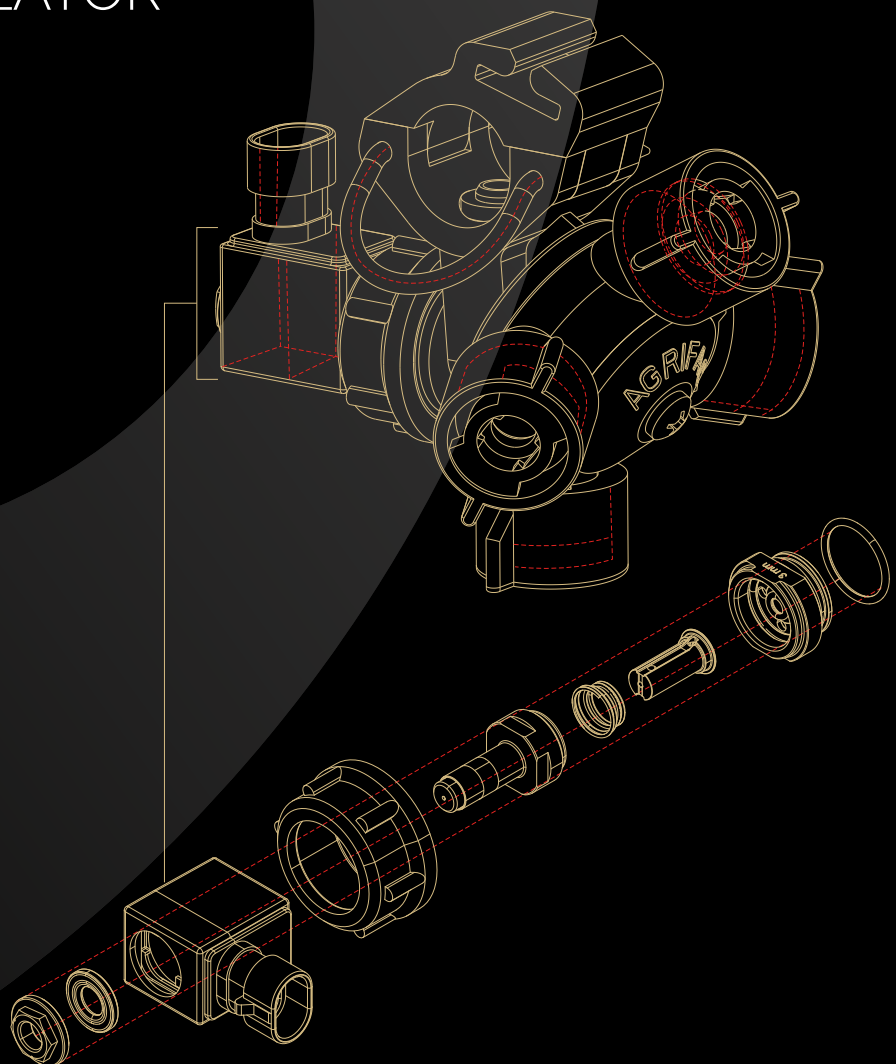




AGRIFAC

INSTRUCTION MANUAL

STRICTSPRAYPLUS
NOZZLE CALCULATOR





STRICTSPRAYPLUS NOZZLE CALCULATOR

This instruction manual explains how to use the StrictSprayPlus (SSP) nozzle calculator. It is designed to help you understand the SSP control range. Choosing the correct nozzle size is essential for achieving the maximum SSP range. The SSP operating range is visualized for single rate broadcast spraying, variable rate applications with DynamicDosePlus (DDP) and turn compensation.

Due to the type of nozzle and nozzle wear, the effective size of a nozzle can deviate. Therefore, the effective range of the nozzle may differ slightly from the theoretical calculations.

First, enter the machine parameters. Select the correct model, boom width and nozzle spacing. Below the machine parameters, you can select the type of visualization. Each option is explained in more detail below. You can switch to imperial units if needed. Imperial measurements use US gallons.

Model	Boom width	Nozzle spacing	Instructions	Measurement	Speed	
CV55, CV67, CE80 ▾	36 m ▾	25 cm ▾	Show Hide	Metric Imperial	Km/h Mph	Save as ↓
Broadcast			DynamicDosePlus		Advanced Selection	
					Turn compensation	



BROADCAST

This option shows the speed range for each nozzle size for a given application rate. You can add multiple applications using the button:



