

 **XSERIES**



X10 & X30: PRECISION SMALL SEED DRILLS



 **STANHAY**



X10 & X30: PRECISION SMALL SEED DRILLS

Stanhay's X-Series range of small seed pneumatic precision seed drills can be configured to suit a wide range of soil types, planting layouts and seed types. PTO or hydraulic driven vacuum fans coupled with mechanical, electrical or hydraulic drive systems are available in a variety of rigid or folding frames providing a precision seeding solution for any scenario.

X10

Single Line

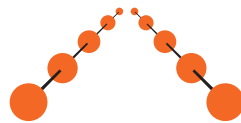


X30

Single Line

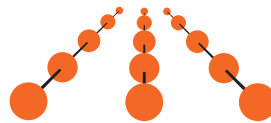


Double Line



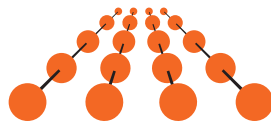
Line Distance:
65/75/100/125/150mm

Triple Line



Line Distance:
65/75/100/125/150mm

Quadruple Line



Line Distance:
100/150mm

Scatter



Line Distance:
75mm

Just some of the seeds you can handle are listed below:

Amaranthaceae

Sugar Beet
Fodder Beet
Beetroot
Chard
Spinach

Allium

Onion
Garlic
Shallot
Leek
Chive

Brassica

Cabbage
Kale
Brussel Sprout
Turnip
Bok Choy
Choy Sum
Cauliflower
Radish
Mustard

Apiaceae

Carrot
Parsnip
Parsley
Coriander
Celery
Dill

Asteraceae

Lettuce
Endive
Chicory

Cucurbitaceae

Cucumber
Courgette
Melon

Solanaceae

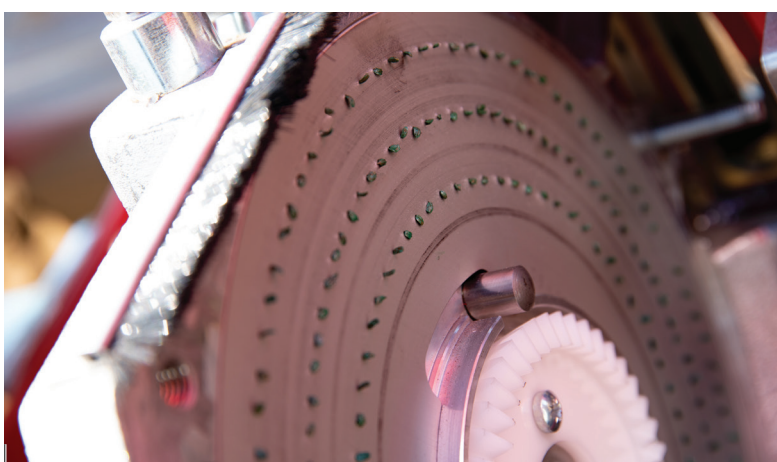
Pepper
Tomato
Chilli

Fabaceae

Peas
Fenugreek

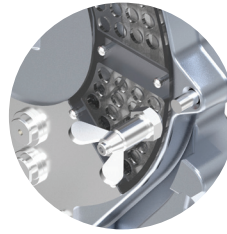
Flowers

Poppy
Sweet William
Sunflower
Amaranthus
Cathamus
Chrysanthemum
Delphinium
Larkspur

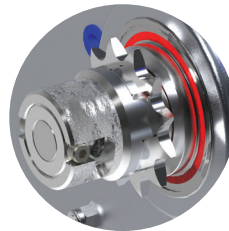


THE METERING UNIT

The industry leading Stanhay small seed vacuum metering unit has been continually developed and improved over the last 30 years to give unmatched versatility and performance in the field.



TOOLLESS FIXINGS



MECHANICAL CLUTCH

[1] UNIQUE THIN SEED DISC TECHNOLOGY

[2] VACUUM GALLERY BLOCK



Gallery Block

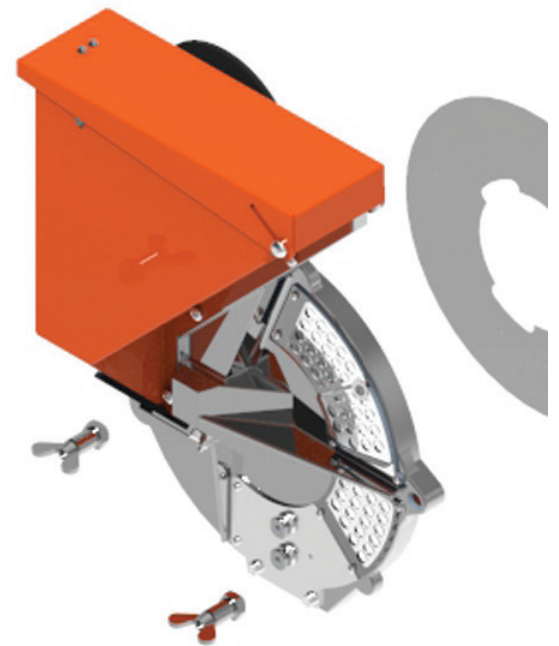


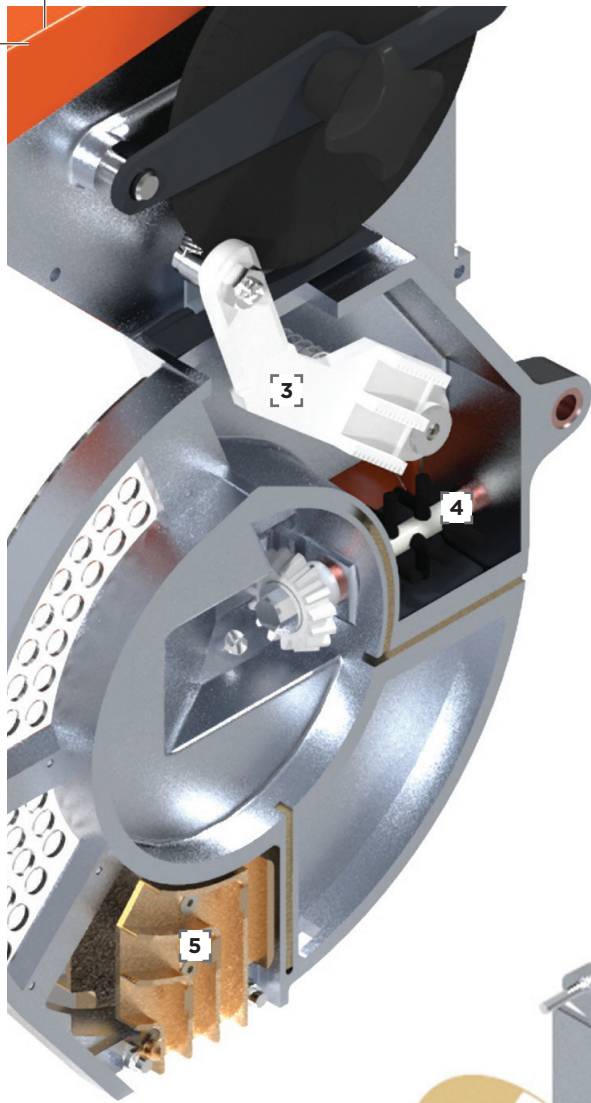
4 Line Gallery Block

[3] SIMPLE SEED SINGULATION



Large viewing window to see inside meter during work.





