

ST1500 SEEDING LINE



Williams

Leading by Innovation



Williams ST1500 SEEDING LINE

FILLS SEEDS COVERS WATERS

1500 TRAYS PER HOUR

ADJUSTS TO FIT ALL TRAYS

*All known trays can be filled and
seeded with all types of seeds*



**DIBBER DRUM—PARABOLIC POINTS
SHAPE INDENTATION WITHOUT
COMPACTING THE GROWING MEDIA**



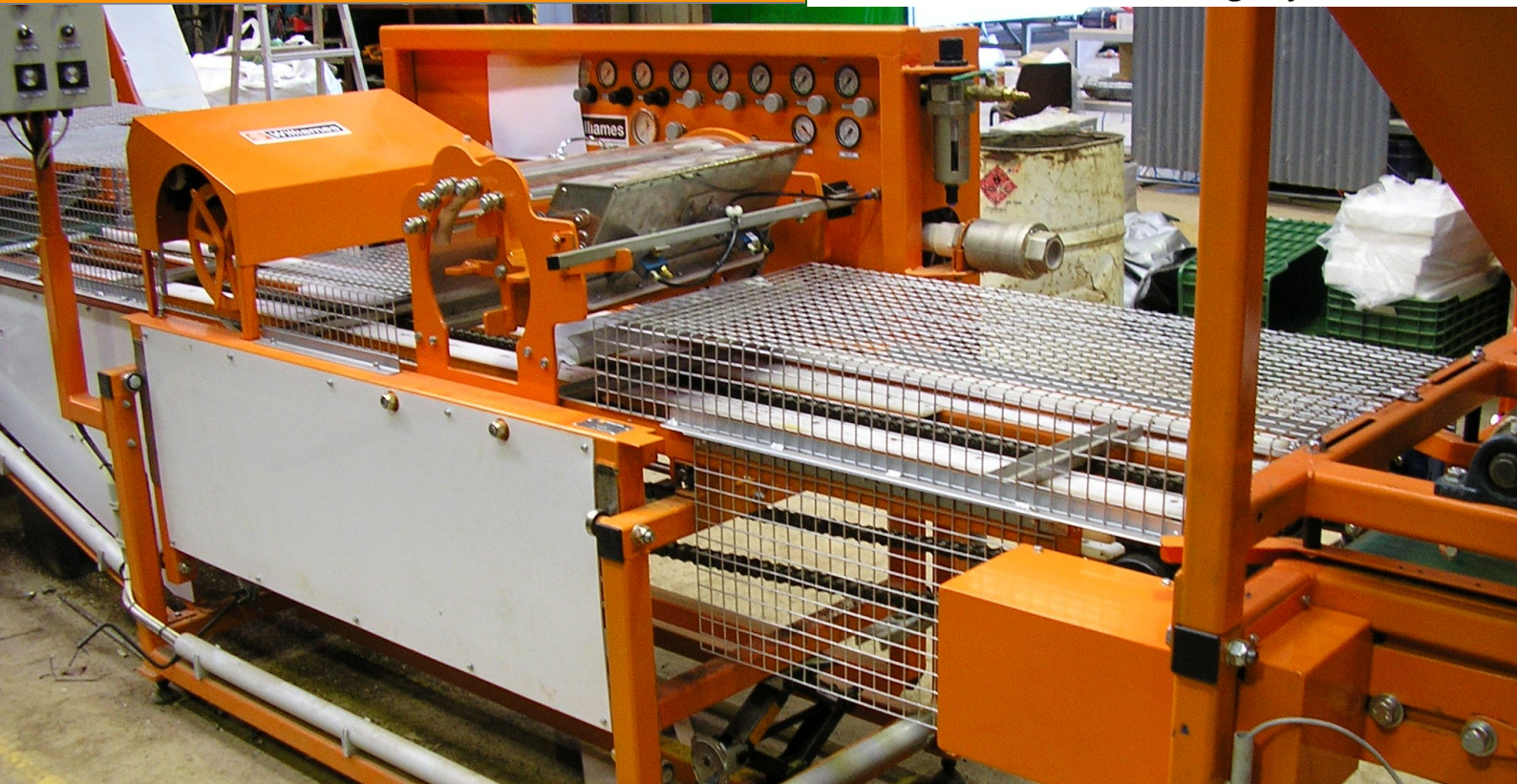
Williams Pty Limited
A B N 42 004 320 834
103 Butlers Track Warragul
Victoria 3820 Australia
phone: +61 3 5623 5755
fax: +61 3 5623 5165
email: sales@whiti.com.au
web: www.williames.com

ST1500 SEEDING LINE



Williames

Leading by Innovation



1500 SEEDER + MESH GUARD (ABOVE)

SOIL ACCELERATOR (BELOW)

Williames ST1500 Seeding Line combines several Williames machines to produce a throughput of up to 1500 trays per hour.

