

Vredo DZ 5 Calibration

Things you will need

- Excel Sheet – provided
- Scale that can measure in grams
- Seed
- Vredo Operating Manual - stored inside seed hopper
- Your desired seeding rate



Steps to Calibrate Vredo DZ5

- Using the DZ 5 Calculator Excel Sheet, enter your desired rate in EITHER lbs per Acre or lbs per M

After entering value
move to seeder

Vredo **DZ5 series**

Calculator for Determining 'Value' factor for Variator Setting when Calibrating the Vredo DZ5 Series Seeders

1.) Determine desired seeding rate in pounds per 1,000 sq. ft. (**a.**) or pounds per acres (**b.**). Use appropriate calculator below and insert seeding rate value in box (**a. or b.**)

2.) Follow the instructions on pages **15-20** of the Vredo Operator Manual for the DZ5 Series to collect the seed in the calibration tray. Enter the weight (**in grams**) of the **seed only** in box **c.**

When using a Pounds *per 1,000 square feet* Seeding Rate Calculator

a. Desired seeding rate of **pounds per 1,000 square feet.**

c. Weight of seed (**grams**) collected in tray after 10 revolutions of the crank grip.

d. Value Number to determine Position Variator

When using a Pounds *per acre* Seeding Rate Calculator

b. Desired seeding rate of **pounds per acre**

c. Weight of seed (**grams**) collected in tray after 10 revolutions of the crank grip.

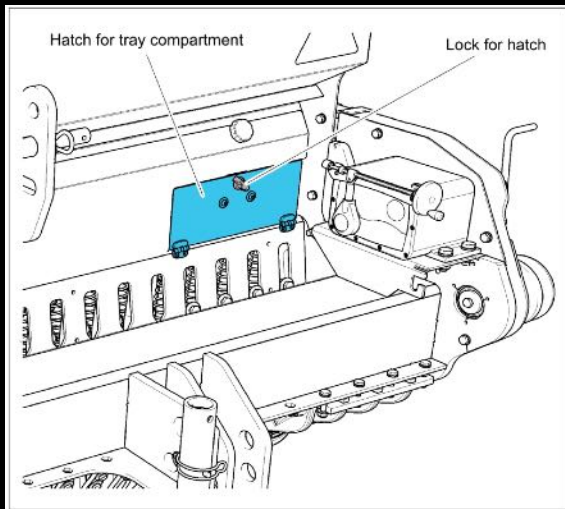
d. Value Number to determine Position Variator

3.) Use the Calculated Value (**d.**) to determine the Position Variator Setting using the Vredo Charts on page 14 of the Operator's Manual. Use the correct chart to match your seeder. Single or Duo.

Steps to Calibrate Vredo DZ5

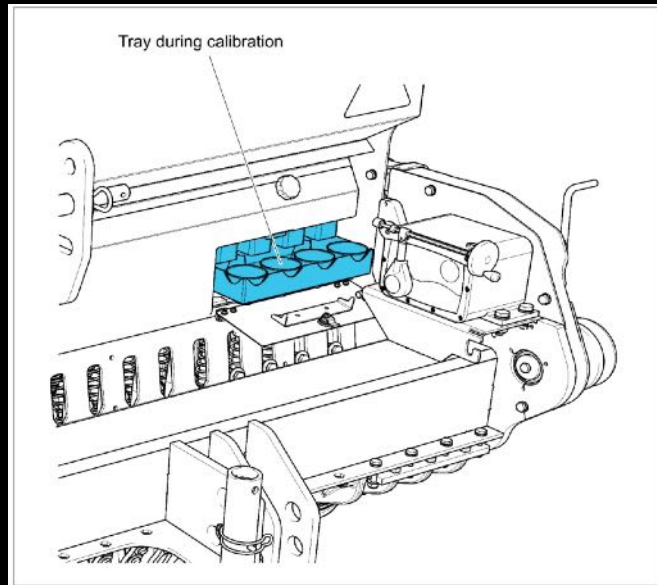
Move to Seeder

- Remove the calibration handle and calibration tray from seeder.
- Calibration tray located on back of seeder HERE. Open tray door and remove.
- Calibration handle located next to variator box



Steps to Calibrate Vredo DZ5

- Weigh the calibration tray in grams.
- The tray is stamped with 235 grams as a tare weight, but we are finding the weights vary so be sure to verify the actual tray weight.
- Reinsert tray, but only partially so seed can fall into flat part of tray.



