



# PLANTING

Seed Handling • Planting • Cultivating



# Our Passion for Farming drives our Equipment Solutions!



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SEED HANDLING



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CULTIVATING



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OUR COMPANY



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SPECIFICATIONS

# The most advanced Bulk Bed yet!

Transportation is key to any operation! With this in mind, Spudnik redesigned the Bulk Bed making it more intelligent and convenient for the operator. With the 4<sup>th</sup> Generation Bulk Bed, the

innovative MaxFlow System was engineered. With a 7.5-HP hydraulic system, the pressure and flow is automatically regulated for maximum unloading speed.

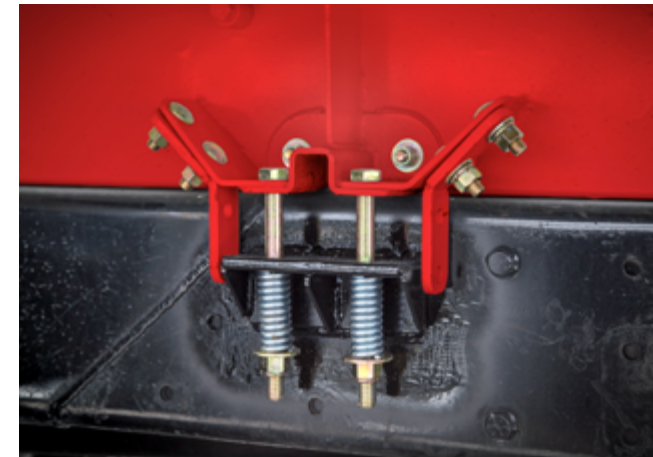
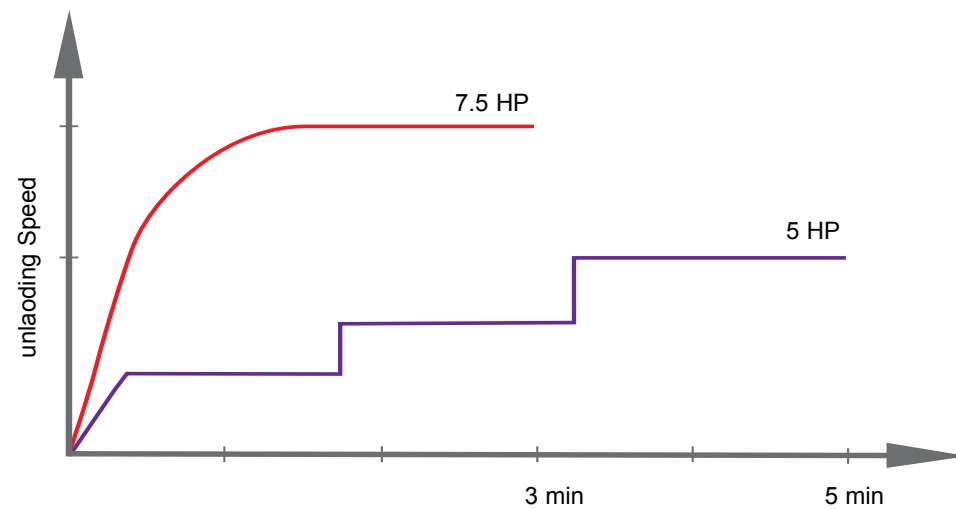
The new design provides an aerodynamic look and is easier to clean and maintain. The beds are available in lengths from 20 to 26 feet.

## MaxFlow System

Set the unloading speed and the hydraulic MaxFlow System takes care of the rest.

An intelligent-controlled hydraulic pump optimizes the oil flow to the motor to balance the speed and the torque required for maximum crop unloading. To accomplish this, the machine is equipped with a 7.5 HP electric motor.

With this new system it is possible to achieve a maximum unloading capacity up to 150 Sacks or 7.5 Tons per minute.



The mounting-system is welded and bolted, ensuring consistent alignment with the truck frame and reducing side shifting.



The function controls are centrally located and easily accessible. A selector valve chooses between electric or PTO drive and with a lever, the belt speed is set.



The bulk bed is available with a straight or angled bolt on discharge.



*"I have used the Spudnik beds for many years. The new design looks sharp and the 4400 Bed unloads faster and smoother. The double drive has worked well over the years and the angled discharge reduces bruising."*

**Russell Patterson, Triple Ace Inc., Idaho USA**



# The New Crop Cart – Increasing Efficiency!

Handling crops is always a question of how to improve efficiency. With a 700 Sack (35 Ton) capacity and fast unloading speed, the Crop Cart is challenging traditional handling.

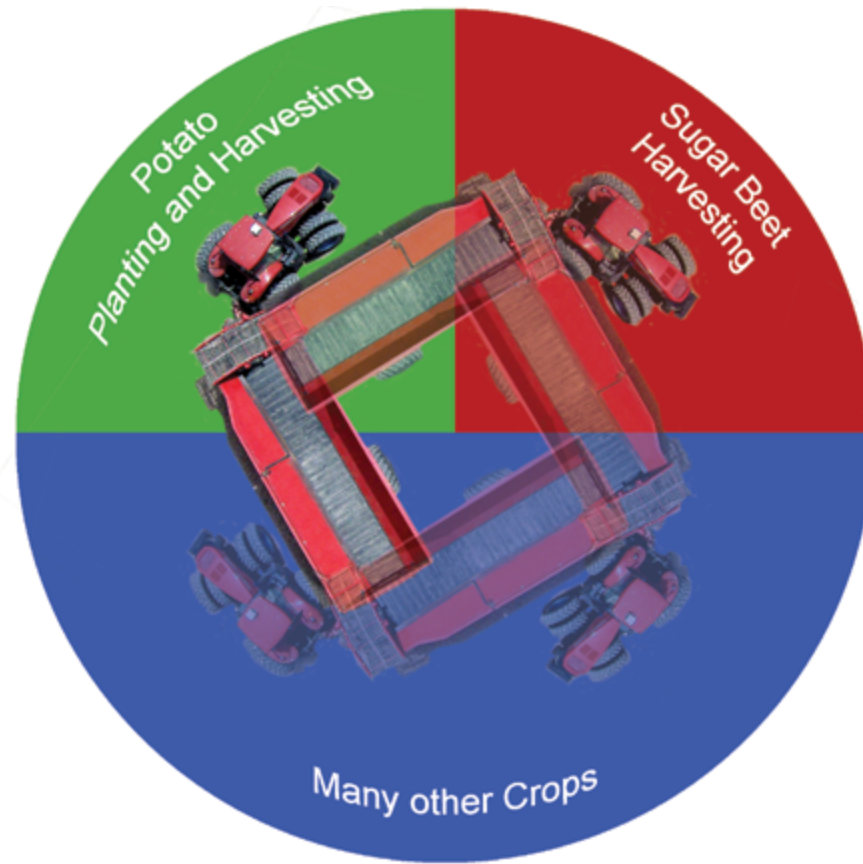
The Crop Cart can be used throughout the entire season. During planting the Crop Cart brings the seed to the planter, keeping the machines running. At harvest, the Crop Cart can be filled by

the harvester and trans-load into semi trailers, bridging the gap between the Field and Transportation Equipment to improve the entire operation.

## Use it year round

The Crop Cart is designed to be used with multiple crops: Potatoes, Sugar Beets, Grains, Carrots, Cucumbers and many others.

The single axle supports a tight turning radius of 80 ft (24 m), allowing operation in small areas and with heavy duty tires (900/70 R32), it handles the load and reduces soil compaction.



## Planter Filling in Seconds

The foldable side door reduces drop height for gentle loading. Planting efficiency is increased by bringing the seed to the planter, with the ability to fill up to four, 6-row planters with one load.

The position of the boom allows good visibility when in use.

## Capacity of a Semi-Trailer

With a capacity of 700 Sacks (35 Tons) and a fast unloading speed of up to 230 Sacks/Minute (10.5 Tons/Minute), unloading in less than 4 minutes is possible.

During trans-loading, small clods and dirt can be eliminated and left in the Field.