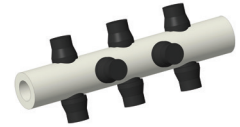
[4] SEED AGITATORS



Standard



Raw parsnip

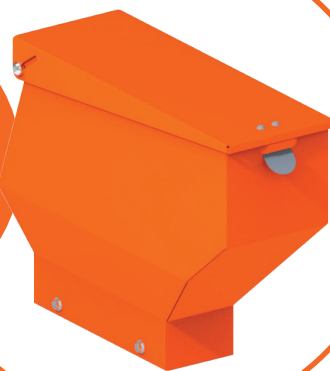


Large pellet



Highly accurate, durable and corrosion resistant alloy castings

Choice of 1, 2, 6 or 8 litre seed hoppers



[5] SPRUNG LOADED AND FIXED SEED GUIDES



1 line



3 line



4 line

THE METERING UNIT SEED DISCS

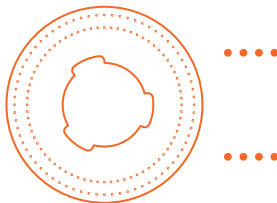
Unique to Stanhay, our thin disc technology can flex to maintain a perfect seal and offers the optimum flow dynamics for accurate seed pickup and seed drop. The thin disc also reduces chance of blockages and can be run on either side which can further improve the lifetime of the disc, another feature unique to thin disc technology.

The selection of the correct seed disc is vital to ensure hole size matches the seed type and size; the number of holes in the disc and the number of lines planted per row.

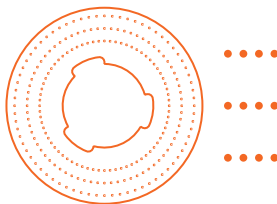
**SINGLE
LINE**



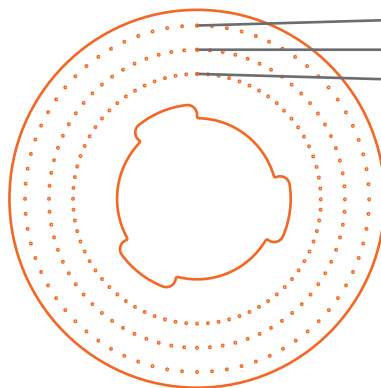
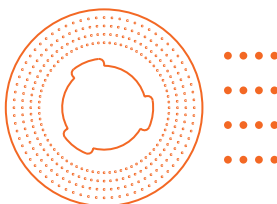
**DOUBLE
LINE**



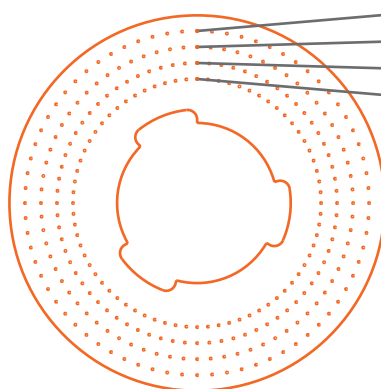
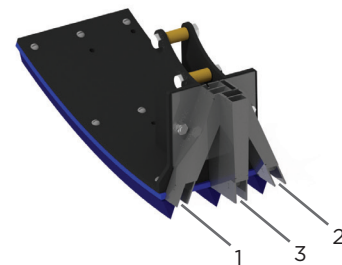
**TRIPLE
LINE**



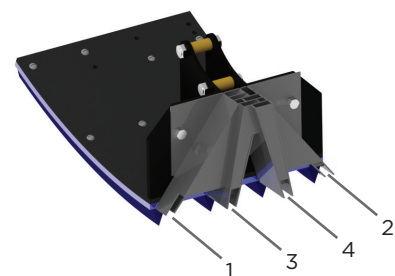
**FOUR
LINE**



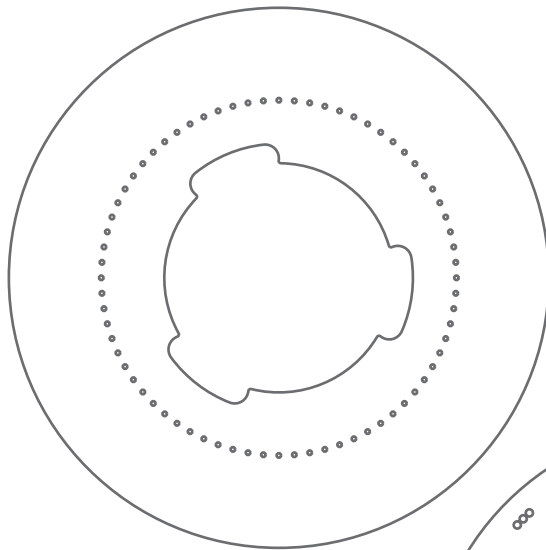
**STANDARD
MULTILINE**



4 LINE



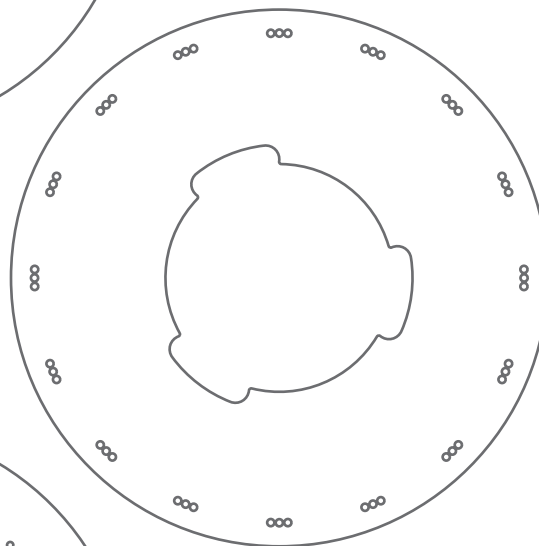
NON-STANDARD SEED DISCS



INSIDE LINE DISCS

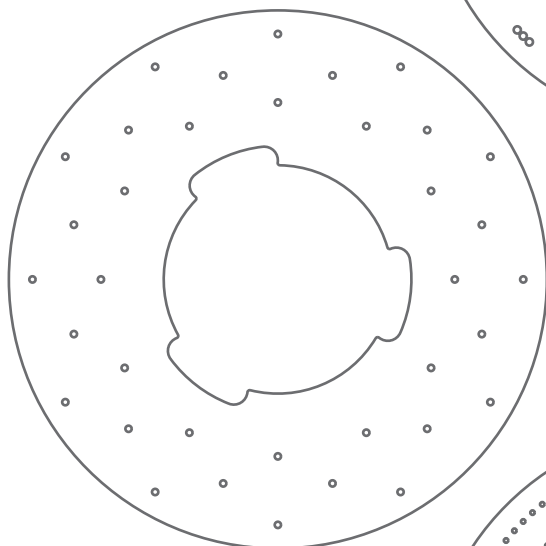
These allow a single line of seed to be planted with a triple line coulters only by changing the seed disc.

An example of disc terminology is: 0.6x96x3L or 0.8x96/96/96



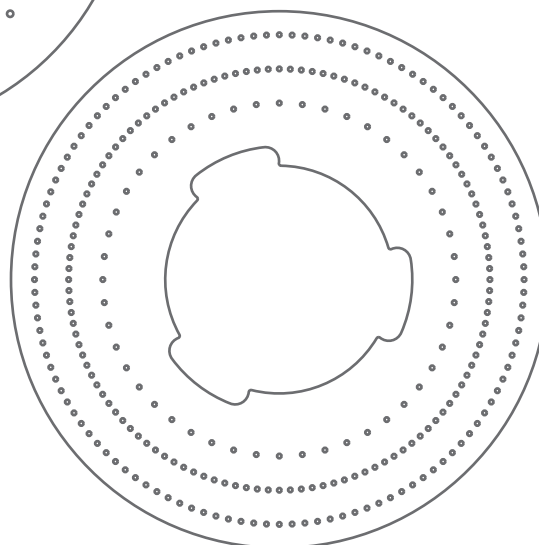
GROUP DISCS

These allow 2 or 3 seeds to be planted at a station, suitable for particularly high value crops where the growers want to ensure 1 plant per station and will thin the crop post germination.



