



AMAZONE



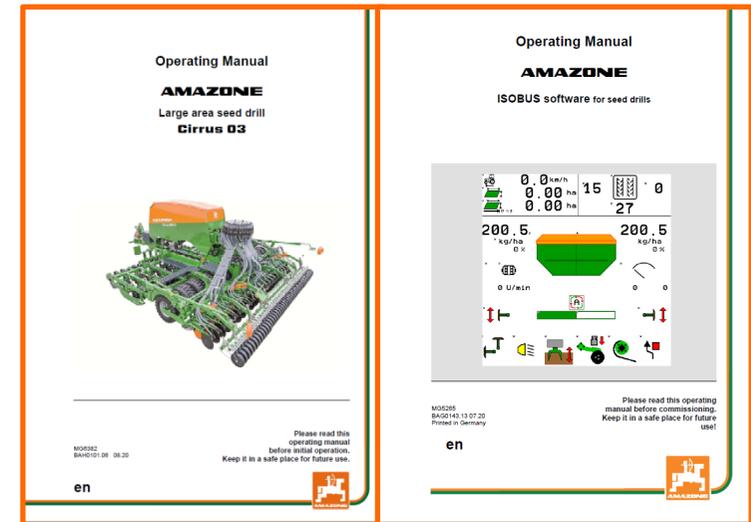
Orientation Aid for the Start of the Season Cirrus 03

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1. General instructions

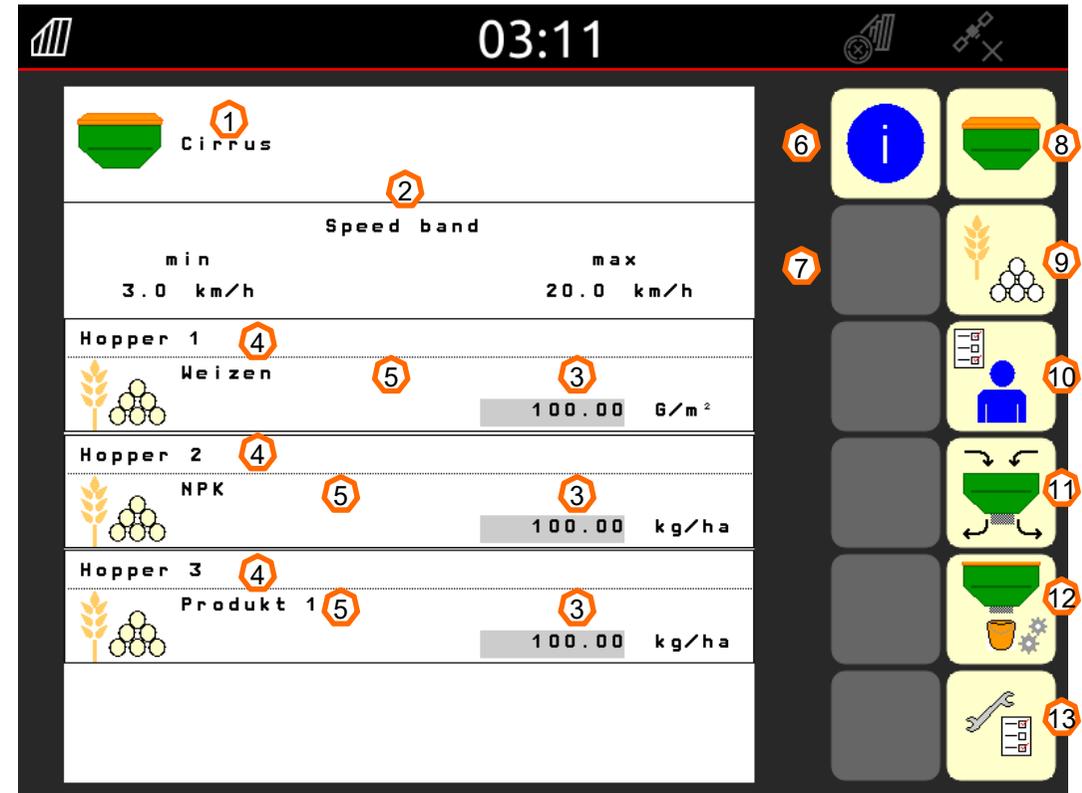
- Use of this document requires that the **operating manuals** for the implement and the software have been **read and understood**. The corresponding documents are shown on the right side.
- For this reason, it is **necessary** to take additional information from the operating manual. The **operating manual** must **always be available** when performing the orientation aid for the start of the season with the Cirrus 03.
- The **Orientation Aid for the Start of the Season - Cirrus 03** document serves as a guideline for the user to check the implement for the new season and to put it back into operation. This document is based on software version **NW262-C004** and is also only valid for this version.