*"I am really satisfied with my Spudnik Crop Cart. I used it some in the potatoes and a lot in sugar beets. The greatest use is when we used it to load three 8-row planters, the loading time was about 1.5 minutes each."*

**Kim Wahlen**  
Kim Wahlen Farms, Idaho, USA

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# Basic Planter Filling

A planter-filler conveyor for direct unloading from the Bulk Bed, using the 1115 or 1125 conveyor, is available in two widths. The simplicity of the

machine allows easy setup, transport, and operation, by a single operator. The 1115 is best suited for operations with single Bulk Bed unloading, while the

1125 allows dual unloading for improved planter loading efficiency. The units can also be used during harvest as a dirt Piler.

## Model 1115

### 30 Inch Belt

The 1115 Model has a 30-Inch belt width and is hydraulically driven with variable speed. A gas engine or electric motor powers the hydraulic system. Two available tip down lengths, 4 ft and 6.5 ft, to fill 6-row and 8-row planters.

(1) The tip down chute allows the gentle loading of seed into the planter.

(2) Simple boom swing mechanism.



## Model 1125

### 36 Inch Belt

The 1125 Model has a 36-Inch-wide belt, which is hydraulically driven. The conveyor has two separate hydraulic systems, one for the belt drive, and one for the auxiliary functions, which allow simultaneous use without losing belt speed.

To increase planting efficiency, an optional pup conveyor can be attached to allow staging of two Bulk Beds to minimize time switching trucks.

(1) The boom swing moves on the self-supported track with gas-shock lift assist, and the stabilizer arms also function as transport braces.

(2) With the hydraulic cylinder or manual ratchet jack, the hitch is easily raised or lowered.



*"We are impressed with the ease and speed of the 1125 seed loader. The hydraulic controls made moving the machine down to a couple of minutes - an easy job for one man to do. There was plenty of capacity loading the planter in just a couple of minutes."*

**Brian Searle, Searle Farms, Idaho USA**



# Don't let seeds of doubt grow in your fields!

With the 8000 Series, three types of planters are available: Conventional, Hill-Pro, and Bed Planters. The Conventional Planters are used in traditional rows from 32 to 38 Inch-spacing (81.3 to 96.5 cm).

Hill-Pro Planters are specifically designed for hilly terrain, up to 15 degrees, in traditional rows.

For higher plant population, the Bed Planter can plant in beds from 72 to 144 Inches (182 to 365 cm) with row spacing

from 18 to 28 Inches (45.7 to 71 cm). Inherent in all planters is a high-planting accuracy assuring better yields and low maintenance costs. Auto functions, i.e., Skip Detection and Chemical Application, increases operator ability.

## Is Your Field Big Enough?

### The new 12-Row Planter

To meet the needs of large acreage production, the 12-row planter with a maximum hopper capacity of 300 Sacks (13.6 Tons), is the perfect solution. The machine is designed to compensate contours (+/- 5 degrees) in the field, for accurate seed depth placement.



## 4, 6 and 8-Row Planters

The 8040, 8060, and 8080 Models are available in semi mount and trailed versions. With the largest hopper capacity in the industry, from 80 to 200 Sacks (3.6 to 9 Tons), ensuring maximum planting performance.

To provide the needed nutrients for the plant, the machine can be equipped with liquid and dry fertilizer. The dry fertilizer can be applied on up to 1500 Pounds per acre.

For different soil conditioning, the planter can be fitted with shanks in different positions. For high soil moisture absorption, cage rollers can be installed.

To determine plant emergence, a drag pipe is available to set the hill depth.

*"We are very pleased with the overall performance of our Spudnik planters. The hopper capacity, planting accuracy, simple controls and low maintenance really exceeded our expectations. We have one field that we call "Billy Goat", the Hill-Pro performs excellent in steep, hilly terrain. All of this helps our bottom line."*

**Todd, Kevin and Jason Thmert  
Washington, USA**

# Life Blood of the Planter – and it is even Red.

Planter performance and precision is dependent on the unique growing conditions around the world. With this in mind, Spudnik offers many different options. The heart of the planter is the row unit, coupled with the feed chain.

Ensuring optimum seed bowl level and reducing bridging in the hopper is accomplished by the feed chain. The unique planting shoe opens the furrow and sets the depth of the seed piece. To eliminate seed rolling in the furrow, the

covering discs, quickly covers the seed piece with soil, and builds the hill. To complete the customization for individual needs, additional options like fertilizer application, GPS Steering, and row finishing tools are available.

The large-diameter pulley ensures smooth delivery of the seed piece into the row unit, regardless of ground speed.

Seed is delivered consistently to the seed bowl by the hydraulically driven feed chain.

The planting belt can be tensioned or released quickly without tools.

The smaller bottom-belt pulley results in a quicker release of the seed into the row.

The adjustable sensor, sets the seed-bowl level. The feed chain helps prevent bridging and ensures optimum seed bowl level for singulation.

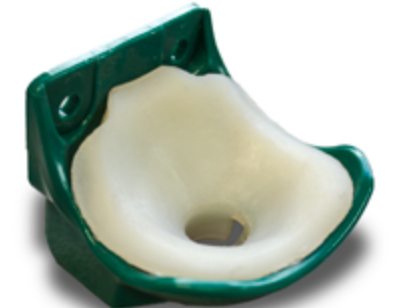
## It's all in the Cup Size



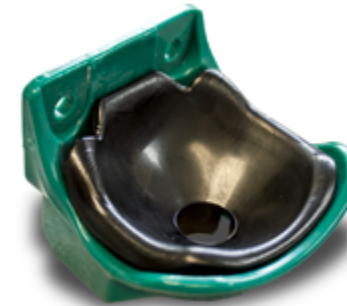
Red Cup with blue Insert for seed up to 1.5 oz (under 30 mm)



Red Cup for seed up to 2 oz (30 to 50 mm)



Green Cup with white Insert for seed up to 1.5 oz (under 30 mm)



Green Cup with black Insert for seed up to 2 oz (under 45 mm)



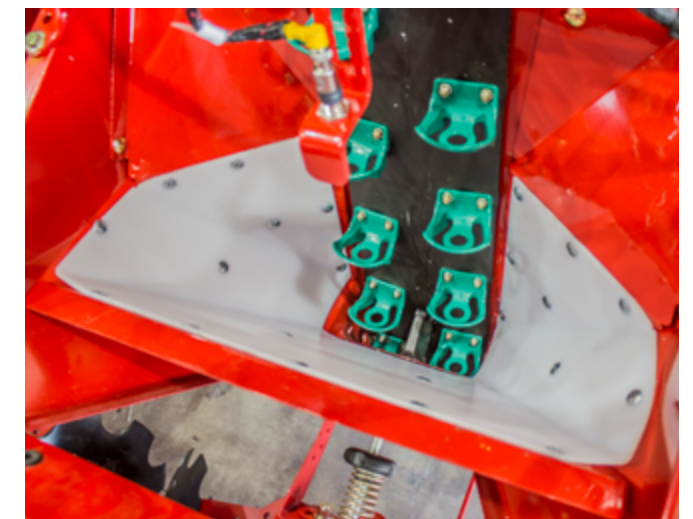
Green Cup for bigger sized seed from 2.2 to 2.8 oz (over 50mm)



Blue Cup for seed larger than 2.8 oz (over 60 mm)

