

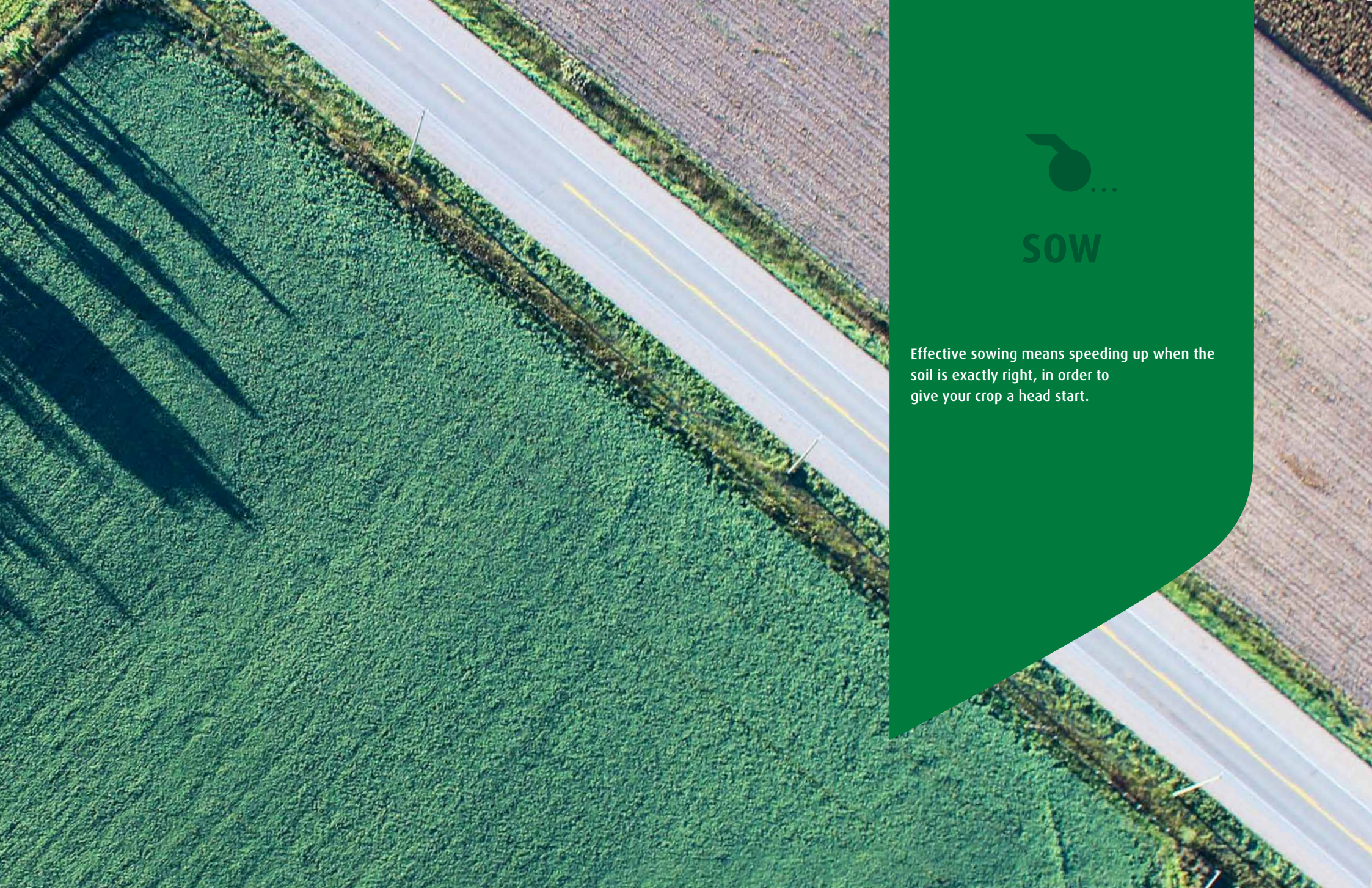


WHEN FARMING MEANS BUSINESS

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.





SOW

Effective sowing means speeding up when the soil is exactly right, in order to give your crop a head start.