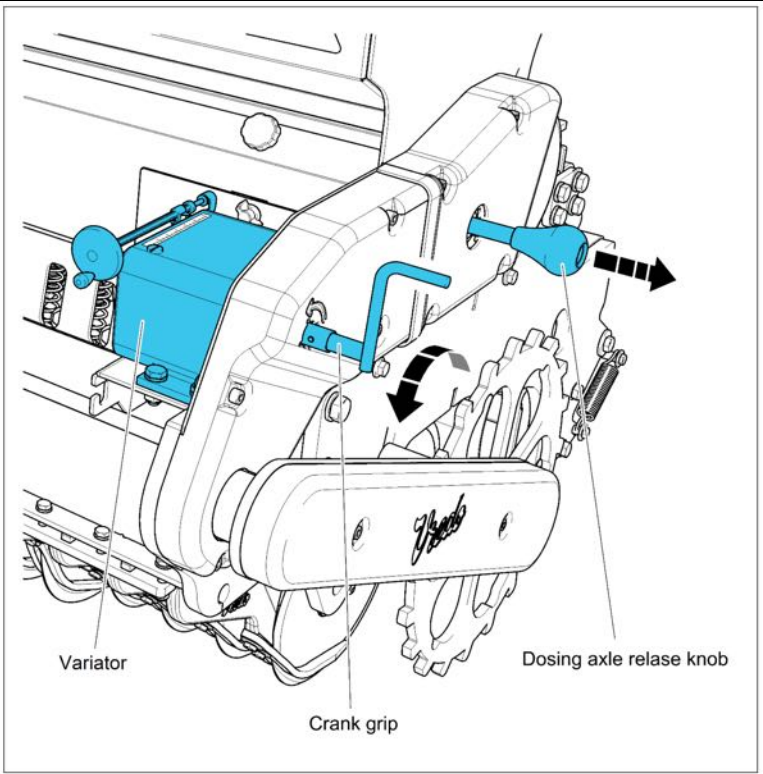
Calibration Position



Seeding Position

Steps to Calibrate Vredo DZ5

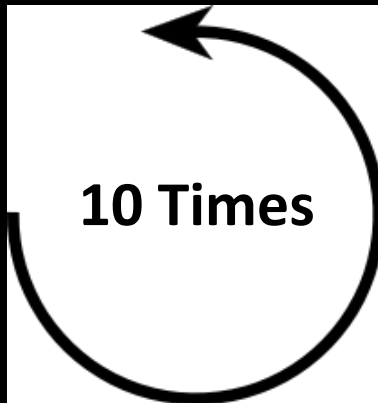
- Take calibration handle and insert here



