



STRIP-TILL CULTIVATOR

SPX



HORIZON

[OUR VISION]

Our vision begins with the soil and our commitment to the design and manufacture innovative products that promote soil regeneration, whilst also helping our customers to improve productivity, yield and profitability.



[OUR PROMISE]

Our soils are degrading at an alarming rate. We recognise that to sustain our soils, farmers require quality, reliable machinery and components that address agronomic issues and at the same time increase efficiency and productivity.

Our promise is to imagine, develop and manufacture innovative machines and components that challenge perceptions, improve efficiency, productivity and make a real difference to the environment.

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[OUR STORY]

George Sly's passion for agronomy and his ongoing campaign to promote better soil health through regenerative farming principals, has led him on a journey of discovery and was ultimately the driving force behind him starting his own business in 2006.

Sly Agri was built on historical family ties with agricultural equipment and engineering practices. The 300 hectare Sly family farm (in Lincolnshire), is at the heart of the company's activities, providing the opportunity to conduct vital in-field research, the results of which inform and contribute to the product development process.

In 2019 Sly Agri was rebranded as Horizon Agricultural Machinery Ltd, the focus of which, has been the production of innovative agricultural machinery that facilitates regenerative and conservation-friendly farming.



GEORGE SLY - MANAGING DIRECTOR





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[WHAT IS STRIP-TILL?]

Strip-till combines the benefits of conventional tillage with the conservation-friendly advantages of no-till farming. The low-disturbance, targeted tillage approach, consists of only cultivating a narrow band of soil in which the crop is to be planted, leaving lanes of uncultivated soil and residue either side of the furrow.

[WHAT ARE THE BENEFITS?]

Only disturbing the soil in the seeding zone dramatically improves soil health and allows harvest machinery to travel without causing damage to the soil

+

In-row fertiliser placement (liquid or granular) reduces the need for fertiliser applications whilst also reducing the weed burden between the crop rows

+

Conditioning the soil in and below the seeding zone creates the perfect growing environment for the plant, which will ultimately ensure the optimal level of yield

+

Passes with the SPX during Winter and Spring allows air into the soil, to aid the drying and warming processes, which are essential for row crops on heavier soil types

+

Fewer passes equates to reduced cultivation time and cost

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[WHY CHOOSE THE SPX?]

Horizon possess over 15 years' experience of successfully applying strip tillage practices to all over the world. With this wealth of knowledge, the Horizon SPX was carefully designed with the ability to easily adapt to different applications and conditions

+

The mounted toolbar is directly attached to the tractor 3-point linkage, so that the SPX perfectly follows the GPS, which is essential for the following planter operation

+

Pneumatically controlled row cleaners with CleanSweep technology can be adjusted in-cab for can quick and accurate adjustment

+

The positioning, widths and angles of the deflector discs can be easily adjusted offering multiple of berm building options

