

**SANDERS/SPREADERS  
BASE UNIT REQUIREMENTS  
SPECIFICATION NO. 4.0**

FILE NO. T763-02192020

Vendor Name:	<b>TWIN STAR EQUIPMENT &amp; MFG</b>
Contact Person:	<b>ERIC FENSKE, ADELE HARRIS, STEVE BERGERON</b>
Street Address:	<b>1950 202ND STREET E</b>
P.O. Box:	
City, State, Zip	<b>CLEARWATER, MN 55320</b>
Phone #:	<b>OFF: 320-558-2800, ERIC CELL: 612-269-3093, ADELE CELL:651-368-6055, STEVE CELL: 701-929-0531</b>
Toll Free #:	
Fax #:	<b>320-558-2809</b>
Email Address:	<b><a href="mailto:PARTS@TWINSTARTRUCK.COM">PARTS@TWINSTARTRUCK.COM</a>, <a href="mailto:ADELE@TWINSTARTRUCK.COM">ADELE@TWINSTARTRUCK.COM</a>, <a href="mailto:STEVE@TWINSTARTRUCK.COM">STEVE@TWINSTARTRUCK.COM</a></b>
Website:	<b><a href="http://twinstartruck.com">twinstartruck.com</a></b>

Version of Excel used: **2016**

**4.0**

**SANDERS**

Manufacturer	<b>SnowEx</b>
Make	<b>See Attached</b>
Warranty Length (In days, months, or years)	<b>2 Years</b>
<b>4.1</b> Date & I.D. of Price List	<b>3-27-2020 SNXSND</b>
<b>4.2</b> Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
<b>4.3</b> Cost to assemble sander	<b>Included</b>
<b>4.4</b> Installation of Sander	<b>Included - See Schedule</b>
<b>4.5</b> Price of ICC bumper under ride protection	<b>Included</b>
<b>4.6</b> Installation of ICC bumper under ride protection	<b>Included</b>
<b>4.7</b> Per Hour Shop Rate	<b>\$ 99.00</b>
<b>4.8</b> Price per loaded mile for delivery Delivery Starting Point Address	<b>2.50 per Mile Clearwater, MN 55320</b>

**SNOWEX  
UTILITY**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.9	SP-100-1 3.0 Cu. Ft. Spreader w/ Electric Gate	\$ 1,620.00
4.10	SP-125-1 3.0 Cu. Ft. Accuspread Spreader	\$ 999.00
4.11	SP-225-1 3.0 Cu. Ft. Utility Spreader	\$ 999.00
4.12	SP-325 3.25 Cu. Ft. Utility Spreader	\$ 1,372.00
4.13	SP-210 3.0 Cu. Ft. Pivot Pro Spreader	\$ 979.00
4.14	INSTALL UTILITY - INSTALLATION - EACH	\$ 385.00

**PRO SERIES**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.15	SP-757X-1 5.75 Cu. Ft. Mini Pro Spreader	\$ 1,879.00
4.16	SP-1075X-1 10.75 Cu. Ft. Pivot Pro Spreader	\$ 1,979.00
4.17	INSTALL PRO SERIES - INSTALLATION - EACH	\$ 385.00

**BULK PRO**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.18	SP-1575-1 5 Cu. Ft Bulk Pro Spreader	\$ 2,862.00
4.19	SP-1675 5 Cu. Ft. Center Discharge Spreader (Fleet Flex)	\$ 3,429.00
4.20	SP-1875-1 9 Cu. Ft. Bulk Pro Spreader	\$ 3,072.00
4.21	INSTALL BULK PRO - INSTALLATION - EACH	\$ 485.00

**DROP PRO**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.22	SD-600-1 6.0 Cu. Ft. Drop Spreader	\$ 3,272.00
4.23	SD-1400 14.0 Cu. Ft Drop Spreader	\$ 4,074.00
4.24	INSTALL DROP PRO - INSTALLATION - EACH	\$ 385.00

**V-PRO TRUCK SPREADER**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.25	SP-2000 0.4 Cu. Yd. V-Pro Spreader	\$ 3,998.00
4.26	SP-3000 0.5 Cu. Yd. V-Pro Spreader	\$ 4,389.00
4.27	SP-6000 1.0 Cu. Yd. V-Pro Spreader w/ Step Frame	\$ 4,778.00
4.28	INSTALL V-PRO SPREADER - INSTALLATION - EACH	\$ 385.00

