

SPECIFICATIONS

**HIGHLANDER® JR. SPREADER**

Model <b>GAS DRIVE</b>	HL-JR-6	HL-JR-7	HL-JR-8	HL-JR-9	HL-JR-10
Hopper Length	72"	80"	92"	108"	120"
Hopper Height	35"	35"	35"	35"	35"
Hopper Width	48"	48"	48"	48"	48"
Overall Length	96"	104"	116"	132"	144"
Capacity (Cubic Yards Level)	.92	1.5	1.86	2.35	2.7
Capacity with Optional 6" Hopper Extensions	1.42	2.0	2.46	3.0	3.45
Capacity with Optional 12" Hopper Extensions	1.92	2.5	2.96	3.5	3.95
Spreader Empty Weight	820 lb.	880 lb.	940 lb.	1,050 lb.	1,110 lb.
Hopper Construction	14 GA	14 GA	14 GA	14 GA	14 GA
Number of Hopper Side Supports (Per Side)	2	3	3	3	4
Chevron Conveyor Chain- 15" Wide	Standard	Standard	Standard	Standard	Standard
Conveyor Bridge	Optional	Optional	Optional	Standard	Standard
Top Screen(s)	1 Flat	1 Flat	1 Flat	2 Flat	2 Flat

Other sizes and dimensions are available upon request.

Note: To figure the load any model will carry, use these approximate material weights:

1 cubic yard dry salt: 2200 lbs & 1 cubic yard wet sand: 3300 lbs.

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Manufactured By:



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**TARCO®**

**SNOW & ICE CONTROL SPREADERS**



All purpose conveyor-type V-Box Spreader for salt, sand mixtures and chips.

**HIGHLANDER® JR. GAS DRIVE**

**518-584-4400 www.FMFAB3.com**

# HIGHLANDER® JR. GAS DRIVE SPREADER

Highlander® Junior material spreaders, manufactured by Fort Miller FAB3 Corp., are quality engineered and built to handle deicing and snow control materials for driveways, roads and parking lots. This model is available with either gas or hydraulic power units to fit a variety of truck sizes and features an efficient spread pattern, saving time and money.

## POWER UNITS

### GAS

This unit has a Briggs & Stratton 10.5 horsepower I/C air-cooled engine with an electric clutch. The engine has an electric throttle, electric start, choke and stop controls for cab installation. The engine and full size automotive type battery are enclosed by a fully vented enclosure. A manual pull start is supplied as an alternative starting method.

### HYDRAULIC

**Model HY1** A single hydraulic motor is coupled to the 20:1 gearbox to drive the conveyor chain and spinner disc. Hydraulic hoses and quick couplers are supplied to reach the rear of the truck. The vehicle must be equipped with a hydraulic system capable of producing 8 GPM at 1000 RPM.

**Model HY2** This unit has a dual hydraulic motor drive to allow independent spinner

and conveyor speed. One hydraulic motor is coupled to the gearbox to drive the conveyor chain and another hydraulic motor is coupled to drive the spinner disc. Hydraulic hoses and quick couplers are supplied to reach the rear of the truck. The vehicle must be equipped with a hydraulic system capable of producing 12 GPM at 1000 RPM.

## HOPPER BODY CONSTRUCTION

The hopper body is fully welded 14 gauge type 304 stainless steel. The hopper sides and conveyor are formed with one sheet of steel, with no horizontal welded seams, to improve hopper strength and longevity. Hopper side supports (gussets) rest on 2" formed channel cross sills to help support the sides and provides a stable platform for truck mounting. Four (4) nylon hold down straps are supplied with the unit as standard equipment. The hopper top edge is channel formed for strength