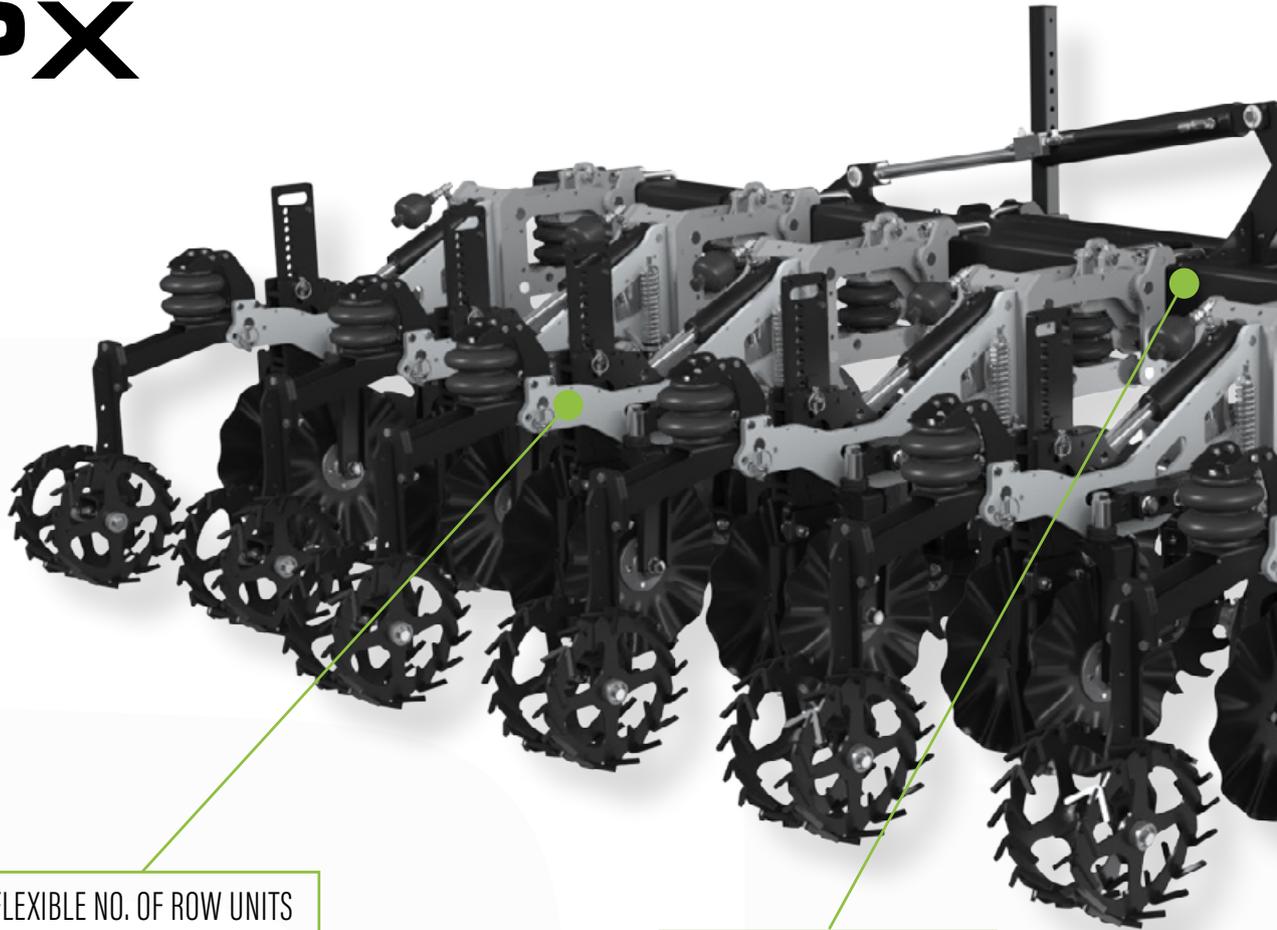
+

The pneumatic consolidation system with in-cab adjustment offers different wheel options for different soil types



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FLEXIBLE NO. OF ROW UNITS

Up to 12 rows

FLEXIBLE ROW SPACING

From 400mm



EXPANDABLE FOLDING TOOLBAR
4.4m | 6m

MARKET LEADING COULTER ROW UNIT
See pages 13-14 for more information

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[MOUNTED TOOLBAR]

The mounted SPX toolbar is specifically designed to ensure the cultivation units are mounted as closely to the tractor as possible, allowing the SPX to follow the tractor's GPS with pinpoint accuracy. The mounted toolbar is incredibly manoeuvrable and lightweight, which keeps unnecessary soil compaction to a minimum. The toolbar comes in working widths of 3m, 4.4m and 6m options with the larger machines being capable of folding under 3m for transport purposes.

[FLEXIBLE ROW SPACINGS]

The SPX design allows the cultivation units to be configured at any desired row spacing above 400mm. Spacing can easily be altered to allow the same SPX to be utilised for seedbed preparation ahead of a variety of row crops such as maize, sugar beet, broccoli, sweetcorn, soya, sunflower and oilseed rape.