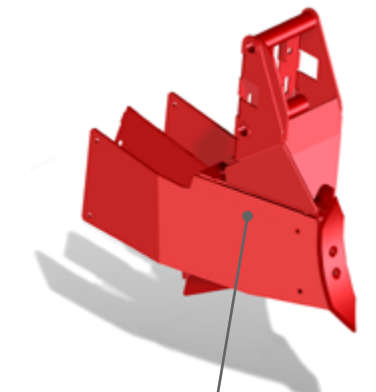
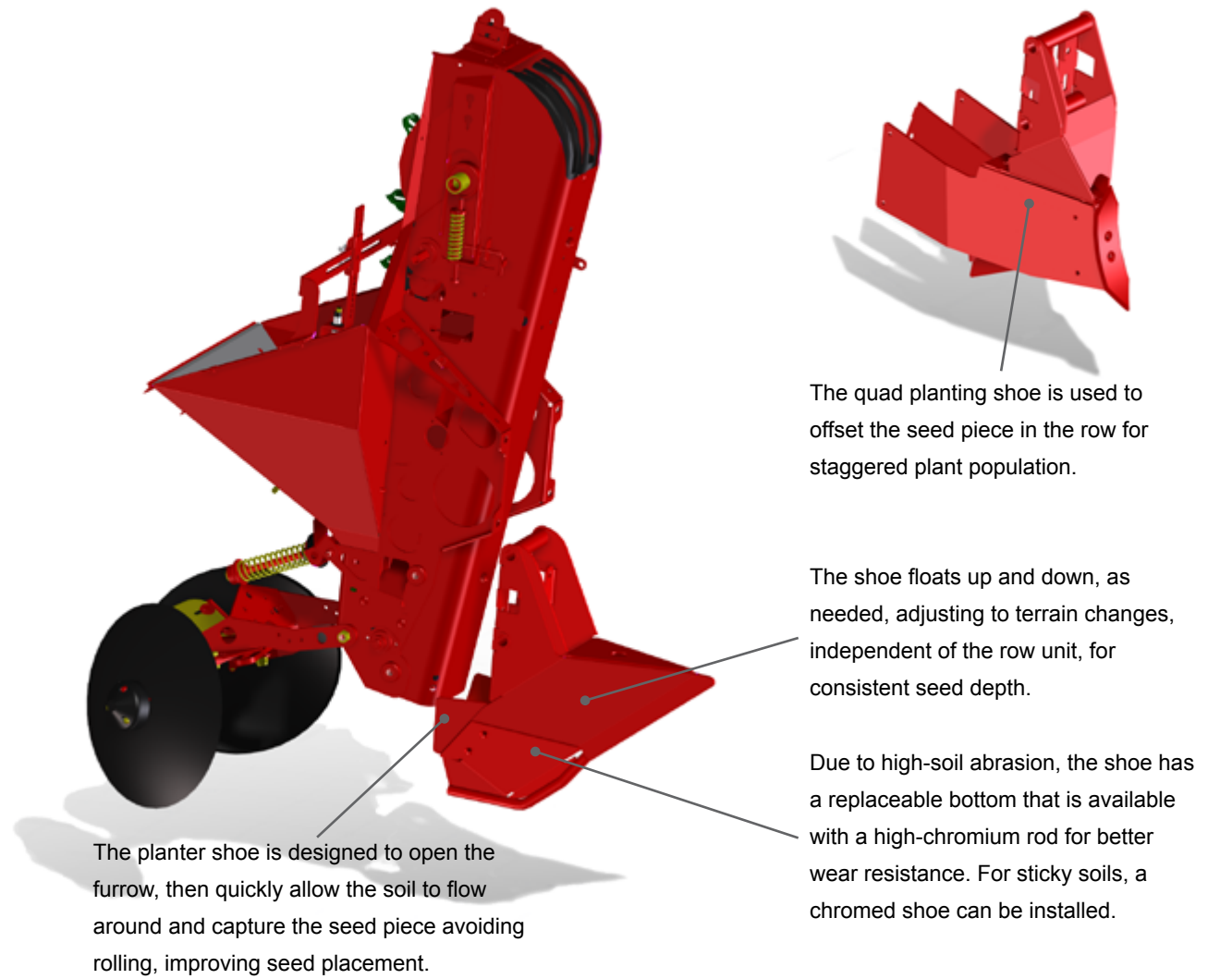


The large funnel-shaped inlet makes it possible to reliably plant a variation of seed sizes.



UHMW Inserts can be installed to limit seed bridging, due to wet or treated seed, in the bowl.

## Planting Shoe and Covering Discs



The quad planting shoe is used to offset the seed piece in the row for staggered plant population.

The shoe floats up and down, as needed, adjusting to terrain changes, independent of the row unit, for consistent seed depth.

Due to high-soil abrasion, the shoe has a replaceable bottom that is available with a high-chromium rod for better wear resistance. For sticky soils, a chromed shoe can be installed.

The planter shoe is designed to open the furrow, then quickly allow the soil to flow around and capture the seed piece avoiding rolling, improving seed placement.



The spring-loaded discs cover the potato with dirt and form a preliminary hill. The external hub with bearings are reliable, and maintenance free. Diameters of 18" (46 cm) or 20" (50 cm) are available in a straight or serrated disc.



## Row Unit Features



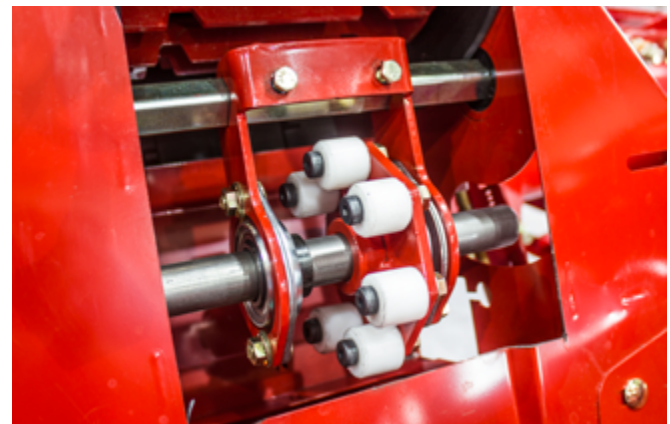
Hydraulically-driven row unit: Independent of ground speed, used for variable seed rating. A mechanical drive is available.



To switch off each row unit independently, for headland management or seed planting, an electric clutch is available.



For spraying tracks or on wedge-shaped fields, the planting elements can be individually switched off mechanically.



Hydraulic driven shaker is operated at high frequency and low impact, resulting in less doubles and reduced bruising.



The seed bowl can quickly be emptied, with the opening of the stainless-steel lid.



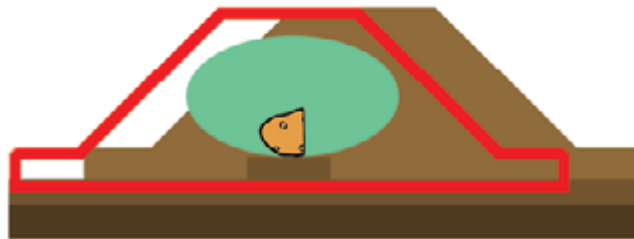
The gage wheels are available in two sizes, for individual depth control of two rows.



## Fertilizer Application and Implement Guidance



The dry-fertilizer option is available to efficiently place the fertilizer at the correct rate and depth for optimal plant growth. The fertilizer is applied in two bands, next to the seed piece, for a consistent growth pattern.



GPS capable planters, with steerable axles, to take advantage of precision farming. For fields with side hills, it is especially important for correct seed and row alignment to reduce green ends on the tubers.

## Soil Conditioning, Controls, and Displays



Different shanks are available to loosen the soil to improve tuber growth. They can be positioned in front of, or behind the row unit, and in the rear of the planter. To determine plant emergence, a drag pipe is available to set the hill depth.



The cage roller improves water absorption in light soils, as well as creating a more stable row, in irrigated fields.



To reduce the number of passes in the field, a three-point hitch is available to mount additional implements.



A simple touch-screen-control terminal is available, to make adjustments as necessary.



A video-system is available, to track the planting process and monitor key functions.

# Excellent for Hills and changing Seed Profile!

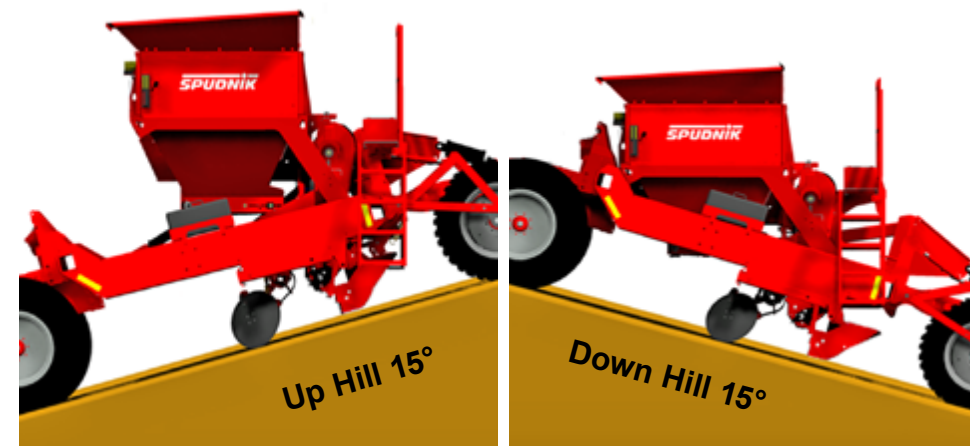
The purpose of the 8000 Series Hill-Pro Planter is to reduce skips and doubles as the machine goes up and down hill. As a secondary benefit, due to changing seed profiles and different varieties, the

planting accuracy can be increased by adjusting the angle of the row unit. To keep the row unit and hopper in a vertical position, the machine automatically pivots +/-15 degrees to

counter the effects of the slope. This unique ability makes it the most versatile planter on the market.

