



WHEN FARMING MEANS BUSINESS

Realising the full potential of farming is about growing and developing your business, not only your crop or livestock, but also your profit. Improve productivity and profitability by focusing on the positives and minimising disadvantageous aspects, through strong, dedicated management.

Success springs from determination and clear targets, from laying down the appropriate strategy and allocating correct investments for the future. Quality results require the right ideas and equipment. When there is work to be done, you need the optimal setup and smart solutions that support you towards an easier, more profitable way of working. You need solutions that make tough and demanding conditions less complicated.





TILLAGE

Preparing and cultivating your soil in order to achieve the highest possible yield is about choosing the correct tillage system.



COULTERS

SHANKS

EFFECTIVE VERTICAL TILLAGE TO PREPARE THE PERFECT SEEDBED

500mm Coulter

A coulter runs ahead of each tine to cut residue and reduce plugging.

No-Till Shank

The 19mm no-till shank plus a 250mm no-till point shatter yield-robbing compaction layers while leaving the surface largely undisturbed. In most soil conditions, the no-till shank *only leaves a shank slot exposed on the surface and shows a gentle uplifting of the earth between shanks.*

True Vertical Tillage is the root of all yields.

Berm Conditioner

With 25mm solid rods, the optional 41cm-diameter berm conditioners mounted to each shank *help provide a level surface, enabling single-pass seedbed preparation.*



OVERVIEW

ELIMINATES COMPACTION LAYERS

The Great Plains Sub-Soiler is a vertical tillage tool that can be used in conventional, reduced tillage, or no-till farming systems at a depth of 30-40cm. In conventional tillage regimes, it can eliminate the compaction layers created by the plough, disc harrow, or cultivator, which can adversely affect yields and form a barrier to essential moisture. In a no-till environment, the Sub-Soiler can first be used as a preparatory tool and then as a maintenance tool. Prior to phasing-in no-till, repairing the soil structure with the Sub-Soiler can help to protect yields. As well as maintaining a uniform soil structure, sub-soiling helps to keep soil organisms, such as worms, alive and reduces surface compaction from tractors and combines.

1

Straight Shank Option

When more surface disturbance is desired, a 32mm straight-legged shank may replace the no-till shank. Point options for the straight shank are available in 5 or 18cm widths, and with or without fins (fins maximize blowout). The 5cm point is the least aggressive, while the 18cm point is the most aggressive and is used to cover more residue.

2

Auto-Reset or Rigid Mount

The 19mm-thick spring steel auto-reset tine, with its exclusive 250mm no-till point, provides maximum soil shatter with minimum surface disturbance. The straight rigid mount tine is shear bolt protected with either 50mm or 175mm point provides good fracture under the surface but will give more surface disturbance.

3

Adjustable Gauge Wheel

A screw jack makes adjusting the gauge wheel a quick and simple task.

4

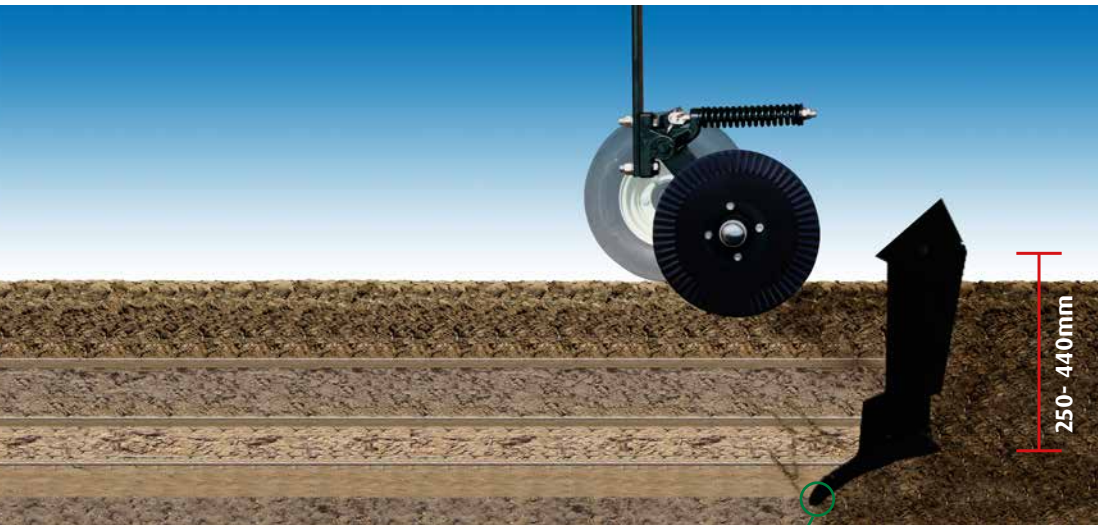
Shank Spacings

Shank spacing options range from 54cm to 75cm in configurations of 3 to 6 shanks. To achieve uniform lateral fracture of the soil, working depth must be half the shank spacing; therefore, narrower shank spacing allows for shallower working depth.



VERTICAL TILLAGE

REMOVE LAYERS



30-50mm below plough pan



Before Sub-Soiler



After Sub-Soiler



If you are transitioning from conventional tillage to vertical tillage or no-till, the first step is to remove all density layers. Density layers are caused by plowing, disking, and field cultivating (horizontal tillage).

Field traffic, especially harvesting in wet conditions, will also create compaction. The best way to remove them is to use an inline sub-soiler. If sub-soiling is done correctly, you win with increased yields.

To achieve the desired results, you must shatter the ground horizontally between the shanks a minimum of 15cm below the surface.

TECHNICAL DATA

Model	Sub-Soiler
	SS0300
51cm Heavy-Duty Utility Coulters	●
Cat. III, Cat. IIIN, or Cat. IV Hitch	●
Adjustable Gauge Wheel with Jack	●
SMV Sign	●
LED Safety Lighting	●
Replaceable Wear Shins	●
99cm Underframe Clearance	●
High-Tensile Tubing	●
Rigid or Auto-Reset Shanks	●
Berm Conditioner	○
Inline Hitch	○
Sub-Soiler Hitch	○

- Standard equipment
- Option

Model	Sub-Soiler							
	SS0300							
Recommended Use	Primary Tillage							
Shank Spacing (cm)	70	75	70	75	68	70	54	56
Number of Shanks	3	3	4	4	5	5	6	6
Weight (kg)* Rigid Shank Auto-Reset Shank	921 1247	921 1247	1046 1481	1046 1481	1170 1715	1170 1715	1297 1950	1297 1950
Tillage Width (cm)	210	225	280	300	340	350	324	336
Transport Width (cm)	300	300	300	300	300	307	300	307
Gauge Wheel Tire Size	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply	20.5x8 10-Ply
Number of Gauge Wheels	2	2	2	2	2	2	2	2
Horsepower Requirements (PTO)	150-240	150-240	200-320	200-320	250-400	250-400	300-480	300-480
Kilowatt	112-179	112-179	150-239	150-239	187-299	187-299	224-358	224-358

***Approximate maximum weights with attachments**

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