SPARTAN[®] 607

NEXT GENERATION FEATURES

Built around tried and tested components and technologies such as the well-proven zone cultivation design of Great Plains' 07 Series opener, the second generation Spartan[®] incorporates a wide range of new and improved features. Perhaps the most significant change to the Spartan is a complete rework of the drill's seed tower configuration. Other improvements have been made with ease-of-use very much in mind, including seed calibration located at the rear of the machine, easier access to weight brackets, improved on-road handling, and a new variable-rate hydraulic drive.

1

Hydraulic Weight Transfer (Side to Side and Front to Back)

This feature allows the Spartan[®] openers to flex up 125mm and down 75mm. It also allows the wings to flex down 10° and up 15° side-to-side and 15° up or down front-to-back. **The side-to-side flex allows the drill to precisely follow undulating ground conditions and the front-to-back flex allows the drill to hug contours going over hills and valleys.** This feature also allows the operator to transfer weight from the hopper cart to the implement in hard soil conditions or to carry more weight on the cart in soft soil conditions.

2

Quick and Easy Calibration from Rear of Machine

Seed calibration is a quick and convenient push-button operation.

3

Variable-Rate Hydraulic Drive

Offering outstanding reliability in all operating conditions, the variable-rate hydraulic drive system incorporates an internal rate sensor to monitor meter speed.

4

Hopper Options

The Spartan[®] 607 comes with either a single seed-only 5280-litre hopper or two 2885-litre hoppers for seed/fertiliser applications.