## OPTIONS

**Extended Spinner Assembly  
(Recommended for Truck Bed  
Heights Over 47" Tall)**

**Honda 11 HP Engine**

**Dump Body Hold Down Equipment**

**Conveyor Bridge  
(Standard on 9' & 10' Hoppers)**

**Built-in Hopper Extensions  
(For Increased Capacity)**

**Trailer With Lights, Electric  
Brakes and Fenders**

**Stainless Steel Wear Plate  
& Spinner Assembly**

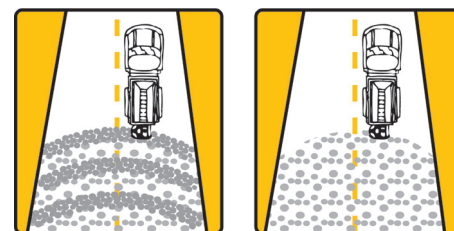
**Polished Stainless Steel**

**Light Bar (Standard or LED)**

**Single Lifting Beam**

**Fork Lift Pockets**

with the sides sloped at 45° to insure free flow of material. A fully adjustable rear flow gate, four corner lifting loops and heavy duty top screens are standard. Stainless steel units are left unpainted, natural stainless steel finish.



### Chevron Spread Pattern

The image on the left illustrates the uneven spread pattern typical of an ordinary bar conveyor. The Chevron Conveyor provides an even spread pattern with "strike zone" direction control, as seen in the illustration on the right.

The Highlander® Junior is manufactured to the same high Fort Miller FAB3 quality specifications as all other TARCO® brands. Standard features include a removable spinner assembly, heavy duty top screens, one piece hopper construction and our unique Chevron Conveyor Chain System.

Fort Miller FAB3's exclusive Chevron Conveyor performs with "strike zone" direction control. It is easy to adjust or change and best of all, it eliminates waste. The Chevron Conveyor offers a more controlled spread – providing an even, non-pulsating flow regardless of conveyor speed, material consistency or temperature.

## CHEVRON CONVEYOR

The Chevron Conveyor System's unique design provides a constant feed of material to the spinner disc regardless of the conveyor speed. The conveyor system is 15" wide to eliminate material bridging. Conveyor chain side links are protected by welded chain aprons.

The conveyor chain has an adjustable spring loaded idler roller with over 3" of travel. This reduces wear and tear on the conveyor chain. A 10-gauge steel replaceable conveyor wear plate supports the underside of the conveyor. A 20:1 right angle gearbox drives the conveyor chain. The drive sprockets are cast iron with 8 teeth, keyed and set screwed to the 1-1/4" diameter gearbox drive shaft. Both the conveyor drive shaft and idler shaft are supported by grease able flange bearings.



## SPINNER ASSEMBLY

A 14" diameter polyurethane spinner disc with four molded, directional vanes is provided. Spread pattern is controlled by adjusting the angle of the stainless steel discharge chute (requires no tools). A deflector assembly surrounds the spinner disc for a low angle spread pattern. The entire spinner assembly is quickly detachable for storage or travel between jobs by removing four (4) T-bolts by hand.

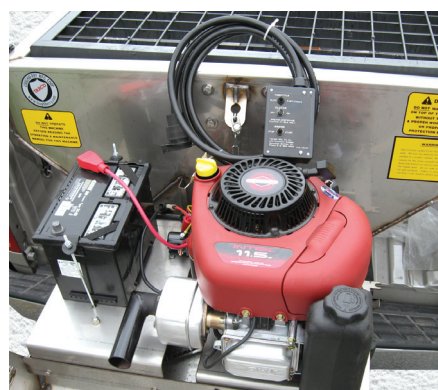


### Top Screen

Heavy duty top screens are constructed of 1/4" diameter rods welded to 1/8" x 1" bars on edge to form 2-1/2" square openings.



Optional 6" hopper extension shown above



### Gas Engine and Cab Controls

Equipped with a standard 10.5 HP Briggs & Stratton engine that is fully enclosed to provide protection during loading and operation. In cab controls provide operational controls for ignition, choke, electric throttle and electric clutch.



### Chevron Conveyor System

The Chevron Conveyor is 15" wide to eliminate material bridging. Tensile strength – 21,000 lbs. The Chevron Conveyor System's bar and chain construction continuously feeds material to the spinner disc for an even spread pattern.

### Spinner Assembly

Spinner assembly is easily removed between storms or for flat storage in summer. No tools required.



- Snow and Ice Equipment
- All Season Dump Bodies
- Leaf Loaders

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