## The *HILL-PRO* Planter

These machines are available in 6 or 8 rows as a trailed version. The hopper capacity ranges from 120 to 200 Sacks (5400 kg to 9000 kg) with row widths of 34 and 36 Inch (86.3 to 91.4 cm). For soil conditioning, the planter can be fitted with shanks in different positions. For high-soil moisture absorption, a cage roller can be installed. To determine plant emergence, a drag pipe is available to set the hill depth.



## Fertilization

To provide the needed nutrients for the plant, the machine can be equipped with liquid and dry fertilizer. The dry fertilizer can be applied up to 1500 Pounds per acre.

## Placement Accuracy

As the machine travels up and down the hill, maximum +/- 15 degrees, the hopper and row unit rotate, while the shoe slides, to maintain consistent planting accuracy. The angle of the row unit and the shakers can be used in combination to singulate the seed pieces, eliminating skips and doubles.

*"As seed growers, the Hill-Pro helps us optimize placement accuracy, no matter the seed variety or size by pivoting the row unit manually, bridging is also minimized."*

**Tim, Nick, John, and Eric Venhuizen**  
Spring Creek Farms, Montana, USA

# Explore the Benefits of Bed Planting

Today, bed planting is recognized as an alternative to conventional planting. Potato research has shown there are significant differences over conventional planting, such as uniform tuber size,

regular shape, water conservation, and increased production. A typical 144-Inch (365 cm) bed which matches a standard 4-row, 36-Inch (91.4 cm) system, results in 20% increase in plant population.

Working with researchers and growers, Spudnik has developed many different bed configurations to meet every needs.

## Basic Information

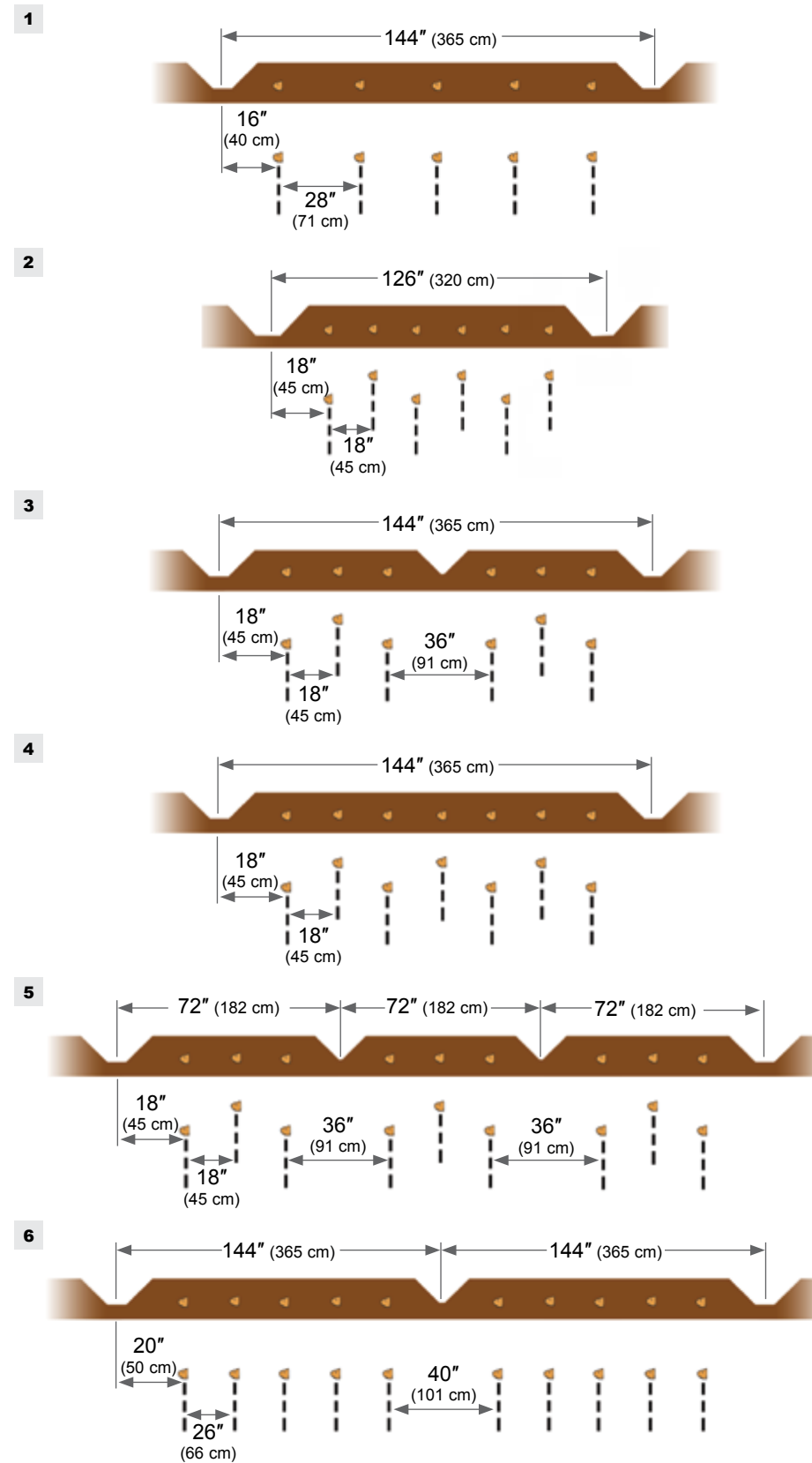
Machines are available in 5, 6, 7, 9, and 10-row configuration, semi mount or trailed version. The hopper capacity ranges from 80 to 200 Sacks (3.6 to 9 Tons), with row widths 18 to 28 Inches (45 to 71 cm). Since the bed planter is developed on the same platform as the conventional planters, the same options are available.



## Diverse Bed Designs

With your needs in mind, Spudnik offers unique bed-planter configurations.

- (1) **5 Rows in 1 Bed**  
A typical 5-row bed configuration has a bed of 12-foot (144 Inch), with 32-Inch guess row. The in-row spacing ranges from 26 to 28 Inches.
- (2) **6 Rows in 1 Bed**  
6 rows in a single bed, with a width of 126 Inches, 18-Inch row spacing.
- (3) **6 Rows in 2 Beds**  
2 beds containing, 3 rows each, has a width of 144 Inches, and 18 Inch row spacing.
- (4) **7 Rows in 1 Bed**  
For 7 rows in 1 bed, and a bed width of 144 Inches, row spacing is set to 18 Inches.
- (5) **9 Rows in 3 Beds**  
9 rows, across 3 beds with 18 Inch row spacing.
- (6) **10 Rows in 2 Beds**  
This bed design is based on the 5 row in 1 bed system with the advantage of larger acreage production.