5

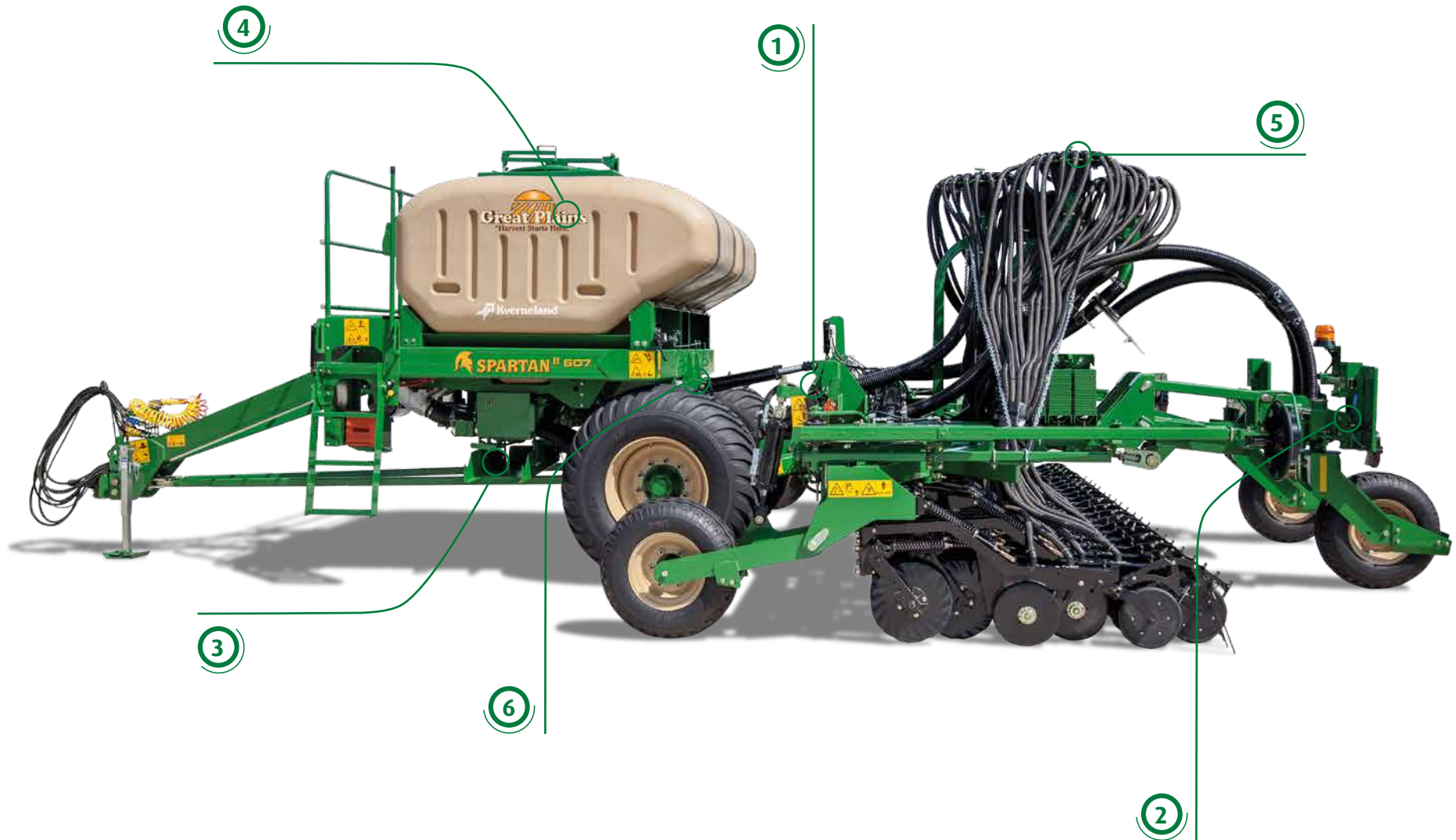
Tower System

The tower system on the new Spartan[®] 607 has been completely reconfigured. Now with fewer towers than its predecessor, all of which are mounted on the centre section of the drill, the new arrangement looks cleaner and tidier.

6

Half-Width Shut-Off

A linear actuator shuts off the left or right side of the drill.



SPARTAN^{II} 907

NEXT GENERATION FEATURES

The SpartanII range is the next generation of Spartans, incorporating new and improved features, further increasing the productivity and versatility of this well-proven direct drilling solution. While the first generation Spartans only included 6- and 9-meter machines, the SpartanII also includes 8-meter and 10-meter variants to complete an extensive and versatile range, offering a choice of 150mm, 190mm row spacings. New features include hydraulic drive, hydraulic auger, patented tower system with primary and secondary hose diameters increased by 20%, and caster wheels at an increased track width.

1

New-Style Rear Casters and Increased Track Width

The rear axle on the new Spartan^{II} has an increased track width and geometry improvements on the caster wheels improve stability on the road.

2

High-Capacity Auger

Standard 254mm-diameter auger with hydraulic height and angle controls makes filling the hoppers and unloading from the rear hopper quicker and easier. Wireless remote control is optional.

3

Variable-Rate Hydraulic Drive

Offering outstanding reliability in all operating conditions, the variable-rate hydraulic drive system incorporates an internal rate sensor to monitor meter speed.

4

Hoppers

The Spartan^{II} 907 comes with two 3500-litre hoppers.

5

Hydraulic Weight Transfer

The openers are mounted to a parallel linkage hydraulic down-pressure system. This applies preset-consistent down pressure to all rows and maintains the geometry between the opener and the soil surface.

6

New Parking Stands

For added convenience, the parking stands adjust hydraulically.



07 SERIES OPENER

CONSISTENT AND PRECISE IN ALL CONDITIONS

Great Plains' openers are computer-designed, CNC machined, laser cut, and robotically welded to ensure exact tolerances and excellent reliability. Materials and components are selected for their strength and durability. For example, nut bars and depth wheel arms are in forged steel. Areas subject to stress, such as pivot points, are reinforced with protective, hard-wearing bushes. Secondary bushes are manufactured in a material with high mechanical strength and excellent wear and fatigue resistance.

① The unique planter-style seed tube carries seed all the way to the bottom of the slot formed by the double-disc opener. This design creates an ideal growing environment by eliminating seed bounce and ensuring that every seed is placed precisely and consistently at the same depth in the bottom of the seed trench.

