

V-BOX SPREADERS

V-BOX SPREADERS



IT'S WHAT WE KNOW



DISCOVER THE SWENSON ADVANTAGE

With over 75 years of experience, Swenson is the recognized leader in the design and manufacturing of truck-mounted spreaders for private and municipal ice and snow control, as well as related applications, such as construction, landscaping, and hauling. If you participate in any or all of these industries on a continuous or seasonal basis, you rely on equipment that delivers dependable performance and rugged reliability day in and day out. Swenson understands that high maintenance costs and downtime delays ROI, drives up costs of ownership, impairs productivity, and steals from the bottom line. Swenson's equipment is built to last and will have a positive impact on your success for many years to come.



CHALLENGE: CONSIDER THE POSSIBILITIES OF SWENSON V-BOX SPREADERS

The Swenson family of V-box spreaders represents the ultimate in manufactured quality, performance and reliability. Our in-house, Swenson Select™ spreader selection application is so technologically savvy, it makes highly customizable products virtually standard. This software allows Swenson to provide fast, accurate estimates, dimensional renderings and has reduced customized product delivery times by up to 50%! From our proven EV-Select series of V-box spreaders to our auger enhanced EVA-100 and the Twin Spinner equipped Airport Spreader, Swenson delivers the most advanced and reliable spreader systems available.

SWENSON V-BOX SPREADER APPLICATIONS

		EV100	EV150	EV200	VBEL	EVA	COMBO
VEHICLE APPLICATION GUIDE							
Truck Class Chart	Class 7 (26,001 - 33,000 GVW)	x	x	x	x	x	x
	Class 8 (33,001 + GVW)	x	x	x	x	x	x
Mounting Style	Chassis Mount	x	x	x	x	x	x
	Slip In Mount	x	x	x	x	x	x
SPREADER CONFIGURATION							
Drive Train	Direct Coupled Motor					x	
	Gearbox Drive 6:1			x			
	Gearbox Drive 25:1	x	x				
	Gearbox Drive 50:1	x	x				
Conveyor Type	7" Multi Pitch Auger					x	
	Drag Chain w/1/4" crossbars	x					
	Drag Chain w/3/8" crossbars	x	x	x	x		
	Belt Over Chain (option)	x	x	x	x		
Design Features	Granular Spreader	x	x	x	x	x	x
	Pre-Wet (option)	x	x	x	x	x	x
	Anti-Ice Sprayer						x
	Airport Package (option)			x			
Idler Shaft Diameter	1 1/4"	x		x	x		
	2"		x				
Drive Shaft Diameter	1 1/2"	x			x		
	2"		x	x			
Sprocket Specification	6 tooth	x			x		
	8 tooth		x	x			
Output Rate	8.5 lbs. per rev.					x	x
	11.5 lbs. per rev./per inch gate height	x					
	15.0 lbs. per rev./per inch gate height	x	x	x			
Material Application Guide	Ice Control (Free Flowing)		x	x		x	x
	Salt	x	x	x	x	x	x
	Salt/Sand Mix	x	x	x	x		x

E-SERIES

EV-100

EV-150

EV-200

VBEL



Materials

- Salt
- Sand
- Salt / Sand Mix
- 3/8 Chips
- Magnesium Chloride
- Treated Rock Salt
- Clear Path Ice Melt



Highlights

- The Workhorse V-box perfect for general spreading and standard at many municipalities
- 25:1 gearbox handles most types of materials, including salt/sand mixes
- 6 tooth sprocket with 1 1/2" drive shaft for smooth conveyance of material
- 18" spinner disk for consistent spreading
- Self Cleaning style pintle chain with 1/4" thick cross bar
- 2 internal and 4 external baffle system allows for precise placement of material
- Top Screen breaks up material to minimize damage to drag chain

Equipment

Size Specifications:	8 to 22 feet
Capacity:	4.9 to 17.5 cubic yards
Construction:	Stainless steel, Carbon steel, Corten
Application Rate:	4' to 40' spread pattern, 400 to 900 lbs per lane mile
Steel Gauges:	10 gauge* sides and ends with 7 gauge longitudinals
Safety Features:	Drop N Loc top screens
Warranty Details:	1 year limited warranty**
Options:	Pre-wetting system, tarp kit, tie down kit, vibrator kit, tarp cover, cab shield, leg stands, observation platform, sloped front, belt over chain, custom paint color, rubber side shields

