

# HEBER GROWING EQUIPMENT CATALOG



NEW COLLECTION  
2026-2027

## **Contact Us**

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Sub-Compact 25HP & Under-----24,25

# HYDRAULIC WEEDING MACHINES



## Single Row Mini

- Cultivates up to 8 acres a day.
- Now with parallel arms.
- 30 HP compact tractors & up.
- 6" or 10" heads available.
- Offset toolbar option available.
- American made.

\$7,995.00



## Double Row Mini

- Cultivates up to 8 acres a day per unit.
- Replaces hoe labor.
- Minimum row spacing 28".
- 6" or 10" heads available.
- Offset toolbar option available.
- American made.

\*Call for Price\*



## Single Row Heavy Duty

- Cultivates up to 8 acres a day.
- Reinforced heavy duty toolbar.
- 50 HP tractors & up.
- 6" or 10" heads available.
- Offset toolbar option available.
- American made.

\*Call for Price\*



## Multi Row Heavy Duty

- Cultivates up to 8 acres a day per unit.
- 1-8 rows available.
- 80 HP tractors & up.
- 6" or 10" heads available.
- Minimum row spacing 28".
- Hydraulic cooler.

\*Call for Price\*

\*Please Call for Current Discounts\*

# SIDE DRESSERS



**1 Row Side Dresser**

- 300 lb. Hopper Capacity.
- 1-6 Rows Available.
- Ground Driven Only.
- Knife openers, Disc openers, & cultivator options available.

**\$4,397**



**Cultivators for Side Dressers**

- Single Row-----\$608
- Two Row-----\$953
- Three Row-----\$1,514
- four Row-----\$1,873



**4 Row Side Dresser**

- Four 300 lb. Hoppers
- Ground Driven Only.
- Knife openers, Disc openers, & cultivator options available.

**\$7,558**



**Hopper w/ Drive & Mounts**

- 200 or 250lb. Hopper Capacity.
- 42 - 600 lbs /acre.
- Mounts to angle iron, 2.5" Diamond bar, and Flat Bars.
- Ground or Electric Driven.

**\$2,326**



**Complete 3 Pt Side Dresser**

- 200 or 250lb. hopper capacity.
- 42 - 600 lbs /acre.
- Ground or Electric Driven.
- Includes 3 point hitch and toolbar.

**\$3,190**



**Orchard/ Vineyard Side Dresser**

- 200 or 250lb. hopper capacity.
- 42 - 600 lbs /acre.
- Electric Driven Only.
- Comes with Frame & Hitch.

**\*Call for Pricing\***

# HARVEST



**RoHand II Harvester**

- Hands free, foot controlled.
- Solar and Electric motor driven.
- Compact lithium-ion battery.
- Top rolls down for weather protection.
- Makes picking easy.

**\$6,200.00**



**Undercutters / Bed Lifters**

- Loosens soil up for easier harvest with root vegetables.
- 35"-----\$890.00
  - 42"-----\$1,310.00
  - 48"-----\$1,581.00
  - 60"-----\$2,540.00

**\*Please Call for Current Discounts\***

# SICKLE BAR MOWERS



#651 – Sickle bar mower I&J Mfg / Esm 3 point



#651/655L – Sickle bar mower I&J Mfg Esm Trailed pto twin 24 f



#655 – Sickle bar mower I&J Mfg/ Esm trailed PTO



#1373446 – Sickle bar mower I&J Mfg /Esm mounted on a BCS Tractor



#658 – Sickle Bar Mower I&J Mfg/ Esm on Skid Steer



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#658 – Sickle Bar Mower I&J Mfg/ Esm on Skid Steer



#650 – Sickle bar mower I&J Mfg /ESM 1 horse for Produce



#701 – Sickle bar mower I&J Mfg /Esm Retrofit Kit for MC Mower



#700 – Sickle bar mower I&J Mfg /Esm retro fit Kit (NH)