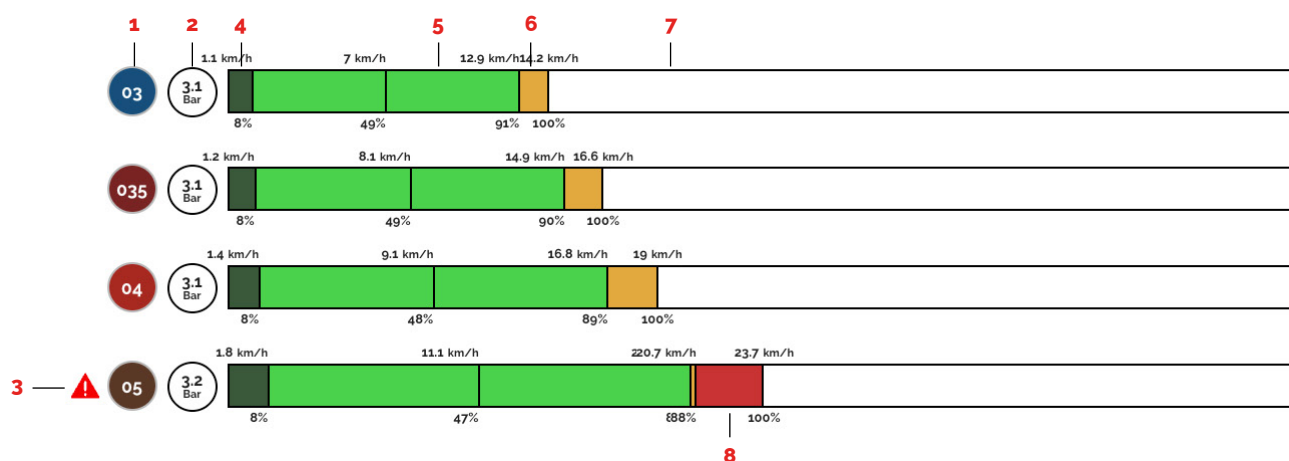
For each application, set the application rate, nozzle pressure and liquid fertilizer. Optionally, you can give the application a name and a goal speed.

1 [Delete](#) Application name

Application rate ? Nozzle pressure ? Liquid fertilizer ? Goal speed ?

200 ltr/ha 3 Bar No km/h

If these parameters are filled in, the nozzle calculator will show the speed range for all nozzle sizes based on the selected application settings:



1. Nozzle size.
2. Set pressure in EcoTronicPlus, to compensate for pressure drop over the SSP valve.
3. ⚠ shows warnings related to nozzle size, system size and pressure.
4. The dark-green part of the bar shows the speed range where the rate is slightly higher than the desired rate, to maintain optimal coverage.
5. The light-green part of the bar shows the speed range where the SSP system maintains exactly the desired rate.
6. In the orange area, the SSP system is unable to regulate, which may cause skips in the field. The valve will be fully (100%) open, leading to overdosing.
7. Beyond the orange area, the system will start underdosing.
8. The red area indicates a speed range where the system cannot reach the application rate due to system limitations, which therefore leads to underdosage.



DYNAMICDOSEPLUS

This option shows the application rate range for each nozzle size at a given speed. You can add multiple applications using the following button:



For each application, set the speed, nozzle pressure and liquid fertilizer. Optionally, you can give the application a name and a goal application rate.

1 Delete Application name

Speed ? Nozzle pressure ? Liquid fertilizer ? Goal application rate ?

8 km/h 3 Bar No 270 ltr/ha

If these parameters are filled in, the nozzle calculator will show the application rate range for all nozzle sizes at the selected driving speed:



1. Nozzle size.
2. Set pressure in EcoTronicPlus, to compensate for pressure drop over the SSP valve.
3. shows the warnings regarding the nozzle and system size and pressure.
4. The light-green part of the bar shows the application rate range where the SSP system maintains exactly the desired rate, at a fixed speed.
5. The system cannot change the application rate outside the light-green region.



ADVANCED SELECTION

This option shows the Broadcast and **DynamicDosePlus** option in one page for only two nozzle sizes. This option provides a clearer overview for choosing between two nozzle sizes. It shows a more compact version of the Broadcast and **DynamicDosePlus** option. It works similarly to the separate pages of these options.

Select two nozzle sizes to use the calculator:

Model CV55, CV67, CE80	Boom width 36 m	Nozzle spacing 25 cm	Instructions Show Hide	Measurement Metric Imperial	Speed Km/h Mph	Save as
Broadcast		DynamicDosePlus		Advanced Selection		Turn compensation
01 015 02 025 03 035 04 05 06 08 10 01 015 02 025 03 035 04 05 06 08 10						

It is possible to switch between a Broadcast and a **DynamicDosePlus** application by clicking on the application type:

1 Delete

Broadcast

DynamicDosePlus

Application name

Application rate

200

ltr/ha

Nozzle pressure

3

Bar

Liquid fertilizer

No

Goal speed

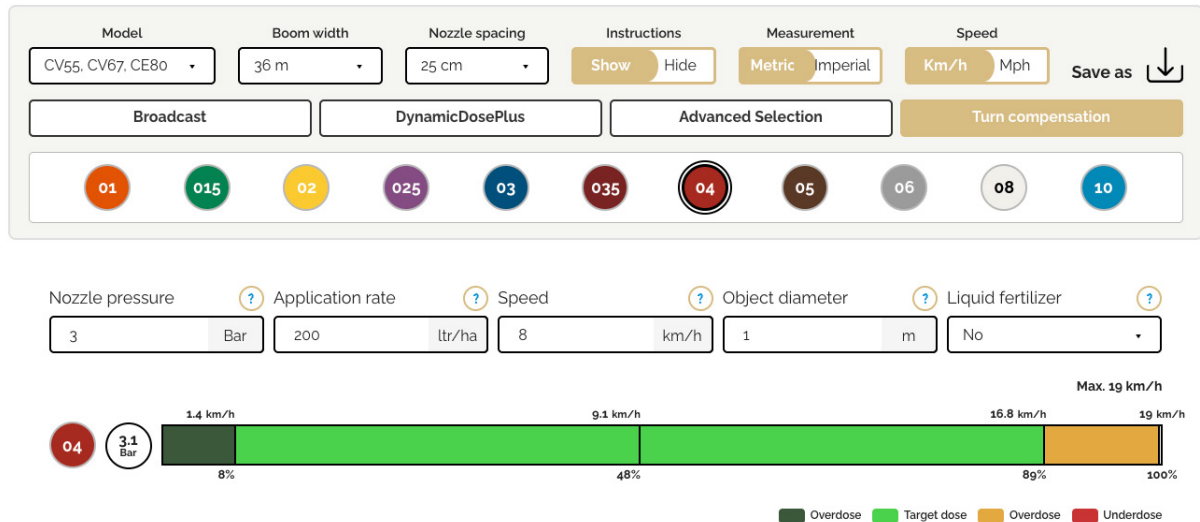
km/h



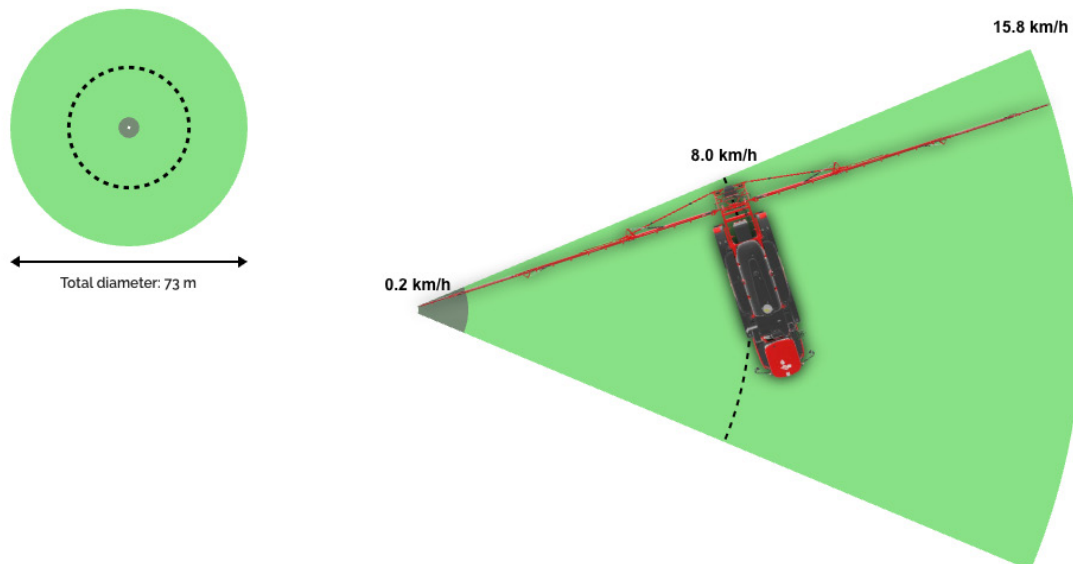
TURN COMPENSATION

This option shows if turn compensation can reach the desired application rate across the entire boom width, depending on driving conditions.

For each application, set the application rate, nozzle pressure, liquid fertilizer, nozzle size, object diameter, and speed.



The speed of the boom tips is sensitive to the object diameter. Click the question mark next to object diameter to find example use cases for object diameters.



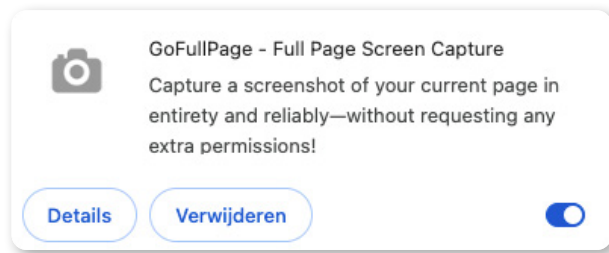


SAVE THE PAGE

Using the 'Save as' button, you can save the current page:

Save as 

The downside is that the layout may not be captured completely. Alternatively, you can use a browser extension. For example, the GoFullPage extension for Chrome.



**Installing the extension
is at your own risk.**

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