**V-MAXX SPREADER**

<b>PART #</b>	<b>DESCRIPTION</b>	
4.29	VX-1500 V-Maxx G2 1.5 Cu. Yd. Auger PH	\$ 5,854.00
4.30	VX-2200 V-Maxx G2 2.2 Cu. Yd. Auger PH	\$ 6,790.00
4.31	VX-2200HO V-Maxx High Output G2 2.2 Cu. Yd. Auger PH	\$ 6,888.00
4.32	VX-3200 V-Maxx G2 3.2 Cu. Yd. Auger PH	\$ 7,786.00
4.33	VX-4200 V-Maxx G2 4.2 Cu. Yd. Auger PH	\$ 10,461.00
4.34	VX-4210 V-Max Cab Forward G2 4.2 Cu. Yd. Auger PH	\$ 10,897.00
4.35	VX-6010 V-Maxx Cab Forward G2 6.0 Cu. Yd. Auger PH	\$ 13,334.00
4.36	INSTALL V-MAXX SPREADER - INSTALLATION - EACH	\$ 485.00

		<b>ELECTRIC LIQUID EQUIPMENT</b>	
<b>PART #</b>	<b>DESCRIPTION</b>		
4.37	83715	30 Gallon Pre-Wet System (Fleet Flex)	\$ 1,192.00
4.38	83720	75 Gallon Pre-Wet System (Fleet Flex)	\$ 2,302.00
4.39	83725	225 Gallon Pre-Wet System (Fleet Flex)	\$ 3,497.00
4.40	83730	200 Gallon Pre-Wet System (Fleet Flex)	\$ 2,517.00
4.41	83735	250 Gallon Pre-Wet System (Fleet Flex)	\$ 3,057.00
4.42	PWS-100	30 Gallon Pre-Wet System	\$ 1,215.00
4.43	PWS-175	75 Gallon Pre-Wet System	\$ 2,422.00
4.44	PWS-225	225 Gallon Pre-Wet System	\$ 3,501.00
4.45	PWX-200	200 Gallon Pre-Wet System (SP9300X Only)	\$ 2,777.00
4.46	PWX-250	250 Gallon Pre-Wet System (SP9500X/9800X Only)	\$ 3,261.00
4.47	VSS-1000	1000 Gallon Electric De-Icing Sprayer w/ 48" Boom	\$ 3,027.00
4.48	VSS-2000	2000 Gallon Electric De-Icing Sprayer w/ 84" Boom	\$ 5,579.00
4.49	VSS-3000	3000 Gallon Electric De-Icing Sprayer w/ 84" Boom	\$ 5,992.00
4.50	INSTALL	ELECTRIC LIQUID EQUIPMENT - INSTALLATION - EACH	\$ 475.00
		<b>UNDERTAILGATE/TAILGATE</b>	
<b>PART #</b>	<b>DESCRIPTION</b>		
4.51	SP-2400	V-Maxx Replaceable Tailgate Spreader	\$ 5,790.00
4.52	SP-2200	Undertailgate Spreader	\$ 4,999.00
4.53	INSTALL	UNDERTAILGATE/TAILGATE - INSTALLATION - EACH	\$ 875.00
		<b>V-Pro Towable Spreader</b>	
<b>PART #</b>	<b>DESCRIPTION</b>		
4.54	SP-1225G	12.0 Cu. Ft. Towable Bulk Material Spreader	\$ 3,539.00
4.55	SP-7000	1.4 Cu. Ft. Tow Pro Spreader	\$ 8,979.00
		<b>V MAXX G2 POLY</b>	
<b>PART #</b>	<b>DESCRIPTION</b>		
4.56	VX-1500	G2 1.5 CU. YARD AUGER	\$ 5,854.00
4.57	VX-2200	G2 2.2 CU. YARD AUGER	\$ 6,895.00
4.58	VX-2200HO	G2 HIGH OUTPUT 2.2 CU. YARD AUGER	\$ 6,901.00
4.59	VX-3200	G2 3.2 CU. YARD AUGER	\$ 7,943.00
4.60	VX-4200	G2 4.2 CU. YARD AUGER	\$ 10,591.00
4.61	VX-4210	G2 4.2 CAB FORWARD CU. YARD AUGER	\$ 10,987.00
4.62	VX-6010	G2 6 CU. YARD AUGER	\$ 13,469.00
4.63	INSTALL	V MAXX G2 POLY INSTALL EACH	\$ 485.00