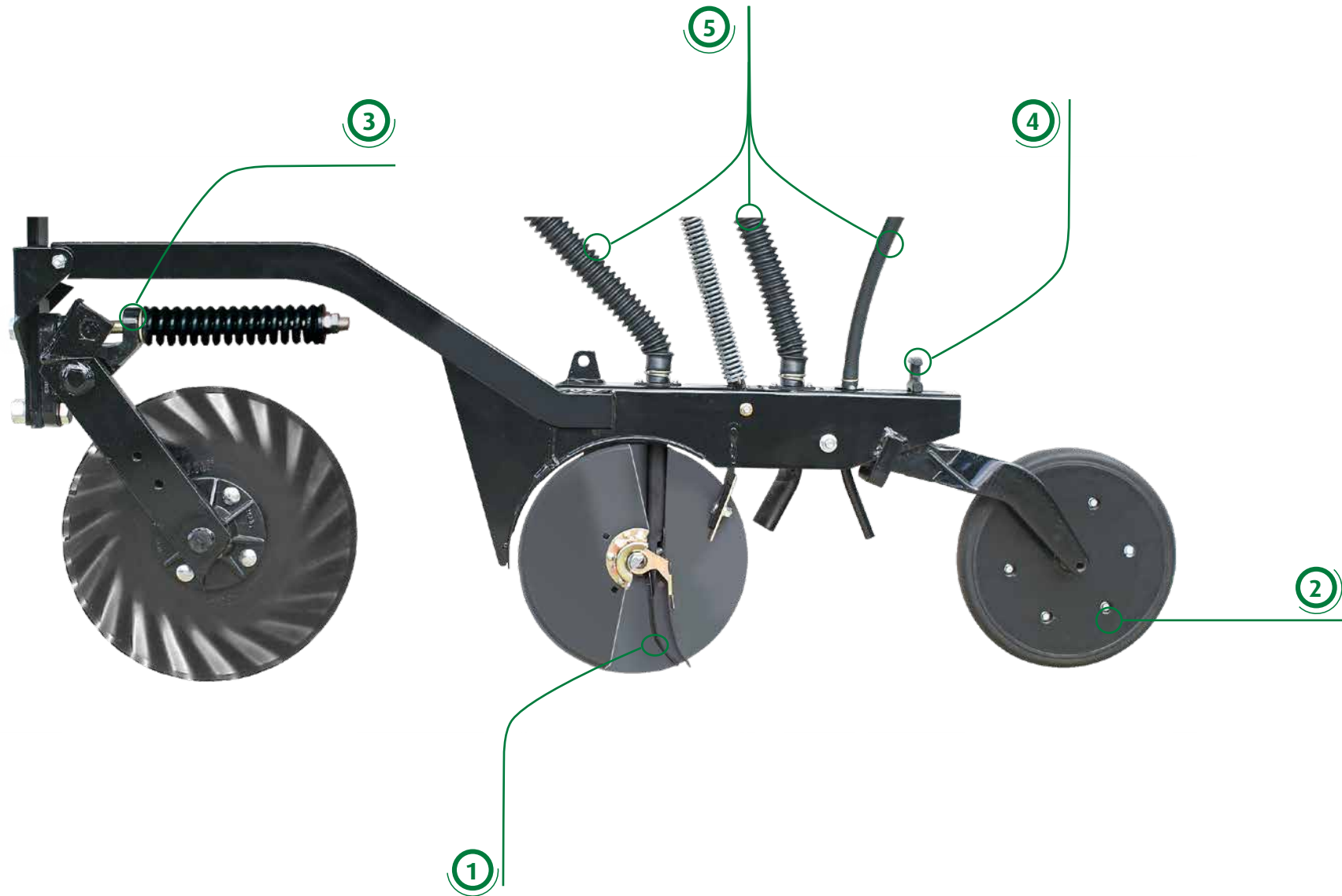
② The close-coupled press wheel serves two purposes. First, it provides depth control and second, it firms the soil around the seed slot. This facilitates perfect soil-to-seed contact to ensure consistent seed germination and even emergence, which are vitally important if pre-emergence spraying is necessary.

③ Connecting the spring directly to the forged nut bar provides between 30 and 110kg of constant down pressure applied directly over the center of the disc, where it matters most. As a result, the opener arm remains parallel to the soil at all times. This ensures that the double-disc opener is presented to the soil at the optimum angle, which reduces smearing and soil movement. Down pressure exerted over the coulter is between 180 and 250kg.

④ The Spartan[®] range has individual opener depth control from 6mm to 102mm. Adjustments are made quickly and easily with a simple T-handle, allowing each coulter to be set to suit soil conditions. Up to 18 settings are available to guarantee superb seed depth control.

⑤ Flexible configurations and separate seed tubes are offered for seed, fertiliser, native grass, and small seeds, as well as an optional Y-tube for placement between the double-disc opener.