STAGGERED DISCS

Allow seeds to be placed into the ground in a staggered pattern rather than in-line



VARIABLE RATE DISCS

Allows a different rate of seed to be applied in each line of seed from the metering unit, commonly used by root crop growers to apply a lower rate of seed on the middle line of a 3 line setup.

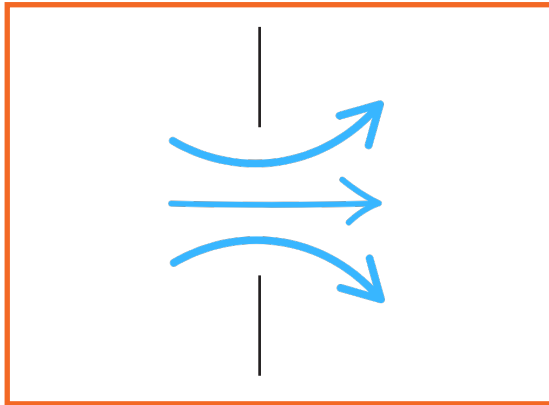
THE STANHAY ADVANTAGE

Stanhay's patented thin disc technology sets the benchmark in vacuum seed metering.

- The idea is simple yet effective: better airflow means better seed control. This isn't a compromise; it's an **engineered choice**.
- The thinner disc is the **foundation** for improved seed accuracy, greater crop uniformity and higher efficiency.
- While most drills use discs that are around 1.0 mm thick, Stanhay's disc is just **0.25 mm**.
- That's 75% thinner, which creates a **more stable and consistent airflow** across the face of the disc.
- In vacuum metering, air passes through small holes in the disc to hold each seed in place. With a thin disc, these holes generate **much less turbulence**, meaning seeds are picked up and released with far greater precision.
- Other manufacturers often chamfer or countersink holes in thicker discs to imitate this effect, but the results are never as accurate or consistent as Stanhay's thin disc design.

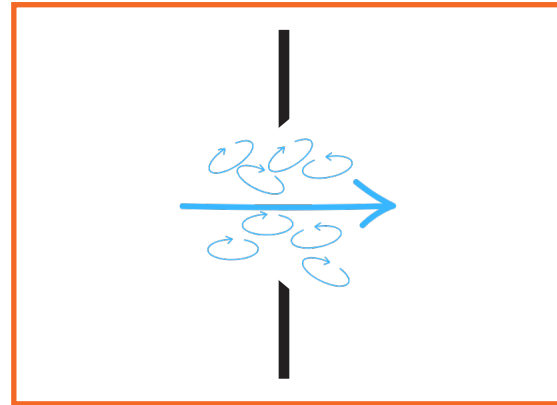


THIN VS THICK DISC



THIN DISCS AIRFLOW

With a thin disc, the orifice creates less turbulence in the airflow, so seeds are held and released with greater accuracy.



THICK DISCS AIRFLOW

Thicker discs generate more turbulence around each orifice, which weakens vacuum strength and can disturb how seeds are picked and placed.

THIN DISC	THICK DISC
✓ Disc is 0.25mm	✗ Disc is 1mm
✓ Chemically etched holes for precision	✗ Drilled holes that reduce precision
✓ Greater accuracy in seed singulation	✗ Countersunk holes to mimic thin disc
✓ Superior aerodynamic performance	✗ Increased turbulence affects seed flow
✓ Unlimited configuration flexibility	✗ Limited customisation options

THE ROW UNIT

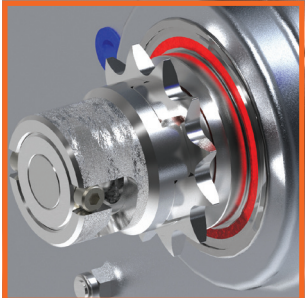
CHASSIS TYPE	MINIMUM ROW WIDTH
111	150mm
145	180mm
216	250mm

The chassis type will determine which other row unit options can be fitted.



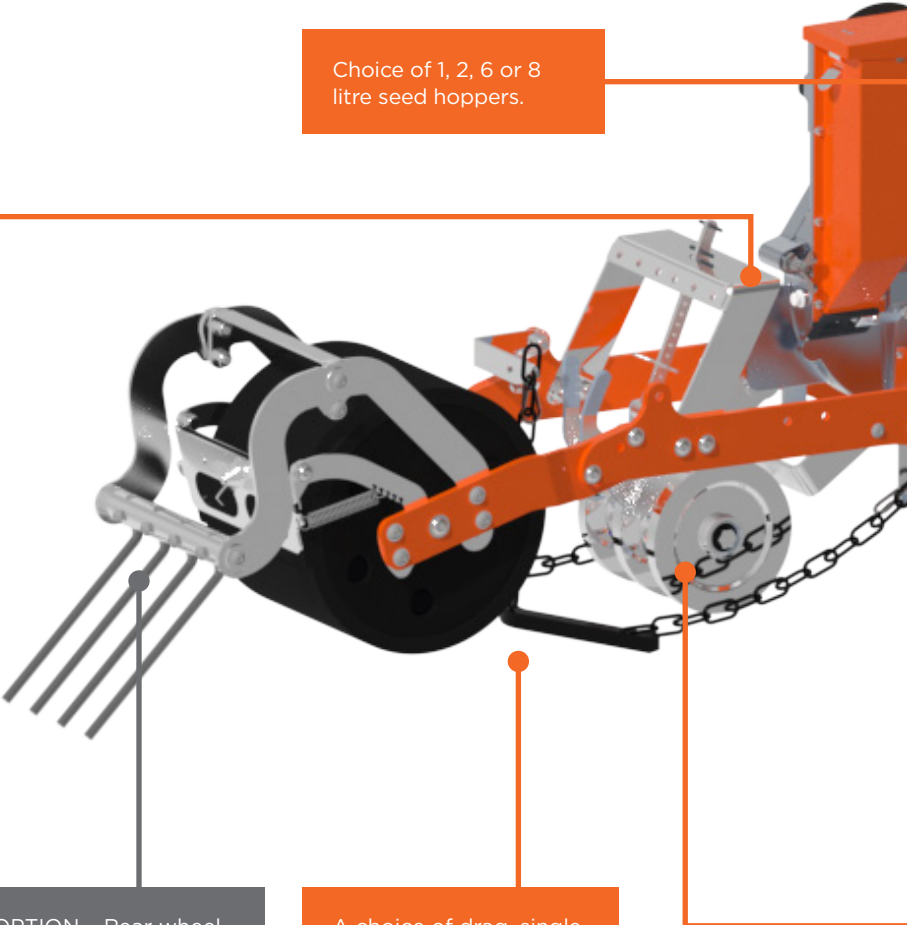


Infinitely adjustable depth control over a 90mm range.

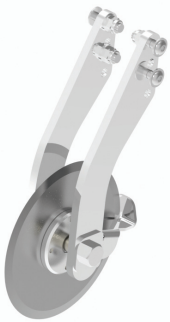


Manually operated row unit clutch.

Choice of 1, 2, 6 or 8 litre seed hoppers.