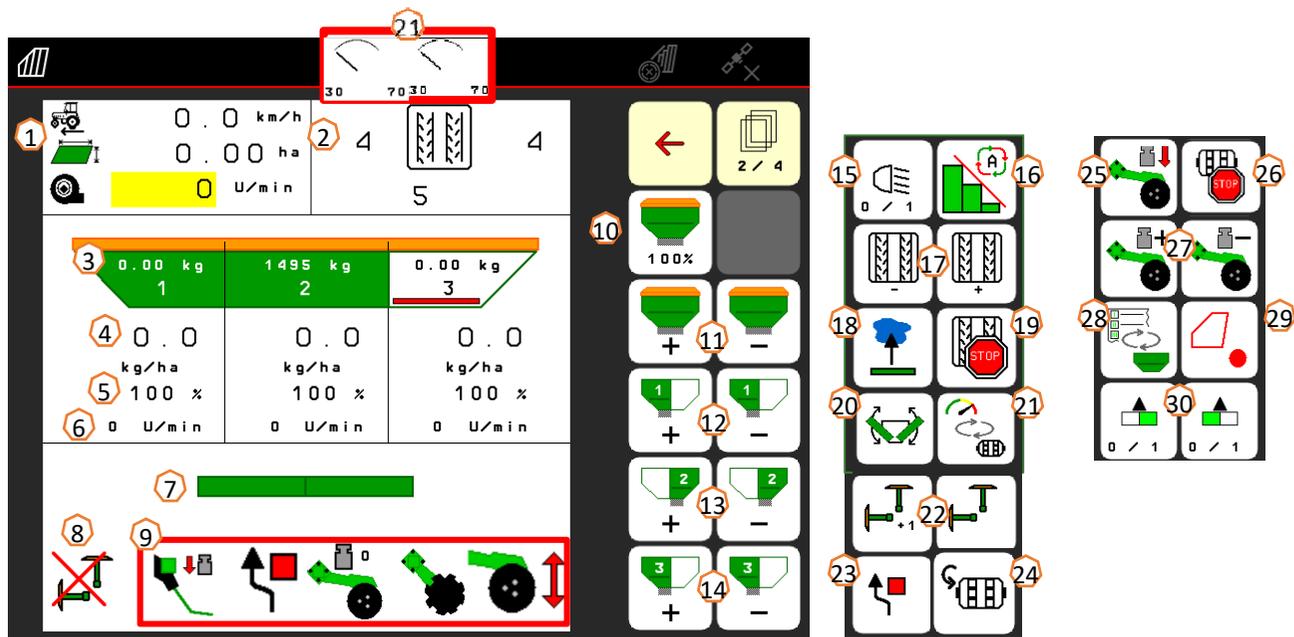
2. Start screen of the implement software

The user can reach the other screens directly from the start screen.

- (1) Machine type
- (2) Speed band
- (3) Spread rate for the respective hopper. This value can also be automatically changed by the Task Controller or by other setpoint generators. Moreover, this value is the 100 % basis for rate control in the Work menu
- (4) Hopper
- (5) Activated product for the respective hopper
- (6) MACHINE SETTINGS
- (7) Info screen
- (8) work menu
- (9) Internal job management
- (10) Product menu
- (11) User menu
- (12) Filling / emptying
- (13) Calibration menu



3. Work menu of the implement software



- | | |
|--|---|
| <ul style="list-style-type: none"> (1) Multi-function display (2) Tramline control (3) Filling level hopper 1 (4) Spread rate for Hopper 1 (5) Spread rate in % for hopper 1 (6) Metering unit speed for hopper 1 (7) Implement in working position (8) Track marker status (9) Hydraulic pre-selection function (10) Reset seed rate to 100% (11) Increase / reduce total setpoint (12) Increase / reduce setpoint for hopper1 (13) Increase / reduce setpoint for hopper2 (14) Increase / reduce setpoint for hopper3 (GreenDrill) (15) Lighting (16) Section Control automatic mode | <ul style="list-style-type: none"> (17) Switching the tramline control back/forth (18) Water hole function (19) Stop tramline (20) folding (21) Alternative view hopper pressure (22) Track marker (23) Track marker obstacle switching (24) Pre-metering (25) Coulter pressure via control unit (26) Stop metering unit (27) Select coulter pressure (28) Change the work view/multi-function view displays (29) GPS recording (30) Switch one-sided part-width sections |
|--|---|