Williames ST1500 Seeding Line is fast and accurately achieves seed singulation. It is robustly constructed, extremely reliable, with low maintenance resulting in high productivity.

ST1500 SEEDING LINE INCLUDES

- FNC Filler
- ST1500 Seeder with 5 Singulator Bars
- Standard Motor and Gearbox on Conveyor
- Standard Drive Motors and Transmission
- Vacuum Pump
- V5 Vermiculite Coverer
- DC Watering Tunnel
- Stainless Steel Chains
- Single Pattern Seed Drum
- Dibber Drum
- Standard Seed Hopper
- Conveyor
- Single or three phase power

OPTIONS

- FNC Soil Accelerator (RIGHT)
- FNC Soil Rotor
- Needle Drum and Needle Hopper
- Pneumatic Vibrator for Seed Hopper
- Tray De-Stacker
- Digital Tray Counter
- V2 Vermiculite Coverer



ST1500 SEEDING LINE



Williames

Leading by Innovation



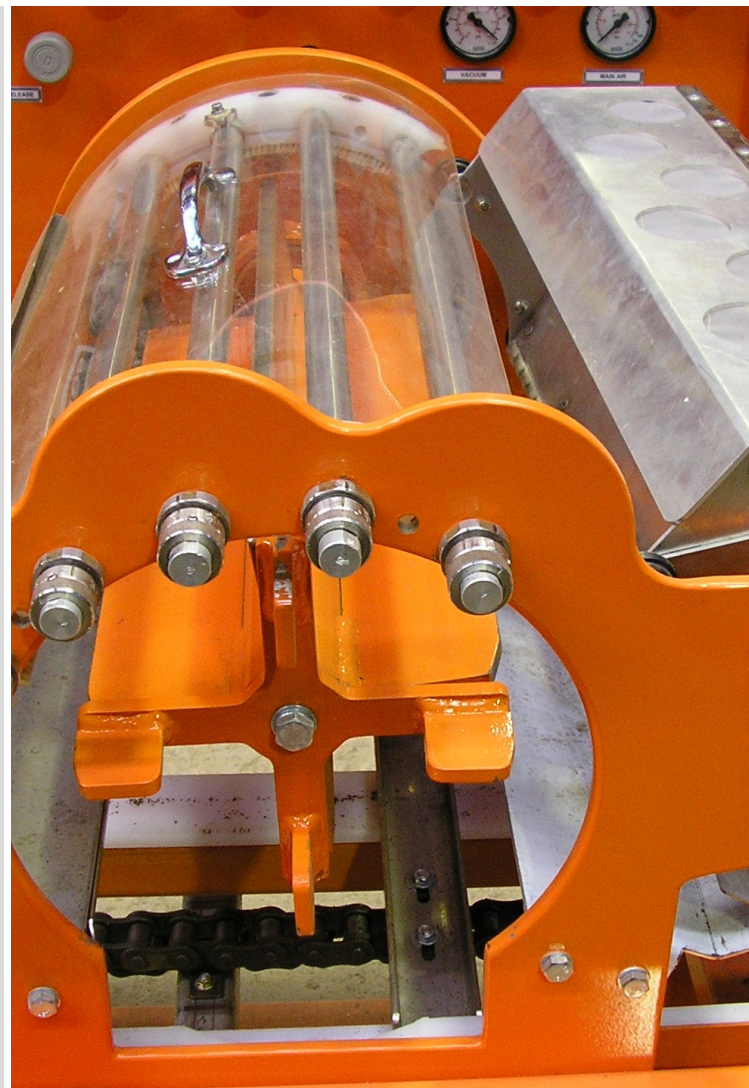
WILLIAMES ST1500 MEETS EU CERTIFICATION STANDARDS

ST1500 SEEDER — First, we ensure the indentation to take the seed is exactly centred in the cell and at the correct depth to suit the particular seed being sewn. This is achieved with the timed dibber and specially shaped convoluted dibber points.

Seeder head and singulator bars with variable vacuum control gives total singulation control to maintain absolute placement accuracy.

