SBD-01

Parma Sugarbeet Defoliator - Triple Drum

Effective:
October 1, 2021

100 Series

Standard Equipment

- Steel Cup Flails on Front Drums (Full Coverage on #1 Rotor)
- Rubber Flails on 2nd and 3rd Drums
- Optional Replaceable Rotor Shafts
- Heavy Duty Gearbox and Drives
- All Banded V-Belt Drives
- **Tractor Requirements**: *90 HP Min. w/4 Remotes*
- Easy Height Adjustment
- 15" or 24" Rear Wheels (Steerable or Non-Steer)
- Drawbar Adjustment, 3-1/2x10 cylinder
- Convenient Parking Stands
- Removable Large Vinyl Top Cover
- Caution Light Kit
- HMW Defoliator Liner Shield Over Steel

Order Number	Description	List Price
	Base Unit	
1282520	Model 132 (4-30) Defoliator with "Cup" Flails & Solid Rotor Shafts	$37,760.00
1282348	Model 132 (6-22) Defoliator with "Cup" Flails & Solid Rotor Shafts	$38,588.00
1282349	Model 132 (6-22) Defoliator with "Cup" Flails & Replaceable Rotor Shafts	$42,338.00
1282260	Model 144 (6-24) Defoliator with "Cup" Flails & Solid Rotor Shafts	$40,046.00
1282259	Model 144 (6-24) Defoliator with "Cup" Flails & Replaceable Rotor Shafts	$43,189.00
1282227	Model 180 (8-22) Defoliator with "Cup" Flails & Solid Rotor Shafts	$49,880.00
1282240	Model 180 (8-22) Defoliator with "Cup" Flails & Replaceable Rotor Shafts	$54,622.00
1282256	Model 180 (6-30) Defoliator with "Cup" Flails & Solid Rotor Shafts	$48,683.00
1282255	Model 180 (6-30) Defoliator with "Cup" Flails & Replaceable Rotor Shafts	$54,862.00
1282534	Model 194 (8-24) Defoliator with "Cup" Flails & Solid Rotor Shafts	$55,426.00

Completing Packages - Order one item from each section for a complete defoliator

	Rear Wheel Strut Assemblies: (Steerable are Return to Straight)	
1282187	24"Non-Steerable, 22"-30" Rows ** (Height Adjustable, Two Struts)	$6,060.00
1282099	24" Steerable, 22-30" Rows Rtn to Str** (Height Adjustable, Two Struts)	$10,723.00
1282524	24" Steerable 4-30" Rows Rtn to Str (Height Adjustable, Two Struts)	$10,723.00
1282099	24" Steerable 8-24" Rows Rtn to Str (Height Adjustable, Two Struts)	$10,723.00

** Offset Struts Not Available for 24" Rear Wheels

Parma Sugarbeet Defoliator - Triple Drum

Effective:
October 1, 2021

100 Series

	PTO Driveline Assembly	
1990809	Standard PTO w/ 1-3/8 21-Spline Yoke	$995.00
1991060	Standard PTO w/ 1-3/4 20-Spline Yoke	$995.00
1281372	CV PTO w/ 1-3/8 21-Spline Yoke	$1,695.00
1991061	CV PTO w/ 1-3/4 20-Spline Yoke	$1,695.00
	Optional Equipment	
Scalper Options - Must Order Tool Bar Assembly and Head Assembly Group		
1282532	Scalper Tool Bar Assembly, Model 132 4-30" (Used with 24" Wheels)	$1,973.00
1282352	Scalper Tool Bar Assembly, Model 132 (Used with 24" Rear Wheels)	$1,973.00
1282269	Scalper Tool Bar Assembly, Model 144 (Used with 24" Rear Wheels)	$1,986.00
1282271	Scalper Tool Bar Assembly, Model 180 (Used with 24" Rear Wheels)	$2,362.00
1282559	Scalper Tool Bar Assemby, Model 194 8-24" (Used with 24" Wheels)	$2,558.00
1282273	Head Assembly Group, Ground Driven Scalper (8-Row)	$6,644.00
1282274	Head Assembly Group, Ground Driven Scalper (6-Row) Introduced Sept. 2003	$4,982.00
1282277	Head Assembly Group, Hydraulic Scalper (8-row)	$12,916.00
1282278	Head Assembly Group, Hydraulic Scalper (6-Row)	$9,686.00
1282275	Knife Scalper Assembly Group (8-Row)	$5,209.00
1282276	Knife Scalper Assembly Group (6-Row)	$3,911.00
Other Options		
1281885	Rubber Flail Addition Kit for #2 & #3 Rotors (per Row/Rotor Add-on)	$102.00
1281999	Hitch Extension Kit (RRV To Position Tongue Higher or Lower)	$246.00
1282210	SMV Emblem Assembly	$41.00

See Assembly Package Sheet SBD-06 for factory assembling options

SBD-03

Parma Sugarbeet Defoliator - Triple Drum

200 Series

Effective:
October 1, 2021

Standard Equipment

- Steel Cup Flails on Front Drums
- Rubber Flails on 2nd and 3rd Drums
- Heavy Duty Gearbox and Drives
- All Banded V-Belt Drives
- Steerable or Non-Steerable Wheel Struts
- **Tractor Requirements:** *200HP Min. & 4 Remotes*
- Easy Height Adjustment
- Drawbar Adjustment - 3 1/2 x 10 cylinder
- Convenient Parking Jack Stand
- Removable Large Vinyl Top Cover
- Caution Light Kit
- HMW Defoliator Liner Shield Over Steel