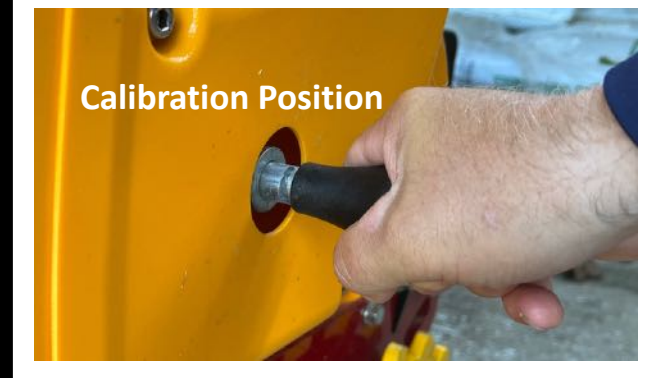
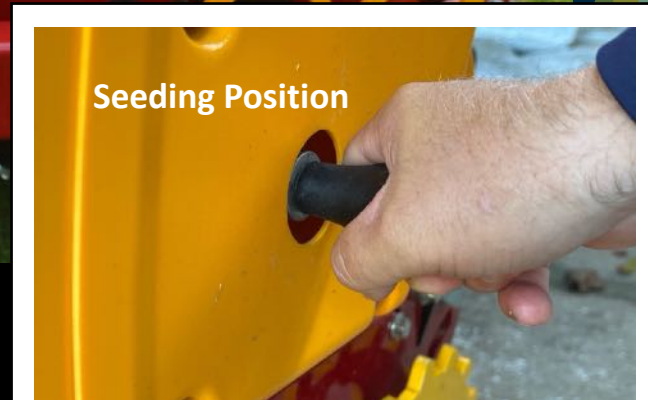
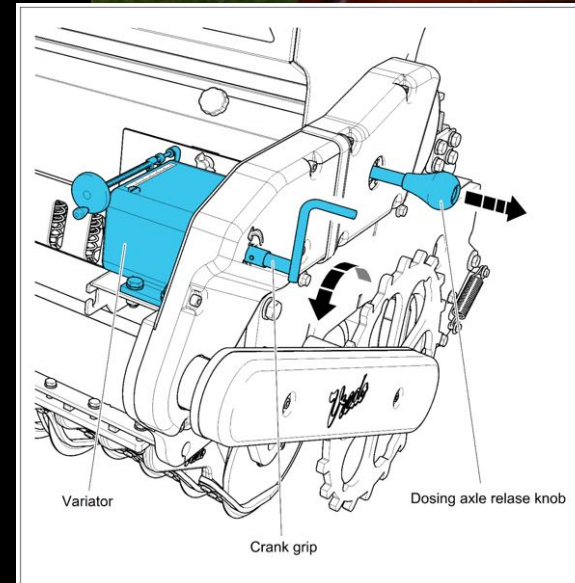
Steps to Calibrate Vredo DZ5

Priming seeder

- Pull handle out to engage calibration dosing system.
- Turn calibration handle counter-clockwise 10 times



- This process primes the seeder with seed.



Steps to Calibrate Vredo DZ5

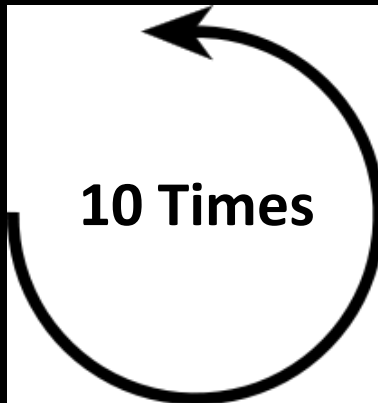
- Remove calibration tray and ensure seed has been delivered evenly in the tray.
- Dump seed back in seed hopper.
- Replace calibration tray partially to begin calibration process.