4. Preparation for operation

Tractor prerequisite - Cirrus

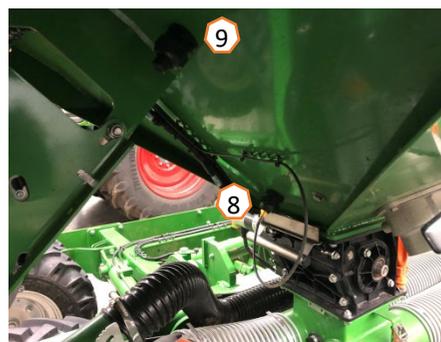
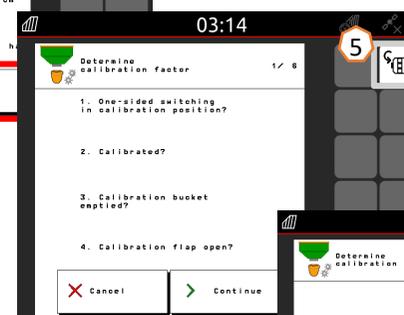
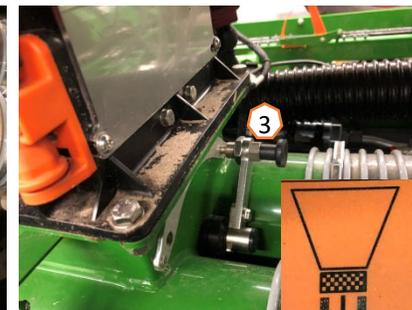
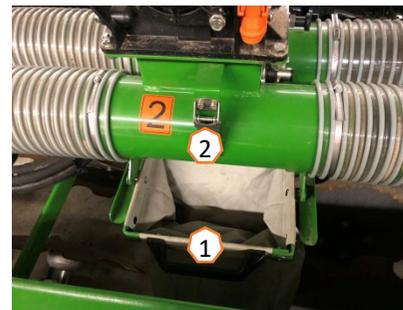
| TYPE | Tractor power | Tractor pump output |
|-------------------------------------|---------------|------------------------------|
| Cirrus 3003 Compact | 90 kW/120 hp | At least 60 l/min at 150 bar |
| Cirrus 3503 Compact | 105 kW/140 hp | At least 60 l/min at 150 bar |
| Cirrus 4003(-2)(-C)(-2C)(-CC)(-2CC) | 120 kW/160 hp | At least 60 l/min at 150 bar |
| Cirrus 6003-2(-2C)(-2CC) | 164 kW/220 hp | At least 80 l/min at 150 bar |



- Connections:** depending on the implement equipment, the following connections are required:
 - 1x DA: (yellow) running gear / track marker / tramline marker
 - 1x DA: (green) disc array / cutting disc array / coulter pressure / exact following harrow pressure / implement sections, folding
 - 1x DA: (blue) crushboard in front of the disc array
 - 1x DA: (blue) FerTeC single disc coulter / crushboard in front of the tyre packer
 - 1x SA: (beige) filling auger
 - 1x SA: (red) fan
 - 1x T: (red) free return flow (max. 5 bar)
- Coupling the implement:** pick up the implement with the lower links and secure the implement. Fold up the jack and secure. Take the hydraulic connections, lighting system, brake lines as well as the ISOBUS plug from the respective parking positions (1) and couple to the tractor.

5. Calibration of the metering unit

- General:** insert the suitable metering core (see p.9). Slide the calibration bag under the metering unit (1). Open the calibration flap (2). With a double sluice, set the one-sided switching (3) to the front sluice. **Please note:** after the calibration, set the one-sided switching back to the centre position!
- Electrical drive:** Start screen > Product > Calibration: check the values and change if necessary (4), select the desired calibration method, pre-meter (5). Empty the calibration bag and slide it back underneath. Perform the calibration using the ISOBUS terminal or TwinTerminal (6), enter the weighed quantity on the terminal (7).
- For fine seeds, the low level sensor (8) can also be inserted in the lower position (upper position (9)).



