

# INDEPENDENT SERIES

I-1100 I-1200 I-2100 I-2200 I-4100 I-4200

**5200 ENFORCER** 

## INDEPENDENT SERIES



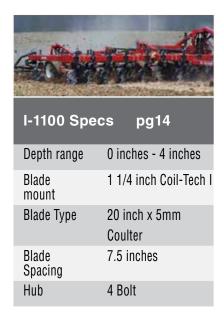
#### INSIDE THE SALFORD INDEPENDENT SERIES

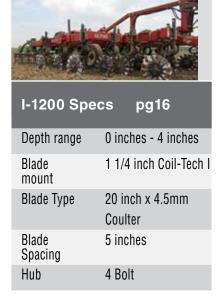
Founded in 1978, Salford quickly forged a reputation for quality and durability with its line of conventional tillage equipment. As interest in conservation tillage and no-till practices grew, Salford diversified its tillage line with one of the first true vertical tillage machines ever made – the Independent Series I-1100, originally known as the Residue Tillage Specialist (RTS).

Equipped with the innovative Coil-Tech Coulter, engineered to carry independently mounted blades, the I-1100 provided a more efficient, less intrusive way to manage residue. Running the spring-loaded coulters across the ground at 8+ mph created vibrations that drove cracks into the hard pan, promoting deeper infiltration of surface moisture.

After a series of unexpected residue management and seedbed preparation benefits, the durable I-1100 frame became the platform for a whole series of innovative tillage machines. These patented tools, combining independently mounted blades and multiple attachments, have come to be known as Salford's Independent Series.

#### INDEPENDENT SERIES QUICK SELECTION GUIDE





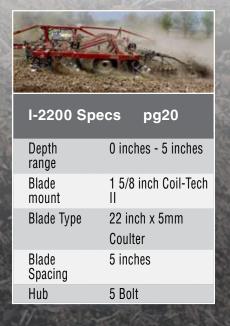
-	
I-2100 Spe	cs pg18
Depth range	0 inches - 5 inches
Blade mount	1 5/8 inch Coil-Tech II
Blade Type	22 inch x 5mm Coulter
Blade Spacing	7.5 inches
Huh	5 Bolt

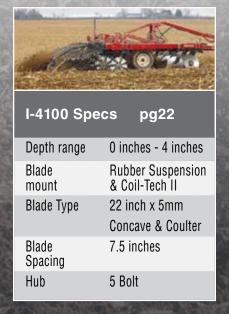
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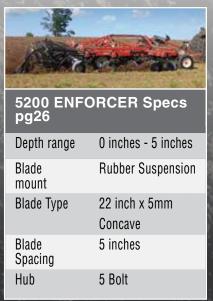
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## SOIL SCIENCE & I-SERIES APPLICATIONS

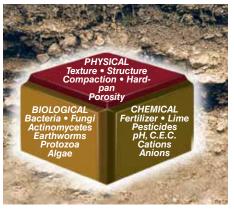
#### SOIL BASICS

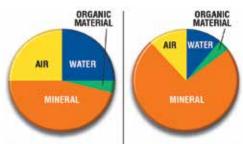
Three systems, physical, biological and chemical, work together to make soil productive. Soil scientists agree that the physical condition of soil is the key to efficient biological and chemical activity, which in turn determines how much plant life the soil can support.

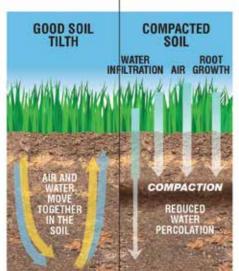
#### SOIL TILTH: WHY COMPACTION IS THE FARMER'S #1 ENEMY

Soil tilth is a measurement of the balance between basic soil elements: air, mineral, water, and organic matter. The proper balance of these elements increases soil production by allowing efficient interaction of all the soil systems. Air and water balance in the soil is the key to good root growth.

Compaction stresses plants because air and water are "squeezed" from the soil. Biological and chemical activities which depend on air and water become severely restricted. Root growth is impaired, crop production suffers.





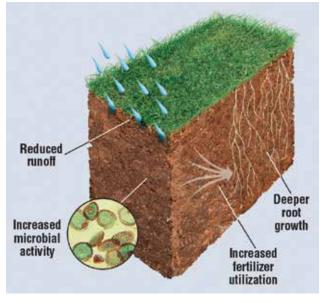


#### AIR AND WATER MOVE TOGETHER

Correcting compaction makes a dramatic improvement in soil tilth. It is the most basic step you can take to improve crop production. That's because air

and water move together in the soil profile. With proper air / water balance in the soil, all the biological and chemical systems work at peak efficiency.

Compaction makes both wet and dry soil conditions more severe. It reduces the water holding capacity of soil which makes drought conditions worse, and inhibits drainage to make wet conditions more troublesome.



#### COMPACTION AND ROOT DEVELOPMENT



Salford I-2100 tillage on the right and traditional soil finisher on the left.

Photo courtesy of Craig Paulek, Pistorius Farms -Blue Mound, IL





# FALL

#### SEASONAL APPLICATIONS

Independent Series tools help reduce operating costs compared to conventional tillage, while at the same time improving the productivity of your soil through better management of yield limiting factors.

Independent Series tools give you the versatility to perform multiple applications including:

- Cover Crop Management
- Crust Breaking
- Mixing Herbicides, Fertilizers and Manure
- Stalk Chopping
- Preparing Seedbeds in Conventional, Conservation and No-Till Farming Systems

#### Spring Applications:

- Uniformly size and distribute residues to improve seeding equipment performance
- Loosen seedbed to improve seed-to-soil contact and germination and promote rapid early plant growth
- Shatter crust formed after planting and improve seedbed
- Boost weed control by causing early germination of weed seeds to allow for more complete burn down

#### Fall Applications:

- Residue management prior to primary tillage
- · Cut and condition residue to assist with insect and disease habitat destruction
- Leveling and distribution of crop residue
- Speed up the decay of crop residue by promoting increased microbial activity
- Help balance the nitrogen/carbon levels in soil
- Help germinate weeds and volunteer crops to maximize winter kill and improve the effects of herbicides

#### **Moisture Management**

- Evaporate excess surface moisture and increase the rate of soil warming to allow for earlier planting
- Break up any soil crusting to release excess soil moisture without disturbing the wet soil below
- Maintain residue coverage to prevent moisture evaporation, slow run off and prevent erosion
- Manage and increase soil organic matter content to capture and store more moisture
- Increase water infiltration by loosening soil bunk density
- Increase water infiltration by maintaining sub-soil habitat for soil organisms
- Maintain residue coverage to reduce moisture evaporation

#### **Seeding & Fertilizer Attachments**

- Application and incorporation of liquid and dry fertilizers (including NH3)
- Broadcast and incorporation of seed such as cereals, canola, hay and pasture crops
- Assist in the management of cover crops
- Mixing of manure and fertilizers

#### **Pasture Renovation**

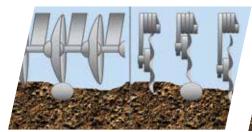
- Equip with seed distribution to cover seed pasture
- Dethatch and aerate pasture to improve pasture health and encourage new growth

# INDEPENDENT SERIES

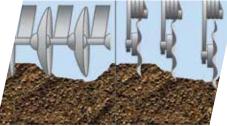
#### INDEPENDENTLY MOUNTED BLADES

Independent Series tools stand alone in their class with patented independent blade mounts, which offer superior performance, soil productivity, maintenance and longevity compared to traditional disc gangs.