Order Number	Description	Wt 13200	List Price
	Base Unit		
	Model 240 (8-30) Defoliator with "Cup" Flails & Solid Rotor Shafts		$56,026.00
1282188	Model 264 (12-22) Defoliator with "Cup" Flails & Solid Rotor Shafts		$58,618.00
1282172	Model 264 (12-22) Defoliator with "Cup" Flails & Replaceable Rotor Shafts		$64,603.00
1282609	Model 264 (12-22) Defoliator Over Row "Cup" Flails & Solid Rotor Shafts		$56,434.00
1282625	Model 288 (12-24) Defoliator with "Cup" Flails & Solid Rotor Shafts		$63,855.00
Completing Packages - Order one item from each section for a complete defoliator			
	Rear Wheel Strut Assemblies (Steerable are Return to Straight)		
1282187	24" Non-Steerable, 22" Rows (Height Adjustable, Two Struts)		$6,060.00
1282484	24" Non-Steerable, 44" Wide Bottom (22" Rows) (Height Adjustable, Two Struts)		$6,751.00
1282099	24" Steerable, 22" Rows (Height Adjustable, Two Struts)		$10,723.00
	24" Steerable 8-30" (Height Adjustable, Two Struts)		$11,072.00
	PTO Driveline Assembly		
1282946	Standard PTO w/ 1-3/4 20-Spline Yoke		$1,102.00
1282344	Standard PTO w/ 1-3/8 21-Spline Yoke		$1,102.00
1282510	CV PTO w/ 1-3/4 20-Spline Yoke		$2,165.00
1282511	CV PTO w/ 1-3/8 21-Spline Yoke		$2,165.00
Order the Following Longer Drivelines when ordering the Heavy Duty Swing type Tongue.			
1991096	Standard PTO w/ 1-3/4 20-Spline Yoke		$1,102.00
1268451	CV PTO w/ 1-3/4 20-Spline Yoke		$2,165.00
	Optional Equipment		
Scalper Options - Must Order Tool Bar Assembly and Head Assembly Group			
	Scalper Tool Bar Assembly For 24" Rear Wheels (8 Row 30")		$3,571.00
1282176	Scalper Tool Bar Assembly For 24" Rear Wheels (12 Row 22")		$3,717.00
	Scalper Tool Bar Assembly For 24" Wheels (12 Row 24")		$3,892.00
1282273	Head Assembly Group, Ground Driven Scalper 8 Row		$6,644.00
1282175	Head Assembly Group, Ground Driven Scalper 12 Row		$9,966.00
1282136	Head Assembly Group, Hydraulic Scalper 12 Row		$18,878.00
1282181	Knife Scalper Assembly Group 12 Row		$7,778.00

See next page for other options.

SBD-04

Effective:
October 1, 2021

Parma Sugarbeet Defoliator - Triple Drum

200 Series

Other Options

1282479	Heavy Duty Swing Tongue (tongue cyl. not incl'd) **Add-on**	$3,734.00
1267149	Tongue Cylinder Kit - Includes 3 1/2 x 8 Cyl., Hoses & Tips	$562.00
1281864	Front Stabilizer Wheels - Adjustable with Screw Jack (Must be used in conjunction with front lift cylinder)	$2,144.00
1281709	Front Stabilizer Wheels w/ Hydraulic Cylinder (Must be used in conjunction with Scalper Hydraulic Lift.)	$2,741.00
1282485	Extra Rubber Flail Kit #2 Rotor (2nd Drum same as 3rd) (per Row/Rotor Add-on)	$49.00
1281999	Hitch Extension Kit (RRV to Position Tongue Higher or Lower)	$246.00
1282210	SMV Emblem Assembly	$41.00
282514	Center Strut, 24" non STR on 44" spacing (Includes wheels, tires, hubs and spindles)	$4,486.00

See Assembly Package Sheet SBD-06 for factory assembling options

SBD-05

Parma Folding Defoliator
All Hydraulic Drive

Effective:
October 1, 2021

280 F Series Triple Drum

Standard Equipment

- Hydraulic Pump w/Driveline
- Hydraulic Reservoir & Cooler
  -Hydraulic Oil 180 Gal.
- Hydraulic Drive each Drum
- Steel Cup Flails Front Drum
- Rubber Flails 2nd & 3rd Drum
- Removeable Vinyl Cover
- Caution Lights & SMV Emblem
- Parking Stands
- Cat. IV Swivel Hitch w/Spacers
- 4-Steerable Lift Struts Center & Wings
- Front Stabilizer Wheels
- Ground Driven Disc Scalpers
- Dual Tongue Lift 3 1/2" x 12" Cylinder
- Hydraulic Hoses w/Tips to Tractor
- Valve Bank w/in-Cab Switch Box
  -Steerable Tongue
  -Rear Height Adjustment
  -Wing Fold
- PTO Driveline 1 3/4-20 CV x 2 1/4 Imp (282742)

Order Number	Description	Wt 23700	List Price
1282964	Model 280F 12-22 Folding Defoliator Complete		$167,800.00
268795	Draw Bar Shim Kit Cat IV 2 1/8" Bore (4 Pcs) Included in Base		$124.00

Transport Width 13' 6"
Height 14' 4" Raised Folded
Weight 23680#
Recommended HP 300
150 GPM to Drive Flails

SBD-06

Parma Sugarbeet Defoliator

Effective:
October 1, 2021

Assembly Packages - All Defoliators

These prices are the charges for assembly by Parma Company of options and attachments.
The dealer service department is responsible for pre-delivery and field adjustments.

Order Number	Description	List Price
Scalper Assembly		
1281643	Mounted on Defoliator (Knife Scalper and Unpowered Disk) - per Row	$93.00
1281644	Mounted on Defoliator (Hydraulic Scalper) - per Row	$182.00
Hydraulic Hose Packages		
- Includes One 1/2 " Hose from Implement to Tractor with Ends, and one 8010-4 Pioneer Coupler.		
1281652	8' Hydraulic Hose Package	$104.00
1281653	10' Hydraulic Hose Package (8=$904)	$113.00
1281654	12' Hydraulic Hose Assembly	$128.00

- Order 4 each when ordering a standard defoliator
- Order 8 each when ordering a defoliator with a 2-way Return to Straight option

Shipping Dimensions

Front to Rear w/Tongue and Scalper Removed 15' 2"
w/Tongue Removed and Scalper Mounted 19' 3"

Front to Rear w/Tongue & Struts Removed (Frame Only) 11' 10"
Overall Length w/Tongue Removed Scalper Mounted 23' 3"

Side to Side

Model 132	13' 2"	7100#
Model 144	14' 2"	8360#
Model 180	17' 2"	9100#
Model 264	24'	13200#

Weight of the Model 264 with 24" Steerable Struts and Ground Driven Scalpers = 13,200 lbs.

