

H.S.S.

Hol Spraying Systems

Since 2010

High quality orchard sprayers

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Description nozzle calculator.

With the H.S.S. nozzle calculation it is very easy to find out which nozzle is perfect for your orchard sprayer and method. If you start the nozzle calculation you will see a lot of different numbers. On the left side it is possible to fill in data.

Step-by-step plan to find the perfect cap:

1. **Row distance:** The distance between the rows must be filled in here (**in meters!**)
2. **Liters per ha:** Enter the desired quantity of liters per hectare here. This is different for every grower.
3. **Driving speed:** Enter here with which speed will be driven through the orchard.
4. **Amount of nozzles:** Fill in the amount of nozzles per spray tower.
5. After filling in this data the calculator automatically finds the best pressure en nozzle for the method you are using. The best value is selected in the numbers section on the right side. Above this number you will see which colour ISO coded cap you should use. On the left side you see with which pressure you should spray.*
6. The calculator also displays the total amount of liters per minute, the liters per minute per spray side (H.S.S. only) en the liters per minute per nozzle.

*The calculator always selects a pressure between 6 and 9 bar. The pressure between them gives the best spray pattern.

Nozzle calculation for ISO coded caps (drift arm)

Note: you have to calculate the amount of nozzles per spray tower for a three row sprayer.

Row distance ¹	<input type="text" value="3.25"/>	75,00% (driftreductie)	75,00% (driftreductie)	90,00% (driftreductie)	90,00% (driftreductie)	90,00% (driftreductie)	
Liters per ha ²	<input type="text" value="250"/>	Purple	Pink	Orange	Green	Yellow	
Driving speed ³	<input type="text" value="8"/>	code 0050	code 0075	code 01	code 015	code 02	
Amount of nozzles ⁴	<input type="text" value="16"/>	Bar					
Liters per min.	<input type="text" value="10,83"/>	2	0,16	0,29	0,35	0,51	0,67
Liters per min. (H.S.S. only)	<input type="text" value="5,42"/>	3	0,20	0,33	0,41	0,61	0,81
Liters per min. per nozzle	<input type="text" value="0,68"/>	4	0,22	0,36	0,47	0,70	0,92
		5	0,25	0,39	0,52	0,77	1,03
		6	0,27	0,42	0,57	0,85	1,13
		7	0,31	0,46	0,61	0,92	1,22
		8	0,33	0,49	0,65	0,98	1,31
		9	0,35	0,52	0,69	1,04	1,39
		10	0,37	0,55	0,73	1,10	1,46
		11	0,38	0,57	0,77	1,15	1,53
		12	0,40	0,60	0,80	1,20	1,60
		13	0,42	0,62	0,83	1,25	1,67
		14	0,43	0,65	0,86	1,30	1,73
		15	0,45	0,67	0,89	1,34	1,79

Print calculation