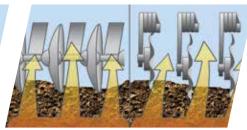
#### **Obstacle Protection**



#### **Contouring**



#### Residue Flow



#### Positive Coulter Vibration



**Disc Gangs:** Forced to leave the ground entirely when one blade contacts an obstacle.

#### **Independent Blade Mounts:**

Face obstacles individually to maintain high-speed operation without affecting other blades or damaging equipment. Individual mounts deflect from 5 - 7 inches.

Disc Gangs: Less weight per blade and gang dependent system can cause machine to ride up on top of tough crop residue or lose soil engagement.

#### **Independent Blade Mounts:**

More weight per individually mounted coulter (I-2100 averages 440 lbs each) keeps all blades engaged.

**Disc Gangs:** Uses spools and scrapers that tend to plug and eventually wear out.

#### **Independent Blade Mounts:**

High-clearance 5-bar frame with offset blade spacing allows for exceptional residue flow and is resistant to plugging. Coulter systems are simple and inexpensive to maintain.

**Disc Gangs:** Creates little to no vibration while moving over the soil.

#### **Independent Blade Mounts:**

Vibration in the blade mounting system (caused by speed) creates a jackhammer effect — fracturing the soil beyond the normal operating depth and helping to improve your soil's moisture and air storage capacity.





#### COIL-TECH COULTER I & COIL-TECH COULTER II

The patented Coil-Tech Coulter uses a heavy-duty coil spring to hold the hub and blade. The flexibility of the coil generates the compaction shattering "jackhammer" vibration. The coil's flex and ability to swivel provides unmatched obstacle protection.

The Coil-Tech I Coulter is a 1 1/4 inch spring coil that holds a 4 bolt hub, 20 inch blades and is able to flex up to 5 inches.

The second generation Coil-Tech II Coulter is a 1 5/8 inch spring coil engineered for improved ground penetration and residue sizing. It is capable of more aggressive tillage. The Coil-Tech Coulter II holds a 5 bolt hub, 22 inch blades and is able to flex up to 7 inches.



#### Swivel:

Coil-Tech Coulters are designed to swivel side to side most often traveling around obstacles.



#### **Vertical Flex:**

Vertical travel allows Coil-Tech Coulters to travel over obstacles and deliver compaction shattering vibration.



The I-4100, I-4200 and I-5100 use independent HD rubber compression blade mounts. This system was engineered to carry concave blades with the same high clearance, high speed operation as the Coil-Tech design. The Rubber Compression Blade Mount handles the additional force put on concave blades at high speeds and compound angles.

# INDEPENDENT SERIES

#### STANDARD FEATURES



Boron Steel Blades: High quality boron steel blades for durability and longevity.



Single Point Depth Control: Makes it easy to adjust operating depth for varying field conditions or change from spring to fall tillage.



Heat Treated
Cast Clevis Hitch:
Designed for
durability and
dependability, even
at high speeds and in
tough field conditions.



All Tubular Frame and Welded End Caps:

4 inch x 6 inch tubular steel frame and beam ends that are welded shut for increased durability and longevity.



Operator Convenience Center: Hydraulic hose storage, colour-

coded hydraulic hose grips and operator's manual organized at your fingertips.



**Hydraulic Level Lift Frame:** 

Keeps the lifting cylinders in sync when changing depth and raising / lowering the machine. Eliminates the need for a rock shaft reducing the number of linkages and wear parts.



#### Coil Tech Coulter Hub:

Built tougher than competitors sealed bearing systems. 100 hour grease interval, multi-lip grease seal and grass wrap wear guard. Double tapered cup and cone bearings can be tightened and handle side loads better than standard roller bearings. Blade scraper protects hub and seals.







high density polyethylene tank models

available.

#### **OPTIONAL FEATURES**



Tire Upgrades: Main frame tire upgrades available for most model sizes. Wing frame tire upgrades available on some models.



**Tow Hitches:** Optional hitches with optional hydraulic lines. The "one person" hitch features light wiring and connects with ease.



Weight Kits: For optimum ground penetration in hard soil types or soils with low organic matter.



**Broadcast Application:** Apply and incorporate small seed and/or dry fertilizer in one pass. Coulters loosen soil to incorporate product as the rolling harrow gently firms soil to ensure placement.



**SwitchBlade Shanks:** Add SwitchBlade shanks to I-1100, I-1200, I-2100 and I-2200 machines. Use these hydraulically engaged shanks for chisel ripping or anhydrous application.



FlexFinish: FlexFinish hydraulically adjustable finishing systems can be adjusted from the cab to change your finishing options on the go.

# INDEPENDENT SERIES

## FLEX FINISH

**FLEX FINISH** hydraulically adjustable finishing systems allow operators to adapt to field conditions on the fly by adjusting the rolling basket pressure, tine pitch, or both right from the tractor cab.

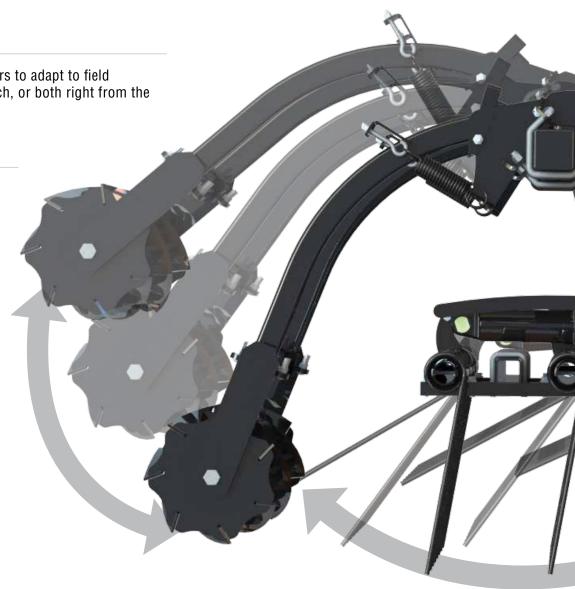
#### HYDRAULICALLY ADJUSTABLE ROLLING BASKET

An optional upgrade, the **FLEX FINISH** hydraulically adjustable rolling basket allows operators to adjust to field conditions on the go. Increase the basket pressure to reduce soil clod size and create finer seedbeds that improve high-speed planter performance. Or reduce the basket pressure in the fall to leave larger soil clods that hold onto snow and moisture and are less likely to erode. A pressure indicator located on the front of the machine gives the operator full visibility to the basket pressure right from the cab.

#### HYDRAULICALLY ADJUSTABLE TINES

An optional upgrade, the **FLEX FINISH** hydraulically adjustable tines allow for continuous adjustment within the range to match field conditions exactly.

The tines can be set fully forward to fill ruts and perform maximum leveling. In the most relaxed position the tines will lightly follow ground contours and gently distribute crop residue for a even field finish.





#### FINISH FIRST, STANDARD 14 INCH ROLLING BASKETS

Independent Series rolling harrows are 14 inches in diameter to provide optimal operation at high speeds. The 14 inch rolling harrows provide improved re-sizing of soil clods and help to condition and anchor residue to the surface, helping to reduce erosion. The reinforced steel construction and 1.5 inch triple seal bearing resist rock damage, even at high speeds. Five individual down pressure settings adjust quickly with a tool provided in your harrow kit.