5.1 Metering rollers



| Metering rollers | | | | | | | |
|--------------------|---|---|--|--|--|--|--|
| Order no. | 224310 | 224829 | 219956 | 221869 | 976731 | | |
| [cm ³] | 3.75 | 7.5 | 7.5 | 7.5 | 7.5 | | |
| |  |  |  |  |  | | |
| Order no. | 212295 | 221870 | 961457 | 207504 | 967777 | 961456 | 207502 |
| [cm ³] | 20 | 20 | 20 | 40 | 120 | 210 | 350 |
| |  |  |  |  |  |  |  |
| Order no. | 961454 | 970564 | 212153 | | | | |
| [cm ³] | 600 | 660 | 880 | | | | |
| |  |  |  | | | | |

Service Info number: ID 23475

5.1 Metering rollers

| Seed | Metering rollers | | | | | | | | | |
|-------------------------|----------------------|---------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | 3.75 cm ³ | 7.5 cm ³ | 20 cm ³ | 40 cm ³ | 120 cm ³ | 210 cm ³ | 350 cm ³ | 600 cm ³ | 660 cm ³ | 880 cm ³ |
| Beans | | | | | | | | | X | X |
| Dinkel | | | | | | | | X | X | X |
| Peas | | | | | | | | | X | X |
| Flax (dressed) | | | X | | X | X | | | | |
| Barley | | | | | | X | | X | | |
| Grass seed | | | | | | X | | X | | |
| Oats | | | | | | | | X | | |
| Millet | | | | | X | X | | | | |
| Lupins | | | | | X | X | | | | |
| Lucerne | | | X | | X | X | | | | |
| Maize | | | | | X | | | | | |
| Poppy | X | X | | | | | | | | |
| Oilseed (moist dressed) | | | X | | | | | | | |
| Fodder radish | | | X | | X | X | | | | |
| Phacelia | | | X | | X | | | | | |
| Rapeseed | X | X | X | X | | | | | | |
| Rye | | | | | | X | | X | | |
| Red clover | | | X | | X | | | | | |
| Mustard | | | X | | X | X | | | | |
| Soya | | | | | | | | X | X | X |
| Sunflowers | | | | | X | X | | | | |
| Turnips | | | X | | | | | | | |
| Wheat | | | | | | X | | X | | |
| Vetches | | | | | | X | | | | |
| Buckwheat | | | | | | X | | X | | |
| Caraway | | | X | | | | | | | |
| Rice | | | | | | | X | | | |
| Fertiliser | | | | | | | X | | X | X |