SBD-07

Flail Cluster Information

Effective
October 1, 2021

132 Model Defoliator

Order No.	Description	Quantity
281789	**Front Steel Cup Rotor Asm (Full Coverage)**	
282199	7-1/2 Steel Cup Flails - 5/16"	67
281785	Bushing, Hardened - 10-3/4"	34
281788	Long Pipe Spacer - 3-5/16"	57
281977	Short Pipe Spacer - 1-11/16"	22
281786	5/8x13 Hex Bolt w/Locknut	34
281722	8" Half Clamp	24
281966	Rotor Weldment	1
281581	**Center Rubber Cluster**	
280520	Rubber Flail	12
990588	2: Spacer	12
281558	Flail Pin	4
281477	6" Half Clamp	4
281885	**(Optional) Flail Addition Kit Center Rubber**	
281520	Rubber Flail	8
281560	Extended Flail Pin	2
282641	**Rear Rubber Cluster**	
281520	Rubber Flail	22
281558	Flail Pin	4
281477	6" Half Clamp	4
281574	1" Spacer	4
281885	**(Optional) Flail Addition Kit Rear Rubber**	
281520	Flail Pin	8
281560	Extended Flail Pin	2
281963	**Front L Knife Rotor Asm (Full Coverage)**	
281569	L-Knife Flail	72
	5/8x3-1/2 Gr8 Hex Bolt w/Locknut	36
281965	Rotor Weldment	1
281581	**Center Rubber Cluster (Same As Above)**	
281885	**(Optional) Flail Addition Kit Center Rubber (Same As Above)**	
282641	**Rear Rubber Cluster (Same As Above)**	
281885	**(Optional) Flail Addition Kit Rear Rubber (Same As Above)**	

SBD-08

Flail Cluster Information

Effective:
October 1, 2021

144 Model Defoliator

Order No.	Description	Quantity
	Front Steel Cup Rotor Asm (Full Coverage)	
282199	7-1/2 Steel Cup Flails - 5/16"	96
281785	Bushing, Hardened - 10-3/4"	24
282083	Pipe Spacer - 5/8"	96
281786	5/8x13 Hex Bolt w/Locknut	24
281722	8" Half Clamp	26
	One Piece Front Rotor Drum	
	Front L Knife Rotor Asm (Full Coverage)	
281569	L-Knife Flail	84
	5/8x3-1/2 Gr8 Hex Bolt w/Locknut	42
281965	One Piece Front Rotor Drum	

180 Model Defoliator

Order No.	Description	Quantity
	Front Steel Cup Rotor Asm (Full Coverage)	
282199	7-1/2 Steel Cup Flails - 5/16"	120
281785	Bushing, Hardened - 10-3/4"	28
282084	Bushing, Hardened - 5-3/8"	4
281786	5/8x13 Hex Bolt w/Locknut	28
282085	5/8x7-1/2 Hex Bolt w/Locknut	4
282086	8/5x12-1/4 Hex Bolt w/Locknut	4
281722	8" Half Clamp	36
	Split Front Rotor Drums	
281581	**Center Rubber Cluster**	
280520	Rubber Flail	12
990588	2: Spacer	12
281558	Flail Pin	4
281477	6" Half Clamp	4
281885	**(Optional) Flail Addition Kit Center Rubber**	
281520	Flail Pin	8
281560	Extended Flail Pin	2
282641	**Rear Rubber Cluster**	
281520	Rubber Flail	22
281558	Flail Pin	4
281477	6" Half Clamp	4
281574	1" Spacer	4
281885	**(Optional) Flail Addition Kit Rear Rubber** (Same as Center Above)	
	Front L Knife Rotor Asm (Full Coverage)	
281569	L-Knife Flail	96
	5/8x3-1/2 Gr8 Hex Bolt w/Locknut	48
	(See Optional Center and Rear Kits Above)	

SBD-09

Flail Cluster Information

Effective:
October 1, 2021

264 Model Defoliator

Order No.	Description	Quantity
Front Steel Cup Rotor Asm (Full Coverage)		
282199	7-1/2 Steel Cup Flails - 5/16"	184
281785	Bushing, Hardened - 10-3/4"	44
282084	Bushing, Hardened - 5-3/8"	4
282083	Pipe Spacer - 5/8"	184
281786	5/8x13 Hex Bolt w/Locknut	44
282085	5/8x7-1/2 Hex Bolt w/Locknut	4
282086	5/8x12-1/4 Hex Bolt w/Locknut	4
281722	8" Half Clamp	52
281860	Rotor Weldment, RH	1
281859	Rotor Weldment, LH	1
281581	**Center Rubber Cluster**	
280520	Rubber Flail	12
990588	2: Spacer	12
281558	Flail Pin	4
281477	6" Half Clamp	4
281885	**(Opt.) Flail Addition Kit Center Rubber**	
281520	Flail Pin	8
281560	Extended Flail Pin	2
282641	**Rear Rubber Cluster**	
281520	Rubber Flail	22
281558	Flail Pin	4
281477	6" Half Clamp	4
281574	1" Spacer	4
281885	**(Opt.) Flail Addition Kit Rear Rubber**	
281520	Flail Pin	8
281560	Extended Flail Pin	2
Front L Knife Rotor Asm (Full Coverage)		
281569	L-Knife Flail	96
	5/8x3-1/2 Gr8 Hex Bolt w/Locknut	48
	(See Optional Center and Rear Kits Above)	