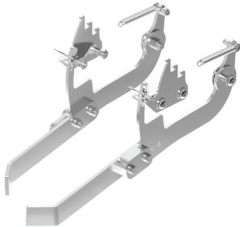
OPTION – Single line sharp edged opener disc (150mm).



OPTION – Rear wheel closing rake.



A choice of drag, single or double arm coverer's.



Choice of 4 interchangeable final drive sprockets to achieve different seeding rates on different rows: -25% / +6% / +17%.

Downforce reducing spring system.

Row unit latch up system.

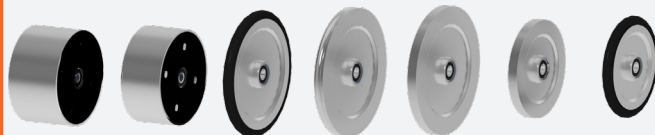
'Long' parallel link for precise ground following.

Reliable 2 stage chain drive.

Wide choice of row unit wheels.



Choice of small, large, single or multiline seed press wheels.



OPTION - Floating clod deflector.



OPTION - Fixed clod deflector.



TANDEM AND NARROW ROWS



Two metering units in a single tandem chassis gives growers even further versatility.

- Set metering units 60-120mm apart with 1-4 line from each meter.
- Space rows as close as 290mm apart.



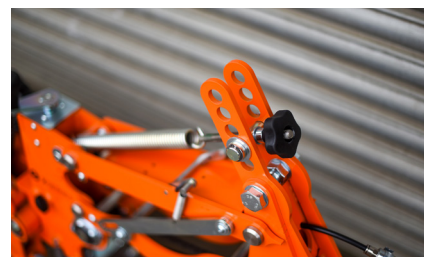
CONSISTENT DEPTH, EVERY TIME

Pivot point between meters for even and consistent depth control between front and rear meters.

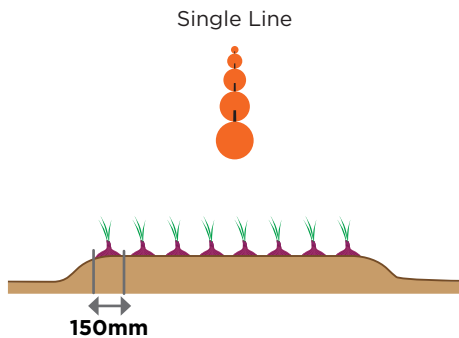


BALANCED PRESSURE

Weight take-off system to ensure same effective ground pressure as a single meter row.



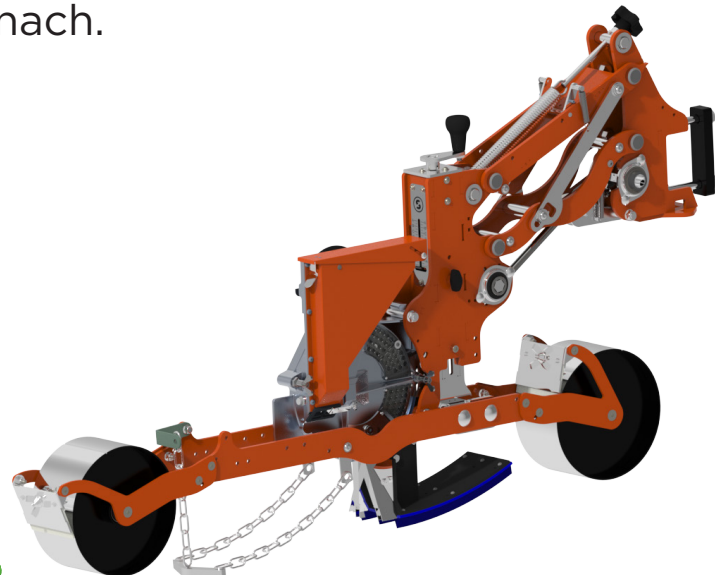
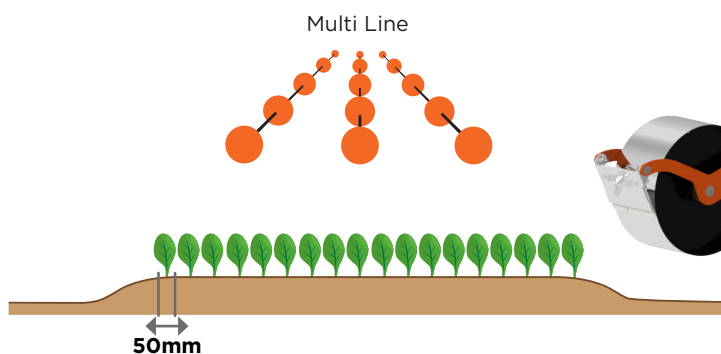
S X10
NARROW



A narrow version of the row enables the tightest planting layouts to be achieved.