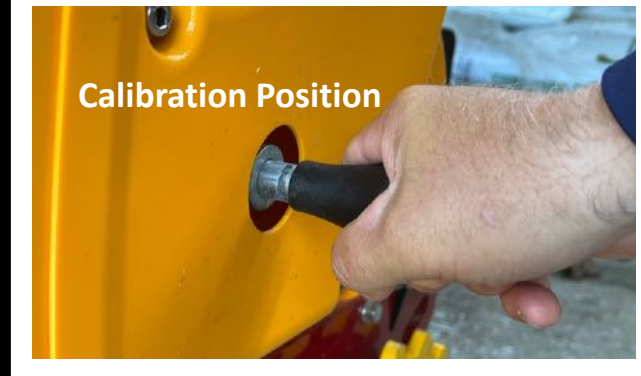
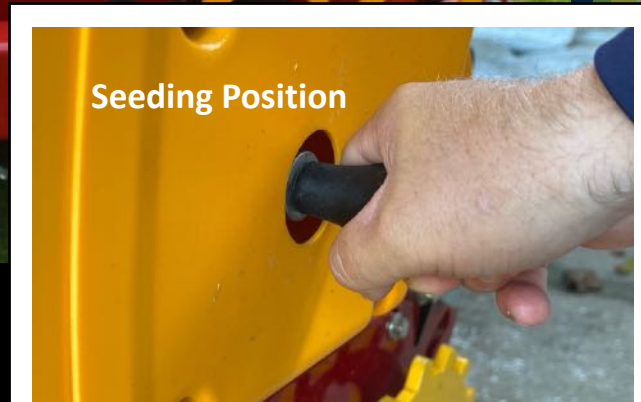
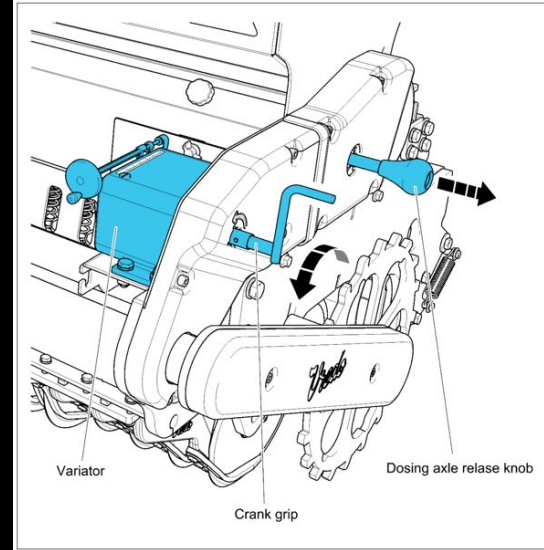
Steps to Calibrate Vredo DZ5

Priming seeder

- Pull handle out to engage calibration dosing system.
- Turn calibration handle counter-clockwise 10 times



Carefully remove calibration tray and weigh the tray to determine the weight of seed in grams.