I-Series tools now come equipped with rubber torsion suspension for the rolling baskets making these tools

even more durable. Kits are available to retrofit existing I-Series tools with these extra durable rolling basket arms.

#### LEVEL THE FIELD, THREE BAR 20 INCH TINES

Available with the standard 14 inch rolling basket as well as the FLEX FINISH Hydraulically Adjustable Rolling Basket, three rows of durable ½ inch dia. x 20 inch tines level and distribute residue. Tine harrows are mounted on a parallel linkage for maximum down pressure and contouring. Multiple pitch settings allow for maximum leveling performance. Relax the tines with the tool-less adjustment for exceptional residue distribution and residue flow from the highest yielding crops.

# INDEPENDENT SERIES

SWITCHBLADE SHANK KITS + SEED/FERTILIZER ATTACHMENTS\*

#### SwitchBlade SHANK KITS: 1 + 1 = 3

Adding a SwitchBlade shank kit to your Independent Series equipment gives you three machines in one: true vertical tillage, a fertilizer applicator and a coulter chisel. This is a highly cost effective alternative to buying three machines.

Equip your machine with shanks on 15 inch spacing for chisel operation, then lift every second shank for 30 inch fertilizer application.

## Superior Anhydrous Application while Managing Residue and Preparing Seedbeds

The vibration of the Independent Series shanks loosens soil and creates cracks that anhydrous gas can seep into, creating more even application.

Each shank is led by a coulter to cut residue and minimize plugging. Shanks are also trailed by coulters on either side to begin closing the trench almost immediately. Within seconds the HD tine harrow crosses over the shank path, further sealing the gas pocket, leveling and evenly distributing soil and residue across the width of the machine. The 14 inch roller follows, sizing clods and gently firming the surface, completing the seal.

The application shank leaf and chisel shank leaf are compatible with a wide range of industry standard points and knives to match the soil disturbance you need and deliver gas, liquid or dry fertilizer.

\*Shanks not available on 5200 ENFORCER models.

Chisel shanks not available on I-4100 or I-4200.





#### INDEPENDENT SERIES ATTACHMENTS: FERTILIZER AND SEED DELIVERY

Independent Series tools can be equipped with air distribution and excel at incorporating product via coulter mounted banding tubes, broadcast diffusers or both methods at the same time.

- **Right Time** Work fast and open the window to a wider range of operating conditions so you can apply fertilizer at the right time.
- **Right Place** Incorporate at a uniform depth and gently firm the soil to ensure product is at the right place.
- **Right Rate** The accurate metering systems in Salford commodity carts are designed to handle a wide range of products to deliver the product you choose at the right rate.
- **Right Product** Choose shallow or deep banding or broadcast incorporation to apply the right product in the fall or pre-plant in the spring.
- Low Disturbance Incorporation I-Series tools can apply and incorporate seed and fertilizer while maintaining overall soil density in order to minimize erosion on highly erodible land.



Coulter Mounted Fertilizer
Banding: Commodity delivery
tubes place product into the
trench opened by the coulter. Can
be configured to deliver product on
multiple spacings.



**Broadcast Diffuser:** Allows for accurate incorporation and complete field coverage with seed or fertilizers.



# **I-1100**



## Original Vertical Tillage



**SAVE TIME** – From zero till to conservation till – with light to medium soils and medium to high residue – the I-1100 operates at speeds between 8 and 12 mph.

**CONSERVATION CHAMPION** – The I-1100's 7.5 inch blade spacing creates a mulch finish and warms spring soil, while maintaining soil structure to prevent erosion.

**OPTIMUM VERSATILITY** – Perform a multitude of spring, fall and special applications with the I-1100.

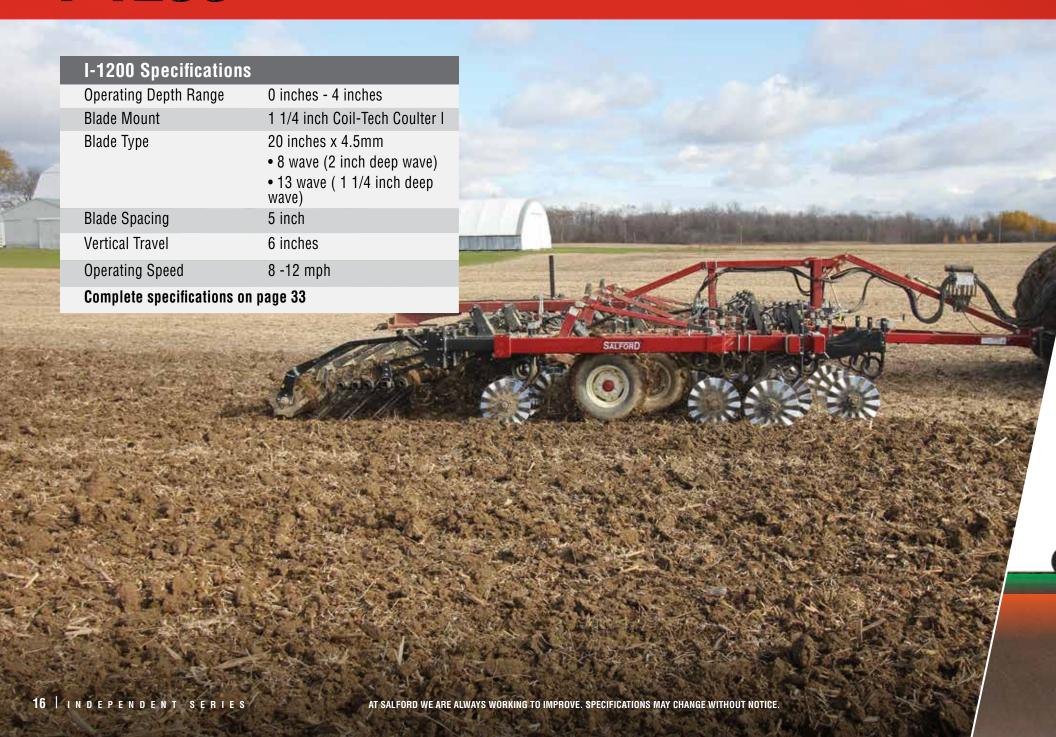
**ADD SWITCHBLADE SHANKS** – With SwitchBlade hydraulic shanks, the I-1100 converts from vertical tillage to fertilizer applicator or coulter chisel in seconds.



-an image: maximum operating depth - 4 inches



# **I-1200**



## Superior Seedbed Preparation



**TRUE VERTICAL TILLAGE** – 5 inch blade spacing gives the I-1200 forty percent more blades and more weight compared to the I-1100. The I-1200 delivers superior surface tillage and residue management with leveling power to improve planter performance.

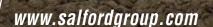
**SHATTER COMPACTION** – The I-1200's spring-loaded Coil-Tech coulters loosen compaction for improved root development and increased moisture storage.

**ADD SWITCHBLADE SHANKS** – With SwitchBlade hydraulic shanks, the I-1200 converts from vertical tillage to fertilizer applicator or coulter chisel in seconds.