<b>HELIX POLY SPREADER</b>		
<b>DESCRIPTION</b>		
<b>4.64</b>	<b>11780</b> 1.5 CU YARD	\$6,177.00
<b>4.65</b>	<b>11790</b> 2.25 CU YARD	\$7,195.00
<b>4.66</b>	<b>11800</b> 3.5 CU YARD	\$8,601.00
<b>4.67</b>	<b>11810</b> 5.0 CU YARD	\$10,992.00
<b>4.68</b>	<b>INSTALL</b> HELIX POLY - INSTALLATION - EACH	\$ 485.00
<b>HELIX STAINLESS STEEL</b>		
<b>4.69</b>	<b>11900</b> SS 1.5 CU YARD	\$ 5,912.00
<b>4.70</b>	<b>11910</b> SS 2.0 CU YARD	\$ 6,472.00
<b>4.71</b>	<b>11920</b> SS 3.0 CU YARD	\$ 7,653.00
<b>4.72</b>	<b>11930</b> SS 4.5 CU YARD	\$ 9,364.00
<b>4.73</b>	<b>11940</b> SS 6.0 CU YARD	\$ 10,547.00
<b>4.74</b>	<b>INSTALL</b> HELIX STAINLESS - INSTALLATION - EACH	\$ 485.00
<b>HELIX PRE WET</b>		
<b>4.75</b>	<b>74610</b> 100 GALLON 4 TANKS	\$ 2,601.00
<b>4.76</b>	<b>74620</b> 200 GALLON 4 TANKS	\$ 2,837.00
<b>4.77</b>	<b>74630</b> 100 GALLON EXPANSION TANK	\$ 1,166.00
<b>4.78</b>	<b>INSTALL</b> HELIX PRE WET - INSTALLATION - EACH	\$ 325.00

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Version of Excel used: **2016**

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**SANDERS**

Manufacturer	<b>SALTDogg</b>
Make	<b>See Attached</b>
Warranty Length (In days, months, or years)	<b>2 Years</b>
<b>4.1</b> Date & I.D. of Price List	<b>3-27-2020 BYERSSND</b>
<b>4.2</b> Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
<b>4.3</b> Cost to assemble sander	<b>Included</b>
<b>4.4</b> Installation of Sander	<b>See Schedule</b>
<b>4.5</b> Price of ICC bumper under ride protection	<b>Included</b>
<b>4.6</b> Installation of ICC bumper under ride protection	<b>Included</b>
<b>4.7</b> Per Hour Shop Rate	<b>\$ 99.00</b>
<b>4.8</b> Price per loaded mile for delivery Delivery Starting Point Address	<b>2.50 per Mile Clearwater, MN 55320</b>



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	<i>Version of Excel used:</i> <b>2016</b>

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**SANDERS**

Manufacturer	<b>HILLTIP</b>
Make	<b>ICESTRIKER TG-SERIES</b>
Warranty Length (In days, months, or years)	<b>2 YEARS</b>
4.1 Date & I.D. of Price List	<b>HILLTIP 3-20</b>
4.2 Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
4.3 Cost to assemble sander	<b>INCLUDED</b>
4.4 Installation of Sander	<b>\$475.00</b>
4.5 Price of ICC bumper under ride protection	<b>N/A</b>
4.6 Installation of ICC bumper under ride protection	<b>N/A</b>
4.7 Per Hour Shop Rate	<b>\$99.00</b>
4.8 Price per loaded mile for delivery Delivery Starting Point Address	<b>\$2.50</b> <b>CLEARWATER, MN 55320</b>

**DESCRIPTION**

The Icestriker -TG series spreader is an Electric Poly spreader with independently controled Dual motors for the horizontal auger and the spinner disc. The spreader has GPS speed control and HTrack™ tracking capability as standard features. The spreader is controlled via Bluetooth connection with HillTip StrikeSmart™ app & Smartphone which come with the spreader.

**MODELS**

4.9	HILLTIP Icestriker 45 (4.5 cu. ft.) -Two stage	\$	3,178.00
4.10	HILLTIP Icestriker 75 (7.5 cu. ft.) -Two stage	\$	3,248.00

**MOUNT**

4.11	2" Receiver hitch mount	\$	176.00
4.12	Pickup- EU tow/tailgate hitch 120L & 200L	\$	726.00
4.13	3-point hitch, Cat 0/I 120L & 200L	\$	224.00
4.14	3-point hitch, Cat II 120L & 200L Wheel loader / Fork lift 32mm Pin hitch, adjustable.	\$	266.00
4.15	Height adjustment, KRAMER ALLRAD Wheel loader 45 mm Pin hitch, adjustable.	\$	498.00
4.16	Height adjustment, JCB 409	\$	498.00
4.17	Avant & Multione Spreader mount	\$	391.00
4.18	Forklift mount	\$	422.00