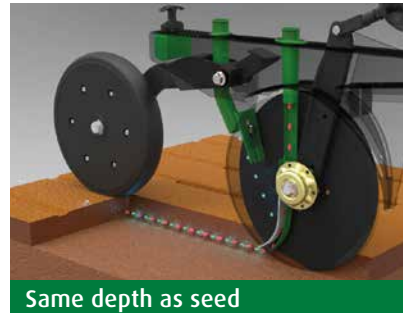
FERTILISER PLACEMENT FLEXIBILITY

TIMELY EMERGENCE AND REDUCED COSTS

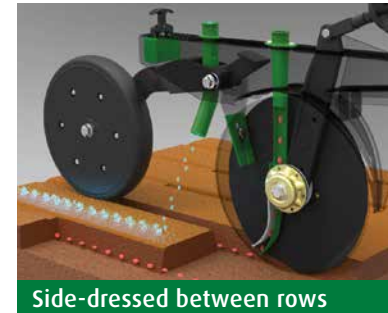
The Great Plains fertiliser application system places the nutrients at the time of seeding and closer to the seed, either in line with the seed utilising the innovative Great Plains double shoot system, or as a side dressing. As well as speeding up emergence, the consistently accurate placement of fertiliser helps to reduce input costs.



Fertiliser above seed



Same depth as seed



Side-dressed between rows

Consistently accurate placement of fertiliser.

On all models, the fertiliser is placed through a fertiliser tube that can be positioned to be either forward or rear facing. Fertiliser can also be placed to the side, allowing side dressing of the seed. The delivery tube can be rotated to suit the requirements of the crop and the amount of fertiliser being used.



UNIQUE ZONAL CULTIVATION AND SEEDING TECHNOLOGY

DIRECT DRILLING IN REDUCED TILLAGE OR NO-TILL SYSTEMS



The drills work on pre-cultivated land, no-till systems, and cover crops.



The Turbo Coulter precisely cultivates zonally, creating the ideal environment for the Double Disc Opener to place seed.



The ground is worked vertically with straight blades and only in a 10-50mm strip of soil.

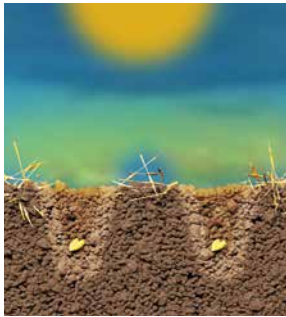


Precise placement of the seed by the Double Disc Opener is assured due to the fluted design of the Turbo Coulter, which clears crop residue away from the seeding zone.



The Press Wheel firms the soil around the seed, optimising seed-to-soil contact, creating the ideal situation for germination, leading to consistent emergence.

Every seed sown is placed at the optimum depth in an ideal environment.



The cultivated area is darker and warms faster than the uncultivated area when seeding.



Rooting into coultured soil, this proven system creates the ideal conditions for healthy growth and higher yields.



This picture, taken prior to trench closure with press wheel, shows how seed is placed with minimal soil disturbance.

Ultimately, the performance of any drill is measured by the accuracy with which it places the seed and the consistency of emergence that is achieved as a result. It's a key area and it's one in which Great Plains' design and engineering teams excel.

Ongoing product development over many years has led to a number of important yield-improving advances that have become standard features in many Great Plains drills and are making a real difference for growers around the world. One such innovation is a unique zonal cultivation and seeding system, at the heart of which are Great Plains patented Turbo Coulter discs. This technology ensures that every seed sown is placed at the optimum depth in an ideal environment to facilitate consistently even germination and it is an integral part of the specification of our widely acclaimed and highly successful drill ranges.

TOWER SYSTEM

NEW TOWER SYSTEM OPTIMISES SEED DISTRIBUTION

The Spartan[®] has a new tower system designed to further enhance seed distribution across the full width of the drill. Small improvements have made a big difference. For example, primary and secondary hose diameters have been increased by at least 20% for improved seed distribution and air flow. The risk of spillage around headland turns is greatly reduced, thanks to significantly shortened hose lengths from meter to tower and a faster variable-rate shut-off from the cab.



Half-Width Shut-Off

A linear actuator shuts off the left or the right side of the drill.

*Only available on Spartan[®] 607.



Individual Row Shut-Off



Integrated Daisy Chain Blockage Sensors (DCBS)

This system requires fewer wires and provides accurate isolation of a blocked or faulty sensor.

SEED METERING SYSTEM DESIGN

Even the lightest seeds are fed evenly and constantly.



All Spartan[®] models offer a choice of three meter wheel options to allow for a wide variety of seed sizes. **Changing the meter wheel is quick and easy.** The system is capable of seeding at a rate of 325kg/ha at 14km/hr.