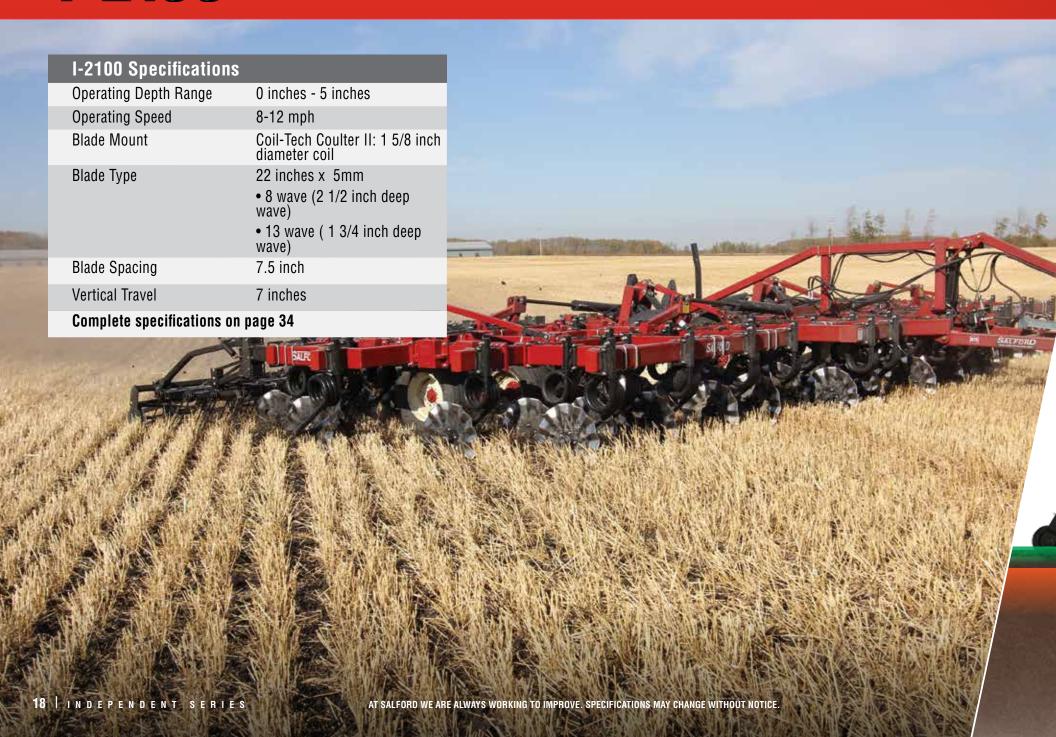
\*Shown with FlexFinish harrows.

Seedbed Preparation: 1.5 inches - 3 inches (varies by crop type)

Fall Tillage: Maximum operating depth - 4 inches



# *I-2100*



## True Vertical Tillage



**GO DEEPER** – The I-2100's Coil-Tech II carries larger 5 bolt hubs and 22 inch blades to penetrate deeper into tougher ground conditions.

**ANY SOIL, ANY SEASON** – Manage fall residue and prepare spring seedbeds in wet or dry soils with no risk of plugging with the I-2100.

**COVER MORE GROUND** – At an acre per hour, per foot, the 1-2100 gets the job done faster.

**ADD SWITCHBLADE SHANKS** – With SwitchBlade hydraulic shanks, the I-2100 converts from vertical tillage to fertilizer applicator or coulter chisel in seconds.

\* Both the I-2100 and I-2200 can be limited to an operating depth of 4 inches to meet governmental conservation program criteria. Please call Salford or speak to your dealer for details.



Seedbed Preparation: 1.5 inches - 3 inches (varies by crop type)

Fall Tillage: Maximum operating depth - 5 inches



# **I-2200**



## True Vertical Tillage



**SUPERIOR FINISH** – In spring or fall, the I-2200's heavy Coil-Tech Coulter II and tight 5 inch spacing creates fine seedbeds and shreds tough fall residue. The Coil-Tech Coulter II carries larger 5 bolt hubs and 22 inch blades to penetrate deeper into tougher ground conditions.

**LEVEL THE FIELD** – The I-2200's larger blades and tighter spacing move more soil for field leveling while they mulch fall residue and prepare spring seedbeds for high speed planting.

**ADD SWITCHBLADE SHANKS** – With SwitchBlade hydraulic shanks, the I-2200 converts from vertical tillage to fertilizer applicator or coulter chisel in seconds.



Fall Tillage: Maximum operating depth - 5 inches

www.salfordgroup.com

## *I-4100*



## Hybrid Vertical Tillage



GO TWO BY TWO - With the I-4100, two rows of concave disc blades split by two rows of coulters allow for more aggressive tillage than wavy coulters alone.

**SPRING OR FALL** – The I-4100's front rows of concave blades move more soil to smooth fall ruts and in the spring they help to create a more even seedbed for accurate high speed planting.

**COVER MORE GROUND** – At an acre per hour, per foot, the I-4100 gets the job done faster.

ADD SWITCHBLADE SHANKS - With SwitchBlade hydraulic shanks, the I-4100 converts from vertical tillage to fertilizer applicator in seconds.



Fall Tillage: Maximum operating depth - 4 inches



# **I-4200**



## Hybrid Vertical Tillage



**ONE PASS FINISH** – Concave blades in the front and more wavy coulters in the rear rows match the effects of both light discing and true vertical tillage in one pass. The I-4200 is simply one of greatest soil finishers on the market.

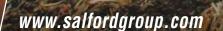
**LEVELING POWER** – The I-4200's 5 inch blade spacing and the front rows of concave blades deliver additional leveling power to smooth fall ruts and create a more even seedbed for accurate high speed planting in the spring.

**LEVELING POWER** – The I-4200's tight coulter spacing and front rows of concave blades mulch and evenly bury more residue for more rapid uniform decomposition that does not leave bunches of residue in the seedbed.

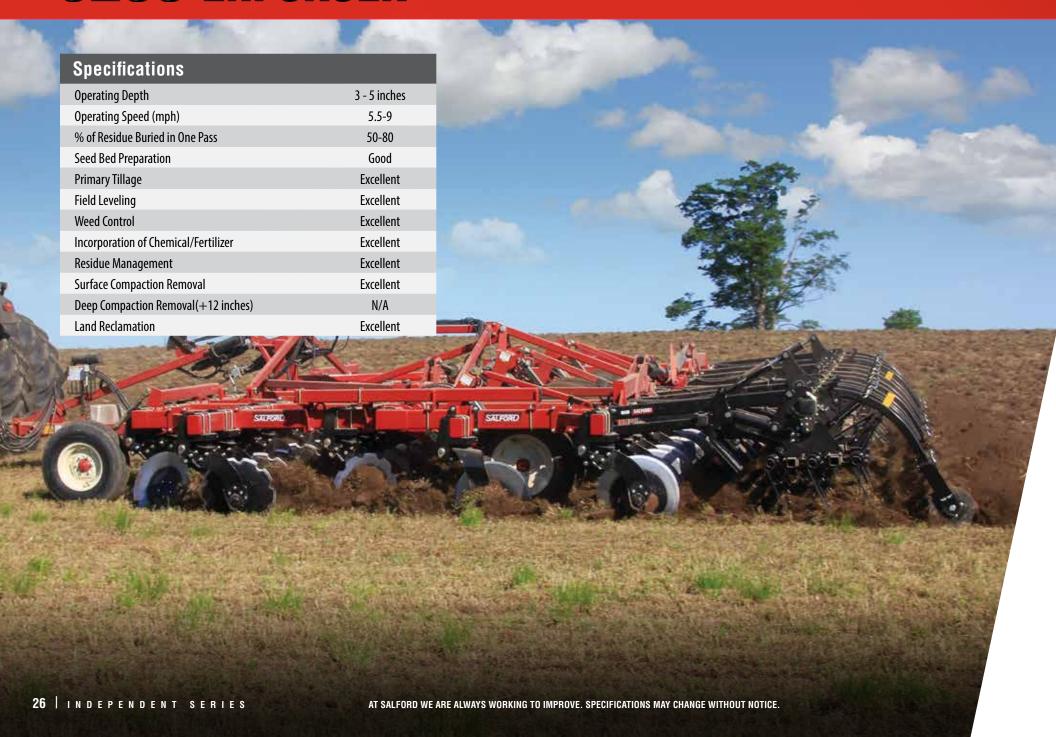
**ADD SWITCHBLADE SHANKS** – With SwitchBlade hydraulic shanks, the I-4200 converts from vertical tillage to fertilizer applicator in seconds.