*12 gauge for stainless steel

** 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details.

Highlights

- Robust V-box ideal for the demanding municipality
- High torque 50:1 gearbox handles virtually all types of material including salt, sand and rock
- 8 tooth sprocket and 2" drive shaft provides the most fluid and smooth conveyance of material in the industry
- Swing up spinner system with 20" spinner disk for consistent spreading
- Heavy duty self Cleaning style pintle chain with 3/8" extra thick cross bar
- Standard drag chain take-up to the rear for easy maintenance
- Top Screen breaks up material to minimize damage to drag chain

Equipment

Size Specifications:	8 to 22 feet
Capacity:	4.3 to 17.5 cubic yards
Construction:	Stainless steel, Carbon steel, Corten
Application Rate:	4' to 40' spread pattern
Steel Gauges:	10 gauge* sides and ends with 7 gauge longitudinals
Safety Features:	Drop N Loc top screens
Warranty Details:	1 year limited warranty**
Options:	Inverted V's, observation platform, cab shield, extended idler grease tubes, pre-wet systems, belt over chain, leg stands, and many more

*12 gauge for stainless steel

** 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details.

TYPICAL CONFIGURATIONS*

Model	Material	Spinner Disk	Gearbox	Sprockets	Idle/Drive Shaft	Cross Bars	Motor Mount
EV-100	Material 1/2" or smaller	18" carbon	25:1	6	1-1/2" drive shaft, 1-1/4" idler	1/4" thick	Bottom
EV-150	Material 1/2" or smaller	20" carbon	50:1	8	2" drive shaft, 2" idler	3/8" thick	Top
EV-200	Dry material 1/2" or smaller	20" polyurethane	6:1	8	2" drive shaft, 1-1/2" idler	3/8" thick	Top
VBEL	Material 1/2" or smaller	18" polyurethane	289:1	6	1-1/2" drive shaft, 1-1/4" idler	3/8" thick	Bottom

* EV-100, EV-150 and EV-200 are build to order

EV-100



EV-150



EV-200



VBEL



Highlights

- The High Volume V-Box that puts down large amounts of material
- High Speed 6:1 gearbox handles dry salt, sand and salt/sand mixes
- 8 tooth sprocket with 2" drive shaft and 1 1/2" idler for smooth conveyance of material
- Swing up spinner system with 20" polyurethane spinner disk for longer life and consistent spreading
- Self Cleaning style pintle chain with 3/8" extra thick cross bars
- Top Screen breaks up material to minimize damage to drag chain

Equipment

Size Specifications:	8 to 22 feet
Capacity:	4.3 to 17.5 cubic yards
Construction:	Stainless steel, Carbon steel, Corten
Application Rate:	4' to 40' spread pattern
Steel Gauges:	10 gauge* sides and ends with 7 gauge longitudinals
Safety Features:	Drop N Loc top screens
Warranty Details:	1 year limited warranty**
Options:	Inverted V's, observation platform, cab shield, extended idler grease tubes, pre-wet systems, belt over chain, leg stands, and many more

*12 gauge for stainless steel

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Highlights

- Designed for 20,000+ GVW Trucks
- Uses electrical power from truck itself
- 2 Industrial Grade electric motors separately drive the drag chain and spinner disk
- Dual Speed Controller installs in cab of vehicle to provide ultimate spreading
- Swing Up Spinner System allows for quick unloading of material
- Standard inverted V keeps weight off the drag chain for optimal performance

Equipment

Size Specifications:	10 to 15 feet
Capacity:	5.5 to 8.5 cubic yards
Construction:	Corrosion resistant stainless steel or Carbon steel
Application Rate:	4' to 40' spread pattern
Steel Gauges:	10 gauge* carbon steel hopper
Safety Features:	Drop N Loc top screens
Warranty Details:	1 year limited warranty**
Options:	Pre-wetting system, tarp kit, tie down kit, vibrator kit, tarp cover, cab shield, leg stands, observation platform, sloped front, belt over chain, custom paint color, grease extension to rear, rubber side shields

