



A SMARTER WAY TO POLLINATE

INCREASE YIELD REDUCE COSTS OPTIMISE TIMING



Absolutely chuffed with the results, PollenSmart doubled our orchard's production.

Steve Rabbitts, *Kiwifruit Grower, Edgcumbe*



Pollensmart[™]

www.pollensmart.co.nz

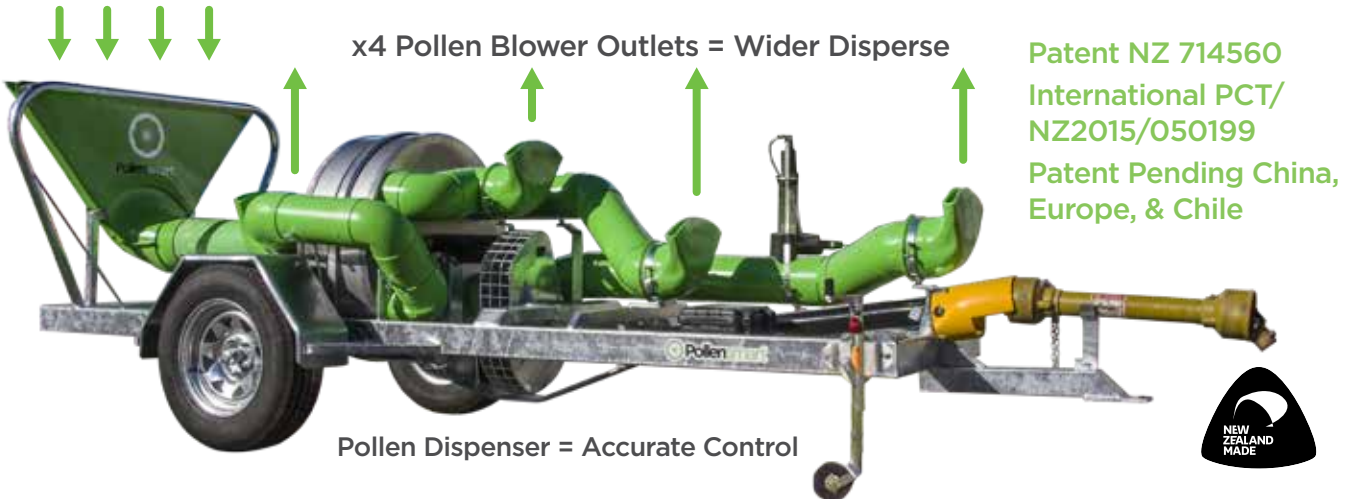
HOW IT WORKS

1. Pollen is placed into the dispenser which can be programmed to release the exact quantity required.

2. The fan blows the pollen onto the open flowers. There are 4 outlets 80cm apart, each blowing further air & pollen.

3. Any remaining pollen is sucked back into PollenSmart and recycled.

Vacuum Intake = Less Waste



INCREASE YIELD

- The **more often** a flower is pollinated the **bigger & better** the resulting fruit
- Multiple light applications give superior pollination results than a single pass with a heavy rate of pollen

- ✓ PollenSmart dispenses pollen into the air, then blows air and recovered pollen back at the flower to give a total of 4 pollinations per pass and near perfect pollination
- ✓ Especially effective in PSA compromised orchards as PollenSmart introduces fresh pollen rather than the orchards own
- ✓ Trials show \$10,000/Ha increase in OGR (income)

REDUCE COSTS

- At \$3,000/kg, pollen is a **precious commodity** not to be wasted
- **Save** on cost of bees & other means of pollination

- ✓ PollenSmart's rear vacuum sucks back in any unused pollen, recycling it and blowing it back at the flowers
- ✓ Utilise your existing tractor and time

OPTIMISE TIMING

- Kiwifruit flowers have a **very short window** for optimal pollination, lasting only a few days, and also a few hours in the day that are best
- Pollinating each flower at the right stage of opening results in a more evenly pollinated crop and a more consistent size of fruit
- ✓ Own your own PollenSmart and pollinate when you want, as often as you want without having to wait for a contractor
- ✓ Easily move between orchards

TRIAL RESULTS

Trials were conducted on several Bay of Plenty orchards in 2015/16 season.

Comparisons were made between 100 flower samples of:

- Perfectly pollinated flowers (by hand application)
- PollenSmart
 - 1, 2, or 3 applications
 - at light or heavy rate
- Bees only pollination



'Perfect' Pollination

Pollensmart 3 application @ 120g/ha

Bees Only x8 Hives/ha

Summary of Results for Fruit Number & Weight

1. **Pollensmart** matched 'Perfect' pollination in achieving 88% exportable fruit compared with 47% for 'Bees only' pollination
2. There was a **BIG** increase in bee activity under the canopy with **Pollensmart** pollination (up to 20 bees per bay).

Full Trial Results available on request



Pollensmart™

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