Service Info number: ID 23475

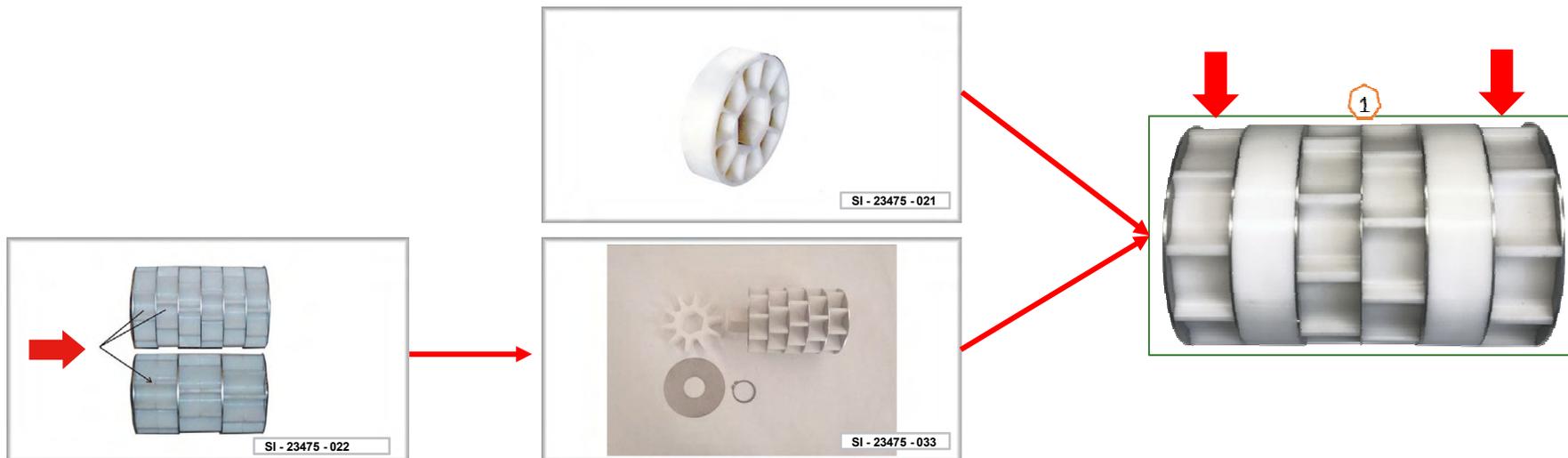
5.1 Metering rollers

Conversion of metering cores:

For seeding special seeds, the chambers of the metering roller can be changed by repositioning the wheels and plates.

Metering wheel without chambers (order no. 969904). The volume of some metering rollers can be modified by repositioning or removing the existing wheels and inserting metering wheels without chambers.

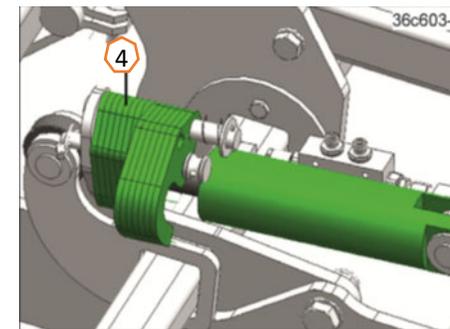
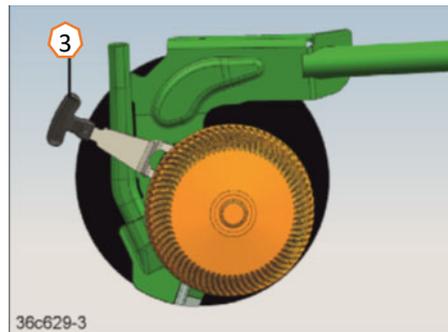
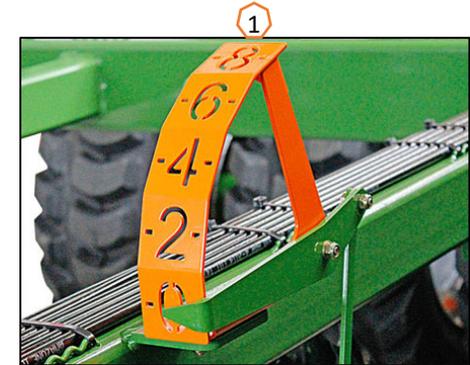
Installation must be as symmetrical as possible. To prevent bridge formation in the hopper, only metering cores with chambers (1).



Service Info number: ID 23475

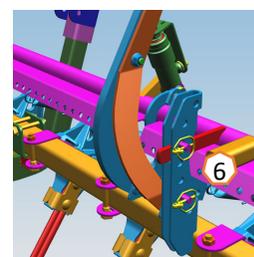
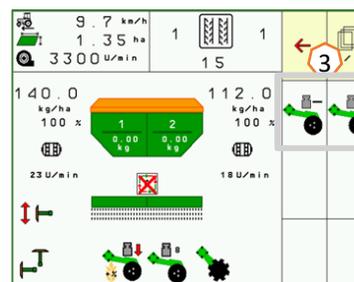
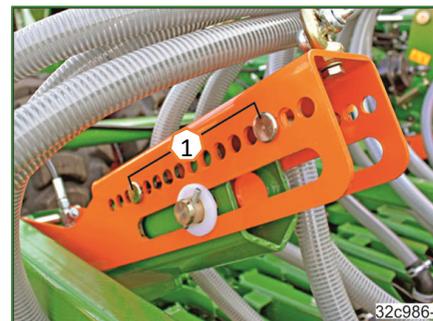
6. Implement settings

- **Soil tillage working depth:** set the desired working depth (1) on the disc array with the green control unit. Then adjust the lifting unit height on the tractor in the field so that the implement is guided horizontally to the direction of travel during operation.
- **Track marker:** when using track markers, their width and intensity must be adjusted to the working width and soil conditions.
- **Placement depth:** TwinTeC+: the placement depth can be adjusted using the crank (2) on the left, right and centre. RoTeC pro: the placement depth can be adjusted using the depth control wheel (3). FerTeC: the placement depth of the FerTeC single disc coulters is adjusted with spacer elements (4), which prevent the piston from being retracted in the hydraulic cylinder.



