

MIN-TILL TINE SEEDER



Precision Seeding Equipment

As one of the leaders in the design, manufacturing and global distribution of agricultural implements, Equalizer produces quality precision seeding equipment. These machines have been tested and proven in Australian conditions, they are built to last and are extremely durable.



ABOUT EQUALIZER

Equalizer was founded on a farm on the Western Cape of South Africa in 2000. For over 20 years they have produced world class seeding machines, specialising in larger broadacre equipment. They have in excess of 60 dealers across Africa, Australia, Canada and Eastern Europe.

The Equalizer production facility is based in Brackenfell Cape Town, and currently occupies over 1 hectare. Equalizer's entire build process from raw steel through to their final product, takes place on a single state-of-the-art production line. Their team includes 160 personnel with the facility producing on average one machine per day.



PARTNERSHIP WITH WARINGA

Waringa is the proud distributor of Equalizer's precision seeding equipment across Australia. Waringa works closely with our manufacturers to develop and adapt products for our unique Australian conditions.

Waringa also played a key role in the testing and development of the Equalizer 24m Tine Seeder bar. This unit has been utilised in our farming operations, rigorously tested throughout this process, and continues to exceed expectations.



EQUALIZER PRECISION SEEDING EQUIPMENT RANGE

The Equalizer seeder range includes Min-Till Tine Seeders, No-Till Disc Seeders and Tow-Behind/Between Air Carts. The precision technology behind each option and configuration will benefit all types of programs, sizes, and terrains.



MIN-TILL TINE SEEDERS

The Equalizer Tine Seeder is suited to a variety of soils and stubble conditions whilst still ensuring precise and accurate seeding. Available 9m, 12m, 15m, 18m and 24m seeding widths with row spacing of 273mm (10.7") and 300mm (11.8").



NO-TILL DISC SEEDERS

The Equalizer Disc Seeder is available for the growers with high stubble content and looking for a No-Till management system. Disc Seeders are available in working widths of 7.5m, 9m and 12m with row spacing of 228mm (9") and 381mm (15").



AIR CARTS

Equalizer Air Carts have a compact tank design, individual scales and ISOBUS. With individual tank load cells, the operator has the ability to auto-calibrate and adjust seeding rates from the cabin during operation. Equalizer Air Carts are available in tow-behind and tow-between configurations.

MIN-TILL TINE SEEDER

More options to suit your soil needs

With the high costs of seed and inputs in the seeding process, accuracy in seed placement for germination and harnessing the available soil moisture is critical for maximising the return in yields.

The Equalizer Tine Seeder has a variety of options to suit your specific soil needs including single or double chute seeding boots, 4 tine knife points, 2 press wheel alternatives, fertiliser placement options, and seed depth control. There's an Equalizer Tine Seeder for every farming operation!



THE TINE KNIFE

Choosing the right tine knife point for your application is key in achieving the correct soil penetration and disturbance, opening the furrow and accurately placing the fertiliser. Equalizer offer 4 alternative knife points that cater for varying soil conditions. Liquid fertiliser application behind the knife is also offered as required.

Options include:

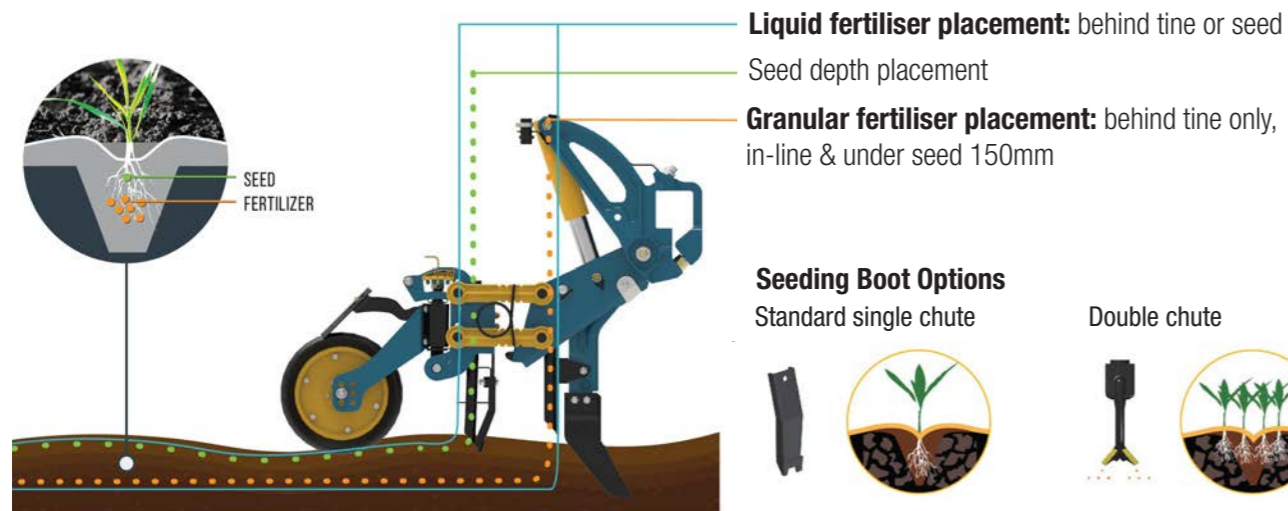
- **Short Narrow:** maximum depth of 75mm, can imitate disc seeder level of disturbance.
- **Narrow 10mm:** for minimal soil disturbance.