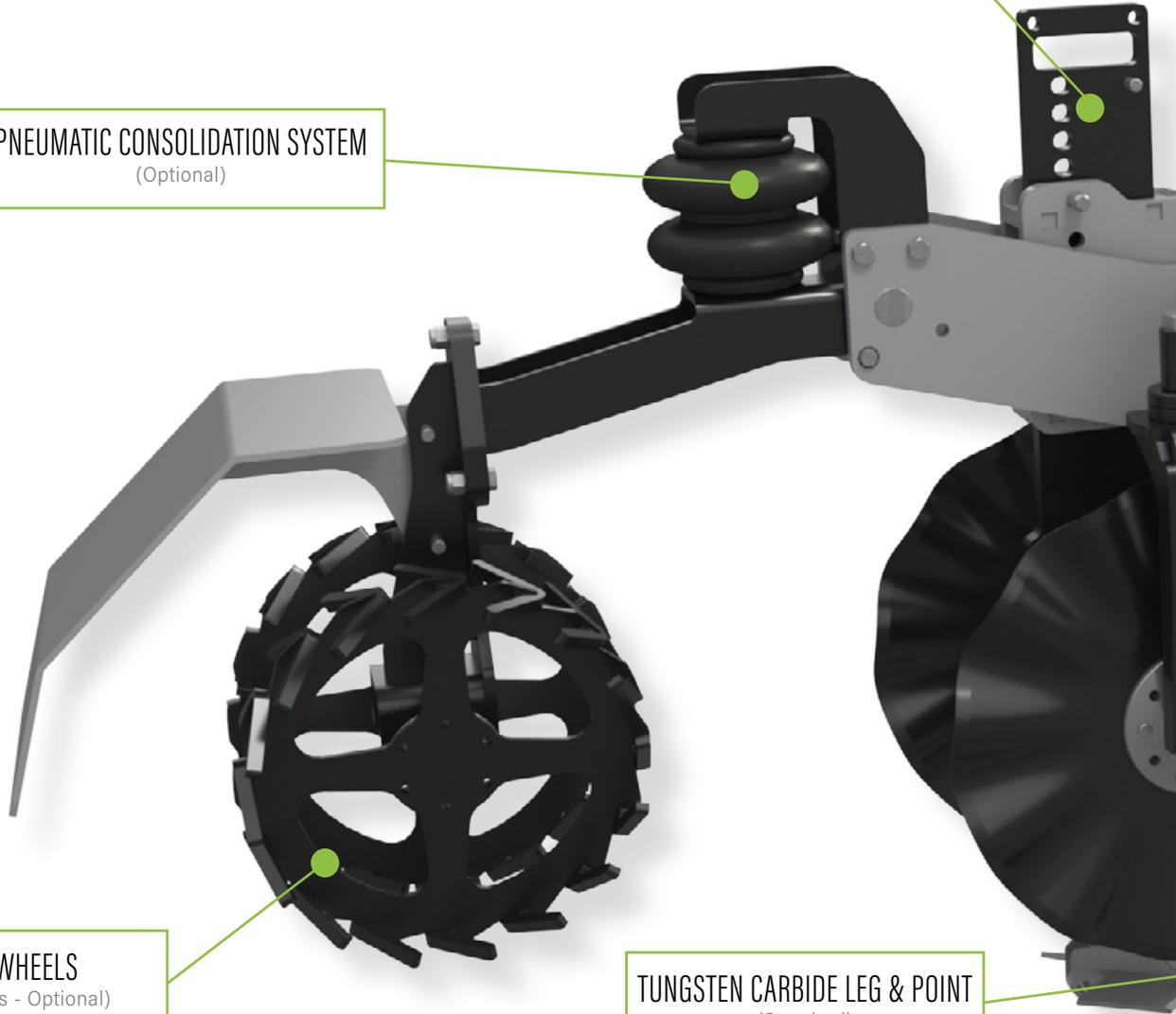


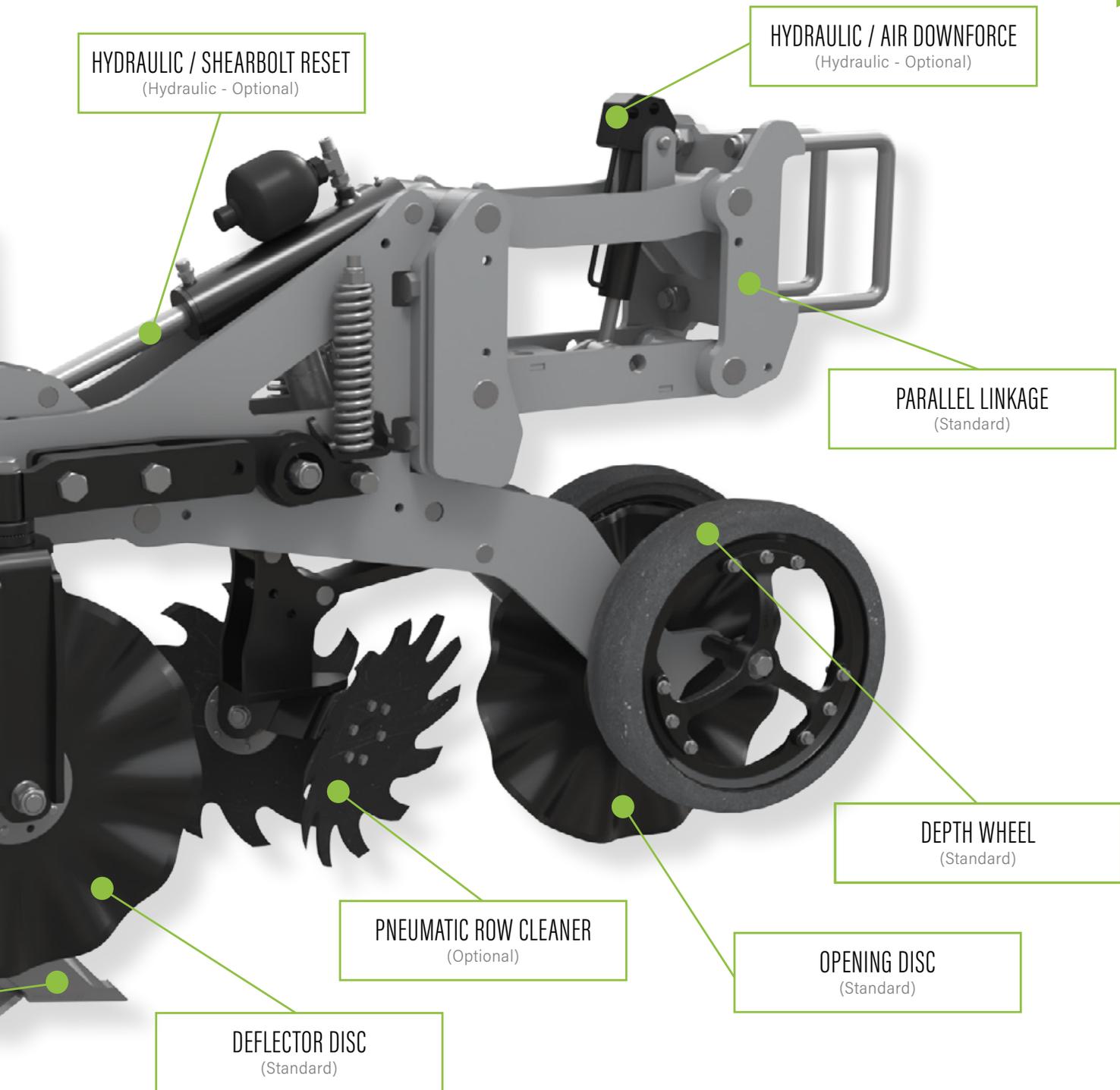
LEG WITH PIN DEPTH ADJUSTMENT
(Standard)

PNEUMATIC CONSOLIDATION SYSTEM
(Optional)

PACKING WHEELS
(Rubber wheels - Optional)

TUNGSTEN CARBIDE LEG & POINT
(Standard)





HYDRAULIC / SHEARBOLT RESET
(Hydraulic - Optional)

HYDRAULIC / AIR DOWNFORCE
(Hydraulic - Optional)

PARALLEL LINKAGE
(Standard)

DEPTH WHEEL
(Standard)

PNEUMATIC ROW CLEANER
(Optional)

OPENING DISC
(Standard)

DEFLECTOR DISC
(Standard)



[CULTIVATION LEG]

The pin-adjusted cultivation leg can work at depths of 100mm to 400mm. It can be fitted with high or low disturbance tungsten carbide points. Wings can also be fitted to create soil lift where required.

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[PNEUMATIC ROW CLEANERS]

For the majority of row crops to germinate effectively, it is essential that the seed is planted into trash free soil. The optional SPX row cleaners utilise market leading CleanSweep technology from Precision Planting, to remove all surface trash from the seeding zone. Each row cleaner is adjusted using air cylinders from inside the cab.

[DEFLECTOR DISCS]

The width, angle and positioning of the deflector discs can be adjusted according to the season and field conditions. Strip widths from 150mm - 300mm and a mound height of between 0mm and 100mm are achievable. In Spring, the deflector discs can be set in a parallel position, leaving the strips level with the unmoved ground. In the Autumn, the discs can be set at an angle, leaving the cultivated strip higher than the unmoved ground, allowing the soil to settle over winter.