Fall Tillage: Maximum operating depth - 4 inches



# 5200 ENFORCER



## High Speed Primary Tillage



**FAST & AGGRESSIVE** – The 5200 ENFORCER expands on the capabilities of its predecessor, the I-5100, in tough field conditions. The ENFORCER is engineered to level and uniformly mix soil and residue between 3 inches and 5 inches. The redesigned blade layout increases the stability of the machine.

**EVEN MORE CLEARANCE** – The patent pending rubber suspension blade mount has been completely redesigned to create even more clearance between the four rows of concave blades. The four rows of blades on a deep frame give the 5200 ENFORCER much more clearance than compact, high speed discs.

**SUPERIOR FINISHING** – Four rows of concave blades replicate two passes with a tandem disc or compact disc. The tillage action from the four rows of blades creates a superior residue blend and field finish in one pass that is often ready as a stale seedbed in the spring.

**WET OR DRY** – The heavy-duty blade mounts and added clearance on the 5200 penetrate dry, hard ground and won't plug in wet soil.

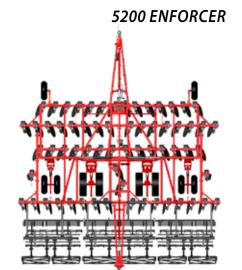
#### TOP DOWN VIEW FRONT VIEW

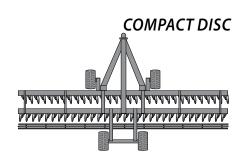


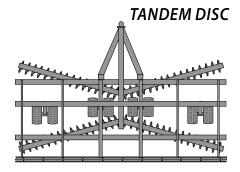
**COMPOUND BLADE ANGLE** – The 5200's patent pending rubber suspension blade mounts hold the blade on two angles; the first three rows are open faced similar to position the blade similar to the angled gang on a tandem disc.

The blades are also tipped under to create suction that holds the 5200 in the ground when going through hard soil.

**LEADING OBSTACLE PROTECTION** – The 5200's rubber suspension blade mounts allow each blade to flex up to 5 inches for industry leading obstacle protection. Since each blade faces obstacles on it's own, unlike a tandem disc, the 5200 excels in rough, rocky fields.







# COVER CROP APPLICATORS





**SEED & APPLY FASTER** – Valmar 55 and 56 Series are ideal for low rate granular applications like cover crops or herbicides. Salford's Valmar granular applicators can be paired with virtually any implement between 16 feet and 80 feet. Combined with Salford's tillage equipment these machines make high speed seeders, applicators and pasture aeration tools.

#### **UNIVERSAL MOUNTING OPTIONS** -

New mounting options for the Valmar 55 & 56 Series applicators include a **Pull Type Cart** and **3 Point Hitch mount**. These new mounting systems make the applicators even easier to fill and calibrate and keep them lower to the ground for safer operation.

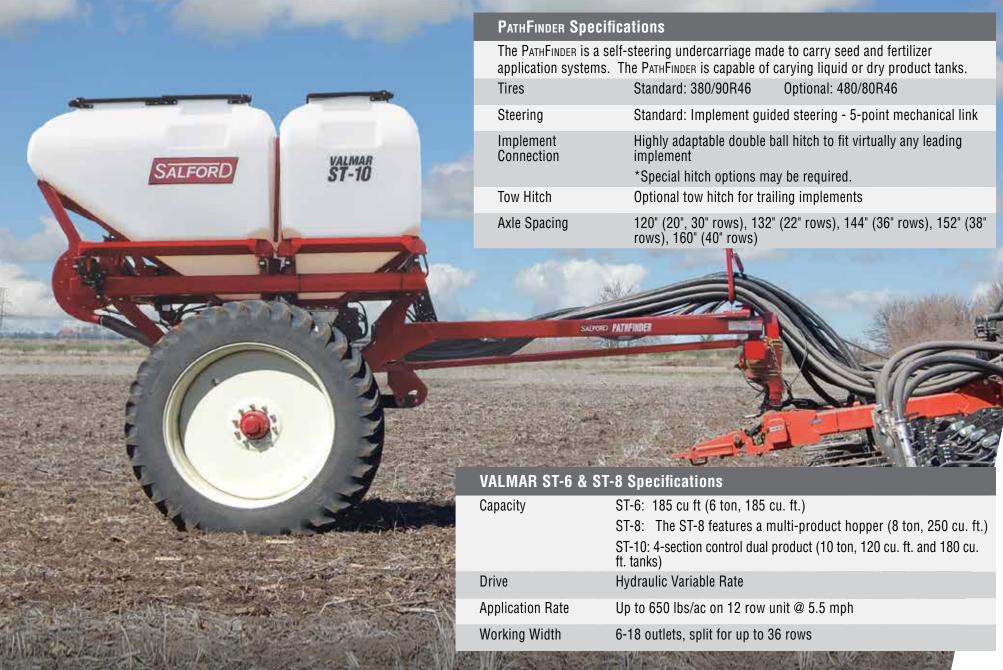
FIGHT HERBICIDE RESISTANCE – The Salford's Valmar implement mount applicators are ideally suited for battling herbicide resistant weeds like wild oats. Salford's Valmar equipment are the applicators of choice for products like Edge®, Fortress® or Avadex®. Edge, Fortress and Avadex are products of Gowan Company.

**GENTLE, ACCURATE DELIVERY** – The highly accurate Valmar metering system is proven as a gentle delivery method for seed, fertilizer or herbicide. 55 and 56 Series models can be equipped with hydraulic drive options or standard ground drive systems. The ground driven meter has a 60 speed gearbox capable of changing rates in 5% increments.

**NEW 56 SERIES MODELS** – New 56 series models feature poly tanks and optional stainless steel metering. The new 56 series employ Valmar's tested, accurate metering systems and can now handle a wider range of products including fertilizer.



## **PATHFINDER**



## Finding the Path to Higher Yields



#### HIGH CAPACITY, HIGHLY ACCURATE, SELF-STEERING CART-

The PATHFINDER and ST series commodity metering system add high capacity, multi-product, fertilizer delivery to tillage equipment, strip-till bars, side dress applicators and planters. The universal double ball hitch can be adapted to fit virtually any frame design.

**ROW CROP APPLICATION** – The PATHFINDER features a high clearance axle for post emergence, inter-row application. The axle can be stubbed out to match various row crop spacings.