**ACCESSORIES**

4.19	Vibrator for 4.5/7.5 cu. ft. spreader (salt, salt&sand mix)	\$	304.00
4.20	Vibrator Installaton	\$	150.00
4.21	Rear lights LED & License plate kit	\$	224.00
4.22	Installation of Rear LED's & License plate kit	\$	75.00
4.23	WHITE-LED Work light	\$	85.00
4.24	Installation of Work Light	\$	25.00
4.25	Salt Stop kit, <b>for dry/ fine salt</b>	\$	48.00
4.26	Installation of Salt Stop kit	\$	25.00
4.27	Smartphone controller holder	\$	91.00
4.28	Window / flat surface mount adapter	\$	49.00
4.29	Controller arm extension kit 95mm	\$	65.00
4.30	Floor mount for Controller L=540mm	\$	88.00
4.31	Joystick adapter cable with 90 degree elbow	\$	65.00

**HILLTIP HTRACK**

The Hilltip HTrack™ system is compatible with all HillTip snow plows, spreaders and de-icing sprayers. The HillTip HTrack™ collects the exact spreading rate on site from the spreader in oz/sq. ft., spreading width, spreading speed, total amount of material spread on route and empty driving information to calculate the efficiency of the route. Together with the spreader device you can also track when snow plow has been on the ground.

**TRACKING SYSTEM, HTRACK™ Licenses**

4.32	HTrack ONLINE logging data license 1-9 Vehicles	\$	850.00
4.33	Tracking for spreader, controller adapter (1pce / vehicle)	\$	279.00

**SANDERS/SPREADERS**  
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Website:	<b><a href="http://twinstartruck.com">twinstartruck.com</a></b>
	<i>Version of Excel used:</i> <b>2016</b>

**4.0**

**SANDERS**

Manufacturer	<b>HILLTIP</b>
Make	<b>ICESTRIKER 500</b>
Warranty Length (In days, months, or years)	<b>2 YEARS</b>
4.1 Date & I.D. of Price List	<b>HILLTIP 3-20</b>
4.2 Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
4.3 Cost to assemble sander	<b>INCLUDED</b>
4.4 Installation of Sander	<b>\$950.00</b>
4.5 Price of ICC bumper under ride protection	<b>N/A</b>
4.6 Installation of ICC bumper under ride protection	<b>N/A</b>
4.7 Per Hour Shop Rate	<b>\$2.50</b>
4.8 Price per loaded mile for delivery	<b>\$99.00</b>
Delivery Starting Point Address	<b>CLEARWATER, MN 55320</b>

**DESCRIPTION**

HillTip IceStriker 500 made in stainless steel is a 12V Electric Spreader. It's equipped with GPS speed control and HTrack™ tracking capability as standard features, giving you the best ice control results and most economic control system on the market. Spreader comes with a color control screen with multi programmable parameters. An optional PRE-wetting kit (tanks 26 gallon + pump) can be ordered with the spreader. MADE IN FINLAND

**MODELS**

4.9	500 SS IceStriker Spreader ( 0.5 cu.yd.)	\$	5,567.00
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**ACCESSORIES**

	Pre-wet Salt liquid kit, nozzles & pump kit factory installed		
4.10	Installation of pre-wet kit	\$	1,806.00
4.11	Rear lights & License plate kit	\$	950.00
4.12	Beacon light	\$	224.00
4.13	WHITE-LED Work light	\$	95.00
4.14	PLUS - SERIES Medium chute (+ 6") for truck beds height over 35"	\$	85.00
4.15	PLUS - SERIES Long chute (+10") for truck beds over 43" height	\$	324.00
4.16	End of material alarm sensor on spinner	\$	435.00
4.17	Smartphone controller holder	\$	435.00
4.18	Window / flat surface mount adapter	\$	91.00
4.19	Controller arm extension kit 95mm	\$	49.00
4.20	Floor mount for Controller L=540mm	\$	65.00
4.21	Joystick adapter cable with 90 degree elbow	\$	88.00
		\$	65.00

**LEGSTAND AND MOUNT FRAMES**

4.22	Leg stand for IceStriker 500 for flatbed	\$	1,485.00
4.23	Installation of Leg Stand	\$	375.00

**HILLTIP HTRACK**

The Hilltip HTrack™ system is compatible with all HillTip snow plows, spreaders and de-icing sprayers. The HillTip HTrack™ collects the exact spreading rate on site from the spreader in oz/sq. ft., spreading width, spreading speed, total amount of material spread on route and empty driving information to calculate the efficiency of the route. Together with the spreader device you can also track when snow plow has been on the ground.