FEATURES

- Accurate seed placement at all speeds
- Cleated conveyor to positively engage the tray
- Simple operation and adjustments
- Timing is consistent regardless of the speed of seeding
- Seed drum, dibber drum and cleated conveyor are all directly driven together maintaining 100% accuracy and timing
- Accurate singulation achieved by 5 singulator bars (air brushes) on a large diameter seed drum
- Seeds can quickly be changed to sow different types of seeds
- Easy adjustment of the tray guide width



ST1500 SEEDING LINE



Williams

Leading by Innovation

FNC FILLER (RIGHT) fills a wide range of trays, pots & punnets at high speeds. It includes:

- Clod breaker, compaction roller and scraper, rotary brush, and powered levelling brush to adjust soil media density and control fill quality
- Integrated soil return units recycle soil mix to prevent wastage and soil contamination
- Fingertip controls vary the speed of soil flow filling the tray, soil density in the tray and tray speed
- Four (4) cubic metre capacity
- Robust constructions means low maintenance, high productivity—saving time and money

Further options include clod breaker, soil beater & powered feed roller.



PARALLELOGRAM (ABOVE) optional if required when tray height changes will be made regularly:

- ◇ Primary soil leveller
- ◇ Side cell compression wheels
- ◇ Soil levelling helicopter rotor
- ◇ Compression roller and scraper
- ◇ Twin-sided soil removal
- ◇ Soil scraper



ROTARY BRUSH (ABOVE) sweeps the top surface of the tray cells, adjusts soil media density and controls fill quality by ensuring that trays are not overfilled.



SOIL DENSITY CONTROL (BELOW)



BIN VIBRATOR (BELOW) is attached to both side walls of the FNC Feed Bin and helps loosen wetted or compacted medium from the sides of the Bin, and decreases the incidence of soil bridging.



ST1500 SEEDING LINE



Williams

Leading by Innovation

ST1500 SEEDER

- Suits a wide range of seeds
- Places a single seed per cell
- Multi seeds per cell available for some tray types
- Suits a wide range of types of trays
- Robustly constructed means reliability, low maintenance and high productivity

V5 VERMICULITE COVERER adds a covering layer to the tray (*i.e.*, vermiculite) after the tray has been seeded. The **V5** dispenses an even layer and can operate at variable speeds.

- Simple to operate
- Trays trip the automatic START / STOP activation
- Adjustable feed-gate
- Ribbed belt feed for precision dispensing of the cover
- Viewing glass allows the operator to assess the level of the hopper contents
- Single phase power
- Robustly constructed means reliability, low maintenance and high productivity

WILLIAMES DC WATERING TUNNEL is designed to water the tray after it has been filled, seeded and covered. Water is sprayed across the width of the tray as it passes underneath.

- The amount of watering can be easily adjusted to suit different requirements:
 - ◇ Some growers quickly transport seeded trays into the greenhouse and therefore only want the trays lightly dampened
 - ◇ Others want the seedlings soaked to ensure sufficient moisture content while plants are transported a considerable distance from the nursery
- Robustly constructed in stainless steel means reliability, low maintenance and high productivity

OPTION

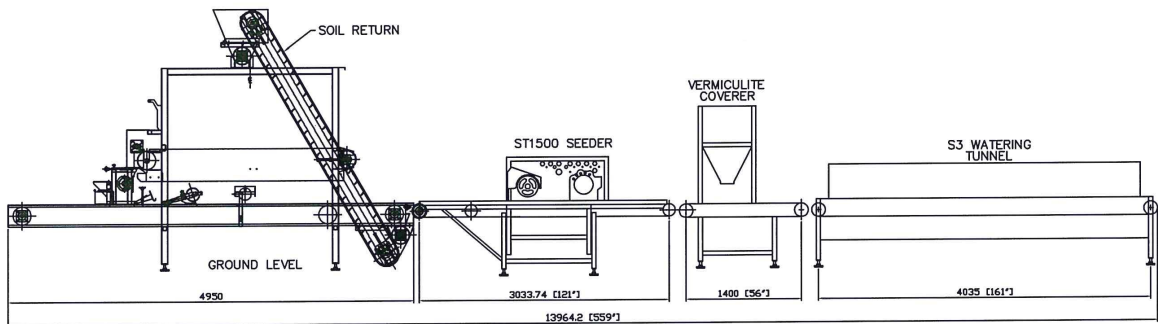
- **Extra wide DC Watering Tunnel** (*right*) to take trays two-by-two, sideways