*12 gauge for stainless steel

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AUGER V-BOX (EVA 100)



Auger shown without
guard cover

Highlights

- Designed for 20,000+ GVW Trucks
- 2 separate hydraulic motors power the auger and spinner disk
- Hydraulic interlock system prevents access to the auger drive system
- Standard inverted V keeps weight off the auger for optimal performance
- Remote grease extension to the rear allows for easy lubrication of the front bearing
- Heavy duty 7" hard surfaced auger with 3 pitch lengths for even unloading
- Swing Up Spinner System allows for quick unloading of material
- Heavy duty Drop n Lock top screen breaks up material to prevent damage to the auger drive system



Equipment

Size Specifications:	Available in 8' to 15' lengths Available in heights of 48", 54" and 60" 84" wide
Capacity:	4.4 to 11.5 cubic yards
Construction:	Stainless steel or Carbon steel
Application Rate:	4' to 40' spread pattern
Steel Gauges:	10 ga carbon steel hopper 12 ga stainless steel hopper
Safety Features:	Hydraulic interlock, Drop n Lock top screen
Warranty Details:	1 year limited warranty*
Options:	Pre-wetting system, tarp kit, tie down kit, vibrator kit, tarp cover, cab shield, leg stands, observation platform, sloped front, belt over chain, custom paint color, rubber side shields

* 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details

Materials

- Salt
- Salt / Sand Mix
- 3/8 Chips
- Magnesium Chloride
- Treated Rock Salt
- Clear Path Ice Melt



SPECIALTY

EV AVIATION (AIRPORT)



THE COMBO



Highlights

- 4.3 to 15.0 cubic yards
- High volume, high output spreader designed for airport use
- Available in stainless, carbon steel or corten construction

Equipment

Size Specifications	8 to 22 feet
Capacity	4.3 to 15.0 cubic yards
Construction	Stainless steel, Carbon steel, Corten
Application Rate	6' to 60' spread pattern
Steel Gauges	10 gauge* sides and ends with 7 gauge longitudinals
Safety Features	Drop N Loc top screens
Warranty Details	1 year limited warranty**
Options	Inverted V's, observation platform, cab shield, extended idler grease tubes, pre-wet systems, belt over chain, leg stands, light bar and many more

*12 gauge for stainless steel

** 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details

Materials

- Must follow FAA guidelines for material type and application

Highlights

- Designed for 33,000+ GVW tandem axle trucks
- Spreaders either liquid, granular or a mixture of both
- Self storage leg stands allows for easy load/unload
- Three lane liquid coverage

Equipment

Size Specifications	Designed for tandem axle trucks
Granular Spread Pattern	4 to 40'
Liquid Spray Pattern	1 to 3 lane coverage
Granular Capacity	6.7 cubic yards
Pre Wet Liquid Capacity	400-800 gallons
Anti-Icing Liquid Capacity	400-800 gallons
Granular Material Movement System	Auger/Conveyor Chain
Steel Gauges	12 gauge body
Safety Features	Hydraulic interlock for hopper
Warranty Details	1 year limited warranty*
Options	Side spill shields, front cab cover

* 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details

Materials

Granular:

- Rock Salt, Calcuim Chloride, Magnesium Chloride, Treated Rock Salt, Clear Path Ice Melt

Liquid:

- Salt Brine, Calcium Chloride, Magnesium Chloride

V-BOX LEG STANDS



Integral Leg Stands



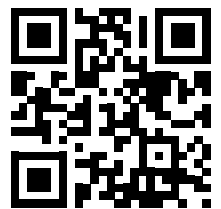
Highlights

- Adjustable in height design
- Retrofitable to existing hoppers
- Powder coat on carbon steel
- Self loading design
- Fold-up front leg
- Unit stores safely on ground when not in use
- No lifting required
- Universal design allows various manufactured V-boxes to fit on leg stand
- Available on EVA with quick detachable spinner assembly
- Bolts directly to the V-box
- Integral leg stands allows v-box spreader to sit on dump body floor keeping the center of gravity lower

Equipment

Size Specifications:	8'to 16'
Construction:	Carbon Steel and stainless steel
Adjustable Height:	12"
Steel Gauges:	Stainless - Formed 7 ga / Carbon Steel -structural tubing
Safety Features:	Front legs utilize a positive lock when uploaded increasing stability, ¾" solid steel pins, Sloped rear legs for added stability
Warranty Details:	1 year*
Options:	Formed stainless steel, carbon steel available in either structural tubing or formed

*See dealer or www.swensonspreader.com for more details.