**TRACKING SYSTEM, HTRACK™ Licenses**

4.24	HTrack ONLINE logging data license 1-9 Vehicles	\$	850.00
4.25	Tracking for spreader, controller adapter (1pce / vehicle)	\$	279.00

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	<i>Version of Excel used:</i> <b>2016</b>

**4.0**

**SANDERS**

Manufacturer	<b>HILLTIP</b>
Make	<b>ICESTRIKER PLUS</b>
Warranty Length (In days, months, or years)	<b>2 YEARS</b>
4.1 Date & I.D. of Price List	<b>HILLTIP 3-20</b>
4.2 Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
4.3 Cost to assemble sander	<b>INCLUDED</b>
4.4 Installation of Sander	<b>\$1,150.00</b>
4.5 Price of ICC bumper under ride protection	<b>N/A</b>
4.6 Installation of ICC bumper under ride protection	<b>N/A</b>
4.7 Per Hour Shop Rate	<b>\$2.50</b>
4.8 Price per loaded mile for delivery Delivery Starting Point Address	<b>\$99.00</b> <b>CLEARWATER, MN 55320</b>

**DESCRIPTION**

HillTip IceStriker PLUS is a Electric Poly Hopper combi Spreader from 1/2 -3/4 ton pick-up trucks. This spreader is unique as it has a built-in tank for an optional pre-wetting system (0.8 cu. yd. dry material & 90 gal liquid, model 800), and it requires no extra tanks. Additionally it comes with GPS speed control and HTrack™ tracking capability as standard features. The IceStriker has the most efficient and economic control system on the market. The Spreader comes with a color control screen with multi programmable parameters and can transfer online tracking data when used with the optional HillTip HTrack™ system. The spreader comes in grey color as standard. MADE IN FINLAND.

**MODELS**

4.9	800 HillTip IceStriker Spreader (0.8 cu.yd.)	\$	6,499.00
4.10	1000 HillTip IceStriker Spreader (1.0 cu.yd.)	\$	7,774.00
4.11	1150 HillTip IceStriker Spreader (1.15 cu.yd.)	\$	7,700.00
4.12	1450 HillTip IceStriker Spreader (1.45 cu.yd.)	\$	8,979.00

**ACCESSORIES**

4.13	Rear lights & License plate kit	\$	224.00
4.14	Installation of rear lights & license plate kit	\$	75.00
4.15	Beacon light	\$	95.00
4.16	Installaton of beacon light	\$	25.00
4.17	WHITE-LED Work light	\$	85.00
4.18	Installation of work light	\$	25.00
4.19	Additional Vibrator for 1000 / 1450 ( wet material)	\$	243.00
4.20	Installation of additional vibrator	\$	125.00
4.21	OBD- Connection, direct Vehicle Speed	\$	213.00
4.22	Installation of OBD	\$	69.00
4.23	End of material alarm sensor installed on chute	\$	435.00
4.24	Installation of material alarm	\$	129.00
4.25	Smartphone controller holder	\$	91.00
4.26	Window / flat surface mount adapter	\$	49.00
4.27	Controller arm extension kit 95mm	\$	65.00
4.28	Floor mount for Controller L=540mm	\$	88.00
4.29	Joystick adapter cable with 90 degree elbow	\$	65.00
4.30	Heavy duty connector kit 500-1450 Spreaders, Factory Installed on Spreader	\$	826.00
4.31	Cam-lock adapter, 800-1150 spreaders	\$	244.00

**OPTIONAL LIQUID ACCESSORIES**

By adding pre-wet kit to your Icestriker spreader you can automatically save up to 30% of the yearly salt usage. The other de-icing method you get by adding liquid spraybar, using salt liquid only you can save 50-75% of your salt usage compared to traditional salt granulates in certain weather conditions.