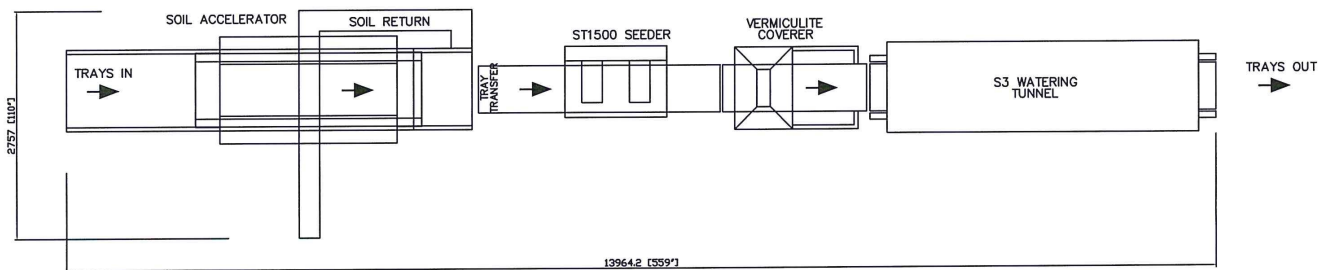
ST1500 SEEDING LINE



Leading by Innovation



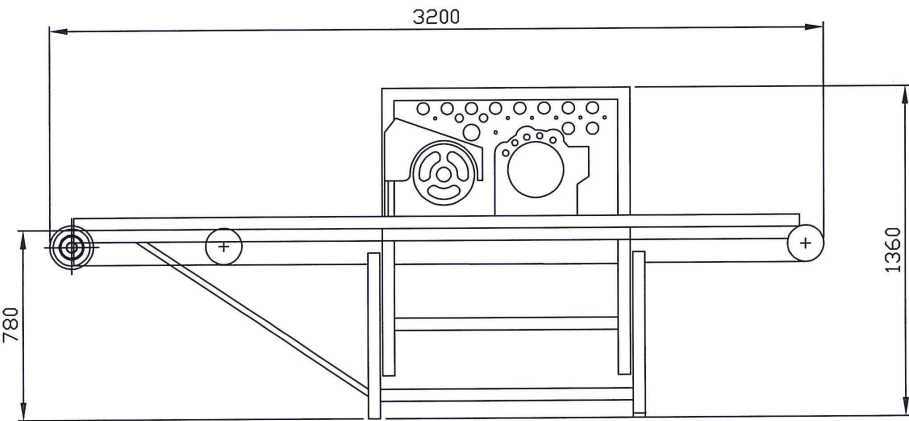
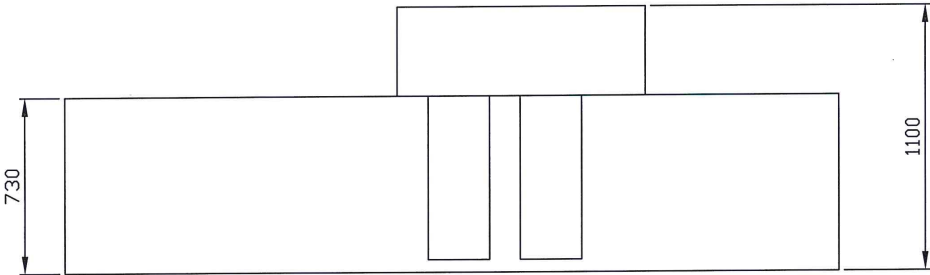
SIDE ELEVATION



PLAN

NOTE !!!
DIMENSIONS ARE APPROX ONLY

ITEM	PART No	DESCRIPTION	QTY
UNAUTHORISED COPYING OF THIS DRAWING IS STRICTLY PROHIBITED			
MACHINE NAME:	DRG No. A0	ST1500 SEEDING LINE	REV
SEEDING LINE ST1500	MAT'L		QTY: 1
DRAWING TITLE:			OFF
SEEDING LINE	DRAWN: D.ROBB	DATE: 23-04-07	
WILLAMES PTY LTD	CHK'D:	WEIGHT: 88888kg	
VILLS STREET VERRILL, VICTORIA AUSTRALIA 3828	SCALE: NTS	GEN TOL: ±0.125	



ST1500 SEEDER

ITEM	PART No	DESCRIPTION	QTY
UNAUTHORISED COPYING OF THIS DRAWING IS STRICTLY PROHIBITED			
MACHINE NAME:	DRG No. A0	ST1500 SEEDER	REV
ST1500 SEEDER	MAT'L		QTY: 1
DRAWING TITLE:			OFF
SEEDING LINE LAYOUT	DRAWN: D.ROBB	DATE: 23-04-07	
WILLAMES PTY LTD	CHK'D	WEIGHT: 88888kg	