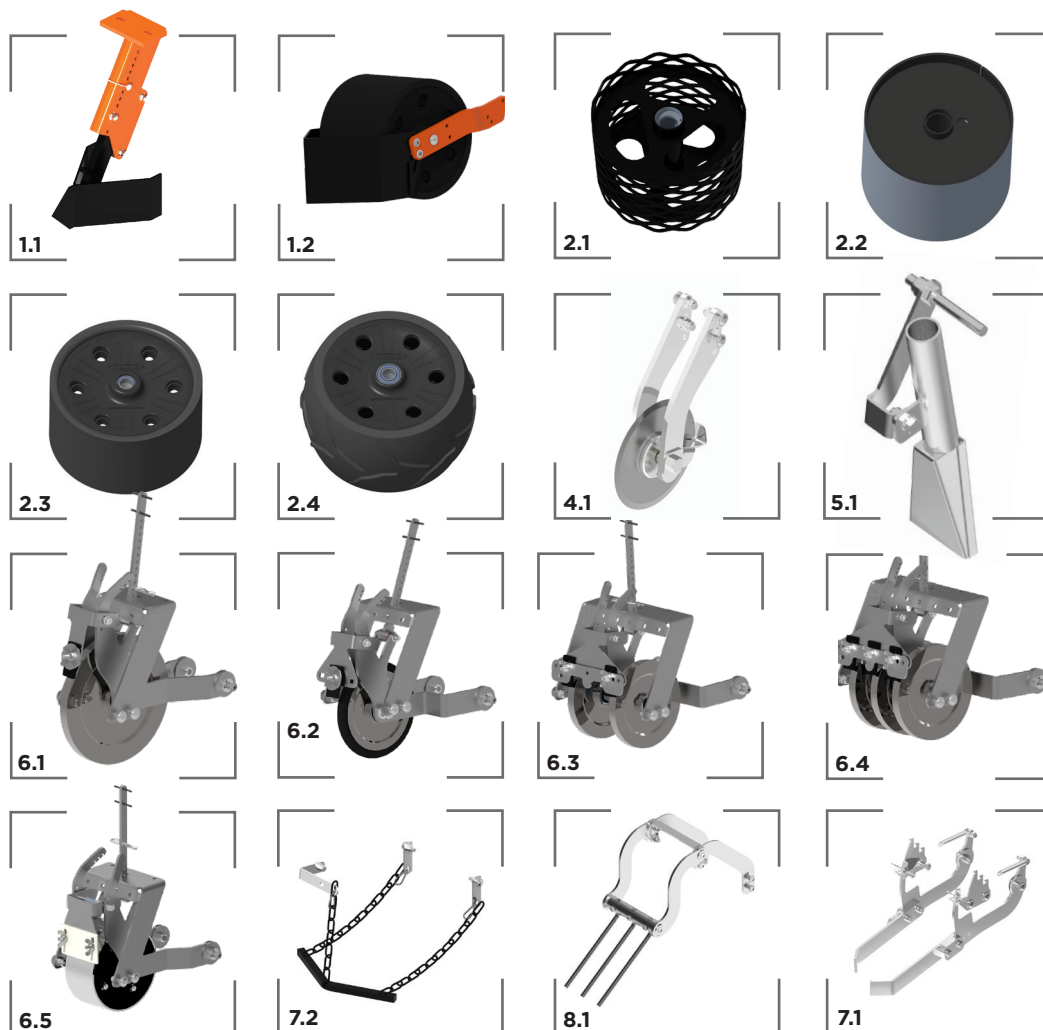
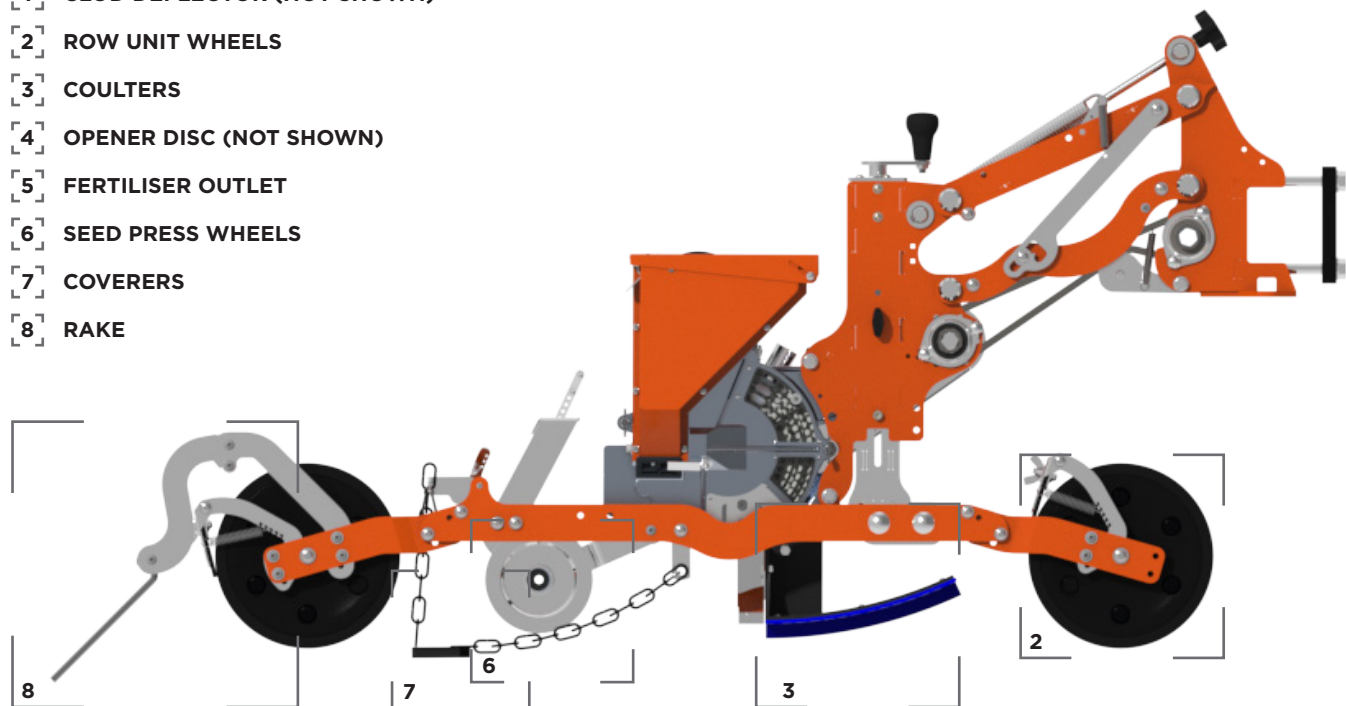
- Space rows as close as 150mm apart
- Plant single lines from each row
- For high density seeding 3 lines shoes can be fitted with a 120mm wide Stainless Steel row unit wheel to allow 50mm line spacing across the width of any bed. Ideal for precision planting of crops like spinach.

S X30
NARROW



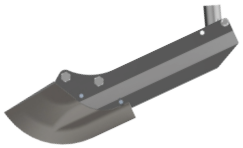
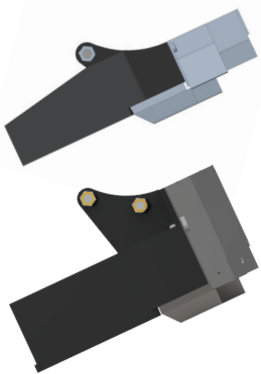
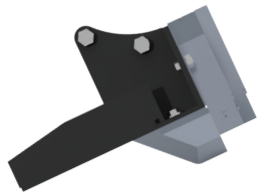
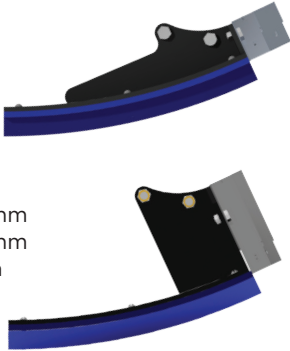
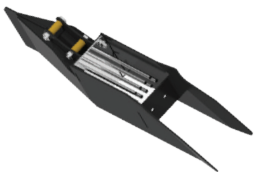
ROW UNIT OPTIONS

- [1] CLOD DEFLECTOR (NOT SHOWN)
- [2] ROW UNIT WHEELS
- [3] COULTERS
- [4] OPENER DISC (NOT SHOWN)
- [5] FERTILISER OUTLET
- [6] SEED PRESS WHEELS
- [7] COVERERS
- [8] RAKE