6. Implement settings

- **Tramline system:** the tramline system must be adjusted to the subsequent cultivating implement. (Page 14)
- **Coulter pressure:** set the desired coulter pressure using the coulter pressure cylinder (1) (RoTeC). The coulters work with increased coulter pressure if the pressure gauge (2) indicates pressure. With TwinTeC electric adjustment, the coulter pressure can be adjusted in 10 stages using the buttons (3). Manual adjustment is infinitely variable (4). Use less coulter pressure on light soils, and more on heavy soils. This setting also affects the placement depth.
- **Harrow:** the TwinTeC+ coulter harrows can be moved into parking position as shown using the pin (5) or moved to working position in 2 stages. The exact following harrow is adjusted by repositioning two pins (6). The height adjustment of the roller bar is infinitely variable via spindles (7).
- **Fan speed:** set the oil quantity on the tractor control unit (take account of the hydraulic oil temperature), the fan speed depending on the seed type according to the table. In doing so, the pressure can be read on the pressure gauges on the hopper (8): fine seed approx. 40 mbar, wheat/rye approx. 50 mbar and fertiliser approx. 55 mbar. The pressure hopper (9) and injector system (10) stickers show the basic settings for different types of seed.
- Maximum speed 4000 rpm

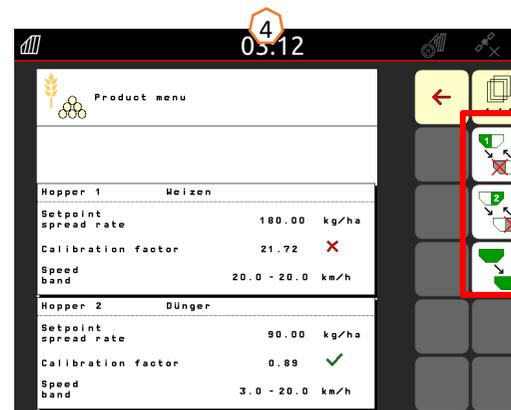
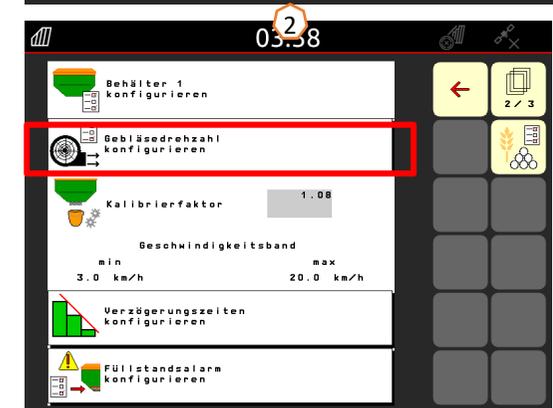


| | | 9 | | |
|--------|-------------|--------------------|-----------------------|------|
| | | max. 4000 1/min | 150 kg/ha > 150 kg/ha | |
| | | 2500 | 3200 | 3400 |
| ME1078 | < 100 kg/ha | 3200 | 3400 | 3600 |
| | < 200 kg/ha | 3400 | 3600 | 3800 |
| | > 200 kg/ha | 3600 | 3800 | 4000 |
| | | 1/min | | |

| | | 10 | | |
|--------|-------------|--------------------|-----------------------|------|
| | | max. 4000 1/min | 150 kg/ha > 150 kg/ha | |
| | | 2800 | 3200 | 3500 |
| ME1077 | < 100 kg/ha | 2800 | 3200 | 3500 |
| | < 200 kg/ha | 2800 | 3200 | 3500 |
| | > 200 kg/ha | 2800 | 3200 | 3500 |
| | | 1/min | | |