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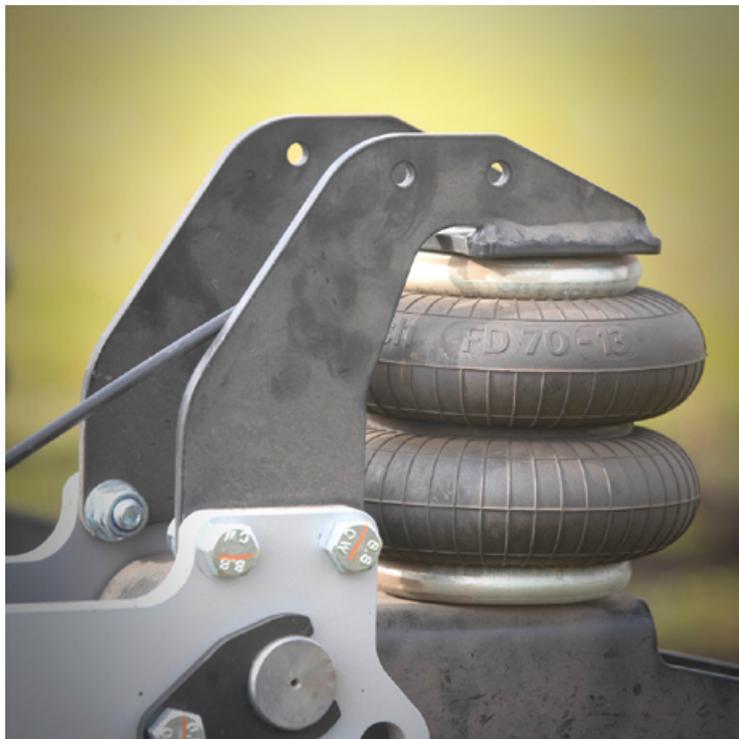
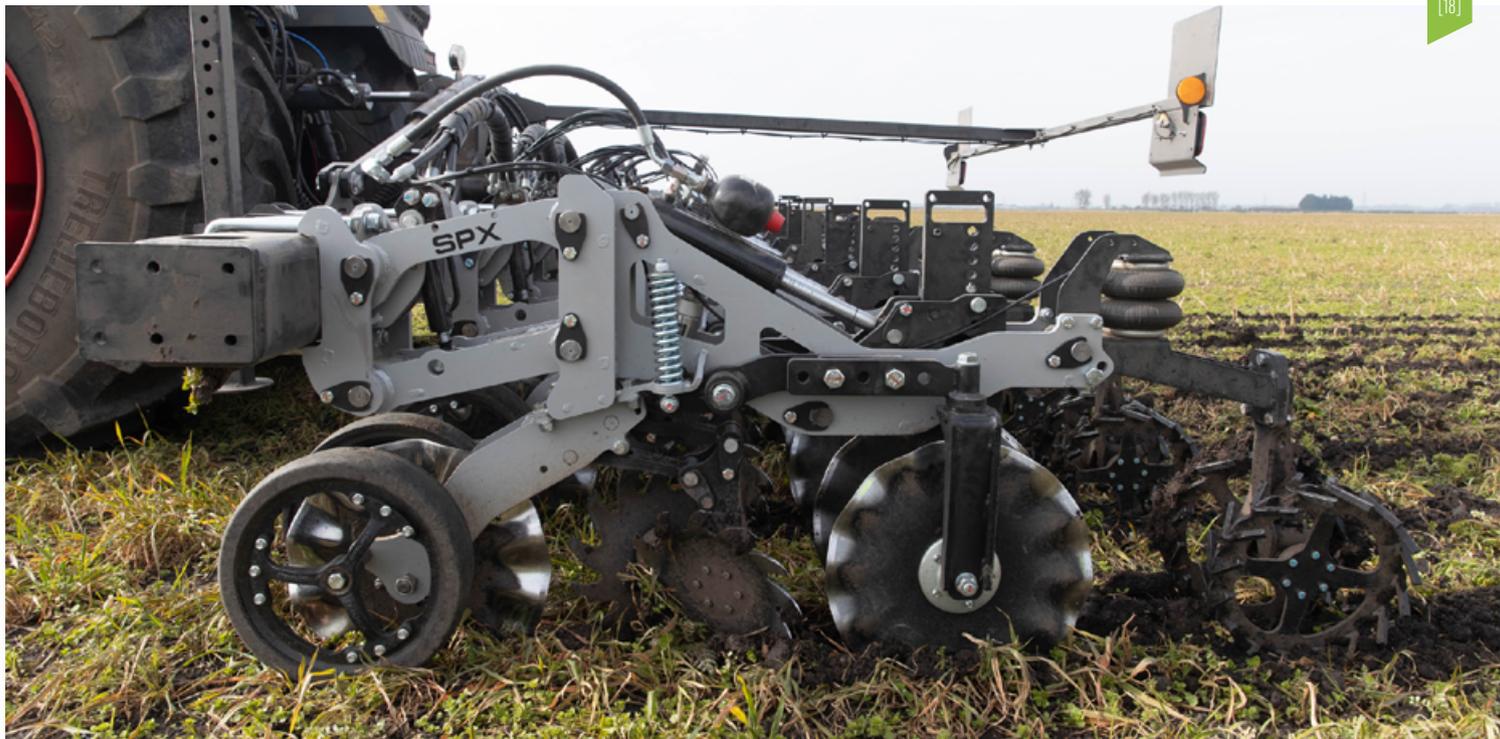
SPX