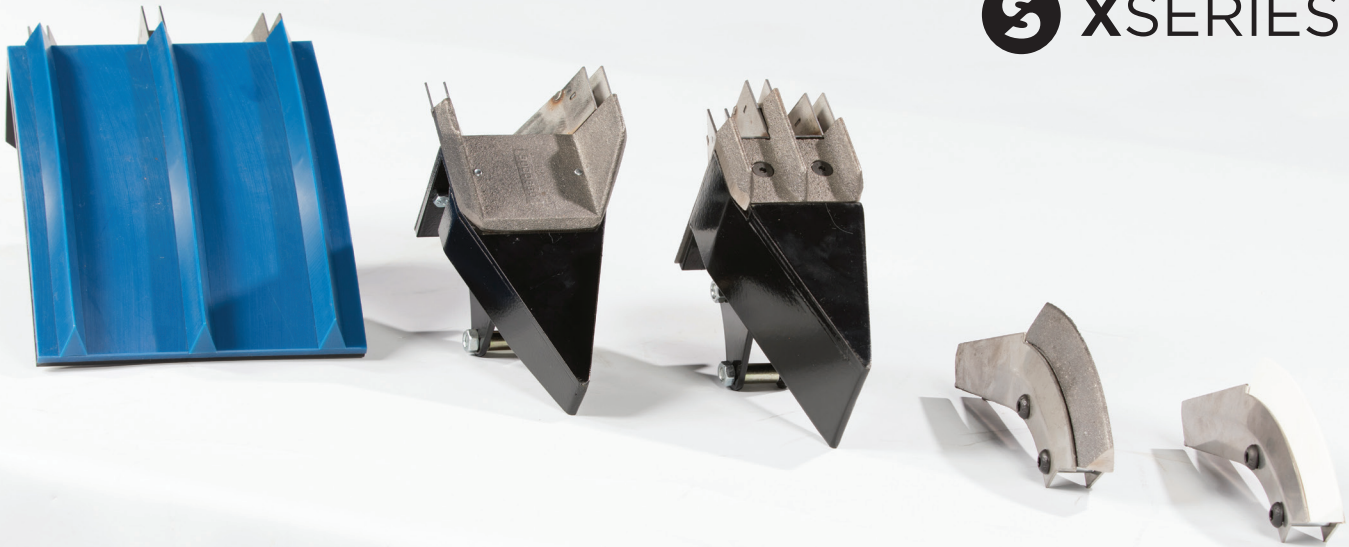


CLOD DEFLECTORS		Description	X10 width (mm)	X30 width (mm)
1.1	Floating Clod Deflector	Floating clod deflector to clear row ahead of front wheel.	150	150
1.2	Fixed Clod Deflector	Simple clod deflector mounted to the front wheel that is adjustable in working height.	145	216
ROW UNIT WHEELS		Description	X10 width (mm)	X30 width (mm)
2.1	Cage Wheel	For use on soil prone to capping. Leaves a broken surface on the seed bed. Rubber scraper kit included.	120	120
			160	160
			200	200
2.2	Stainless Steel	Recommended for general purpose drilling work, leaves a flat surface. Plastic scraper kit included.	120	120
			160	160
			200	200
2.3	FZP	Flat square edged zero pressure wheel suitable for most conditions. Rubber scraper kit included.	80	80
			145	145
			170	170
			200	200
2.4	TZP	Treaded Zero Pressure wheel to leave tyre pattern in soil after row, self cleaning.	165	165
OPENER DISC		Description	X10	X30
4.1	Single Line	Pre coulter opener disc to cut through trash/clods on surface prior to the coulter.	✓	✗
FERTILISER OUTLET		Description	X10 width (mm)	X30 width (mm)
5.1	Fishtail	Fishtail fertiliser outlet behind coulter	65 100	65 100
SEED PRESS WHEELS		Description	X10 width (mm)	X30 width (mm)
6.1	Large diameter Single Line	Large diameter zero pressure wheel for reduced rolling resistance. Includes rubber scraper kit.	20	20
6.2	Single Line	Small zero pressure or stainless wheel that follows the coulter furrow. Includes a scraper kit of each individual press wheel.	20	20
6.3	Double Line	Small zero pressure or stainless wheel that follows the coulter furrow. Includes a scraper kit of each individual press wheel.	✗	20
6.4	Triple Line	Small zero pressure or stainless wheel that follows the coulter furrow. Includes a scraper kit of each individual press wheel.	✗	20
6.5	Wide	Single wider stainless steel press wheel with plastic scraper kit.	✗	65 80
COVERERS		Description	X10	X30
7.1	Arm	1 or 2 adjustable sprung loaded arms to fill furrow.	✓	✓
7.2	Drag	Simple chain and V shaped profile to drag over soil and fill furrow.	✓	✓
RAKE		Description	X10	X30
8.1	Foldable Rake	Finger rake system to leave a broken rather than flat surface behind machine. Easily rotated out of work when not required.	✓	✓

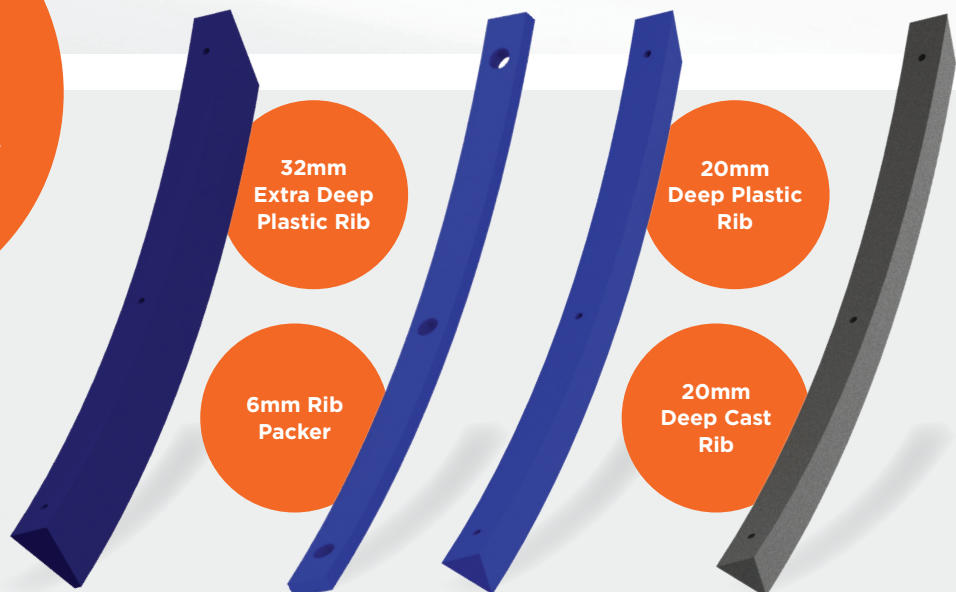
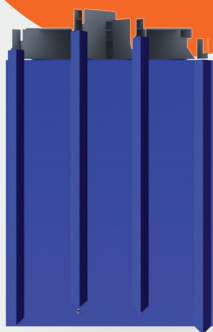
ROW UNIT COULTERS

MULTILINE	Description	Width (mm)
3.1 Single Line	Replaceable cast or ceramic tip. Cast tip is best suited for general purpose work while the ceramic tip is hard wearing and better suited for sticky and/or abrasive soils. Stainless steel side plates.	
3.2 Low disturbance Cast Single Line	Sharp cast tipped coulter with long side plates to ensure accurate seed placement at the bottom of the furrow in a range of conditions.	
3.3 Shallow Fin	Replaceable cast base. Recommended for fine, cloddy or stony seedbeds: (for use where hyline chassis configuration is not achievable).	Loline Options 2 Line: 65/75mm 3 Line: 65/75mm Hyline Options 2 Line: 65/75mm 3 Line: 65/75/100mm 
3.4 Hyline Deep Fin	Replaceable cast base. Recommended for fine clean seedbeds: (deep fin shoes produce minimum soil disturbance).	2 Line: 75/100/125mm 3 Line: 75/100/125/150mm 
3.5 Multiline Ski	Replaceable polymer base with replaceable polymer or cast rib. Polymer rib is best suited to sticky and/or trashy non-abrasive soils while the cast rib is better suited where the soil is more abrasive. Ribs are 20mm deep as standard but up to two optional 6mm packing ribs can be fitted to increase seeding depth.	Loline Options 2 Line: 50/75mm 3 Line: 75mm Hyline Options 2 Line: 65/75/100/125/150mm 3 Line: 65/75/100/125/150mm 4 Line: 100/125/150/180mm 
3.6 Knife Coulter	Single furrow scatter coulter	50mm 70mm 

XSERIES

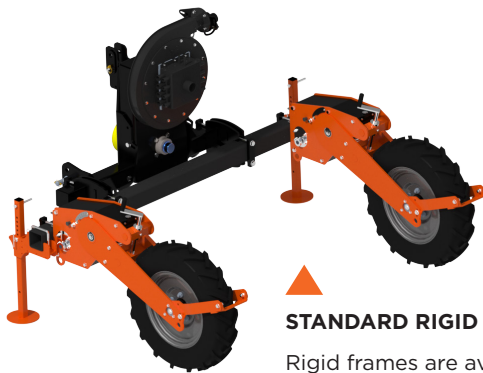


Ribs can be assembled on ski coulters in a staggered pattern to ensure seed drop occurs as close to the coulter tip as possible for even greater precision in conditions with flowable soil.



RIGID & FOLDING TOOLBARS

A variety of rigid and folding toolbars can be supplied to suit any machine layout from 2m to 9m+.