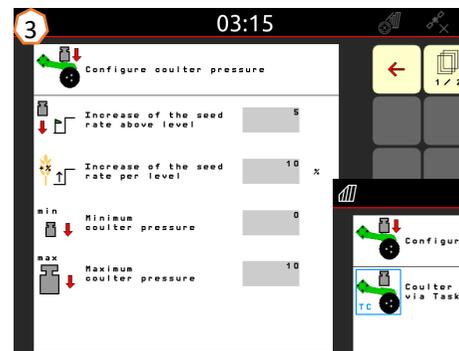
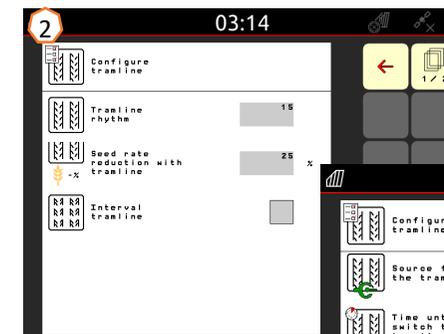
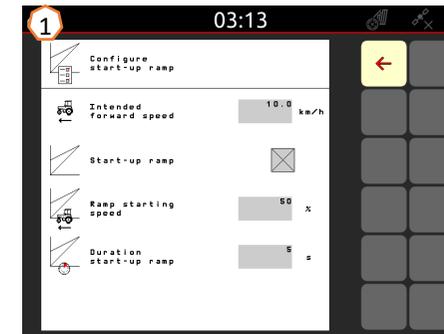
7. Software settings

- **(1) Speed source / teach-in pulses per 100 m:** **Implement settings > Speed > Teach-in pulses / source.** Here, the source for the speed can be selected or the pulses per 100 m can be calibrated.
- **(2) Fan speed:** **Product menu > Hopper selection > Configure fan speed.** Here, settings can be made for the fan monitoring.
- **(3) Seed:** **Product menu > Hopper selection.** Here, the spread rate, the product name as well as the product settings can be entered.
- **(4) Change hopper:** **Product menu > Change hopper.** Here, the sequence and setpoint division can be configured for each hopper.



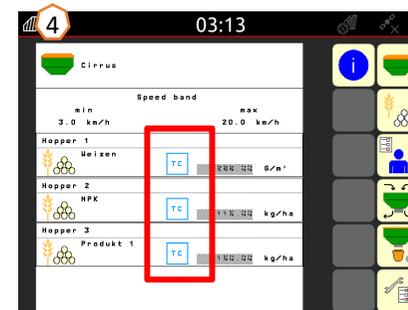
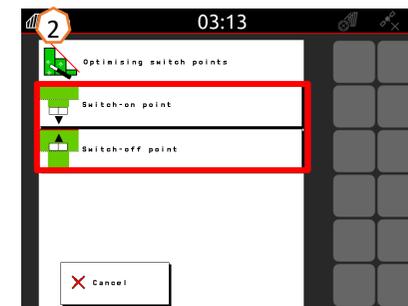
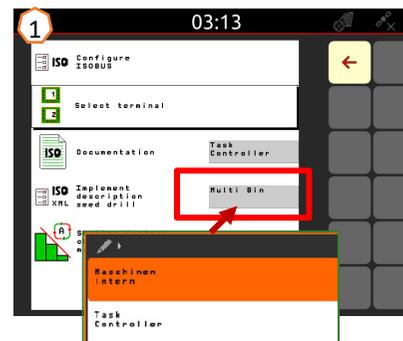
7. Software settings

- **(1) Start-up ramp:** Profile > Start-up ramp. Here, the speed settings for the start-up ramp when starting to meter can be entered.
- **(2) Tramline:** Implement settings > Configure tramline. Here, the tramline settings can be entered according to the subsequent cultivating implement.
- **(3) Coulters pressure:** Implement settings > Configure coulters pressure. Here, settings for the coulters pressure as well as the seed rate increase can be entered.