4.32	Pre-wet Salt liquid kit, nozzles & pump kit factory installed	\$	1,342.00
4.33	Installation of Pre-wet kit	\$	775.00
4.34	Manual Spray nozzle, 40' hose	\$	674.00
4.35	Liquid Spray bar 6'5", working width 6'7"-16'	\$	1,491.00
4.36	Installation of spray bar	\$	325.00
4.37	Liquid bladder tank 800 (+ 145 gal)	\$	818.00
4.38	Installation of bladder tank 800	\$	225.00
4.39	Liquid bladder tank 1150 & 1450 (+ 190gal)	\$	897.00
4.40	Installation of bladder tank 1150 & 1450	\$	225.00

**HILLTIP BRINEMIXX**

This external brine blender makes salt brine-mixtures for the Hilltip 800- 3400 spreader liquid system. Durable polyethylene blending tank and lid. The pump transfers liquid at a speed of 103 gpm.

4.41	Brinemixx™ 135 gal	\$	2,386.00
4.42	Brinemixx™ 370 gal	\$	3,464.00
4.43	Brinemixx™ 800 gal	\$	5,934.00

**HILLTIP HTRACK**

The Hilltip HTrack™ system is compatible with all HillTip snow plows, spreaders and de-icing sprayers. The HillTip HTrack™ collects the exact spreading rate on site from the spreader in oz/sq. ft., spreading width, spreading speed, total amount of material spread on route and empty driving information to calculate the efficiency of the route. Together with the spreader device you can also track when snow plow has been on the ground.

**TRACKING SYSTEM, HTRACK™ Licenses**

4.44	HTrack ONLINE logging data license 1-9 Vehicles	\$	850.00
4.45	Tracking for spreader, controller adapter (1pce / vehicle)	\$	279.00

**SANDERS/SPREADERS**  
**BASE UNIT REQUIREMENTS**  
**SPECIFICATION NO. 4.0**

FILE NO. T763-02192020

Vendor Name:	<b>TWIN STAR EQUIPMENT &amp; MFG</b>
Contact Person:	<b>ERIC FENSKE, ADELE HARRIS, STEVE BERGERON</b>
Street Address:	<b>1950 202ND STREET E</b>
P.O. Box:	
City, State, Zip:	<b>CLEARWATER, MN 55320</b>
Phone #:	<b>OFF: 320-558-2800, ERIC CELL: 612-269-3093, ADELE CELL: 651-368-6055, STEVE CELL: 701-929-0531</b>
Toll Free #:	
Fax #:	<b>320-558-2809</b>
Email Address:	<b><a href="mailto:PARTS@TWINSTARTRUCK.COM">PARTS@TWINSTARTRUCK.COM</a>, <a href="mailto:ADELE@TWINSTARTRUCK.COM">ADELE@TWINSTARTRUCK.COM</a>, <a href="mailto:STEVE@TWINSTARTRUCK.COM">STEVE@TWINSTARTRUCK.COM</a></b>
Website:	<b><a href="http://twinstartruck.com">twinstartruck.com</a></b>
	<i>Version of Excel used:</i> <b>2016</b>

**4.0**

**SANDERS**

Manufacturer	<b>HILLTIP</b>
Make	<b>ICESTRIKER TR-SERIES</b>
Warranty Length (In days, months, or years)	<b>2 YEARS</b>
4.1 Date & I.D. of Price List	<b>HILLTIP 3-20</b>
4.2 Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
4.3 Cost to assemble sander	<b>INCLUDED</b>
4.4 Installation of Sander	<b>\$1,050.00</b>
4.5 Price of ICC bumper under ride protection	<b>N/A</b>
4.6 Installation of ICC bumper under ride protection	<b>N/A</b>
4.7 Per Hour Shop Rate	<b>\$2.50</b>
4.8 Price per loaded mile for delivery Delivery Starting Point Address	<b>\$99.00</b> <b>CLEARWATER, MN 55320</b>

**DESCRIPTION**

HillTip IceStriker PLUS is a 12V Electric Poly Hopper combi Spreader for tractors. This spreader is unique as it has a built-in tank for the optional pre-wetting system (0.8 cu. yd dry material & 90 gallon liquid, model 600), and it requires no extra tanks. Additionally it has GPS speed control and HTrack™ tracking capability as standard features. The IceStriker has the most efficient and economic control system on the market. The spreader comes with a color control screen with multi programmable parameters and can transfer online tracking data when used with the optional HillTip HTrack™ system. The spreader comes in grey color as standard. MADE IN FINLAND

**MODELS**

4.9	800TR HillTip IceStriker 3-point ( 0.8 cu.yd.)	\$	7,818.00
4.10	1100TR HillTip IceStriker 3-point ( 1.1 cu.yd.)	\$	8,872.00

