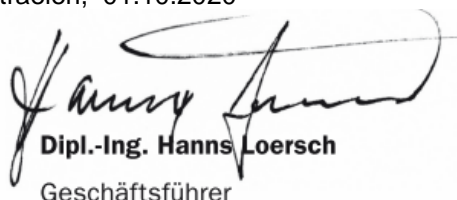
EN 1037:1995+A1:2008 Safety of machineries – Avoid unexpected start-up

EN 349:1993+A1:2008 Safety of machineries – Minimum distances to avoid crush of body parts

Name and Address of Person, entitled to assort technical documentation:

Dipl.-Ing. Hanns Loersch – Dipl.-Wirtsch.-Ing. Marc Loersch
Hanns Loersch GmbH & Co. KG – An der Bleiche 49 – 47638 Straelen

Straelen, 01.10.2020



Dipl.-Ing. Hanns Loersch
Geschäftsführer



Dipl.-Wirtsch. Ing. Marc Loersch
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