# Hillers to form the row your way!

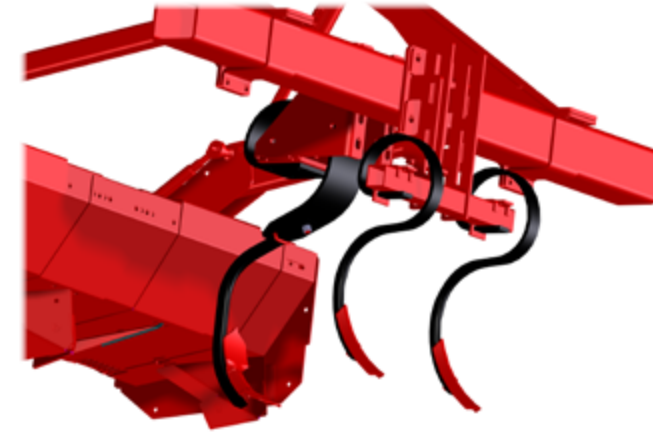
Adequately covering the seed piece with sufficient soil is important for tuber growth. The Spudnik Hiller, available in 4, 6, and 8-row Models, form the soil around the seed piece to eliminate soil erosion

and cracks. Clods are pushed into the hill, allowing them to absorb moisture and be broken down during the season. The hiller is designed to form a trough in the top of the hill, encouraging plant emergence in the center of the row.

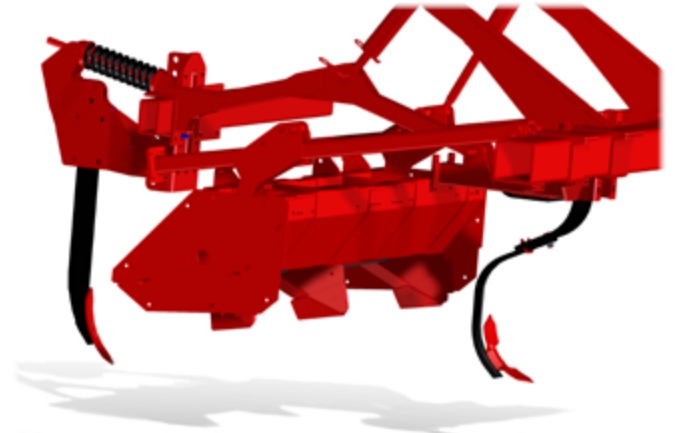
A prop can be installed on the machine to create pockets in the row for water collection conservation. Depending on soil conditions, different shanks are utilized to loosen the soil to build the hill.

*"The Spudnik hiller builds the most consistent hill we have found, giving us less greening and leaves us a good hill to dig and windrow into in the fall."*

**Jon McCrum**  
County Super Spuds, Maine, USA



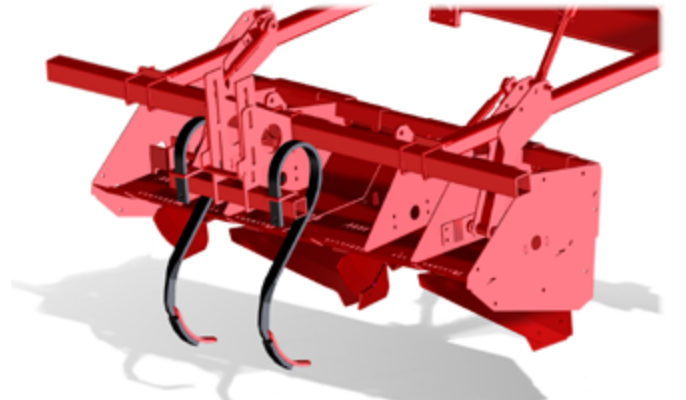
For sandy soils and rocky conditions, a David Tooth Tine is available with light S-Tines to break up soil crust.



A combination of rippers before and after the forming boards are available to loosen the soil when using props.



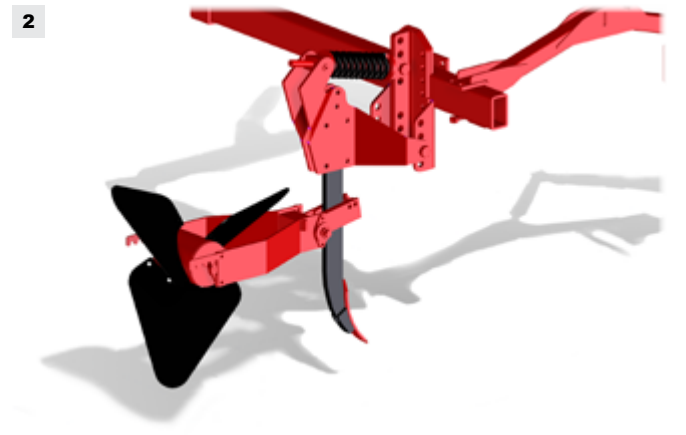
For heavy soil conditions, a heavy ripper can be installed with light S-Tines to break up surface crust.



A standard or short former is available with heavy S-Tines for breaking up tractor tracks and reducing compaction.



Props eliminate water run off and conserve valuable moisture. The Spudnik prop (1) creates a deep pocket without removing soil from the hill. The Sunco prop (2) creates an angled pocket minimizing vehicle rocking when field working.



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# Maximizing Moisture and Eliminating Compaction

Soil loosening is important to allow the root structure to easily move through the soil to extract the nutrients required. The new Cultivator creates deep tillage, providing the legroom for the plant to

grow and mature. The machine is designed to work closer to the tractor, and is equipped with a large shank with hydraulic rock protection to reduce stress on the machine.

To determine plant emergence, a drag pipe is available, to set the hill depth. Large props, for creating pockets for water conservation, can be installed at the rear of the machine.

## Cultivation

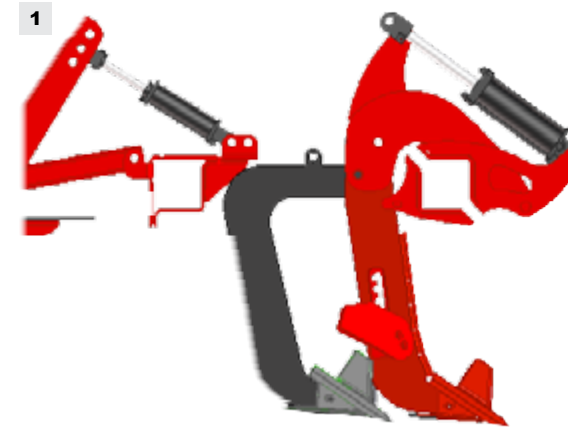
### 6 or 8-Row Model

The cultivators are available in 34 or 36 Inch (86.3 cm or 91.4 cm) spacing, and are equipped with large shanks to loosen the soil to a depth of 16 Inch (40 cm). This deep ripping removes tire tracks, reducing field compaction.



*"This machine loosens the soil like no other machine we have had before. It leaves the ground fluffy, so more water can be absorbed and reduces clods. With the combination of deep ripping shanks and the wings to build the hill, we have replaced two machines."*

**Bryton, Conrad and Grant Ricks  
Ricks Farms, Idaho, USA**



(1) Compared to other systems (shown in black), the shank is closer to the tractor, reducing side shift and the possibility of disturbing the fragile hair roots of the planted seed piece. (2) The wide ripper shanks loosen and aerate the soil.



(1) Adjustable wings help funnel more soil onto the row. (2) Hydraulic rock protection with hydraulic reset system. Upon activation the shank is raised and then lowered with controlled hydraulic pressure, eliminating stress to the frame.



# We Are Spudnik

Founded in 1958, Spudnik Equipment Company LLC, located in Blackfoot, Idaho USA, has been providing quality equipment to meet the needs of Potato growers across the nation and around the world.

Spudnik has built a reputation of quality machinery, with a strong commitment to after-sales service, that is unprecedented in the industry. With a staff of highly-skilled men and woman, working together to provide

innovative equipment and solutions to improve potato production efficiency. Through listening to the needs of customers from around the world, Spudnik is committed to developing innovative solutions to improve Harvesting Success!



## With Peace of Mind

### 24/7 Service

Spudnik continues the legacy of providing well trained, equipped, and competent service technicians to assist the growers in the field. At the end of the day, our technicians make sure your machines are ready to go in the morning.



## Always helpful

### Spare Parts

Service after the sale is as important as the sale of the machine itself. With a commitment of several million dollars of parts inventory, pleasant knowledgeable parts technicians are ready to help the customer.



## Always up-to-date

### Training

Spudnik conducts hands-on training for customers and dealers, on site, in a classroom environment, as well as with the machine keeping up-to-date with advances in hydraulic, electrical, and mechanical systems.

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# The reason you find us everywhere!