For cover crop applications, a fluted shaft roller is available for seeding oilseed rape, clovers, and other small seeds. **The shallower and narrower star configuration can reduce seeding rate by 20-50%** for the same variable-rate gearbox setting.



The meter box is redesigned to eliminate any “dead areas” for the seed to gather. A standard agitator ensures that **even the lightest seeds are fed evenly and constantly.**

KEY DRILL COMPONENTS COULTERS



Turbo Coulter

Exclusive to Great Plains vertical tillage and seeding products, the 432mm-diameter blade exits the soil horizontally, discharging the cultivated soil behind, leaving a mini-seedbed for the opener to drill seed into. [These coulters are ideal for use on reduced tillage and no-till systems](#) where minimal disturbance and seeding into cover crops or heavy residue is required.



Fluted Coulter

This 432mm-diameter coulters, with its narrower design and smaller flutes, penetrates harder soils easier. It is the [preferred blade for pasture renovation](#).

Key Drill Components

The Spartan[®] series of drills offers maximum performance from beginning to end of the seeding process. The system features an integrally mounted 432mm no-till coulters and row unit combination with the opener moving independently of the coulters. The trailing double-disc opener features 330mm x 4mm blades, 205 triple-lip sealed bearings, and has a 6.5mm leading opener blade. A variety of closing wheels complete seed placement.

CLOSING WHEELS

A CHOICE OF SEED PLACEMENT FINISHING OPTIONS

Great Plains offers a range of different closing wheel designs to suit different needs and soil conditions. Each of the options below ensures the seed trench is closed efficiently, giving each seed the right environment in which to germinate.



25mm X 305mm Double V*

This design closes the seed trench with an aggressive "pinching" action. It provides excellent depth control in moist soil conditions.



32mm X 330mm Wedge*

Combining the "best of both worlds," this wheel closes seed trenches with an aggressive tapered edge while its large "footprint" allows it to stay on top of loose soil.



51mm X 330mm Single

This design presses soil directly over the seed, aggressively firming the soil surrounding the seed at the precise depth selected.



76mm X 330mm Centre Rib

This design firmly presses the soil directly over the seed with the centre rib of the wheel creasing the soil. This crease allows the crust to crack open for even seed emergence.

*Only available on 187.5mm row spacing on Spartan[®] 607.



DRILL COMMAND

SMART, TOUCH-SCREEN CONTROL TECHNOLOGY



ISOBUS tractor

If the tractor already has an ISOBUS 11783 compatible terminal, there is no need for any additional terminal.

IsoMatch Tellus

For tractors with or without an ISOBUS 11783 terminal a IsoMatch Tellus terminal in combination with the necessary additional cables gives the possibility to operate all ISOBUS 11783 compliant implements from any manufacturer.

IsoMatch Tellus GO

The IsoMatch Tellus GO is a Universal ISOBUS Terminal. This multifunctional one-screen terminal has been developed for fast and simple control of any ISOBUS implement, giving the farmer a 'custom made' experience as it suits all needs for simple and efficient handling of farming machinery and tasks.

TECHNICAL DATA

Model	SPARTAN [®] 607	SPARTAN [®] 907
Primary Use	No-Till	No-Till
Opener	07 Series	07 Series
Row Spacing	187.5mm or 150mm	190mm or 150mm
Number of Rows	32 or 40	48 or 60
Drill Width	6.0m	9.0m
Transport Width	3.0m	3.0m
Transport Length	9.70m	11.68m
Transport Clearance	19.1cm	47cm
Transport Height	3.96m	3.96m
Tires, Transport (no brakes)	23.5/55-26	400/60-22.5
Tires, Transport (brakes)	600/55-26.5	400/60-22.5
Tires, Wing Gauge (no brakes)	11L-15 LOAD F	11L-15SL 10 Ply
Tires, Wing Gauge (brakes)	10.0/75-15 14 Ply	11L-15SL 10 Ply
Hydraulic Requirements	Closed-Center	Closed-Center
H.P. Requirements	170+	250+
Weight (kg)	10,200 - 15,800	15,330 - 16,200
Opener Down Pressure	30kg - 110kg	30kg - 110kg
Coulter Down Pressure	180kg - 250kg	180kg - 250kg
Hopper Capacity	1 - 5280L or 2 - 2885L	2 - 3500L

Specifications are subject to change without prior notification. Images may or may not depict current production models.

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