**ACCESSORIES**

4.11	Rear lights & License plate kit	\$	224.00
4.12	Installation of rear lights & license plate kit	\$	75.00
4.13	Beacon light	\$	95.00
4.14	Installation of beacon light	\$	25.00
4.15	WHITE-LED Work light	\$	85.00
4.16	Installaton of work light	\$	25.00
4.17	OBD- Connection, direct Vehicle Speed	\$	213.00
4.18	Installation of OBD	\$	69.00
4.19	End of material alarm sensor on chute	\$	435.00
4.20	Installation of material alarm	\$	129.00

**OPTIONAL LIQUID ACCESSORIES (FACTORY INSTALL)**

By adding pre-wet kit to your Icestriker spreader you can automatically save up to 30% of the yearly salt usage. The other de-icing method you get by adding liquid spraybar, using salt liquid only you can save 50-75% of your salt usage compared to traditional salt granulates in certain weather conditions.

4.21	Pre-wet Salt liquid kit, nozzles & pump kit factory installed	\$	1,342.00
4.22	Installation of pre-wet kit	\$	775.00
4.23	Manual Spray nozzle, 40' hose	\$	674.00
4.24	Liquid Spray bar 6'5", working width 6'7"-16'	\$	1,528.00
4.25	Installation of spray bar	\$	325.00
4.26	Liquid bladder tank (+ 150 gallons)	\$	818.00
4.27	Installation of bladder tank	\$	225.00
4.28	Smartphone controller holder	\$	91.00
4.29	Window / flat surface mount adapter	\$	49.00
4.30	Controller arm extension kit 95mm	\$	65.00
4.31	Floor mount for Controller L=540mm	\$	88.00
4.32	Joystick adapter cable with 90 degree elbow Heavy duty connector kit 500-1450 Spreaders, Factory Installed on Spreader	\$	65.00
4.33	Installed on Spreader	\$	826.00
4.34	Cam-lock adapter, 800-1150 spreaders	\$	244.00

**HILLTIP HTRACK**

The Hilltip HTrack™ system is compatible with all HillTip snow plows, spreaders and de-icing sprayers. The HillTip HTrack™ collects the exact spreading rate on site from the spreader in oz/sq. ft., spreading width, spreading speed, total amount of material spread on route and empty driving information to calculate the efficiency of the route. Together with the spreader device you can also track when snow plow has been on the ground.

**TRACKING SYSTEM, HTRACK™ Licenses**

4.35	HTrack ONLINE logging data license 1-9 Vehicles	\$	850.00
4.36	Tracking for spreader, controller adapter (1pce / vehicle)	\$	279.00

**SANDERS/SPREADERS**  
**BASE UNIT REQUIREMENTS**  
**SPECIFICATION NO. 4.0**

FILE NO. T763-02192020

Vendor Name:	<b>TWIN STAR EQUIPMENT &amp; MFG</b>
Contact Person:	<b>ERIC FENSKE, ADELE HARRIS, STEVE BERGERON</b>
Street Address:	<b>1950 202ND STREET E</b>
P.O. Box:	
City, State, Zip:	<b>CLEARWATER, MN 55320</b>
Phone #:	<b>OFF: 320-558-2800, ERIC CELL: 612-269-3093, ADELE CELL: 651-368-6055, STEVE CELL: 701-929-0531</b>
Toll Free #:	
Fax #:	<b>320-558-2809</b>
Email Address:	<b><a href="mailto:PARTS@TWINSTARTRUCK.COM">PARTS@TWINSTARTRUCK.COM</a>, <a href="mailto:ADELE@TWINSTARTRUCK.COM">ADELE@TWINSTARTRUCK.COM</a>, <a href="mailto:STEVE@TWINSTARTRUCK.COM">STEVE@TWINSTARTRUCK.COM</a></b>
Website:	<b><a href="http://twinstartruck.com">twinstartruck.com</a></b>

Version of Excel used: **2016**

**4.0**

**SANDERS**

Manufacturer	<b>HILLTIP</b>
Make	<b>ICESTRIKER 2000-3400</b>
Warranty Length (In days, months, or years)	<b>2 YEARS</b>
4.1 Date & I.D. of Price List	<b>HILLTIP 3-20</b>
4.2 Discount to be applied to Price List (see note below) <b>*Note:</b> The "Discount to be Applied to Price List" must be a numeric percentage, which may include 0%. Not listing a numeric percentage may result in your bid being rejected.	<b>0%</b>
4.3 Cost to assemble sander	<b>INCLUDED</b>
4.4 Installation of Sander	<b>\$1,250.00</b>
4.5 Price of ICC bumper under ride protection	<b>N/A</b>
4.6 Installation of ICC bumper under ride protection	<b>N/A</b>
4.7 Per Hour Shop Rate	<b>\$99.00</b>
4.8 Price per loaded mile for delivery	<b>\$2.50</b>
Delivery Starting Point Address	<b>CLEARWATER, MN 55320</b>