SBD-10

Effective:
October 1, 2021

144" Defoliator w/24" Tires & G.D. Scalpers

Weight	8360#
Overall width at guards:	14'2"
Frame depth front to rear:	11'7"
Frame depth to rear of 24" tires:	15'2"
Frame depth to rear of G.D. Scalpers up:	16'8"
Tongue:	4'4"

264" Defoliator w/24" Tires & G.D. Scalpers

Weight	13200#
Overall width at guards:	24'6"
Frame depth front to rear:	11'7"
Frame depth to rear of 24" tires:	15'2"
Frame depth to rear of G.D. Scalpers up:	16'8"

SBH-01

Parma Sugarbeet Harvester

2900 Series - Rear Elevator w/4-Ton Hopper

Effective:
October 1, 2021

Standard Equipment

- Rubber Backing on Paddles
- LED Working & Caution Lights
- Large Grabroll Bed w/1-15/16" Welded Stub Shafts (6 Rolls in 2960 Series) (8 Rolls in 2980 Series)
- Holding Tank, 55" Wide w/ 48" Chain, Appx. 4 Ton
- Electric Control Box for Tractor Cab
- Combination Mechanical / Tractor Hydraulic Drive
- **Note: Required Tractor Hyd System - 30 GPM at remote and 3000PSI capability**
- Four-Groove Belt Drive on Model 2960 Series
- Six-Groove Belt drive on Model 2980 Series
- Fold Down Discharge Elevator with Dual Cylinders
- 43 1/2" "High Capacity" Wide Rear Elevator
- RC80 Chain Drives Throughout
- Two Hydraulic Lift Cylinders
- 56 mm Belted Chain in Rear Elevator and in Tank
- Wear Slats in Hopper
- Heavy Duty Tongue Swivel Hitch
- Hose Kit for Tractor Hookup
- Rear Elevator Installed and Test Run

Order Number	Description	List Price
	Base Unit - Specify Row Spacing on Order	
	Model 29643 Harvester - 4 Row 30" - 6 Grabroll (Rock)	$113,922.00
1268652	Model 29643 Harvester - 4 Row 30" - 6 Grabroll (Non Rock)	$109,530.00
	Model 29843 Harvester - 4 Row 30" - 8 Grabroll (Non Rock)	$110,119.00
1267805	Model 2966 Harvester - 6 Row 19" - 20" Narrow Row Strut (Non-Rock)	$117,933.00
1267806	Model 2966 Harvester - 6 Row 19" - 20" Narrow Row Cushion Strut (Rock)	$123,505.00
1267807	Model 2966 Harvester - 6 Row 21" - 24" Wide Row Strut (Non-Rock)	$118,029.00
1267808	Model 2966 Harvester - 6 Row 21" - 24" Wide Row Cushion Strut (Rock)	$123,505.00
	Model 29862 Harvester - 6 Row 22" 8 Grabroll Rock	$131,582.00
	Model 29864 Harvest - 6 Row 24" Wide Row Cushion Strut (Rock)	$127,778.00
1267809	Model 2986 Harvester - 6 Row 28" - 30" Wide Row Strut (Non-Rock)	$129,065.00
1267810	Model 2986 Harvester - 6 Row 28" - 30" Wide Row Cushion Strut (Rock)	$134,047.00
1267811	Model 2988 Harvester - 8 Row 19" - 20" Narrow Row Strut (Non-Rock)	$136,639.00
1267812	Model 2988 Harvester - 8 Row 19" - 20" Narrow Row Cushion Strut (Rock)	$143,878.00
1267813	Model 2988 Harvester - 8 Row 21" - 22" Wide Row Strut (Non-Rock)	$136,639.00
1267814	Model 2988 Harvester - 8 Row 21" - 22" Wide Row Cushion Strut (Rock)	$143,878.00
1268497	Model 29884 Harvester - 8 Row 24" - 8 Grabroll (Rock)	$151,981.00
1268701	Model 29683 Harvester - 8 Row 30" - 6 Grabroll (Rock) 24480# w/Top Mount Scrapers	$167,838.00
	Completing Packages - Order one item from each section for a complete harvester	
	Rear Wheel Strut Assemblies	
1267825	Steerable, One Way, 19" to 30" Rows, 11.2 x 24 Lug Tires	$11,451.00
1267826	Steerable, Two Way-Rtn to Straight, 19" to 30" Rows, 11.2 x 24 Lug Tires	$12,188.00
1268476	Steerable, Two Way-Rtn to Straight, 24" HD Wheels, 22" Rows - 2900	$13,948.00
1268693	Steerable, Two Way-Rtn to Straight, 24" HD Wheels, 30" Rows - 2900	$15,481.00
1268423	Steerable, Two Way-Rtn to Straight, Floater 21.5 x 16.1 Tires	$15,511.00
1268327	Non-Steerable, 19" to 30" Rows, 11.2 x 24 Lug Tires	$6,071.00