STANDARD RIGID TOOLBARS

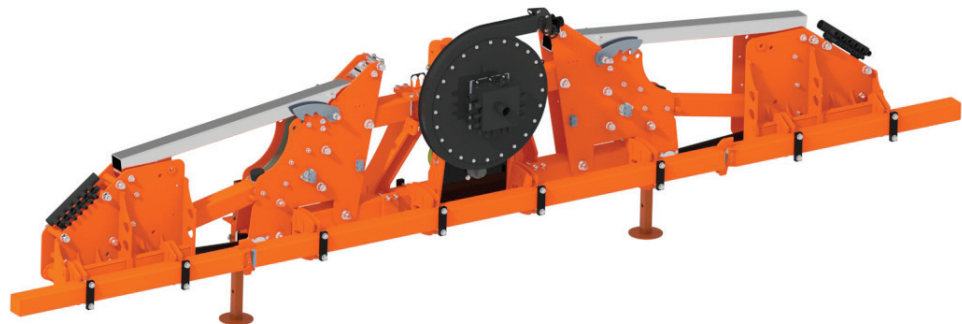
Rigid frames are available in several designs to suit machine requirements and are highly customizable to suit machine layouts and additional equipment requirements.



UNIVERSAL FOLDING FRAME

A robust and versatile folding frame with adjustable toolbars lengths to suit a variety of machine layouts and widths. The frame can be selected with fixed or floating wings to maximise ground contour following ability. It allows the working width of the machine to be halved for road transport and comes complete with an automatic frame locking system for safe road transport.

All machines can be equipped with full road lighting.



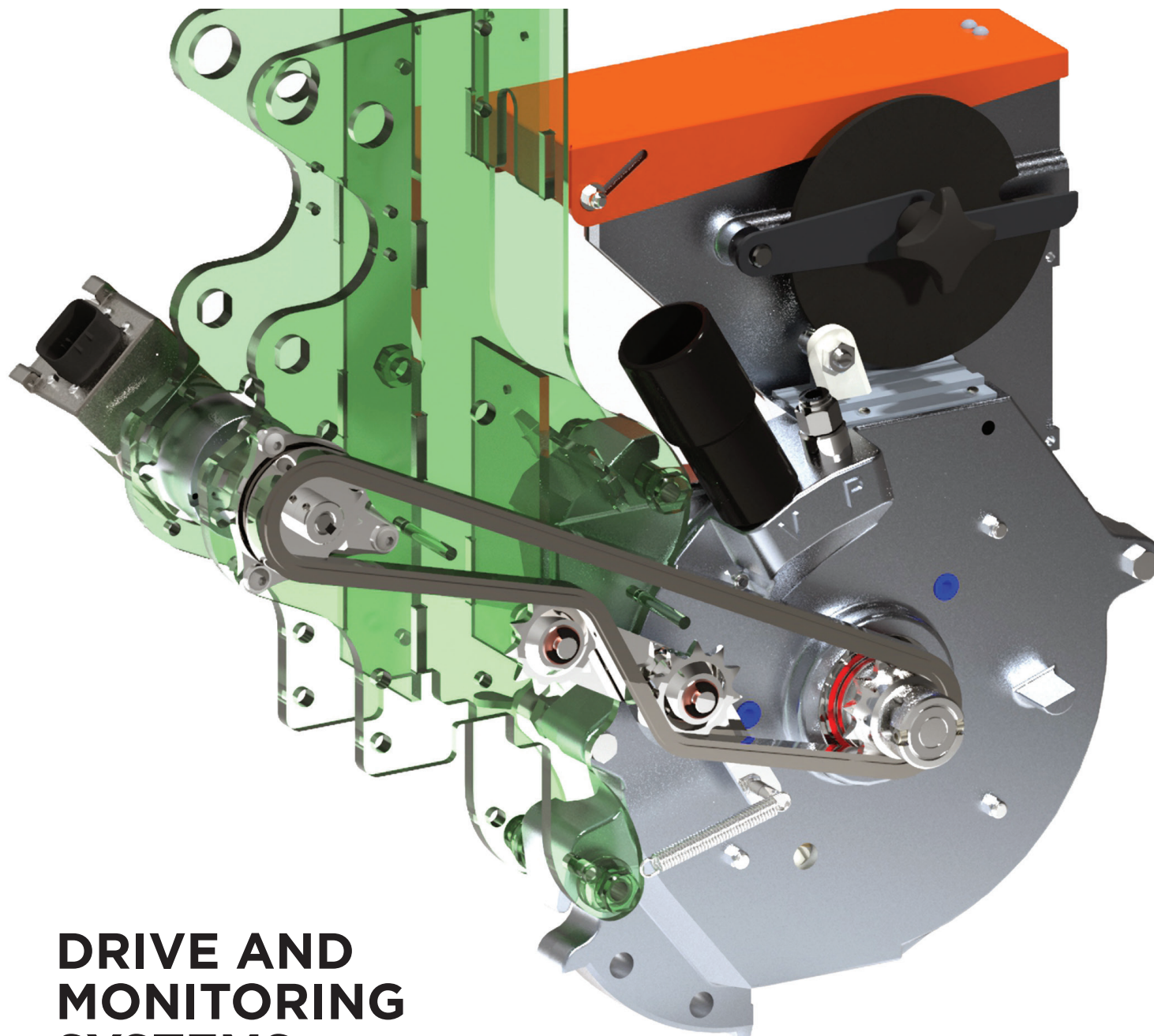
LADDER FRAMES

A double toolbar rigid frame suitable for larger drills up to 9m in width. This frame can be customised to suit bespoke machines and is capable of being fitted with multiple fans if required.



 XSERIES



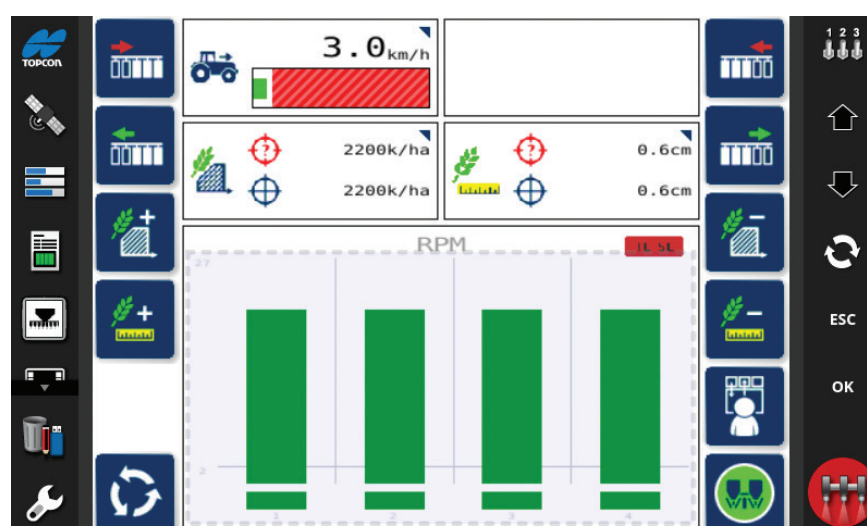


DRIVE AND MONITORING SYSTEMS

ISOBUS **ELECTRIC DRIVE**

ISOBUS ELECTRIC DRIVE

- Integrated into the row unit
- Fully ISOBUS compliant*
- Systems for 4-12 rows
- Each row individually controllable
- Section Control
- Variable Rate