With more than 50 years in the industry, Spudnik has built a reputation of quality products and reliable service. As a member of the Grimme Group of companies, which is headquartered in

Germany, Spudnik is represented around the world. Today more than 70% of the world's industrial-potato crop is planted with a Spudnik or Grimme Planter. With a worldwide dealer

network, providing the correct area-specific solutions for local customers, Spudnik and Grimme continue to develop and design equipment to meet growers needs.



Spudnik Equipment Company LLC, Blackfoot, Idaho  
Headquarters and production site in North America.



Grimme Landmaschinenfabrik GmbH & Co. KG, Damme  
Headquarters and production site in Germany.

## Technical Specifications (Bulk Bed and Crop Cart)

	Bulk Bed				
<b>Model</b>	<b>4400</b>				
Specific Model Length	20 ft (6.9 m)	21 ft (6.4 m)	22 ft (6.7 m)	24 ft (7.3 m)	26 ft (7.9 m)
Capacity	320 Sacks (14500 kg)	335 Sacks (15200 kg)	350 Sacks (15800 kg)	380 Sacks (17200 kg)	410 Sacks (18600 kg)
Unloading Capacity	100 Sacks/min (4500 kg/min)	100 Sacks/min (4500 kg/min)	100 Sacks/min (4500 kg/min)	100 Sacks/min (4500 kg/min)	100 Sacks/min (4500 kg/min)
<b>Dimensions</b>					
Length Overall	286 <sup>3/4</sup> in (7.5 m)	289 <sup>3/4</sup> in (7.6 m)	310 <sup>3/4</sup> in (8.1 m)	334 <sup>3/4</sup> in (8.7 m)	358 <sup>3/4</sup> in (9.3 m)
Discharge Length	40 <sup>3/16</sup> in (1 m)	40 <sup>3/16</sup> in (1 m)	40 <sup>3/16</sup> in (1 m)	40 <sup>3/16</sup> in (1 m)	40 <sup>3/16</sup> in (1 m)
Width	102 in (2.6 m)	102 in (2.6 m)	102 in (2.6 m)	102 in (2.6 m)	102 in (2.6 m)
Height	76 in (1.9 m)	76 in (1.9 m)	76 in (1.9 m)	76 in (1.9 m)	76 in (1.9 m)
Belt Length	44 ft-2 in (13.5 m)	46 ft-2 in (14 m)	48 ft-2 in (14.5 m)	52 ft-2 in (16 m)	56 ft-2 in (17 m)
Belt Width	30 in (76 cm)	30 in (76 cm)	30 in (76 cm)	30 in (76 cm)	30 in (76 cm)
Weight	4800 lb (2100 kg)	4900 lb (2150 kg)	5000 (2200 kg)	5200 (2300 kg)	5400 (2400 kg)
<b>Control and Operations</b>					
Electric Drive with Maxflow-System	o	o	o	o	o
PTO Drive	o	o	o	o	o
Electric / PTO Drive with Maxflow-System	o	o	o	o	o
240 Volts, 1 Phase (7,5 HP, up to 40 Ampere)	o	o	o	o	o
240 Volts, 3 Phase (7,5 HP, up to 18 Amerpe)	o	o	o	o	o
480 Volts, 3 Phase (7,5 HP, up to 9 Amerpe)	o	o	o	o	o
Rear Wall Door	o	o	o	o	o
Spudnik Tarp	o	o	o	o	o
E-Z Tarp	o	o	o	o	o
Shurco Tarp	o	o	o	o	o
Straight Discharge	o	o	o	o	o
Angled Discharge	o	o	o	o	o
Cab to Tailgate Switch	o	o	o	o	o
Fenders	o	o	o	o	o
Tail Lights	o	o	o	o	o

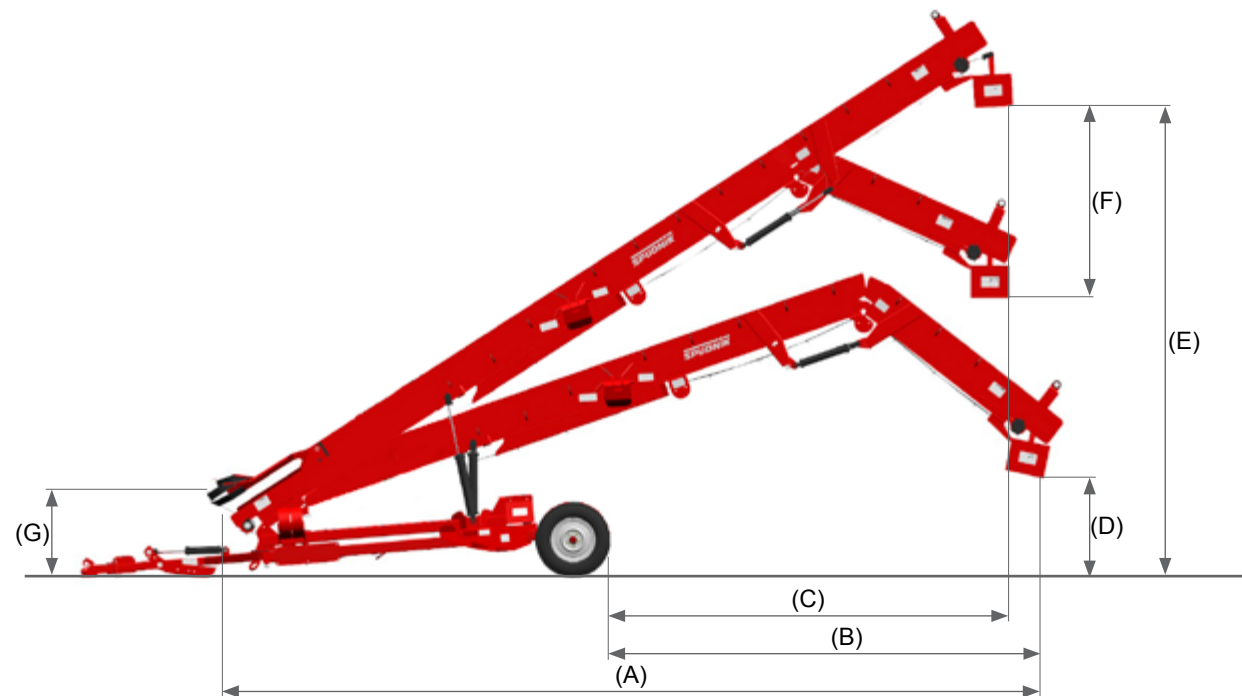
	Crop Cart
<b>Model</b>	<b>4835</b>
Load Capacity	700 Sacks (35 Tons (US))
Unload Speed (Potato, Sugar Beet)	233 Sacks / min (10.5 Tons (US)/min)
Unload Speed (Grains)	N/A
Transport Goods	Potato, Sugar Beet, Wheat, Barley, Corn
<b>Dimensions</b>	
Length	40 ft (12.20 m)
Width	14 ft-3 in (4.59 m)
Height (Transport/Work)	12 ft-4 in / 11 ft-2 in (3.75 m / 3.40 m)
Boom Belt Width	48 in (1.22 m)
Boom Unloading Height (Highest/Lowest)	13 ft / 8 ft (4.00 m / 2.45 m)
Tub Belt Width	60 in (1.52 m)
Empty Weight	23,000 lb (10400 kg)
<b>Chassis</b>	
Axle	Single Axle
Tire Size	900/70 R32
<b>Control and Operations</b>	
Tarp Kit	o
Rear Discharge	o
<b>Tractor Requirements</b>	
Tractor hp	300 hp (225 kW)
Hitch	Heavy Duty
Tongue Weight	11,000 lb (5000 kg)
Tractor Hydraulic Requirement (Minimum)	60 gpm (150 l/min)
Required Remote	3
Operating Oil Pressure	3000 psi (206 bar)
Transport Speed (Empty)	20 mph (32 km/h)
Transport Speed (Loaded)	6 mph (10 km/h)