SBH-02

Parma Sugarbeet Harvester

Effective:
October 1, 2021

2900 Series - Rear Elevator

	PTO Driveline Assembly	
991097	Standard PTO w/ 1 3/8 - 21 Spline Yoke	$1,080.00
1991096	Standard PTO w/ 1 3/4 - 20 Spline Yoke	$1,102.00
1268450	CV PTO w/ 1 3/8 - 21 Spline Yoke	$2,125.00
1268451	CV PTO w/ 1 3/4 - 20 Spline Yoke	$2,165.00
	Optional Equipment	
Self Contained Hydraulic Kit		
1267828	Self Contained Hydraulic Kit (2960 Series) - Instead of Standard	$7,120.00
1267828	Self Contained Hydraulic Kit (2980 Series) - Instead of Standard	$7,120.00
Control Valves - Order as needed to match hydraulic needs.		
1265725	2-Bank Electric Solenoid Control Valve	$4,696.00
1265726	3-Bank Electric Solenoid Control Valve	$6,182.00
1265727	4-Bank Electric Solenoid Control Valve	$8,097.00
269029	4-Bank Valve Closed Center - Non Convertible, Non Stackable.	$4,696.00
Added Options - Order as Needed		
1268278	Rowfinder, Breakaway - Includes Cyl, Hoses, and Fittings (Includes Installation)	$3,172.00
1267149	Tongue Cylinder Kit - Includes Cylinder and Hoses (Not needed with Rowfinder)	$562.00
1266567	Lifter Wheel Spacer Kit - Order 1 Kit per Row 6 = $336 8 = $448	$56.00
266348	Spacer 1/4" For Scraper (Bottom Mount) 6 = $37.80 8 = $50.40	$6.30
1267831	Mud Flap Kit for Grabrolls (Model 2960 Series)	$952.00
1267832	Mud Flap Kit for Grabrolls (Model 2986)	$987.00
1267753	Mud Flap Kit for Grabrolls (Model 2988)	$1,039.00
1266473	Ladder and Platform (Model 2960 Series)	$1,768.00
1266516	Ladder and Platform (Model 2980 Series)	$1,776.00
268371	Boom Extension 24" 48" Wide (Standard on 8-Row)	$914.00
1282210	SMV Sign Assembly	$41.00
268351	Front Jack Stand, Pair - Order One Per Harvester	$752.00
266986	Wide Row Lifter Wheel Scrapers Top Mount 6 = $2208 8 = $2944 [Per Row]	$387.00
267221	Wide Row Lifter Wheel Scrapers-Bottom Mount (Inc'd in Base Price) Per Row	$131.00
	See Installation Package Sheet #SBH-06 for assembling options	

Fafnir Bearing Upgrade: (Less Grabroll Bearings)

1268861	Fafnir Bearing Upgrade (Model 2960)	$5,330.00
1268862	Fafnir Bearing Upgrade (Model 2980)	$6,886.00

Rowfinder

Strut Mounted:

998408	Rowfinder w/Cylinder, Hoses & Mounting Bracket	$2,888.00
998200	Rowfinder w/Mounting Bracket	$2,694.00

Breakaway Mounted:

266464	Rowfinder w/Cylinder, Hoses & Mounting Bracket	$3,106.00
266412	Rowfinder w/Mounting Bracket	$2,576.00
267977	Breakaway Mount	$334.00

SBH-03

Parma Sugarbeet Harvester

Effective:
October 1, 2021

2200 Series - Wheel Lift

Standard Equipment

- Large Grabroll Bed with 8 Rolls - 1 15/16" Shafts
- Hydraulically Powered Wheel Beet Lift System
- Holding Tank, 55" Wide w/ 48" Chain Appx 4 Ton
- Rubber Backing on Paddles
- Electric Control Box for Tractor Cab
- Self Contained Hydraulic System
- Five-Groove Belt Drive on Model 2260 Series
- Tractor Hydraulics for Tank Unloading
- **Note: Required Tractor Hyd System - *30 GPM at remote and 3000PSI capability***
- Six-Groove Belt Drive on Model 2280 Series
- Fold Down Discharge Elevator with Dual Cylinders
- RC80 Paddle & Hopper Drive Chains
- Two Hydraulic Lift Cylinders
- Heavy Duty Tongue Swivel Hitch
- 56 mm Belted Chain
- Steerable Rear Floatation Struts
- Hose Kit for Tractor Hookup
- LED Working & Caution Lights
- Wear Slats in Hopper
- Ladder & Platform

Order Number	Description	List Price
	Base Unit - Specify Row Spacing on Order	
1267815	Model 2266 Wheel Lift Harvester - 6 row 19" - 20" Narrow Row Strut (Non-Rock)	$137,892.00
1267816	Model 2266 Wheel Lift Harvester - 6 row 19" - 20" Narrow Row Strut (Rock)	$141,058.00
1267817	Model 2266 Wheel Lift Harvester - 6 row 21" - 24" Wide Row Strut (Non-Rock)	$137,892.00
1267818	Model 2266 Wheel Lift Harvester - 6 row 21" - 24" Wide Row Strut (Rock)	$141,058.00
1267819	Model 2286 Wheel Lift Harvester - 6 row 28" - 30" Wide Row Strut (Non-Rock)	$144,531.00
1267820	Model 2286 Wheel Lift Harvester - 6 row 28" - 30" Wide Row Strut (Rock)	$155,156.00
1267821	Model 2288 Wheel Lift Harvester - 8 row 19" - 20" Narrow Row Strut (Non-Rock)	$157,559.00
1267822	Model 2288 Wheel Lift Harvester - 8 row 19" - 20" Narrow Row Strut (Rock)	$164,587.00
1267823	Model 2288 Wheel Lift Harvester - 8 row 22" Wide Row Strut (Non-Rock)	$156,501.00
1267824	Model 2288 Wheel Lift Harvester - 8 row 22" Wide Row Strut (Rock)	$165,176.00
	Completing Packages - Order one item from each section for a complete harvester	
	Rear Wheel Strut Assemblies	
1268951	Steerable, Two Way-Rtn to Straight, Floatation Tires 2260	$19,206.00
	PTO Driveline Assembly	
991097	Standard PTO w/ 1 3/8 - 21 Spline Yoke	$1,080.00
1991096	Standard PTO w/ 1 3/4 - 20 Spline Yoke	$1,102.00
1268450	CV PTO w/ 1 3/8 - 21 Spline Yoke	$2,125.00
1268451	CV PTO w/ 1 3/4 - 20 Spline Yoke	$2,165.00
	Fafnir Bearing Upgrade (Less Grabroll Bearings)	
1268863	Fafnir Bearing (Model 2260)	$6,560.00
1268864	Fafnir Bearing (Model 2280)	$7,325.00

