

Yara Danmark has developed a spreading control equipment - called PRECISE

Using PRECISE gives the possibility in an easy and quick way to control that your fertilizer is spread correctly. It is recommended to check regularly when spreading and when changing to a new fertilizer grade.

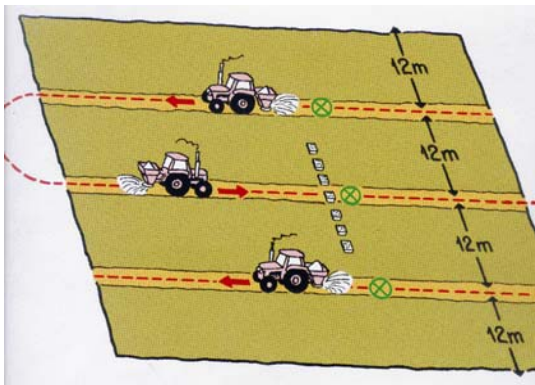
The equipment contains:

- 7 pcs. ABS plastic trays, 50 x 50 cm
- 7 pcs. plastic insets
- 7 pcs. scale divided measure tubes
- 1 pcs. plastic funnel
- The equipment comes in 2 bags

Position in the field

Place the plastic trays at a regular distance within the working distance in a straight line across the driving direction. The illustration shows the optimum way to place the trays according to the tramlines – with a regular distance and in a straight line across the driving direction. To obtain the best result the trays should be placed horizontally on the ground.

Place the plastic insets in the trays so that the fertilizer grains do not bounce out. The illustration shows a driving distance of 12 meters.



Place a tray between the driving trails and regulate the distance between the trays according to the working width:

Working width	Distance between centre of the trays
12	1,5
15	2,0
18	2,5
24	3,5
30	4,5
36	5,0

Start the spreading test by spreading the fertilizer as normal – both in the trial right to the trays, across and left to the trays. Using this procedure the trays will be passed three times taking double overlap into consideration. Start the spreading in good time before passing the trays. Drive at normal speed and with normal revolutions per minute on the PTO shaft.

Read the result

Empty the trays separately into each measure tube. If the spreader is correctly adjusted all the tubes will contain an equal amount of fertilizer.

The tractor driver's 10 rules

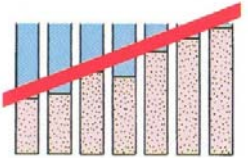
1. Exchange damaged spreading equipment – do not use
2. Be careful when mounting and adjusting
3. Avoid driving in heavy wind max 8-9 m/s
4. Do not exceed the minute capacity
5. Adjust the number of revolutions on the tractor
6. Drive with correct distance
7. Use riddle and cover
8. Control the quantity
9. Control the application
10. Apply dust free and dry fertilizer

If the spreading is not as required some of the most typical errors are described below and can easily be corrected:

Incorrect side spreading

Possible errors:

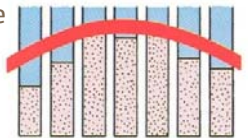
- Incorrect side position
- Uneven dosage when spreading with 2 outlets
- The spreader is suspended lopsided



Lapse of fertilizer in the overlap

Possible errors:

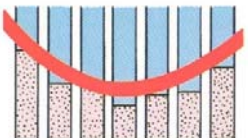
- Too wide driving distance
- Too low speed on the PTO shaft
- Maximum capacity exceeded
- Too low horizontal angle on the spreader



Too much fertilizer in the overlap

Possible errors:

- Too narrow driving distance
- Too high speed on the PTO shaft
- Too high horizontal angle on the spreader



Errors

Correct spreading of fertilizer depends on careful adjustment and handling. There are many factors that may influence the result significantly:

The spreader

- Damaged or worn out spreading equipment
- Incorrect adjustment of funnels and spreading booms
- Incorrect height or gradient
- Decreased number of revolutions when loaded
- Decreased working width when driving in soft soil

Operation

- Dirt on the funnels and the disc
- Incorrect side adjustment
- Incorrect number of revolutions (should be 540 or 1000 RPM)
- Incorrect driving distance
- Incorrect speed (normally max. 10 km/t)

Fertilizer

- Hard fertilizer or foreign bodies
- Dust
- Moist/sticky fertilizer
- Mechanical mixture
- Size and strength of grain



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Yara Precise

Spreading Control Equipment