- **16mm:** extra durability in hard, rocky conditions.
- **Aerator:** for soils prone to compaction and where knife point tends to smear side walls.

SEED PLACEMENT

Equalizer have developed a unique system to allow the operator to make finite adjustments in seed depth, all at the touch of the spring loaded, depth adjustment clip. Changing the seed depth requires minimal to no tools. With 5 coarse depth adjustments and 4 half adjustments, your seed depth accuracy will never fail.



1 KNIFE POINT OPTIONS

Several tine knife point options are available. Tine knives are high wearing, tempered and hardened steel with bonded tungsten tiles for long term impact rigidity.

2 GRANULAR FERTILISER TUBE

The granular fertiliser tube is placed behind the tine knife to protect it from oncoming obstacles and positions the fertiliser below the seed bed for maximum effect.

3 SEEDING BOOT

There are two seeding boot options: standard single chute, single banding boot, and the twin chute, paired row boot, 60mm in width.

4 LIQUID FERTILISER OPTION

Liquid fertiliser can be deposited utilising the space in front of the fertiliser tube or behind the seed boot utilising the metering tube design method. Enquire for more information applicable to your requirements.

5 PARALLEL PRESSURE SPRING

The Parallel Pressure Spring is an easily adjustable device designed to fine-tune the overall press wheel packing pressure. This allows the operator to tune the soil to seed contact compression for improve germination results. Pack pressure ranges from 17 – 32kg.

6 QUICK SEED ADJUSTMENT CLIP

The quick, spring loaded, seed depth adjustment clip allows the operator to select from 9 different depth settings. This makes changing depths quick and easy with minimal to no tools required.

7 WHEEL SCRAPER (OPTIONAL)

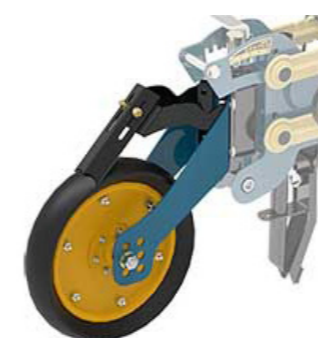
The Wheel Scraper is utilised to assist in the removal of excess soil build up on the press wheel ensuring the correct soil to seed contact, pressure and depth.

8 PRESS WHEELS

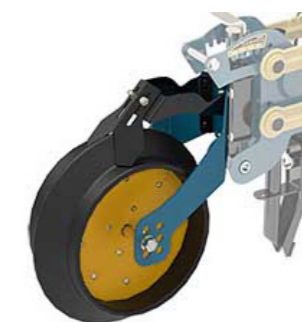
There are two factory press wheel options: Narrow 70mm Solid Flat Rounded wheels, and wide 150mm Flat Wedge for sandy/cultivated soils.

PRESS WHEELS

Press wheel soil closure is the final important part of the seeding process to firm up the furrow, leave a clean finish and maximise soil to seed contact. Choosing the correct press wheel is as important as choosing the right tine knife. Press wheels are mounted to a dampened block that allows for slight lateral swing, designed to manage rough surface conditions and assist in prolong parallelogram longevity. Equalizer offer 2 factory optioned wheels:



Narrow 70mm solid flat rounded wheels for tougher soil conditions or very rocky soils.



Wide 150mm flat wedge wheels for cultivated or sandy soils. They provide better floatation and more seed depth control.

THE SEEDER FRAME

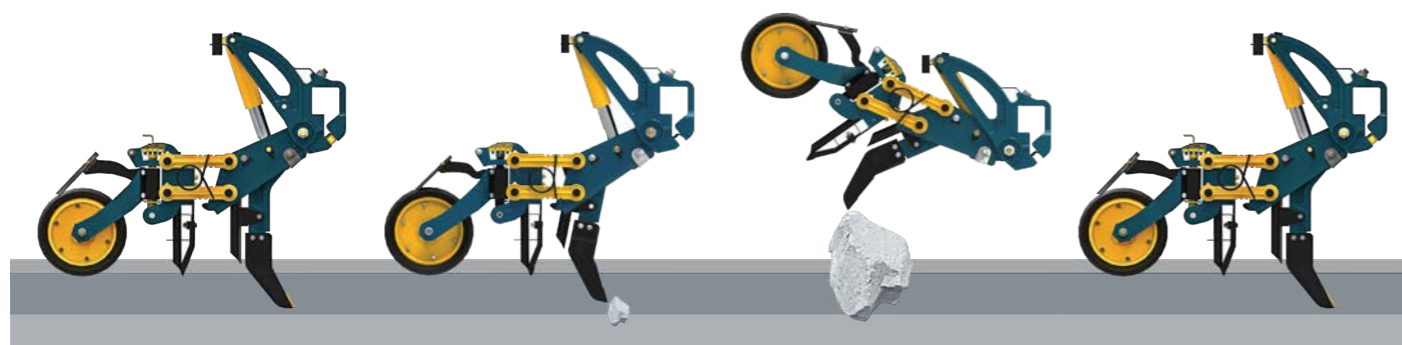
One of the widest seeder bars on the market!

