

ROCKET® RACK

BY TRENTCOM APS

Rocket® Rack is a portable Flood & Drain rack. Fifty racks fit into a 40 ft shipping container. On delivery, racks are laid out in rows on rails as an “instant” nursery. Heating and ventilation is available within in each rack. Growing trees are flooded, typically twice a week. Floodwater drains back to a holding tank for re-use. Rain is harvested by the system. Racks are mass-produced for low cost. Rocket® Rack is especially suitable for the Rocket® Pot system.

INDUSTRIAL STENGTH
Australian Made from
Galvabond Steel

PRECISION MANUFACTURE
Laser cut & CNC Machined

VOLUME

500 Litres

Holds 50 qty 8 litre Rocket® Pots
or 200 qty 1.2 litre Rocket® Cells
(Available soon)

VERTICAL WALLS

Vertical walls allow roots to grow down and out naturally - unlike tapered pots which cramp roots just where they want to grow.

SEEDS SOWN DIRECT

Get the roots system right from day one.

Pot up from any size Rocket® Pot to any larger Rocket® Pot

WATER SAVING

Recycles its own water
Spray to germinate then
Flood twice a week

RAPID TREE GROWTH

Group 1

15months from SEED

Group 2

12 weeks from SEED

Group 3

3 weeks from SEED

BASE ROOTS GROW DOWN

Active root tips are ready to grow downward from the base

MEZZANINE FLOOR

Rocket® bases fit exactly to Rocket Racks to form a mezzanine floor for constant control of heating and humidity

ROCKET® MIX

A purpose designed growing medium with high water retention & low porosity
Propagate and grow in the same mix. No coarse particles to deflect the radicle
Pots can be supplied pre-assembled and pre-filled.

DIMENSIONS

INSIDE BATH 2277 X 1138 X 200
OVERALL 2305 X 1155 X 320



Group 2
Winter
grown trees
8 months
from seed

Background

Fifty Rocket® Racks were manufactured as a batch in winter 2005. 15 were installed at Raglan Meadows Nursery in Wonga Park, Victoria, for direct sowing trials. 35 are in current use at Berwick. See them on www.trentcom.com.au or inspect by appointment.

Trentcom now plans to manufacture a batch of an improved Rocket® Rack starting 1 May 2006. Orders are invited for inclusion in that batch.

Trentcom has sown Eucalypt seeds to 8 litre Rocket®Pots for four years with increasing success. The pots are seated on a very well drained mezzanine floor in the Rocket®Rack. Seed is pre-engorged and hand sown 2 or 3 seeds per 10 mm deep dibble hole, using simple hand tools.

Hand sowing has proved to be quick. The medium is flooded and saturated prior to sowing. Watering is by spraying frequently and lightly until the radicle reaches the pot base. After 2 small leaves appear, we cease spraying and rely on flood and drain watering twice a week at most – even in very hot weather.

Recommendations

- 1. Sow seed into the 3D air root-pruning container size in which the tree will be sold**
Our experience is that the bigger the 3D air root-pruning container the better the seedling
For 20+ mm caliper 1.8+ metre trees **sow** in 20 litre K3026 Rocket®Pot @ 21 pots/rack
For 10+ mm caliper 1+ metre trees **sow** in 8 litre K2026 Rocket®Pot @ 50 pots/rack
- 2. Tell** the end user about
The very short time it takes for Rocket®Trees radial array of active root tips to colonize the planting site and for the tree to reach self-sufficiency - saving water and maintenance. The downward growing active root tips under the root ball - ready to anchor the tree
- 3. Try** the relaxed nursery procedures, minimal water use and **no** pot handling
- 4. Feel** proud of the elegant ethical trees you produce

Availability.

Rocket®Rack with K2026 or K 3026 pots is available to order now.

Rocket®Pot KS1020 will be available in Y2007.

Ellegaard tubes are available

Notes

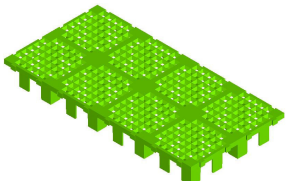
1. Trentcom will continue its trials with Rocket®Pot containers until it proves that the system can deliver at least two crops per year under Australian conditions. We expect that returns to investment will be very good at two or more crops per year.
2. Rocket® Rack and Rocket® Pot are re-use systems. They are designed for repeated re-use over many years.
3. We plan to use the stacking feature to fit a clip-on germination spray pack and cloche.
4. Rocket®Rack is still under test as a “beta” version. Five of the racks from this batch will be tested to destruction. Until those tests are complete and a safety report prepared, Rocket® Racks must not be filled with water while multi-stacked.
5. Please contact Peter Lawton on 0419 323 050 or email peter@trentcom.com.au for more details of this Rocket®Rack offer.

Designed, manufactured and sold by Trentcom APS Pty Ltd, Berwick 3806 VIC
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Rocket® Rack - Specifications - December 2006

Package		Specification	Order Code	
Rocket®Rack		500 litre portable flood and drain tank with replaceable liner, water inlet/outlet and overflow outlet, stacking lugs. Excludes nursery infrastructure items such as site preparation, water holding tank, paths, irrigation pipelines, pumps and power points, mounting rails and heating system.	One rack	Fifty Rack Pack
			RR01	RR50
Assembly			RRA1	RRA50
Mezzanine Floor		Modular aeration floor system	RPAD25	RPAD1250
Propagation Options	18 litre pot 21per rack	Rocket®Pot 30 cm diameter K3032 21 qty per rack with 420 litres of Rocket®Mix Status – Preferred option - Ready to sell - designed and produced in Australia	RRK18	RRK1850
	8 litre pot 50per rack	Rocket®Pot 20cm diameter 26 cm tall K2026 50 qty per rack - 2,500 per 40 ft TEU Includes 340 litres of Rocket®Mix Status – Preferred option - Ready to sell - designed and produced in Australia	RRK8	RRK850
	1.5 litre cell - 200 per rack	Rocket®Pot 100 mm square 200 mm tall - KS1020 1500 ml cells – 200 qty per rack or 10,000 per 40 ft TEU Includes 300 litres of Rocket®Mix per rack Status – Available 2007	RRK1.5	RRK1.550
Rack leveler leg option		Includes 8 brackets 16 bolts and 4 jack-legs that allow the rack to stand level on any nursery surface	RRLL1	RRLL50
Technology Transfer		Based on three years of trials with Eucalypts and Acacia	Training	

Nursery Floor - Specifications - December 2006

Nursery Floor	Specification	Order Code
	Modular Nursery Floor System - 10 pieces per square meter	RPAD1

Raglan Meadows Trials

Raglan Meadows took delivery of 15 Rocket® Rack Version 1 In October 2005.
Robert Harvey showed us his first direct sowing trials on March 27 2006.

He commented

“The trees produced with this system are of exceptional quality.
In the past five months we have produced the following trees from seed:

	Caliper (mm at 10% of height)	Height metres
<i>Acacia melanoxylon</i>	9-12	1.5
<i>Eucalyptus sideroxylon</i> Rosea	7-8	1.1
<i>Corymbia citriodora</i>	8-10	1.5
<i>Eucalyptus leucoxylon</i> Rosea	8	1.0

Robert explained that both lots of *Eucalyptus leucoxylon* ‘Rosea’ shown below were sown as seeds late in 2005.



The pots in the rack on the right were sown direct to 7 litre K2026 Rocket®Pot at end October 2005 and are now 8 mm caliper and 1 metre tall
The pots in the rack on the left were tube-stock purchased and potted up two weeks before the photograph was taken. At 5 months they were 400 mm tall with a caliper of 3 mm.

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