OPTIONAL EQUIPMENT



Chain Oiler

Observation Platform



Grease Extension



Swing-Up Spinner

V-BOX SPREADER OPTIONAL EQUIPMENT

OPTIONAL ITEMS	EV-100/150/200 SELECT™	EVA-100™	AIRPORT SPREADER™	VBEL™
Spray systems	x	x	x	x
Sloped front	x	x	x	x
Sloped rear	x	Standard	Standard	Standard
Drag chain side links (Roller)	x			x
Tailgate latch kit	x	x	x	x
Belt-over chain with belt sealers	x		x	x
Flex-Edge Feedgate	x		x	x
Top screens (Extra Heavy Duty)	x	x	x	x
Center beam elevation	x	x	x	x
Observation Platform	x	x	x	x
Inverted Vee	x	Standard	x	x
Spill shields	x	x	x	x
Hold down options	x	x	x	x
Swingup Spinner	x	(Standard on 150, 200)	x	x
Storage Legs/Leg Stands	x	x	x	x
Drag chain take-up to the rear	x	(Standard on 150)	x	x
Grease extension to the rear	x	(Standard on EVA-100)	x	x
Self-contained engine hydraulic package	x	20" polyurethane	6:1	x
Chassis Mounting Kit	x	x	x	x
Slip In Nylon Strap (4 total)	x	x	x	x
Chain Oiler, Gravity Type (1 gal. capacity)	x	x	6:1	x
Full Cabshield 80" width	x	x	x	x
Winch for Swing Up Spinner Assy	x	x	6:1	x
Light bar with stop, turn, tail and (special lights)	x	x	x	x
4" Pedestal mount spot light	x	x	x	x
Rubber Side Shields	x	x	x	x
Low-Temp Belt Over Chain w/Sealers (Installed)	x		x	x

EV-SELECT



Equipment

The EV-Select spreader series is designed to be used coast-to-coast and allow municipalities to maximize their vehicle productivity year-round on vehicles greater than 20,000 lbs. (GVW). In addition to being customizable to respond to specific needs and applications, EV-Select is also delivered with a strong set of value-added standard features to ensure optimum productivity from the start, as well as a speedy ROI.

All EV Series spreaders are similar in design and powder coated* at the factory to insure the longevity of your investment. The Swenson Value Advantage is realized by the fact that you can choose the drive train that best fits your specific needs.

* Carbon steel units only.



Observation platform



Grease extension allows for easy maintenance

Size Specifications:	Available in 8' - 22' lengths (1 foot increments) Available in 46" - 72" heights (1 inch increments) 82" wide
Capacity:	4.3 to 15.0 cubic yards
Construction:	Stainless steel or Carbon steel
Application Rate:	4' to 40' spread pattern
Steel Gauges:	10 ga carbon steel hopper 12 ga stainless steel hopper
Safety Features:	Drop n Lock top screen
Warranty Details:	1 year limited warranty*
Options:	Pre-wetting system, tarp kit, tie down kit, vibrator kit, tarp cover, cab shield, leg stands, observation platform, sloped front, belt over chain, custom paint color, rubber side shields

* 1 year limited warranty applies to hopper only. See dealer or www.swensonspreader.com for more details



Defining specifications



3-D renderings for validation



Manufacturing/production

Materials

- Salt
- Salt / Sand Mix
- 3/8 Chips
- Magnesium Chloride
- Treated Rock Salt
- Clear Path Ice Melt



Gearbox Configuration

Swenson offers three choices of gearbox configurations for powering your V-Box spreader. Their distinct advantages and benefits can be seen in the following chart making it easy to match the gearbox to your specific needs.