**UNIVERSAL MOUNT** – Carry many aftermarket seed and fertilizer delivery tanks, including liquid or dry product delivery equipment

**ACKERMAN STEERING ACCURACY** – Using the Ackerman steering principle the PATHFINDER tracks more accurately behind implements. This steering principle reduces stress on the implement and cart while reducing the horse power required to maneuver. (See diagram below)





# **SPECIFICATIONS**

I-1100	I-1100 Specifications									
Size	Frame Sections	Number of Coulters*	Transport Height	Transport Width	Approx. Ibs with harrows	H.P. Required*				
12'	1	19	No wings	13'3"	7,100	120 - 150				
16'	3- Flat fold	25	10'	10'	9,500	160 - 200				
20'	3	33	11'2"	13'3"	12,200	200 - 240				
24'	3	37	12'8"	13'3"	14,400	240 - 290				
28'	3	45	13'	15'8"	17,400	280 - 340				
31'	3	49	14'6"	15'8"	18,100	310 - 380				
36'	3	57	14'2"	21'	21,900	360 - 440				
41'	3	65	16'6"	21'	23,300	410 - 500				
41'	5 Bi-fold	65	13'6"	18'9"	28,700	410 - 500				
50'	5 Bi-fold	79	14'3"	19'	33,600	500+				
60'	5 Bi-fold	97	15'8"	21'10"	39,200	500+				
*Horsepow	er requirements	vary by speed ai	nd operating de <sub>l</sub>	oth. Transport di	mensions includ	le harrows.				

## SwitchBlade 1,300lb Hyd. Shank Kits

	15" S <sub>I</sub>	oacing	20" S	pacing	30" Spacing		
Machine Size	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage	
12'	9	11'3"			5	12'	
16'	11	13'9"			6	15'	
20'	15	16'3"			8	17'6"	
24'	17	21'3"			9	22'6"	
28'	21	26'3"			11	27'6"	
31'	23	28'9"	17	30'	12	30'	
36'	27	33'9"			14	35'	
41'	31	38'9"	24	41'7"	16	40'	
41' **	31	38'9"	24	41'7"	16	40'	
50' **	39	48'9"	29	50'	19	47'6"	
60' **	47	58'9"			23	57'6"	

Shank kits require an additional average of 3 horsepower per shank.

\*\* 5 Section bi-fold frame

## **Operating Guide**

Operation	Crop Type	Depth
Seed bed preparation	Corn, Cereal Grains, Hay & Pasture	1.5" - 2" (less than or equal to planting depth)
Seed bed preparation	Soybean, Edible beans, Canola, Pulse Crops	2" - 3" (equal to or slightly more than planting depth)
Fall residue management	All crops	2.5" or deeper (coulter hubs must stay clear of field surface)
Seeding	Cereals, canola, cover crops, hay/pasture blend	2" or less
Fertilizer Application	All types	2" or more



I-120	I-1200 Specifications					SwitchBlade 1,300lb Hyd. Shank Kits							
	<sub></sub>	Niconicons	Tourne	Toward	Approx. lbs	115		15" 5	Spacing	20" S	pacing	30" S	pacing
Size	Frame Sections	Number of Coulters*	Transport Height	Transport Width	with harrows	H.P. Required*	Machine Size	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage
12'	1	29	No wings	13'3"	7,900	140 - 160	12'	9	11'3"			5	12'
16'	3- Flat fold	37	10'	10'	11,400	180 - 210	16'	11	13'9"			6	15'
20'	3	49	11'2"	13'3"	13,400	220 - 260	20'	15	16'3"			8	17'6"
24'	3	57	12'8"	13'3"	16,000	270 - 320	24'	17	21'3"			9	22'6"
28'	3	69	13'	15'8"	19,200	310 - 370	28'	21	26'3"			11	27'6"
31'	3	73	14'6"	15'8"	19,900	350 - 410	31'	23	28'9"	17	30'	12	30'
36'	3	85	14'2"	21'	24,300	400 - 470	36'	27	33'9"			14	35'
41'	3	97	16'6"	21'	31,000	460 - 540	41'	31	38'9"	24	41'7"	16	40'
41'	5 Bi-fold	97/99**	13'6"	19'	26,100	460 - 540	41' **	31	38'9"	24	41'7"	16	40'
50'	5 Bi-fold	117/119**	14'3"	19'	36,700	500+	50' **	39	48'9"	29	50'	19	47'6"
60'	5 Bi-fold	145	15'8"	21'10"	43,000	500 +	60' **	47	58'9"			23	57'6"
	ver requirements ver coulters varies				nsions include h	arrows.	Shank kits require an additional average of 3 horsepower per shank.  ** 5 Section bi-fold frame						

## **Operating Guide**

Operation	Crop Type	Depth
Seed bed preparation	Corn, Cereal Grains, Hay & Pasture	1.5" - 2" (less than or equal to planting depth)
Seed bed preparation	Soybean, Edible beans, Canola, Pulse Crops	2" - 3" (equal to or slightly more than planting depth)
Fall residue management	All crops	2.5" or deeper (coulter hubs must stay clear of field surface)
Seeding	Cereals, canola, cover crops, hay/pasture blend	2" or less
Fertilizer Application	All types	2" or more

# **SPECIFICATIONS**

I-210	I-2100 Specifications										
Size	Frame Sections	COIL-TECH II # of Coulters	Transport Height	Transport Width	Approx. lbs with harrows	H.P. Required*					
12'	1	19	No wings	13'3"	8,000	140 - 160					
16'	3 Flat Fold	25	10'	10'	11,400	180 - 210					
20'	3	33	11'2"	13'3"	15,700	220 - 260					
24'	3	37	12'8"	13'3"	16,200	270 - 320					
28'	3	45	13'	15'8"	19,700	310 - 370					
31'	3	49/55**	14'6"	15'8"	20,500	350 - 410					
36'	3	57	14'2"	21'	24,700	400 - 470					
41'	3	65/74**	16'6"	21'	26,600	460 - 540					
41'	5 Bi-fold	65/72**	13'6"	19"	31,900	460 - 540					
50'	5 Bi-fold	79/87**	14'3"	19'	37,500	500 +					
60'	5 Bi-Fold	97	15'8"	21'10"	44,100	500 +					
	_										

<sup>\*</sup> Horsepower requirements vary by speed and operating depth. Transport dimensions include harrows. \*\* Number of coulters varies, depending on spacing of shank kit.

#### SwitchBlade 1,300lb Hyd. Shank Kits

	15" S	pacing	20" S	Spacing	30" Spacing	
Machine Size	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage
12'	9	11'3"			5	12'
16'	11	13'9"			6	15'
20'	15	16'3"			8	17'6"
24'	17	21'3"			9	22'6"
28'	21	26'3"			11	27'6"
31'	23	28'9"	17	30'	12	30'
36'	27	33'9"			14	35'
41'	31	38'9"	24	41'7"	16	40'
41' **	31	38'9"	24	41'7"	16	40'
50' **	39	48'9"	29	50'	19	47'6"
60' **	47	58'9"			23	57'6"

Shank kits require an additional average of 3 horsepower per shank. \*\* 5 Section bi-fold frame

#### **Operating Guide**

Operation	Crop Type	Depth
Seed bed preparation	Corn, Cereal Grains, Hay & Pasture	1.5" - 2"(less than or equal to planting depth)
Seed bed preparation	Soybean, Edible beans, Canola, Pulse Crops	2" - 3" (equal to or slightly more than planting depth)
Fall residue management	All crops	2.5" or deeper(coulter hubs must stay clear of field surface)
Seeding	Cereals, canola, cover crops, hay/pasture blend	2" or less
Fertilizer Application	All types	2" or more