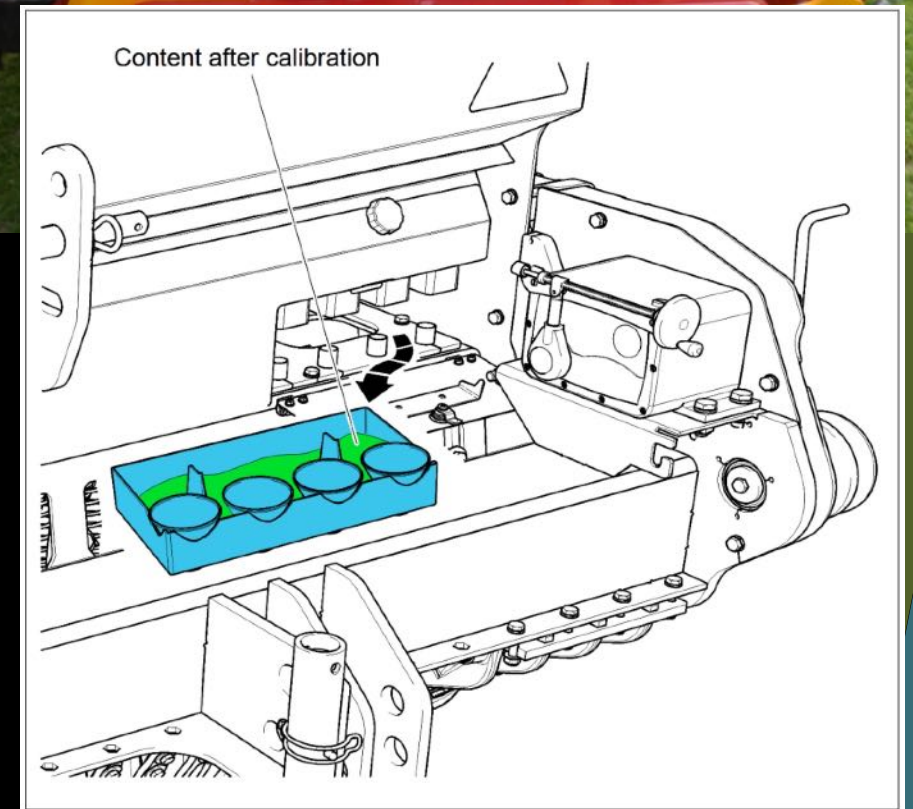
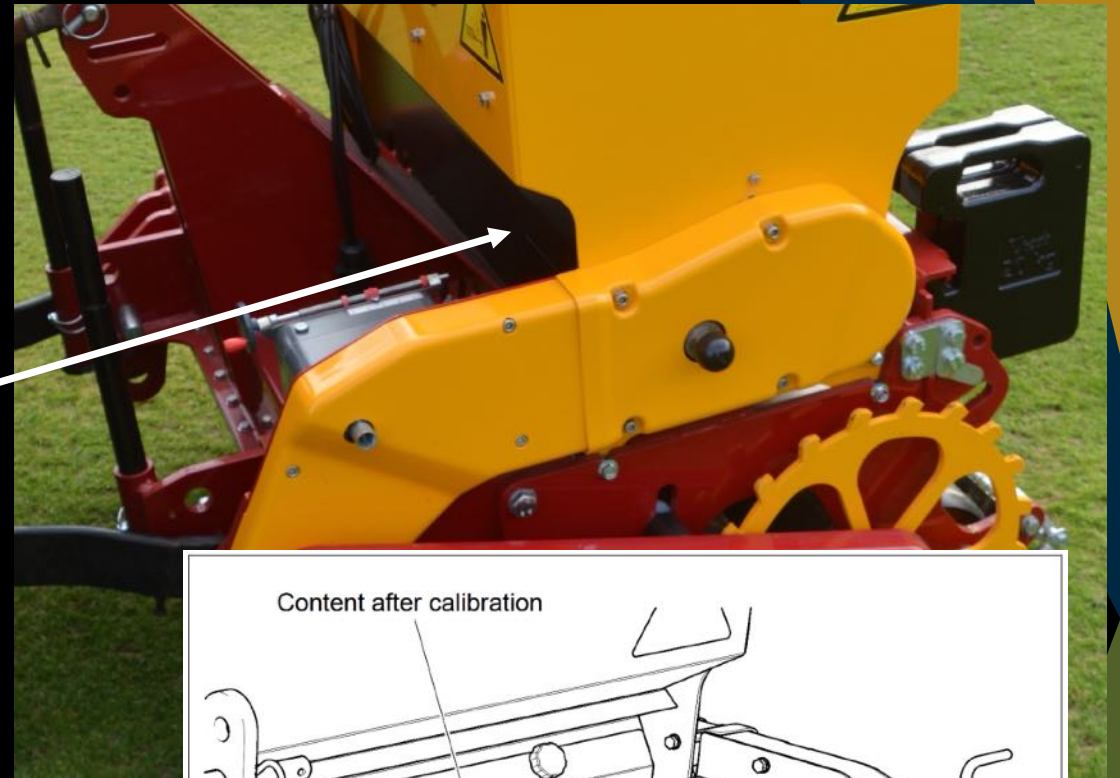


Steps to Calibrate Vredo DZ5

Calibrating Seeder



- Carefully remove calibration tray.
- Weigh the tray and determine the seed weight in grams. DO NOT count the weight of the calibration tray.
- ONLY use the weight of the collected seed.

**Take weight of seed back
to Excel Sheet**



Steps to Calibrate Vredo DZ5

- Enter the seed captured in grams in the Excel sheet [HERE](#) for lbs per M calibration.
- Enter the seed captured in grams in the Excel sheet [HERE](#) for lbs per Acres calibration.



Calculator for Determining 'Value' factor for Variator Setting when Calibrating the Vredo DZ5 Series Seeders

1.) Determine desired seeding rate in pounds per 1,000 sq. ft. (**a.**) or pounds per acres (**b.**). Use appropriate calculator below and insert seeding rate value in box (**a. or b.**)

2.) Follow the instructions on pages **15-20** of the Vredo Operator Manual for the DZ5 Series to collect the seed in the calibration tray. Enter the weight (**in grams**) of the **seed only** in box **c.**

When using a Pounds *per 1,000 square feet* Seeding Rate Calculator

a. Desired seeding rate of **pounds per 1,000 square feet**.

c. Weight of seed (**grams**) collected in tray after 10 revolutions of the crank grip.

d. Value Number to determine Position Variator

When using a Pounds *per acre* Seeding Rate Calculator

b. Desired seeding rate of **pounds per acre**

c. Weight of seed (**grams**) collected in tray after 10 revolutions of the crank grip.

d. Value Number to determine Position Variator



3.) Use the Calculated Value (**d.**) to determine the Position Variator Setting using the Vredo Charts on page 14 of the Operator's Manual. Use the correct chart to match your seeder. Single or Duo.