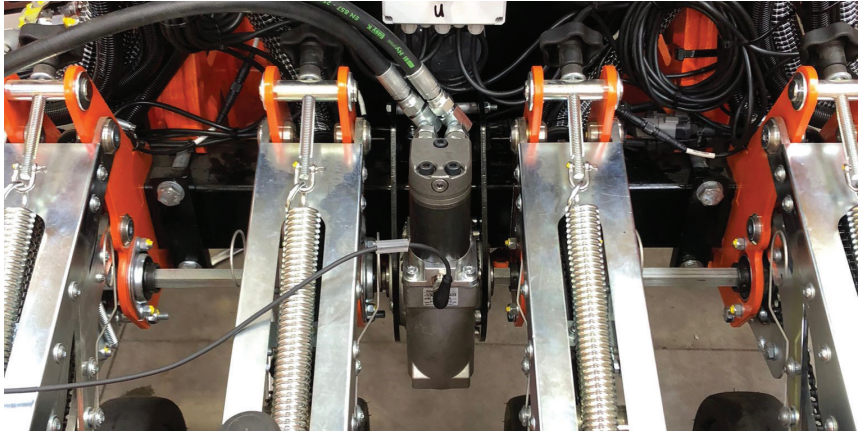


*Check with your Stanhay dealer or via the AEF website to confirm compatibility between specific implement and terminal combination.



XSERIES

HYDRAULIC DRIVE



ISOBUS HYDRAULIC DRIVE SYSTEM

- Compact through shaft drive motor
- Fully ISOBUS compliant*
- 1-3 sections
- Section control
- Variable rate
- Low hydraulic flow requirement (15LPM at 50 Bar)
- Drive upto 20 rows from a single motor
- Automatic pressure relief stall protection

JACKAL HYDRAULIC DRIVE SYSTEM

- Hydraulic drive system
- Simple standalone controller with GPS
- Compact through shaft drive motor
- Drive upto 20 rows from a single motor
- Automatic pressure relief stall protection



jackal

DISC EYE - CAMERA MONITORING SYSTEM

- Live camera view of the seed disc
- Closely monitor seeding performance
- Upto 4 live camera views per monitor
- Multiple monitors can be combined for larger machines
- 7" and 10" monitors available

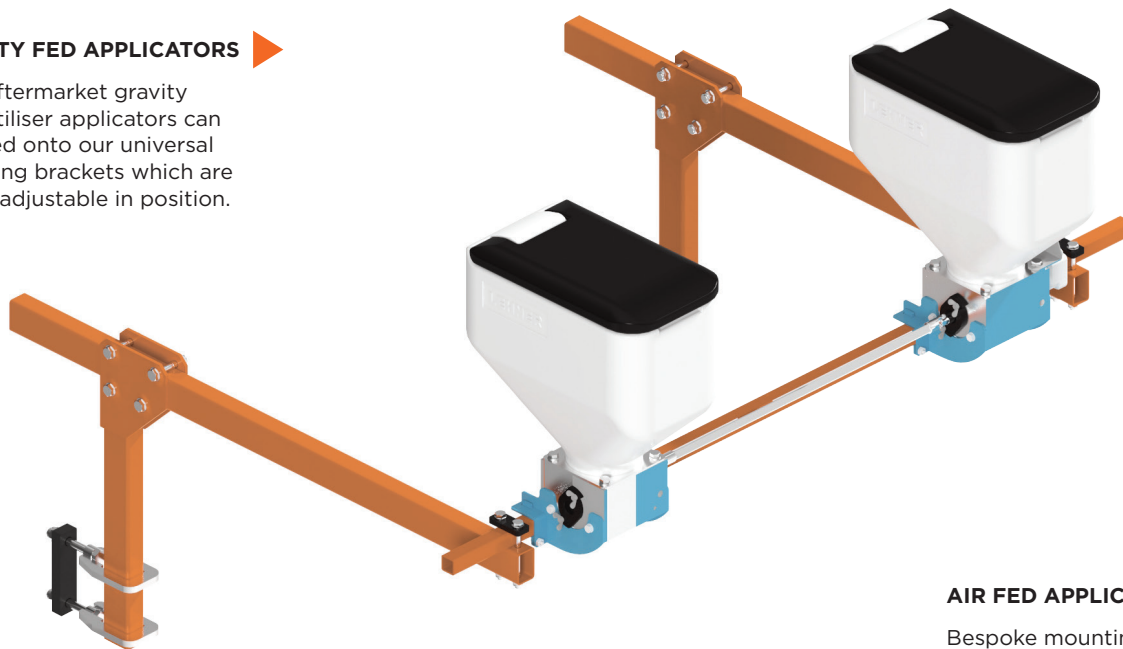


APPLICATOR SOLUTIONS

Stanhay can make provision to fit most aftermarket chemical or fertiliser applicator systems with different mounting brackets. Placement of the product can be achieved with our own fishtail or straight fertiliser outlets at the coulter or mounting systems can be added to suit most other aftermarket systems.

GRAVITY FED APPLICATORS

Most aftermarket gravity fed fertiliser applicators can be fitted onto our universal mounting brackets which are totally adjustable in position.



AIR FED APPLICATORS

Bespoke mounting system are available for air driven applicators including access platforms for safe filling.

GRAVITY FED APPLICATOR



AIR FED APPLICATOR



TECHNICAL SPECIFICATION

	X10	X30
MULTILINE CAPACITY	Single Line only	Up to 4 lines per row
HOPPER CAPACITY (L)	1/2/6/8	1/2/6/8
MIN/MAX SEED SIZE (mm)	1-10	1-10
MIN/MAX NUMBER OF ROWS PER MACHINE	2-18+	2-18+
APPROX ROW UNIT WEIGHT (kg)	60-65	60-85
ROW UNIT LENGTH	1480	1490
DEPTH CONTROL RANGE	90mm	90mm
COVERER OPTIONS	Arm or Drag	Arm or Drag
SEED PRESS WHEELS AVAILABLE	YES	YES
ROW UNIT DOWN FORCE ADJUSTMENT	YES	YES
CLUTCH	Manual	Manual

KEY LAYOUT TERMINOLOGY

KEY

a Row Distance

b Line Distance

c Bed/Ridge Distance

d Bed/Ridge Height

e Bed/Ridge Top Width

f Tyre Width

g Track Width

NUMBER OF ROWS / NUMBER OF LINES

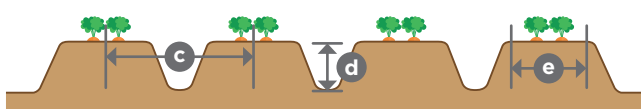
8 Rows, 1 Line Per Row



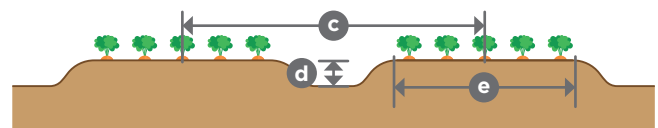
3 Rows Per Bed, 2 Lines Per Row



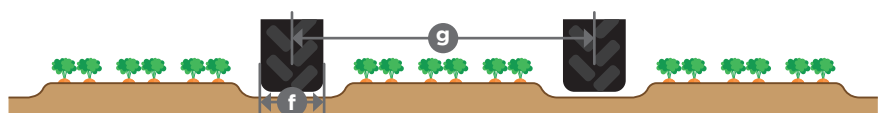
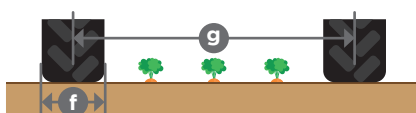
RIDGE DIMENSIONS



BED DIMENSIONS



WHEEL TRACK / WIDTH



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