I-2200 Specifications						SwitchBlade 1,300lb Hyd. Shank kits							
0:	Frame	# of	Transport	Transport	Approx. Ibs	H.P.		15" s	pacing	30"s <sub>l</sub>	pacing		
Size	Sections	Coulters	Height	Width	harrows F	Required*	Required*	WITN Required*	Machine Size	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage
16'	3	37	10'	10'	14,000	200 - 240	16'	11	13'9"	6	15'		
20'	3	49	11'2"	13'3"	17,000	240 - 300	20'	15	16'3"	8	17'6"		
24'	3	57	12'8"	13'3"	19,100	290 - 360	24'	17	21'3"	9	22'6"		
28'	3	69	13'	15'8"	23,700	340 - 420	28'	21	26'3"	11	27'6"		
31'	3	73	14'6"	15'8"	24,400	380 - 470	31'	23	28'9"	12	30'		
36'	3	85	14'2"	21'	30,000	440 - 540	36'	27	33'9"	14	35'		
41'	3	97	16'6"	21'	36,800	500 +	41'	31	38'9"	16	40'		
41'	5 Bi-fold	97	13'6"	18'9"	32,300	500 +	41' (5 sect)	31	38'9"	16	40'		
50'	5 Bi-fold	119	14'3"	19'	47,170	500 +	50' (5 sect)	39	48'9"	19	47'6"		
*Horsepowe	er requirements v	ary by speed and	operating depth.	Transport dimen	sions include har	rows.	Shank kits re	quire an addition	nal average of 3	horsepower per	shank		

Operating Guide				
Operation	Crop Type	Depth		
Seed bed preparation	Corn, Cereal Grains, Hay & Pasture	1.5" - 2"(less than or equal to planting depth)		
Seed bed preparation	Soybean, Edible beans, Canola, Pulse Crops	2" - 3" (equal to or slightly more than planting depth)		
Fall residue management	All crops	2.5" or deeper(coulter hubs must stay clear of field surface)		
Seeding	Cereals, canola, cover crops, hay/pasture blend	2" or less		
Fertilizer Application	All types	2" or more		

# **SPECIFICATIONS**

I-4100 S	I-4100 Specifications						
Size	Frame Sections	# of Concave / Coulter	Transport Height	Transport Width	Approx. lbs with harrows	H.P. Required*	
12'	1	9 / 10	No wings	13' 3"	8, 100	140 - 160	
16'	3 Flat-Fold	11 / 14	10'	10'	12, 200	180 - 210	
20'	3	15 / 18	11' 2"	13' 10"	14, 700	220 - 260	
24'	3	17 / 20	12 '8"	13' 10"	16, 300	270 - 320	
28'	3	21 / 24	13'	15' 8"	19, 900	310 - 370	
31'	3	23 / 26	14' 6"	15' 8"	20, 800	350 - 410	
36'	3	27 / 30	14' 2"	21'	24, 900	400 - 470	
41'	3	31 / 34	16' 6"	21'	27, 100	460 - 540	
41'	5 Bi-fold	31 / 34	13' 6"	18' 9"	32, 300	460 - 540	
50'	5 Bi-fold	39 / 40	14' 3"	19'	37, 800	500 +	
60'	5 Bi-Fold	47 / 50	15' 8"	21' 10"	44, 600	500 +	
*Horsepower r	*Horsepower requirements vary by speed and operating depth. Transport dimensions include harrows.						

SwitchBlade 1,300lb Hyd. Shank Kits					
	15" Sp	pacing	30" S	pacing	
Machine Size	# of Shanks	Fertilizer Coverage	# of Shanks	Fertilizer Coverage	
12'	9	11'3"	5	12'	
16'	11	13'9"	6	15'	
20'	15	16'3"	8	17'6"	
24'	17	21'3"	9	22'6"	
28'	21	26'3"	11	27'6"	
31'	23	28'9"	12	30'	
36'	27	33'9"	14	35'	
41'	31	38'9"	16	40'	
41' **	31	38'9"	16	40'	
50' **	39	48'9"	19	47'6"	
SwitchBlad	de shanks on l	-4100 only f	or fertilizer ap	plication.	
Shank kits require an additional average of 3 horsepower per					

shank. \*\* 5 Section bi-fold frame

### **Operating Guide**

Operation	Crop Type	Depth
Seedbed preparation*	All Crops	2" - 3"

<sup>\*</sup> For seedbed preparation with the I-4100 run two passes at slightly opposite angles. The machine should be tipped 1" to 1.5" to the rear so that the coulters penetrate deeper than the concave blades. Not recommended for seedbed preparation in heavy clay soils.

Fall residue management

All crops

3 or deeper (coulter hubs must stay clear of field surface)



Shank kits require an additional average of 3 horsepower per

shank. \*\* 5 Section bi-fold frame

#### SwitchBlade 1,300lb Hyd. Shank Kits **I-4200 Specifications** 15" Spacing 30" Spacing Approx. lbs with harrows # of Concave H.P. **Transport** Transport Frame Size Machine # of Fertilizer # of Fertilizer Sections Height Required\* / Coulter Width Size Shanks Coverage Shanks Coverage 12' 1 No wings 12' 9 11'3" 5 12' 9/2013 '3" 10,500 150-200 16' 3 10' 10' 16' 11 13'9" 11/26 14, 300 210 - 260 6 15' 3 20' 15/34 11' 2" 13' 10" 17, 400 260 - 320 20' 15 16'3" 8 17'6" 24' 3 17 / 40 12' 8" 13' 3" 19,650 320 - 390 24' 17 21'3" 9 22'6" 28' 3 21 / 48 13' 15' 8" 24, 100 370 - 450 28' 21 26'3" 11 27'6" 31' 3 23 / 50 14' 6" 15' 8" 24.800 410 - 500 31' 23 28'9" 12 30' 3 36' 14' 2" 21' 36' 27 33'9" 27 / 58 30, 500 470 - 580 14 35' 41' 3 41' 40' 31 / 66 16' 6" 21' 32,800 500+ 31 38'9" 16 5 Bi-fold 41' \*\* 41' 31 / 66 13' 6" 18' 9" 37, 250 500+ 31 38'9" 16 40' 50' \*\* 50' 5 Bi-fold 39 / 80 14 '3" 19' 47, 650 500 + 39 48'9" 19 47'6" \*Horsepower requirements vary by speed and operating depth. Transport dimensions include harrows. SwitchBlade shanks on I-4100 only for fertilizer application.

Operating Guide		
Operation	Crop Type	Depth
Seedbed preparation*	All Crops	2" - 3"
* For seedbed preparation with the I-4200 run two than the concave blades.	passes at slightly opposite and	gles. The machine should be tipped 1" to 1.5" to the rear so that the coulters penetrate deeper
Fall residue management	All crops	3 or deeper (coulter hubs must stay clear of field surface)

# **SPECIFICATIONS**

#### **5200 ENFORCER Specifications**

Size	Working Width	# of Concave Blades	Transport Height	Transport Width	Approx. weight with Harrows (lbs)	H.P. Required* (15-20 per ft)
12'	12' 1"	28	No Wings	13' 10"	11, 100	180 - 240
16'	15' 5"	36	9'	11' 6"	15, 600	240 - 320
19'	18' 9"	44	10' 3"	15' 2"	20, 700	280 - 380
22'	22' 1"	52	12' 4"	15' 2"	22, 800	330 - 440
25'	25' 5"	60	13' 5"	15' 2"	24, 000	380 - 500
29'	28' 9"	68	14' 7"	15' 2"	27, 900	430 - 580
36'	35' 5"	84	14' 6"	20' 6"	37, 200	540+
39'	38' 9"	92	15' 11"	20' 6"	38, 000	540+

<sup>\*</sup>Horsepower requirements vary by speed and operating depth. Transport dimensions include harrows.