Model	2266	Tongue Through Elevator	20' 10"	21760#
Model	2288	Tongue Through Elevator	20' 10"	25260#
		Transport Height	13'	
		Tongue off 212"	17' 8"	

Allow 5 Hrs to Remount Boom
6-22" Width Boom OFF 175" 14' 6"
6-22" Width Boom ON 235" 19' 6"

Parma Sugarbeet Harvester

Effective:
October 1, 2021

2200 Series - Wheel Lift

Optional Equipment		
Control Valves - Order as needed to match hydraulic needs.		
1265725	2-Bank Electric Solenoid Control Valve	$4,696.00
1265726	3-Bank Electric Solenoid Control Valve	$6,182.00
1265727	4-Bank Electric Solenoid Control Valve	$8,097.00
269029	4-Bank Valve Closed Center - Non Convertible, Non Stackable	$4,696.00
Added Options - Order as Needed		
1268278	Rowfinder, Breakaway - Includes Cyl, Hoses, and Fittings (Includes Installation)	$3,172.00
1267149	Tongue Cylinder Kit - Includes Cylinder and Hoses (Not needed with Rowfinder)	$562.00
1266567	Lifter Wheel Spacer Kit - order 1 kit per row	$56.00
266986	Wide Row Lifter Wheel Scrapers Top Mount Per Row	$387.00
1267831	Mud Flap Kit for Grabrolls (Model 2266)	$952.00
1267832	Mud Flap Kit for Grabrolls (Model 2286, 6-Row)	$987.00
1267753	Mud Flap Kit for Grabrolls (Model 2288, 8-Row)	$1,039.00
1282210	SMV Sign Assembly	$41.00
268371	Boom Extension Kit 24" for 6-Row (Std on 8-row)	$914.00
268351	Front Jack Stands, Pair - Order One Per Harvester	$752.00
	See Installation Package Sheet #SBH-06 for assembling options	

SBH-05

Parma Sugarbeet Harvester

12 Row 22" Double Elevator

Effective:
October 1, 2021

Standard Equipment

- Mechanical/Tractor Hyd. Drive
- Rubber Reink between Grabrolls & Elev.
- Upper and Lower Lifter Wheel Scrapers
- 4-Bank Valve Closed Center
- In-Cab Electrical Control Box
- LED Working & Caution Lights
- Assembled and Test Run
- 24" Boom Extension
- Double 48" Elevator
- 55" Wide Hopper w/48" Chain, Appx 4 Ton
- Stainless Steel Wear Slats in Hopper
- Ladder on Front of Hopper
- Extended Unloading Boom
- 8 Grabroll Bed
- 6 Groove 5VX Notched Powerband Drive Belts
- Mud Flap Over Grabrolls

Requires 65-85 MIN. GPM at the Remotes @ 3000 PSI
(Hydraulic Wet Kit Available for Older Tractors)
5 Remotes Required for Best Operation (**See Note**)
Approximately 27HP Per Row

Order Number	Description	List Price
1269143	Model 12228D Harvester 12 Row 22" Wide Row Rock	$227,009.00
1269197	Model 12228D Harvester 12 Row 22" Non Rock, Non Reink	$212,338.00
Completing Packages - Order one item from each section for a complete harvester		
	Rear Wheel Strut Assemblies	
1268761	Steerable, Two Way-Rtn to Straight, 4 Floater 21.5 x 16.1 Tires (2 HD Struts)	$20,485.00
	PTO Driveline Assembly	
1991096	Standard PTO w/ 1 3/4 - 20 Spline Yoke	$1,102.00
1268451	CV PTO w/ 1 3/4 - 20 Spline Yoke	$2,165.00
	Optional Equipment	
Added Options - Order as Needed		
1268278	Rowfinder, Breakaway - Includes Cyl, Hoses & Fittings - Includes Installation	$3,172.00
1267149	Tongue Cylinder Kit - Includes Cylinder and Hoses (Not needed with Rowfinder)	$562.00
1266567	Lifter Wheel Spacer Kit - order 1 kit per row 12= $636.00	$56.00
268371	Boom Extension 24" x 48" Wide (In Base Unit)	$914.00
1282210	SMV Sign Assembly	$41.00
	Self-Contained Hydraulic Kit (Must Order w/Harvester)	$10,929.00
268795	Draw Bar Shim Kit CAT IV 2 1/8" Bore	$124.00
269279	Reink Shaft Assembly	$3,488.00
269284	Belted Chain Spacer	$393.00
269178	Belted Chain Discharge 48" x 56 mm	$6,503.65
268261	12 Tooth Sprocket 1 3/4" Bore 56 mm	$240.85
269321RL	Double Belted Chain 48" x 56 mm Discharge	$10,947.00
269320	2 x 12 Tooth Sprocket 1 3/8" Bore 56 mm	$332.00

Weight: 32560#
Height: 13'6"
Tongue & Mount Removed: 13'8" Wide Load

Allow 5 Hours Reassembly Time

Note: Hydraulic Functions Required:

1. Machine Raise
2. Boom Discharge
3. Elevator
4. Reink
5. Valve Bank
   a. Boom Raise
   b. Row Finder Override
   c. Left Steer
   d. Right Steer