The Equalizer Tine Seeder is available in a 24m width. Utilising their already proven and robust frame design, Equalizer pushed the boundaries and successfully reached 24m with only a minor tweak to the centre frame design and choice in wings.

The strength and durability of the bar comes from the use of Domex steel throughout the tine units and a 10mm thick frame. Its fair to say they've engineered the 9m frame through to the 24m frame to be as structurally solid and long lasting as you'd ever need!



HYDRAULIC BREAK OUT TINES



The assembly includes a semi-independent break away on the tines. Tines can clear small obstacles without changing the seed depth or press wheel downforce. When a larger obstacle is encountered, the entire assembly will trip to avoid damage. The hydraulic cylinder circuit is also equipped with a built-in damper accumulator, this allows for a controlled return of the tine after tripping. Breakout force is user adjustable for optimum performance, as required.

BAR WIDTHS & TINE SPACING

The Tine Seeder bar is available in widths of 9m, 12m, 15m, 18m and 24m with in-frame, large floatation wheels which allow for better straight-line tracking, especially on fields with inclination. Equalizer Tine Seeders, excluding 24m, run on 3m wheel tracks.

There are two tine spacing options available depending on the bar width.

- 273mm (10.7")
- 300mm (11.8")



TRANSPORT

Transport is made simple and safe with hydraulic folding wings in either 3 section fold or 5 section fold depending on bar width. Transport width, excluding 24m, is set at 6m wide and a maximum of 5.2m high.

HITCH CONNECTION

Solid fixed frame drawbar with hardened pivoting insert. Suitable for CAT3 (1.5"), CAT4 (2") or CAT5 (2.75") Tractor Pins. Tow-behind fixed hitch also available for tow-behind air carts.



FRAME OPTIONS

ON FRAME TANK

Equalizer Tine Seeder frames have been uniquely and robustly designed to allow for the addition of either 2 or 3 seed tanks, on frame. Tanks can be used to meter seed, granular product or liquid product. Tank capacities range in either 4500L (2250-2250) or 6150L (2250-1650-2250). The on frame tank option is handy for the operator who has tight paddocks and/or require additional capacity to couple up with their existing cart.



HYDRAULIC COULTERS

The Equalizer coulters system can be used in conjunction with the tine unit for better residue clearance.

- 560mm large cutting disc
- Slight lateral swing
- Sealed SKF Agri Hub

MIN-TILL TINE SEEDER 9000V - 15000V5

MODEL	9000V		12000V/12000V5		15000V5	
Working width (m)	9	8.8	12		15	14.8
Number of rows	30	32	40	44	50	54
Row spacing (mm)	300	273	300	273	300	273
Main wheel track width (m)	3		3		3	
Tractor power required (kW)	210	224	280	308	350	378
Frame style	3-section vertical fold		3-section/5-section vertical fold		5-section vertical fold	
Hitch style	Drawbar with hardened insert for CAT3 (1.5") or CAT4(2") or CAT5(2.75") Pin					
Transport width (m)	6		6		6	
Transport height (m)	3.9		5.2		5.2	
Fertiliser hopper total volume (L)	3 Bins Total = 6150 (2250 1650 2250) or if 4th bin is added 3 Bins Total = 5550 (2250 1650 1650)					
Additional liquid only bin volume (L)	2250 (4 Bins Total = 7800 (2250 1650 1650 2250))					

MIN-TILL TINE SEEDER 15000VX - 24000VX

MODEL	15000VX		18000VX		24000VX
Working width (m)	15	14.8	18		24
Number of rows	50	54	60	66	80
Row spacing (mm)	300	273	300	273	300
Main wheel track width (m)	3		3		1.8 (inner) 4.2 (outer)
Tractor power required (kW)	350	378	420	462	560
Frame style	5-section vertical fold				
Hitch style	Drawbar with hardened insert for CAT3 (1.5") or CAT4(2") or CAT5(2.75") Pin				
Transport width (m)	6		6		7.8
Transport height (m)	5		5		6.3
Fertiliser hopper total volume (L)	3 Bins Total = 6150 (2250 1650 2250) or if 4th bin is added 3 Bins Total = 5550 (2250 1650 1650)				N/A
Additional liquid only bin volume (L)	2250 (4 Bins Total = 7800 (2250 1650 1650 2250))		4500 (2 Bins Total = 2250 2250)		N/A

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