#### **Operating Guide**

Operation		Depth*
Fall residue management	All crops	3" - 5" (disc hubs must stay clear of field surface)
Seedbed preparation	All crops	2" - 3.5" Depth varies by amount of residue cover
Nutrient Incorporation	All types	3" - 5"
* Optional 24" blad	es are required fo	or operating 5" deep

55	55 Series Granular Fertilizer Applicator Specifications					
	Model	Capacity (cu. ft.)*	Outlets	Application Hydraulic F Width C3200-4000		
	<ul> <li>Hopper - Mild steel with 2 part urethane primer and 2 part urethane top coat paint</li> <li>Product level sight gauge</li> </ul>					
	1655	33 cu. ft. (900lb)	16	16-40 ft.	8 gal./min.	

56 Series Granular Fertilizer Applicator Specifications					
Model	Capacity (cu. ft.)*	Outlets	Application Width		
Hopper - Polyethylene, translucent, plastic					
4056	40 cu. ft. (1800lb)	16	24-60 ft.	11.5 gal./min	
6056	60 cu. ft. (2700lb)	24 or 32	32-80 ft.	11.5 gal./min	

#### Hopper

- Weather tight lid
- Hopper bottom shut-off slide gates

- Air manifold and venturi system drop for easy cleaning
- Manual half shut off on either side (except 1655)
- 28 grove plastic fluted metering rollers OR 12 groove available for more coarse material or higher rates HYDRAULIC DRIVE OPTION
- Hydraulic metering, motor only
- Hydraulic metering, Rate Control Ready. Includes motor, flow control valve, meter encoder, fan speed and bin level sensors. Does not inlcude ECU, harness or cab display.
- Hydraulic metering, with granular rate control. Includes motor, ISOBUS compatible ECU\* and harness, flow control valve, meter encoder, fan speed and bin level sensors. Does not inlcude display. GROUND DRIVE OPTION
- •60 speed gearbox with 5% between settings
- In-cab electric clutch control and air manifold monitor
- Optional hydraulic engage/disengage

- Stainless steel air manifold and venturi system
- 12 groove roller assemblies for coarse material
- Fitted tarp
- Outlet blocker kits and line splitters to match a specific number of required runs in special mounting situations
- Agitator kits
- Delivery hose quick coupler kits
- 1.25 in. ID flexible PVC hose
- Broadcast deflectors mount individually to the implement frame



Strip Till Granular Fertilizer Applicator Specifications				
	ST-6	<i>ST-8</i>	ST-10	
Hopper Capacity	• 185 cu ft 6 Tons	• 250 cu ft 8 Tons	• 300 cu ft (120 /180 cu ft) 10 Tons (4 / 6 ton)"	
Tank Configuration	Single compartment	• Single or Dual (internal gate 60/40 split )	Two tanks	
Tank Material	High Density Polyurethane	409 Stainless steel with 2 part urethane paint	High Density Polyurethane	
Number of products	Single product	Single or dual product	Single or dual product	
Metering Sections	• Up to four sections (Electric clutches per section)	Single section	Up to four sections     (Electric clutches per section)	
Tank Features	<ul> <li>Product level sight gauge</li> <li>Air Manifold gauge</li> <li>Hopper Screen</li> <li>Ladder and platform assembly (only on ST-10 when sold with PATHFINDER)</li> </ul>			
Air Manifold	• 6, 8, 12, 16, or 18 Outlet manifolds (choose at the time of ordering)			
Meter	<ul> <li>Plastic peg meters rollers with brush for self cleaning</li> <li>Manual hopper bottom shut-off slide gates</li> <li>8 GPM PWM Valve</li> <li>Meter encoder, Fan speed sensor, Bin level sensor</li> </ul>			
Implement Mounting	Standard mounting leg assembly with hardware*     *May require customer modification to fit various implements.     ST-10 does not come standard with mounting hardware.			
Fan	Hydraulic fan drive. Requires 17 GPM @ 2800 psi. Case drain required. Hoses to tractor not included.			
Air Routing	<ul> <li>200 feet of 2 inch or 2.5 inch air line</li> <li>Air distribution routing may require additional 2 inch or 2.5 inch air line.</li> </ul>			
Options	<ul> <li>Air line splitters</li> <li>Low rate peg meter rolls</li> <li>Air diffuser kit for broadcast application.</li> </ul>			
Optional Control Packages and Scales	<ul> <li>ISOBUS Controls* (includes</li> <li>20' ISOBUS extension cable</li> <li>Digistar Scale Kit (includes o</li> <li>Digitstar SCALE-LINK Scale</li> </ul>	ne cab display)		

\*For use with 3rd party ISObus 11783 cab consoles utilizing prescription mapping (i.e. JD 2630, CaseIH Pro700, AGCO Command Center, Trimble TMX2050, etc.) \* ISObus compliance does not guarantee compatibility with all functionality on 3rd party ISObus displays; Non-ISObus displays are not compatible with this controller. Always consult with the display manufacturer before purchase - Prescription mapping and/or auto section control may require software unlock. Ensure latest display firmware version is installed.

PathFinder Tire Specifications					
	6 Ton	8 Ton	10 Ton		
Wheel Hub	• 10 Bolt	• 10 Bolt	• 10 Bolt		
Standard Tire	• 380 / 90 R46 <b>156A</b>	• 380 / 90 R46 <b>173D</b>	• 380 / 90 R46 <b>173D</b>		
Optional Row Crop Tire	• 480 / 80 R46 <b>168A8</b>	• 480 / 80 R46 <b>174A8</b>	• 480 / 80 R46 <b>174A8</b>		
Optional Floatation Tire		• 800 / 65 R32	• 800 / 65 R32		
Compatible Fertilizer System	• ST-6	• ST-8	• ST-10		



INDEPENDENT SERIES	AERWAY	TILLAGE	BBI SPREADERS	VALMAR APPLICATORS	SEEDING	SALFORD
I-1100	HAY & PASTURE	5200 ENFORCER	MAGNASPREAD	8600 PULL-TYPE	520 AIR DRILLS	USA - Osceola, Iowa • Cornelia, Georgia Canada - Salford, Ontario • Elie, Manitoba
I-1200			ENDURANCE	9620 PULL-TYPE	525 AIR DRILLS	
I-2100	TILLAGE ORCHARD/	9200 IN-LINE RIPPER	LIBERTY	5500 PULL-TYPE	AIR CARTS	Phone: 519-485-1293 Toll Free: 1-866-442-1293
I-2200	VINEYARD	MOLDBOARD	GRASSHOPPER	1255 PULL-TYPE	PATHFINDER CART	Email: sales@salfordgroup.com
I-4100	TURF	PLOWS	CRICKET	245 PULL-TYPE		www.salfordgroup.com
I-4200		CULTIVATORS	TROOPER	55/56 SERIES		
	72.000	UNIVERSAL HARROWS		455 FORAGE PRESERVATIVE APPLICATOR		
			All Property and the	ST-6, ST-8, ST-10	The state of the s	town or the second seco

