OPICO Vertikator seed box calibration test – Land drive wheel

Seed rate - to calculate the seed rate, apply the following formula: -

$$\frac{Area}{drive\ wheel\ circumference \times drive\ wheel\ turns \times working\ width} \times seed\ weight = Quantity\ seed\ /\ area$$

e.g.   To calculate seed rate in kg/ha

3mtr working width
1.72mtr drive wheel
50 drive wheel turns
0.6kg collected seed

$$\frac{10,000m^2}{1.72mtr \times 50 \times 3mtr} \times 0.6\ kg = 23.3\ Kg/ha$$

Place the calibration tray under the distributor outlets. Set the seed rate adjuster to required output (increments 0–30 scale, see table of approximate settings in operators manual), adjust outlet slides to suit the seed type. Using the calibrating turn handle on the land drive wheel axle, turn the drive wheel 50 times, collect and weigh the delivered seed in kg, multiply this weight by 38.8 to give a seed rate in kg/ha for a 3m Vertikator with 1.72m steel drive wheel. NOTE: when using a land drive wheel the effective drive wheel circumference will vary depending on the ground condition and moisture.

For more information on changing seed rates and settings please refer to the operators manual.

Table 1.   Calibration factor for different working widths using single drive wheel (on firm ground)

Working width	1.5m	2.5m	3.0m	
Factor for 1ha – 10,000m^2	77.5	46.5	38.8	Multiply calibrated seed weight by factor = weight / ha
Factor for 1ac - 4,047m^2	31.4	18.8	15.7	Multiply calibrated seed weight by factor = weight / ac