● Standard ○ Option / Attachment – Not available

## Technical Specifications (Planter Filler)

	Planter Filler	
Model	1115	1125
Capacity	60 Sacks/min (3 Tons(US)/min)	85 Sacks/min (4.5 Tons(US)/min)
Belt Width	30 in (76 cm)	36 in (91 cm)
<b>Dimensions</b>		
Length (Lowest Position) <b>A</b>	282 in (7.2 m)	303 in (7.7 m)
Boom Distance behind the tire (Lowest Position) <b>B</b>	141 in (3.6 m)	146 in (3.7 m)
Boom Distance behind the tire (Highest Position) <b>C</b>	130 in (3.3 m)	135 in (3.4 m)
Discharge Height (Lowest Position) <b>D</b>	30 in (0.75 m)	36 in (0.9 m)
Discharge Height (Highest Position) <b>E</b>	190 in (4.8 m)	171 in (4.3 m)
Tip Down Range <b>F</b>	44 in (1.1 m)	70 in (1.8 m)
Hopper Height <b>G</b> / Jack up	35 in (0.9 m)	32 in / 51 in (0.8 m / 1.3 m)
Tip Down Length 4' (122 cm)	•	–
Tip Down Length 6'6" (198 cm)	○	•
Hydraulic Discharge Chute	•	•
Boom Swing Length (with long Tip Down)	314 in (8 m)	308 in (7.8 m)
Transport (Length x Width)	97 in x 313 in (2.5 x 7.9 m)	100 in x 362 in (2.5 m x 9.2 m)
Transport Speed	25 mph (40 km/h)	25 mph (40 km/h)
Width	97 in (2.5 m)	90 in (2.3 m)
Tire Size	670 x 15	670 x 15
Weight	3500 lb (1600 kg)	5700 lb (2600 kg)
<b>Control and Operations</b>		
Manual Control	•	•
Wireless Remote	–	○
Drive Power Source	Gas, Electric or Combination of both	Gas, Electric or Combination of both
Boom Swing	Hydraulic Wheel Drive	Hydraulic Cylinder
Hopper	Rigid	Flexible
Frame for Pup Conveyor	–	○
Jack	Manual	Ratchet / Hydraulic
LED Light	–	○
Tow Hitch Combination	Pull Ring	Ball / Pull Ring Combination

• Standard ○ Option / Attachment – Not available



## Technical Specifications (Conventional and Hill-Pro Planter)

	Conventional Planter				Hill-Pro Planter	
Model	8040	8060	8080	8312	8560	8580
Number of Rows	4	6	8	12	6	8
Row Unit Alignment	Inline	Inline	Inline	Inline	Inline	Inline
Row Spacing	32 in–38 in (81.3 cm–96.5 cm)	32 in–38 in (81.3 cm–96.5 cm)	32 in–38 in (81.3 cm–96.5 cm)	36 in (91.4 cm)	34 in–36 in (86.3 cm–91.4 cm)	34 in–36 in (86.3 cm–91.4 cm)
Seed Spacing (Mechanical Drive)	6 in–18 in (15.2 cm–45.7 cm)	6 in–18 in (15.2 cm–45.7 cm)	6 in–18 in (15.2 cm–45.7 cm)	–	–	–
Seed Spacing (Hydraulic Drive)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)
Hill Compensation	–	–	–	–	+/-15°	+/-15°
<b>Dimensions</b>						
Frame Length	101 in (2.5 m)	101 in (2.5 m)	101 in (2.5 m)	140 in (3.5 m)	126 in (3.2 m)	126 in (3.2 m)
Frame Width	176 in (4.4 m)	250 in (6.35 m)	319 in (8.10 m)	492 in (12.49 m)	250 in (6.35 m)	319 in (8.10 m)
Transport Width with End Tow	–	150 in (3.8 m)	150 in (3.8 m)	–	–	–
End Tow Kit / Foldable	–	○	○	–	–	–
Transport Height (Hitch dependent)	108 in–150 in (2.74 m–3.81 m)	108 in–150 in (2.74 m–3.81 m)	108 in–150 in (2.74 m–3.81 m)	108 in–150 in (2.74 m–3.81 m)	108 in–150 in (2.74 m–3.81 m)	108 in–150 in (2.74 m–3.81 m)
Filling Height (with / without Extension)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)
Empty Weight	12,500 lb (5600 kg)	15,500 lb (7000 kg)	18,500 lb (8400 kg)	45,000 lb (20400 kg)	18,500 lb (8400 kg)	22,000 lb (10000 kg)
Standard Hopper Capacity	80 Sacks (3600 kg)	120 Sacks (5400 kg)	160 Sacks (7200 kg)	240 Sacks (10900 kg)	120 Sacks (5400 kg)	160 Sacks (7300 kg)
Extension Hopper Capacity	100 Sacks (4500 kg)	160 Sacks (7200 kg)	200 Sacks (9000 kg)	300 Sacks (13600 kg)	160 Sacks (7200 kg)	200 Sacks (9000 kg)
<b>Chassis</b>						
Hitching Mechanism	Pulled / Semi Mount	Pulled / Semi Mount	Pulled / Semi Mount	Pulled	Pulled	Pulled
Depth Wheel	•	•	•	•	•	•
Depth Wheel Sizes	11.2/10-24	11.2/10-24	11.2/10-24	11.2/10-24	11.2/10-24	11.2/10-24
Gage Wheels	○	○	○	○	○	○
Gage Wheels Sizes	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15
Rear Axle	Caster / Walking Beam / Stretched	Caster / Walking Beam	Caster / Walking Beam	Walking Beam	Walking Beam	Walking Beam
Steerable Rear Axle	○	○	○	○	○	○
GPS Steering	○	○	○	○	○	○
Tire Sizes	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib 12.5L16	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib 12.5L16	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib 12.5L16	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib
<b>Row Unit</b>						
Cup Options	2–3 oz (30 mm–>60 mm)	2–3 oz (30 mm–>60 mm)	2–3 oz (30 mm–>60 mm)	2–3 oz (30 mm–>60 mm)	2–3 oz (30 mm–>60 mm)	2–3 oz (30 mm–>60 mm)
Mechanical Shaker	•	•	•	•	•	•
Electric Shaker	○	○	○	○	○	○
Hydraulic Shaker	○	○	○	○	○	○
Skip Detection	○	○	○	•	•	•
<b>Fertilization</b>						
Dry Fertilizer	○	○	○	–	○	–
Dry Fertilizer Capacity	70 cu/ft (1980 L)	105 cu/ft (2973 L)	140 cu/ft (3960 L)	–	105 cu/ft (2973 L)	–
Dry Fertilizer Frame Length	40 in (101 cm)	40 in (101 cm)	40 in (101 cm)	–	40 in (101 cm)	–
Liquid Fertilizer Tank Mount (Rear / Side)	○ / ○	○ / ○	○ / ○	– / ○	○ / –	○ / –
Microband	○	○	○	○	○	○
<b>Toolbar</b>						
Front Toolbar	○	○	○	–	○	○
Rear Toolbar	○	○	○	○	○	○
Trailing Toolbar	○	○	○	–	○	○
3 Point Hitch	○	○	–	–	–	–
<b>Control</b>						
Low Cost Controller	•	•	•	–	–	–
CCI Control	○	○	○	•	•	•
Camera Equipment	○	○	○	○	○	○
Cover (Tarp)	○	○	○	○	○	○
<b>Tractor Requirements</b>						
Tractor hp	120 hp (90 kW)	180 hp (135 kW)	220 hp (165 kW)	350 hp (260 kW)	180 hp (135 kW)	220 hp (165 kW)
Tractor Hydraulic Requirement per Remote	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)
Required Remote	3–4	3–4	3–4	5	3–4	3–4
Operating Oil Pressure	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)