Gearbox	Speed	Torque	Materials
6:1	★★★ BEST	★ GOOD	Dry Only
25:1	★★ BETTER	★★ BETTER	Mixtures
50:1	★ GOOD	★★★ BEST	All (sand, salt, rock)

Six tooth sprocket versus Eight tooth sprocket

Eight tooth sprocket provides for a more fluid and smooth conveyance of material. With its 2" drive shaft and idler, it provides the ultimate in durability and ruggedness.

Six tooth sprocket provides smooth conveyance of material for most applications. Its 1 1/2" drive shaft and 1 1/4" idler is the industry standard. Six tooth sprocket allows higher chain loading.

What Conveyor type

1/4" thick cross bars offers the most basic conveyance of material. It pulls material off the conveyor and onto the spinner at industry standard rates.

3/8" thick heavy duty cross bars pulls material more consistently than 1/4" wide cross bars.

Belt over chain is the ultimate in material conveyance and durability. Belt over chain provides smooth output without clumping.

Top Mounted versus Bottom Mounted Spinner Motor

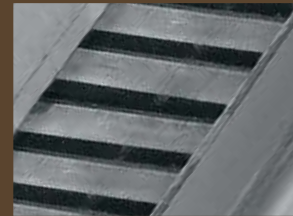
Bottom mounted motors allow for the most precise spreading patterns as the material can be dropped anywhere on the disc.

The advantage of **top mounted motors** is that ground clearance is increased by 10" by having the motor mounted on top. This is designed for operators who might encounter rougher terrain such as large pot holes.

Swing Up Spinner versus Standard Spinner

The Swing Up spinner can be rotated up to 180 degrees by the operator when not in use. This has two advantages over the standard spinner. The first advantage is that when unloading the material at the end of the day, you can rotate the spinner up and unload the material via the conveyor without spreading the material. This eliminates having to clean up your material after unloading it. The second advantage is that you can store the V-box flat with the spinner in the upright position, thereby eliminating the need to store the V-box on a ground rack.

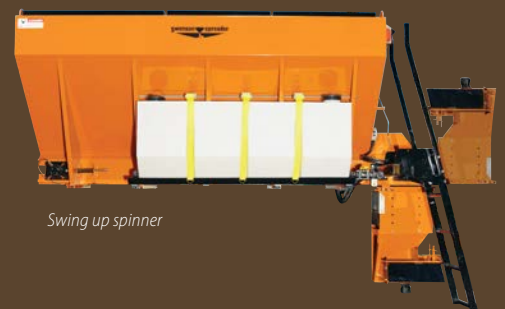
HOW TO CHOOSE THE RIGHT SWENSON V-BOX SPREADER FOR YOU



Cross bars



Belt over chain



Swing up spinner

**Look to Swenson for
all your equipment needs.**



Swenson offers a wide range of spreaders, dump bodies and liquid application equipment that can be customized to meet your exact needs. It's what sets us apart from the competition. We know it's critical to make sure you have the proper equipment right from the start.



Dump Bodies

Available in a wide variety of sizes from 9' to 15'; 5 to 16 cu. yds.



Insert Dump Beds

Available in 6.5' and 8' lengths; 1.5 and 2.24 cu. yds.



All Purpose Bodies

Available from 9' to 15'; and 2.5 to 16 cu. yds.

Anti-Icers

From 100 to 1,000+ gallon; perfect solution for pre-treating pavement



Pre-Wet Systems

Available in hydraulic or electric; perfect solution for improving material effectiveness

SWENSON GENUINE PARTS

Genuine Swenson Parts and Accessories are in stock to keep you up and running from one season to the next – all year round. We have a large parts and accessories inventory. It is continuously maintained for fast shipment to you or your authorized Swenson distributor.



An experienced Parts and Accessories Manager is always available to provide you with detailed information on chains, belts, sprockets, augers, motors, spinner assemblies, valves, and emergency parts kits. Whether you own a small business or manage an entire fleet, our job is keeping you on the job. Remember, only genuine Swenson parts fit your Swenson equipment exactly.

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