Steps to Calibrate Vredo DZ5

- The Excel sheet will output a value in Box D.

Here
or
Here



 	
Calculator for Determining 'Value' factor for Variator Setting when Calibrating the Vredo DZ5 Series Seeders	
1.) Determine desired seeding rate in pounds per 1,000 sq. ft. (a.) or pounds per acres (b.). Use appropriate calculator below and insert seeding rate value in box (a. or b.)	
2.) Follow the instructions on pages 15-20 of the Vredo Operator Manual for the DZ5 Series to collect the seed in the calibration tray. Enter the weight (in grams) of the seed only in box c.	
When using a Pounds <i>per 1,000 square feet</i> Seeding Rate Calculator	
a.	<input type="text" value="2.6"/> Desired seeding rate of pounds per 1,000 square feet .
c.	<input type="text" value="115"/> Weight of seed (grams) collected in tray after 10 revolutions of the crank grip.
d.	<input type="text" value="0.90"/> Value Number to determine Position Variator
When using a Pounds <i>per acre</i> Seeding Rate Calculator	
b.	<input type="text" value="0"/> Desired seeding rate of pounds per acre
c.	<input type="text" value="0"/> Weight of seed (grams) collected in tray after 10 revolutions of the crank grip.
d.	<input type="text" value="#DIV/0!"/> Value Number to determine Position Variator
3.) Use the Calculated Value (d.) to determine the Position Variator Setting using the Vredo Charts on page 14 of the Operator's Manual. Use the correct chart to match your seeder. Single or Duo.	

Steps to Calibrate Vredo DZ5

- Take the Value from Box D and reference the **Dosing Chart** on page 14 in the Vredo Operator Manual.
- BE SURE to use the appropriate Dosing Chart for the seeder you are calibrating..

Dosing Chart

Vredo Single			
Variator setting			
value	Position variator	value	Position variator
	0	1.92	2.3
-	0.1	1.78	2.4
36.49	0.2	1.69	2.5
24.63	0.3	1.55	2.6
14.59	0.4	1.51	2.7
12.22	0.5	1.46	2.8
9.67	0.6	1.41	2.9
8.21	0.7	1.37	3
6.84	0.8	1.23	3.1
5.84	0.9	1.19	3.2
5.29	1	1.17	3.3
4.74	1.1	1.11	3.4
4.20	1.2	1.06	3.5
3.83	1.3	1.02	3.6
3.65	1.4	0.99	3.7
3.10	1.5	0.97	3.8
2.92	1.6	0.91	3.9
2.83	1.7	0.87	4
2.65	1.8	0.84	4.1
2.37	1.9	0.82	4.2
2.28	2	0.80	4.3
2.10	2.1	0.77	4.4
2.01	2.2	0.73	4.5

Turn crank handle 10 revolutions
calibration weight (gr) / kg/Ha = value



Vredo duo			
Variator setting			
value	Position variator	value	Position variator
-	0	0.96	2.3
-	0.1	0.89	2.4
18.24	0.2	0.84	2.5
12.31	0.3	0.78	2.6
7.30	0.4	0.75	2.7
6.11	0.5	0.73	2.8
4.83	0.6	0.71	2.9
4.10	0.7	0.68	3
3.42	0.8	0.62	3.1
2.92	0.9	0.59	3.2
2.65	1	0.58	3.3
2.37	1.1	0.56	3.4
2.10	1.2	0.53	3.5
1.92	1.3	0.51	3.6
1.82	1.4	0.49	3.7
1.55	1.5	0.48	3.8
1.46	1.6	0.46	3.9
1.41	1.7	0.43	4
1.32	1.8	0.42	4.1
1.19	1.9	0.41	4.2
1.14	2	0.40	4.3
1.05	2.1	0.38	4.4
1.00	2.2	0.36	4.5