SBH-06

Parma Sugarbeet Harvester

Effective:
October 1, 2021

Assembly Packages & Accessories - All Harvesters

Order Number	Description	List Price
1266356	Install Discharge Boom Extension (After Market Labor)	$894.00
1266357	Install Deflector Hood New	$197.00
1266359	Removal of Lifter Wheels to accommodate over height shipping - per row	$124.00
1266780	Remove or Add Rock Struts	$707.00
1266781	Remove or Add Lifter Wheel Cushion Kit	$707.00
1266782	Remove or Add Valve Bank	$872.00
1266783	Remove or Add Grabroll Spring Kit	$238.00
268910	Grabroll Center Spring Kit (12-Row) Pre 2015	$1,694.00
268379	Draw Bar Shim/Wear Kit Swivel Hitch 4 Pcs. 3/16, 1/4, 3/8, 1/2	$129.00
264655	Hammer Strap	$222.00
268218	LW Hub Assy, Brg. Cups, Inner Cone & Seal Wide Row 7/16" Holes	$576.00
268364	Coupler 1 1/4" to 1 3/4" LoveJoy (Used on 2200 Series Only)	$603.00
268369	Wear Slats, Poly (3 Required) Included in Base Unit	$180.00
1264571	Pintle Hook Hitch Assy	$634.00
1264654	Heavy Duty Swivel Hitch Assy	$1,335.00
1268457	Floater Tires 21.5 x 16.1 Tires (Retro fit update only)	$9,717.00
1268547	Steerable Floater, 4 Strut - Two Way Return to Straight (12 Row)	$28,181.00
1268122	Steerable, Two Way-Rtn to Straight, Floatation Tires 2280 B21.5 X 16.2, 18" Rim	$25,024.00
1267685	Steerable, HD Two Way-Rtn to Straight - 22" Rows (2200 Original Style)	$25,191.00
267988	RC80 Scrub Kit Rear Elev. (80Q45T & Chain)	$307.00
268491	RC80 Rear Elev. Drive Upgrade Kit - Replaces RC60 (16T-36T w/1 3/4")	$925.00
268492	RC80 Discharge Boom Drive Update Kit - Replaces RC60 (12T - 36T w/1 3/4")	$625.50
266081	5" Riser Kit - Hopper (910 - 926)	$1,419.00
264421	5" Riser Kit - Tank (900)	$1,643.00
268854	13 1/2" Front Panel Boom Extension	$227.63
268855	13 1/2" Rear Panel Boom Extension	$227.63
267773	48" x 56mm Belted Chain Bulk Length Per Link	$25.26
264543	Switch Box 900-910-926	$998.00
268928	Paddle Back Wide-Long	$31.68
268929	Paddle Back Wide-Long Kits w/Bolts Per Row	$133.00
266667	H,D. 24' Recap Lug Tire & Wheel	$1,080.00
268999	Middle Strut (Inner) Weld Std 2" Sq.	$862.00
269002	Steering Arm 2"	$212.49
269026	Strut Assy H.D. 3" Sq. w/Steering Arm & Wear Disc (Add Bottom)	$3,205.00
268762	Upper Strut Weld (Fits 2" or 3" Inner)	$1,801.00
269009	Middle Strut (Inner) Weld Solid 3" Sq.	$1,105.00
269122	Steering Arm 3"	$225.51
269025	Bottom Strut Bored for 3/4"	$780.00
267322	Wear Disc	$87.54
997903	3/4" x 6" Eye Bolt	$24.21
269030	H.D. Wear Slats 1 1/4" x 3"	$283.00
268369	Wear Slat Std	$180.00
269195	Stainless Steel Wear Slat (Large Hopper)	$926.00

SBH-07

Valve Bank Requirements on Harvesters

Effective:
October 1, 2021

Tractor Hydraulics and Model 2200	
1	Raise /Lift Harvester
1	Boom Raise
1	Powers the Valve Bank & Rowfinder
1	Tongue Steer/Rowfinder override
1	One way steering
1	2 Way Return to Straight Steering
1	Power Elevator & Boom
7	%

	Self Contained
1	Raise/Lift Harvester
1	Boom Raise
1	Powers the Valve Bank & Rowfinder
1	Tongue Steer/Rowfinder override
1	One way steering
1	2 Way Return to Straight Steering
6	Total Possible Functions

Remember, you need a valve to power the Valve Bank whether you use a Rowfinder or not.

Example: 7 functions of the Tractor powered Hydraulics on a 2900 with a Tractor having 3 Remotes, requires a 4 Bank Valve.

Hydraulic Hose Packages Consist of the following (For reference only)

	Hose Package/Tractor Driven Hydraulic Systems (2-1/2x16', 2-1/2x12', 1-3/4x16')		Included as standard Equipment
	Hose Package/Self Contained Hydraulic Systems (2-1/2x16', 2-1/2x12')		
(Widths)	2966 (17250#)	2988 (20750#)	
Tongue-Elev.	16'4"	17'10"	
Frame Width	13'6"	17'2"	
Boom Down	15'	18'8"	
Center Boom	10'5" Clearance	10'5" Clearance	
Trans Height	13'	13'	

ONH-01

Parma Onion Harvesting Equipment

Effective:
October 1, 2021

Series 340 Onion Rod Lifter

Standard Equipment

- Solid 2 1/4" Square Tool Bars
- Slimline Shanks
- Driveline Assembly for 540 PTO

or

- Hydraulic Drive w/8ft Hoses & Tips 7-12 GPM @ 2000 PSI

Order Number	Description	Weight	List Price
2340000	Onion Rod Lifter - 3 bed, 3 shank - 540 PTO Driven		$7,096.00
2340050	Onion Rod Lifter - 3 bed, 3 shank - Hyd Driven		$7,096.00
2340068	Onion Rod Lifter - 3 bed, 4 shank Hyd Driven (60" beds)		$7,941.00
2340002	Onion Rod Lifter - 4 bed, 5 shank - 540 PTO Driven	1550 lbs	$8,658.00
2340047	Onion Rod Lifter - 4 bed, 5 shank - Hyd Driven	1550 lbs	$8,658.00
2340040	Onion Rod Lifter - 6 bed, 7 shank - 540 PTO Driven (30" - 36" beds only)		$11,416.00
2340048	Onion Rod Lifter - 6 bed, 7 shank - Hyd Driven (30" - 36" beds only)		$11,416.00
2340082	Onion/Bean Rod Lifter - 6 bed, 7 Shank, (40" beds 12-22")		$11,416.00
2340049	Onion Rod Lifter - 3 bed, 4 shank - Hyd Driven 1 1/4" Rods (72" beds)		$10,451.00
2340085	Onion Rod Lifter - 3 bed, 4 shank - Hyd Driven 1 1/4" Rods (80" beds)		$10,959.00
2340080	Onion Rod Lifter - 6 bed, 7 shank - Hyd Driven 1 1/4" Rods (44" beds)		$13,425.00