[CONTOUR FOLLOWING]

The parallel linkage offers 260mm of travel to ensure that the working depth is consistently maintained. Either hydraulic or pneumatic downforce can be fitted so ensure constant penetration.

[AUTO RESET]

The SPX offers either shearbolt release or hydraulic auto reset options for the cultivation leg. The pressure on the hydraulic auto reset can be easily adjusted on a single valve from 10 to 200 bar, depending on application.



PRODUCT DATA

SPX

[DIMENSIONS]

Frame (m)	3 (rigid)		6 (rigid)		4.4 (folding)		6 (folding)	
Rows	4	6	8	12	6	8	8	12
Spacing (cm)	75	50	75	50	75	50	75	50
Width (cm)	298	298	570	605	427	427	577	589
Height (cm)	148	148	148	148	148	148	148	148
Length (cm)	222	222	222	222	149	149	149	149
Transport Width (cm)	298	298	570	605	298	298	298	298
Transport Height (cm)	148	148	148	148	247	247	322	328
Transport Length (cm)	222	222	222	222	249	249	249	249
Weight (kg)	1400	1970	2710	3880	2315	2880	2985	4120

[STANDARD / OPTIONAL EQUIPMENT]

Standard Equipment	Tungsten carbide wear legs	Tungsten carbide points	Shear bolt reset	Air downforce
Optional Equipment	Seeding application	Vibrotine kit (refresh)	Tine wing kit (narrow and wide)	Hydraulic auto reset
	Hydraulic down force	Section control	Liquid fertiliser manifold mount	Rubber packing wheels
	Single row seeding kit	Double row seeding kit	Hydraulic markers	Dry fertiliser shanks



OPTIONAL EQUIPMENT

SPX

[ROAD LIGHTING KIT]



[LIQUID FERTILISER TANK]



[35MM WING KIT]



[130MM WING KIT]



[160MM WING KIT]



[LOW DISTURBANCE POINT]



[HIGH DISTURBANCE POINT]



[FABRICATION POINT]



[METAL PACKING WHEEL]



[SINGLE ROW SEEDING KIT]



[CLEANSWEEP ROW CLEANER CONTROL]



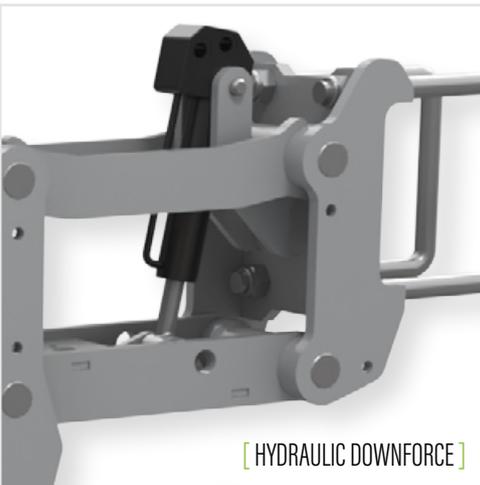
[RUBBER PACKING WHEEL]



[DOUBLE ROW SEEDING KIT]



[PNEUMATIC PACKING WHEEL CONTROL]



[HYDRAULIC DOWNFORCE]



[VIBROTINES]



[FERTILISER INJECTOR]

HORIZON

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