Turn crank handle 10 revolutions
calibration weight (gr) / kg/Ha = value

Single compact

Super compact

Steps to Calibrate Vredo DZ5

Calculator for Determining 'Value' factor for Variator Setting when Calibrating the Vredo DZ5 Series Seeders

1.) Determine desired seeding rate in pounds per 1,000 sq. ft. (a.) or pounds per acres (b.). Use appropriate calculator below and insert seeding rate value in box (a. or b.)

2.) Follow the instructions on pages 15-20 of the Vredo Operator Manual for the DZ5 Series to collect the seed in the calibration tray. Enter the weight (in grams) of the seed only in box c.

When using a Pounds per 1,000 square feet Seeding Rate Calculator

a. Desired seeding rate of pounds per 1,000 square feet.

c. Weight of seed (grams) collected in tray after 10 revolutions of the crank grip.

d. Value Number to determine Position Variator

When using a Pounds per acre Seeding Rate Calculator

b. Desired seeding rate of pounds per acre

c. Weight of seed (grams) collected in tray after 10 revolutions of the crank grip.

d. Value Number to determine Position Variator

3.) Use the Calculated Value (d.) to determine the Position Variator Setting using the Vredo Charts on page 14 of the Operator's Manual. Use the correct chart to match your seeder. Single or Duo.

Take the value from Box D in the Excel sheet. Be sure to use the value from the appropriate box you have used for calibration.

Match it to the column on the appropriate **Dosing Chart** in the Value column.

This will show you what to set the Variator to achieve your desired rate.

In this example the **Value = .9** this will make the **Variator = 3.9**

Vredo Single			
Variator setting			
value	Position variator	value	Position variator
-	0	1.92	2.3
-	0.1	1.78	2.4
36.49	0.2	1.69	2.5
24.63	0.3	1.55	2.6
14.59	0.4	1.51	2.7
12.22	0.5	1.46	2.8
9.67	0.6	1.41	2.9
8.21	0.7	1.37	3
6.84	0.8	1.23	3.1
5.84	0.9	1.19	3.2
5.29	1	1.17	3.3
4.74	1.1	1.11	3.4
4.20	1.2	1.06	3.5
3.83	1.3	1.02	3.6
3.65	1.4	0.99	3.7
3.40	1.5	0.97	3.8
2.92	1.6	0.91	3.9
2.83	1.7	0.87	4
2.65	1.8	0.84	4.1
2.37	1.9	0.82	4.2
2.28	2	0.80	4.3
2.10	2.1	0.77	4.4
2.01	2.2	0.73	4.5

Turn crank handle 10 revolutions
calibration weight (gr) / kg/Ha = value

Vredo duo			
Variator setting			
value	Position variator	value	Position variator
-	0	0.96	2.3
-	0.1	0.89	2.4
18.24	0.2	0.84	2.5
12.31	0.3	0.78	2.6
7.30	0.4	0.75	2.7
6.11	0.5	0.73	2.8
4.83	0.6	0.71	2.9
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2.65	1	0.58	3.3
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2.10	1.2	0.53	3.5
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1.46	1.6	0.46	3.9
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1.14	2	0.40	4.3
1.05	2.1	0.38	4.4
1.00	2.2	0.36	4.5

Turn crank handle 10 revolutions
calibration weight (gr) / kg/Ha = value

Single compact

Super compact

Steps to Calibrate Vredo DZ5

- Set the Variator to the determined value **HERE**.

From Example we would set to 3.9

- Empty seed back into seed hopper.
- Return calibration tray fully into chamber so seed can fall through funnels for seeding.
- Push handle back in to return dosing system back into seed mode.

Seeder is now calibrated to your desired rate and ready to seed.

*** If you want to change your seeding rate, just change the rate on the excel sheet and follow steps to set Variator. If you change seed type you will need to start calibration process from beginning.**