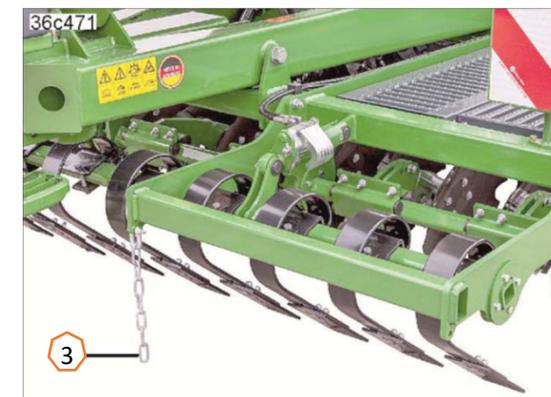
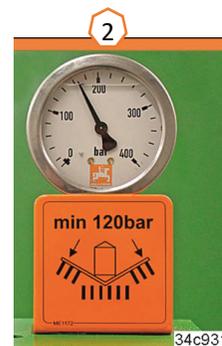
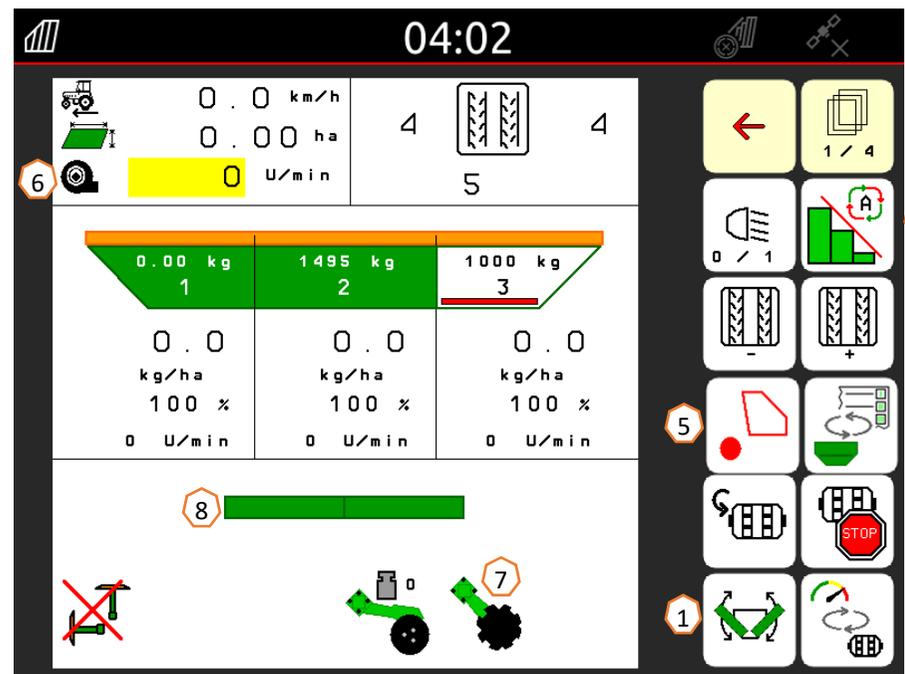
8. Preparations on the implement for the Task Controller

- **Terminal:** the functions of the Task Controller are controlled via the terminal. The terminal must be prepared accordingly. You can find more information in the operating manual for the respective terminal.
- **(1) Task Controller:** **Implement settings > Configure ISOBUS.** Under the Documentation point, there is the choice between "Implement internal" and "Task Controller".
- **(2) Switch-on/-off time:** **Product menu > Hopper selection > Optimise switch points** These times define the delay between the moment when the terminal issues the command to switch the part-width sections on or off and when the implement really executed this command. Incorrect settings can cause overlaps or gaps.
- **(3) AutoPoint:** **Implement settings > AutoPoint.** AutoPoint uses a sensor on the coulter to determine the time required by the seed to reach the coulter after the metering unit is switched. This enables the calculation of the optimal on/off point delays for switching the metering unit on and off at the headlands, see operating manual section 6.7. The functioning of the system requires that the tractor always drives on and off the headlands at a constant speed. Moreover, it must be checked that the terminal adopts the changed times.
- **(4) Application maps / jobs:** the "TC" icon in the Work menu and on the Start screen indicates that the implement is receiving the target spread rates from the Task Controller (application map or job).
- **(5) GPS recording:** **Implement settings** With the GPS recording, the spreading can be simulated for the connected control terminal without actually spreading seed. The control terminal marks the driven area as the worked area. The worked area can be used to create a field boundary.



9. Procedure during operation

- 1) Moving the implement into working position: pre-select the folding hydraulic function on the terminal (1) and actuate the green tractor control unit (pay attention to the section support pressure (2)). Then align the implement horizontally using the lower link. The chain on the straight drawbar (3) can be used as a reference.
- 2) Inset the USB flash drive and load the field, start the job (if not equipped, see Step 3) and activate SC (4).
- 3) Activate SC (4) and record and create the field boundary using GPS recording (5).
- 4) Create the headland, see operating manual for the terminal.
- 5) Switch on the fan and set the desired speed (6).
- 6) Set the disc array to the desired working depth (7), see page 11.
- 7) Move the implement into working position (8) and drive a few metres into the field.
- 8) Stop the implement, check the working depth of the disc array and working depth of FerTeC, RoTeC Pro or TwinTeC+, harrow and adjust if necessary, see page 11.



SmartLearning app

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