	Optional Equipment	
2314309	18" Coulters with Shanks and Clamps - Each	$571.00
	Additional Parts Information	
314224	Clamp	$117.00
314310	18" Coulter	$326.00
340045	Center Stanchion Assy - Hyd Drive	$3,623.00
340037	Outer Stanchion Assy	$725.00

ONH-02

Parma Onion Harvesting Equipment

Effective:

October 1, 2021

Series 350 Onion Undercutter

Standard Equipment

- Rugged Solid Frame Design
- Three Point Hitch Mounted
- Two Front Gauge Wheels on 2 Bed Units
- Four Gauge Wheels on 4 and 6 Bed Units
- Designate Blocks, included in Base
- Hydraulic Drive w/8' Hoses & Tips 7-12 GPM @ 2000 PSI
- Hardfaced UnderCutter Blades
- Quick and Simple Blade Adjustment
- 30" to 44" Bed Spacing

Order Number	Description	List Price
	Rigid Frame Units	
2314254	2 Bed Rigid Frame Onion Undercutter	$15,591.00
2314255	4 Bed Rigid Frame Onion Undercutter	$16,585.00
2314322	6 Bed Rigid Frame Onion Undercutter (30" to 36" Only)	$20,514.00
	8 Bed 34" Rigid Frame Undercutter	$25,482.00
	9 Bed 34" Rigid Frame Onion Undercutter	$27,965.00
2314312	6 Row Rigid Frame Onion Undercutter (20" to 22")	$17,311.00
	Floating Head Units	
2314400	6 Bed Floating Head Onion Undercutter (44")	$24,538.00
	Optional Equipment	
2314270	Rear Gauge Wheel Assembly Pr. Aircraft Tires	$836.00
2314309	18" Coulter with Shank and Clamp (each)	$571.00
314220	Gauge Wheel Assembly Pair Narrow Tire	$742.00

ONH-03

Parma Onion Harvesting Equipment

Effective:

October 1, 2021

Series 320 Onion Windrower

Standard Equipment

- Hook Chain Standard on Primary
- Rubber Coated Belted Chain on Rear Cross Conveyors
- 540 rpm PTO Driveline
- Heavy Duty Primary Drives with Slip Clutch
- Hoses to Tractor
- On 4 Bed Units -
  - -Tool Bar for Front Gauge Wheels
  - - Front Gauge Wheels
  - - Crazy Wheels with Lock Outs

Order Number	Description	List Price
	3-Point Mounted Windrower	
2322200	2 Bed Onion Windrower without Rod Lifter Bar	$15,554.00
2322299	2 Bed Onion Windrower with Rod Lifter Bar	$23,620.00
2322600	6 Row Onion Windrower without Rod Lifter Bar	$24,402.00
2322699	6 Row Onion Windrower with Rod Lifter Bar	$29,293.00
	2-Point Mounted Windrower	
2322400	4 Bed DoubleWide Onion Windrower without Rod Lifter Bar	$31,031.00
2322499	4 Bed DoubleWide Onion Windrower with RodLifter Bar	$36,745.00
	Pull-Type Hi Capacity Windrower	
315300	4 Bed 40" Hi Capacity Pull-Type Windrower w/L & R Rear Cross	$76,793.00
	Rear Stinger for Hi Cap Windrower	$4,766.00
	Completing Packages	
	Cross Conveyors - Order as needed to match harvesting needs.	
2322100	Long Rear Cross Section Order 2 for 4 Bed (Double Wide Windrow) Order 1 for 2 Bed (Single Wide Offset Windrow) Order 1 for 6 Row - Requires 1 Long and 1 Short Rear Cross	$4,749.00
2322150	Short Rear Cross Section Order 4 for 4 Bed (2 Single Wide) Order 2 for 2 Bed (Single Wide Centered) Order 1 for 6 Row - Requires 1 Long and 1 Short Rear Cross	$2,486.00
	Optional Equipment	
2322078	Double Wide Packer Roller	$3,109.00
2322080	Double Wide Grader Blade	$402.00
2322077	Single Wide Windrow Packer Roller	$2,161.00
2322081	Single Wide Grader Blade	$352.00
2322079	Floating Drag (Not to be used with roller) Order One per Windrow	$288.00

Parma Onion Harvesting Equipment

Sack Loader

Effective:
October 1, 2021

Two Point Pull, Trailing

Standard Equipment

- All Hydraulic Drive, Tractor Driven
  (40 Gal/Min 3000 PSI Required)
  (4 Tractor Remotes Required)
- Enlarged Sack Hopper, Hydraulic Dump
- Vertical Nose Flappers, Sack Feed onto Primary
- 24" Belted Primary Chain 6st/1up
  - All Cushion Coated
- 33" Belted Truck Boom Chain
  - All Cushion Coated - 3" Flight
- 4 Caster Wheel Cart Frame
- Versatile Tractor 2-Point Hook up
- Flatter Primary-Easier Sack Movement
- Operator Station - Primary Sack Staging
- Revised Truck Elevator
- Short Nose Pickup Belted Chain
  - All Straight Plain

Order Number	Description	List Price
2360317	Sack Loader 2-Pt Mounted	$84,636.00

For Use on Older Tractors, or Tractors Without 4 Remotes,
Contact Factory About Self-Contained Hydraulic Kit.

360138	(Reference #360138 Hyd. Kit)	$6,323.00

Shipping Dimensions:
9'2" Deep, with Primary & Sack Hopper Removed
17'6" Wide, with Boom Folded Down
7'10" High, Standing on Wheels with Boom Down