• Standard ○ Option / Attachment – Not available



# Technical Specifications (Bed Planter)

	Bed Planter				
Model	8045	8046	8047	8069	8210
Number of Rows / Beds	5/1	6/1 or 6/2	7/1	9/3	10/2
Row Unit Alignment	Inline	Staggard	Staggard	Staggard	Inline
Row Spacing	26 in (66 cm)	18 in–22 in (45.7 cm–55.8 cm)	18 in (45.7 cm)	18 in (45.7 cm)	28 in (71.1 cm)
Bed Spacing (Standard Setup)	144 in (365 cm)	72 in (182 cm)	144 in (365 cm)	72 in (182 cm)	144 in (365 cm)
Seed Spacing (Mechanical Drive)	6 in–18 in (15.2 cm–45.7 cm)	–	–	–	6–18 in (15.2 cm–45.7 cm)
Seed Spacing (Hydraulic Drive)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)	3 in–20 in (7.6 cm–50.8 cm)
Track Width (Standard Setup)	144 in (365 cm)	144 in (365 cm)	144 in (365 cm)	72 in (182 cm)	116 in (294 cm)
<b>Dimensions</b>					
Frame Length	101 in (2.56 m)	149 in (3.78 m)	149 in (3.78 m)	149 in (3.78 m)	101 in (2.56 m)
Frame Width	176 in (4.47 m)	176 in (4.47 m)	176 in (4.47 m)	250 in (6.35 m)	319 in (8.10 m)
Transport Width	–	–	–	–	150 in (3.81 m)
End Tow Kit / Foldable	–	–	–	–	o
Transport Height (Hitch depend)	108 in–150 in (2.74 cm–3.81 m)	108 in–150 in (2.74 cm–3.81 m)	108 in–150 in (2.74 cm–3.81 m)	108 in–150 in (2.74 cm–3.81 m)	108 in–150 in (2.74 cm–3.81 m)
Filling Height (with / without Extension)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)	96 in / 108 in (2.43 m / 2.79 m)
Empty Weight	11,000 lb (5000 kg)	14,500 lb (6500 kg)	15,500 lb (7000 kg)	19,000 lb (8600 kg)	20,500 lb (9300 kg)
Standard Hopper Capacity	80 Sacks (3600 kg)	80 Sacks (3600 kg)	80 Sacks (3600 kg)	120 Sacks (5400 kg)	160 Sacks (7300 kg)
Extension Hopper Capacity	100 Sacks (4500 kg)	100 Sacks (4500 kg)	100 Sacks (4500 kg)	160 Sacks (7200 kg)	200 Sacks (9000 kg)
<b>Chassis</b>					
Hitching Mechanism	Pulled / Semi Mount	Pulled	Pulled	Pulled	Pulled
Depth Wheel	●	●	●	●	●
Depth Wheel Sizes	11.2/10-24	11.2/10-24	11.2/10-24	11.2/10-24	11.2/10-24
Gage Wheels	o	o	o	o	o
Gage Wheels Sizes	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15	20.5/8.0-10 225/75-R15
Rear Axle	Caster / Walking Beam / Stretched	Walking Beam / Stretched	Walking Beam / Stretched	Walking Beam	Walking Beam
Steerable Rear Axle	o	o	o	o	o
GPS Steering	o	o	o	o	o
Tire Sizes	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib 12.5L16	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib	14x24 Grader 14.9x24 R4 1300X24 Grader 11.25x24 Multi Rib
<b>Row Unit</b>					
Cup Options	2–3 oz (30 mm→60 mm)	2–3 oz (30 mm→60 mm)	2–3 oz (30 mm→60 mm)	2–3 oz (30 mm→60 mm)	2–3 oz (30 mm→60 mm)
Mechanical Shaker	●	●	●	●	●
Electric Shaker	o	o	o	o	o
Hydraulic Shaker	o	o	o	o	o
Skip Detection	●	●	●	●	●
<b>Fertilization</b>					
Dry Fertilizer	o	–	–	–	–
Dry Fertilizer Capacity	70 cu/ft (1980 L)	–	–	–	–
Dry Fertilizer Frame Length	40 in (101 cm)	–	–	–	–
Liquid Fertilizer Tank Mount (Rear / Side)	o / o	o / o	o / o	o / o	o / o
Microband	o	o	o	o	o
<b>Toolbar</b>					
Front Toolbar	o	o	o	o	o
Rear Toolbar	o	o	o	o	o
Trailing Toolbar	o	o	o	o	o
3 Point Hitch	–	–	–	–	o
<b>Control</b>					
Low Cost Controller	–	–	–	–	–
CCI Control	●	●	●	●	●
Camera Equipment	o	o	o	o	o
Cover (Tarp)	o	o	o	o	o
<b>Tractor Requirements</b>					
Tractor hp	120 hp (90 kW)	180 hp (135 kW)	180 hp (135 kW)	240 hp (180 kW)	240 hp (180 kW)
Tractor Hydraulic Requirement per Remote	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)	8–12 gpm (30–45 l/min)
Required Remote	3–4	3–4	3–4	3–4	3–4
Operating Oil Pressure	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)	2850 psi (196 bar)

● Standard ○ Option / Attachment – Not available

# Technical Specifications (Cultivation and Hilling Equipment)

	Cultivator		Ridging Hiller		
Model	9306	9308	9040	9060	9080
Number of Rows	6	8	4	6	8
Row Spacing	34 - 36 in (86.3 cm - 91.4 cm)	34 - 36 in (86.3 cm - 91.4 cm)	32 - 38 in (81.3 cm - 96.5 cm)	32 - 38 in (81.3 cm - 96.5 cm)	32 - 38 in (81.3 cm - 96.5 cm)
Working Depth	16 in (40 cm)	16 in (40 cm)	14 in (35.5 cm)	14 in (35.5 cm)	14 in (35.5 cm)
<b>Dimensions</b>					
Frame Length	9 ft - 6 in (2.89 m)	9 ft - 6 in (2.89 m)	45 in (114 cm)	45 in (114 cm)	45 in (114 cm)
Length with Gage Wheels			78 in (198 cm)	78 in (198 cm)	78 in (198 cm)
Length with Props			123 in (312 cm)	123 in (312 cm)	123 in (312 cm)
Length with Gage Wheels and Props			160 in (406 cm)	160 in (406 cm)	160 in (406 cm)
Frame Width	21 ft (6.40 m)	27 ft (8.22 m)	162 in (411 cm)	238 in (604 cm)	314 in (797 cm)
Height	6 ft (1.82 m)	6 ft (1.82 m)	60 in (152 cm)	60 in (152 cm)	60 in (152 cm)
Weight (Base Machine)	N/A	N/A	3000 lb (1360 kg)	4200 lb (1905 kg)	5400 lb (2450 kg)
Weight (with Prop Unit)			5000 lb (2270 kg)	6900 lb (3130 kg)	8800 lb (3990 kg)
Pocket Depth with Props (max)			15 in (38 cm)	15 in (38 cm)	15 in (38 cm)
<b>Soil Preparation</b>					
David Tooth			o	o	o
Heavy Ripper Tine	●	●	o	●	●
'S' Tines (Front/Rear)			o / o	o / o	o / o
Former with tine blades (Short/Standard)			o / o	o / o	o / o
Prop. (Sunco / Spudnik)			o / o	o / o	o / o
David Tooth with heavy ripper on toolbar			o	o	o
Drag Pipe	●	●	o	o	o
Adjustable Forming Wings	●	●			
Wear resistant shank	●	●			
<b>Control and Operation</b>					
Adjustable stabilizer wheels	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical
Hydraulic pressure adjustable	●	●	N/A	N/A	N/A
<b>Tractor Requirements</b>					
Required Tractor HP	300 Hp (224 kW)	335 Hp (250 kW)			
Required Tractor HP (with / without Diker)			100 HP / 140 HP (75 kW / 105 kW)	140 HP / 180 HP (105 kW / 135 kW)	180 HP / 240 HP (105 kW / 178 kW)
3 Point Hitch	Cat 3, 4	Cat 3, 4	Cat 2, 3, 4	Cat 2, 3, 4	Cat 2, 3, 4

● Standard ○ Option / Attachment – Not available

# Potato Equipment

**Bulk Bed**  
20 to 26 Foot Length



**Crop Cart**  
35-Ton Load Capacity



**Planter Filler**  
30 and 36 Inch Width



**Planter**  
4 to 12 Row



**Vine Chopper**  
6 and 8 Row



**Windrower**  
4 and 6 Row



**Harvester**  
2, 3 and 4 Row



**Even Flow**  
300, 600 and 1000 Sacks



**Eliminator**  
Custom Configured



**Conveyor**  
30 to 42 Inch Width



**Piler**  
30 to 48 Inch Width



**Scoopers**  
30 and 36 Inch Width



# Sugar Beet Equipment

**Front Defoliator**  
6 Row



**Trailed Defoliator**  
12 Row



**Sugar Beet Harvester**  
12 Row





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