**DESCRIPTION**

HillTip IceStriker™ 2100-3400 Combi is a Electric dual wall poly hopper Spreader. This spreader is unique as it has a built-in tank for the optional pre-wetting system (2.1 Cu. yd. dry material & 240 gallon liquid, model 2000), and it requires no extra tanks. Additionally it comes with GPS speed control and HTrack™ tracking capability as standard features. The IceStriker™ has the most efficient and economic control system on the market. You have the choice of Auger or Belt drive, and 12V or 24V. The spreader comes with a color control screen with multi programmable parameters and can transfer online tracking data when used with the optional Hilltip HTrack™ system. The spreader comes in grey color as standard. MADE IN FINLAND

**MODELS**

4.9	2100A HillTip IceStriker Spreader -Grey, 2.1 cu. yd.	\$	11,589.00
4.10	2800A HillTip IceStriker Spreader -Grey, 2.8 cu. yd.	\$	12,804.00
4.11	3400A HillTip IceStriker Spreader -Grey, 3.4 cu. yd.	\$	13,444.00
4.12	2100B HillTip IceStriker Spreader -Grey, 2.1 cu. yd.	\$	11,588.00
4.13	2800B HillTip IceStriker Spreader -Grey, 2.8 cu. yd.	\$	14,298.00
4.14	3400B HillTip IceStriker Spreader -Grey, 3.4 cu. yd.	\$	14,938.00

**ACCESSORIES**

4.15	LED Rear & indication lights & license plate kit	\$	215.00
4.16	Installation of LED Lights	\$	39.00
4.17	Beacon-Strobe lights ( 2 pc)	\$	95.00
4.18	Installation of strobe lights	\$	39.00
4.19	WHITE-LED Work light	\$	85.00
4.20	Installation of work light	\$	25.00
4.21	OBD- Connection, direct Vehicle Speed	\$	213.00
4.22	Installation of OBD	\$	69.00
4.23	End of material alarm sensor installed on chute	\$	435.00
4.24	Installation of material alarm	\$	129.00
4.25	Smartphone controller holder	\$	91.00
4.26	Window / flat surface controller mount adapter	\$	49.00
4.27	Controller arm extension kit 95mm	\$	65.00
4.28	Floor mount for Controller L= 540mm	\$	88.00
4.29	Joystick adapter cable with 90° elbow	\$	65.00
4.30	Gas Spring mount tool 2000-3400 spreaders	\$	319.00

**OPTIONAL LIQUID ACCESSORIES**

By adding pre-wet kit to your IceStriker spreader you can automatically save up to 30% of the yearly salt usage. The other de-icing method you get by adding liquid spraybar, using salt liquid only you can save 50-75% of your salt usage compared to traditional salt granulates in certain weather conditions.

4.31	Pre-wet Salt liquid kit pump kit factory installed, CAM- LOCK 2"fitting, empty tank, auto shut off.	\$	2,174.00
4.32	Installation of liquid kit	\$	775.00
4.33	Liquid bladder flexi tank, additional 370 gal	\$	2,064.00
4.34	Installation of bladder tank	\$	225.00
4.35	Manual Spray nozzle, 40' hose	\$	674.00
4.36	Liquid dual Spray bar, working width 6'7"-16'. Twin pump system.	\$	2,103.00
4.37	Installation of spray bar	\$	325.00

**HILL TIP HTRACK**

The Hilltip HTrack™ system is compatible with all HillTip snow plows, spreaders and de-icing sprayers. The HillTip HTrack™ collects the exact spreading rate on site from the spreader in oz/sq. ft., spreading width, spreading speed, total amount of material spread on route and empty driving information to calculate the efficiency of the route. Together with the spreader device you can also track when snow plow has been on the ground.

**TRACKING SYSTEM, HTRACK™ Licenses**

4.38	HTrack ONLINE logging data license 1-9 Vehicles	\$	850.00
4.39	Tracking for spreader, controller adapter (1pce / vehicle)	\$	279.00