#657 – Sickle bar mower I&J Mfg /Esm Trailed pto with 29 Hp Vanguard motor

Description	Weight	Shipping Size	Price
#651 – 3-point Mower and choice of cutter bar length: 5.5', 7', 8' or 9'.	685 LBS	-	\$7,200.00 (Price with 8' Bar)
#652 – 3 Wheeled Horse Mower with 5 HP Motor and choice of cutter bar length: 5.5', 7', or 8'.	905 LBS	110" L x 60" W x 48" H	\$8,800.00 (Price with 8' Bar)
#655 – Trailed PTO Mower with Wheels Behind and choice of cutter bar length: 5.5', 7', 8' or 9'.	985 LBS	110" L x 72" W x 48" H	\$8,200.00 (Price with 8' Bar)
#656 – Trailed mower with wheels in front + 9 H.P. Motor and choice of cutter bar length 5.5', 7', 8' or 9'.	1160 LBS	110" L x 60" W x 48" H	\$11,800.00 (Price with 8' Bar)
#654 – Ground Drive Mower with Enclosed Gear Box and choice of cutter bar length: 5.5', 7', or 8'.	1005 LBS	110" L x 60" W x 48" H	\$11,425.00 (Price with 8' Bar)
#651/655L – Trailed Mower with left and right 9 ft. Cutter Bars.	1625 LBS	-	Call for Price
#700 – Retrofit kits for New Holland Mowers.	-	-	\$5,500.00 (Priced with 8' Bar)
#701 – Retrofit kits for McCormic #9 Sickle Bar Mowers	-	-	\$6,800.00 (Priced with 8' Bar)

\*Please Call for Current Discounts\*

# CONVEYORS



ALUMINUM CONVEYOR DESIGNED FOR HARVESTING VEGETABLES. INCLUDING, BUT NOT LIMITED TO: MELONS, SWEET CORN, PUMPKINS, BROCCOLI, CABBAGE, AND CAULIFLOWER. HERE ARE THE FEATURES THAT MAKE THIS CONVEYOR GREAT FOR THE GROWER THAT LOADS DIRECTLY OUT OF THE FIELD.

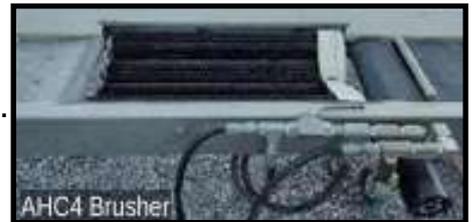
- GREAT FOR PACKING BINS, BOXES, OR LOOSE ON THE WAGON.
- MOUNTS RIGHT OR LEFT AND ANYWHERE FROM FRONT TO REAR ON A REGULAR FARM WAGON.
- STAND IS 16" HIGH AND SITS ON ONE EDGE OF THE WAGON. OPPOSITE END CLAMPS TO WAGON W/ C-CLAMP ATTACHED TO A PULLEY.
- AHC28 & ACH281 GAVE A 3 1/2" LONG RECEIVING AND GRADING TABLE. 10" WIDE PICKING BELT W/ CLEATS EVERY FOOT.
- ACH28 INCLUDES SLOW SPEED HIGH TORQUE HYDRAULIC MOTOR W/ TWO 20' LONG 3/8" HYDRAULIC HOSES. BELT TRAVELS APPROXIMATELY 50 FT PER MINUTE W/ TRACTOR AT IDLE. IT HAS A BYPASS VALVE & PLUMBING TO STOP OR SLOW THE BELT.
- AHC281 HAS STOP SWITCHES ON EACH SIDE. FULLY CHARGED 5AH BATTERY RUNS IT CONTINUOUSLY FOR 1-1.5 HOURS. 15AH 3-4.5 HOURS.
- BOTTOM BELT RETURN TRACK W/ UHMW STRIPS IS STANDARD ON MODELS.
- PAINTED ALUMINUM SIDE PREVENTS DISCOLORATION OF PRODUCE UPON CONTACT WITH SIDE.

OPTIONAL EQUIPMENT: DROP LID - REMOVABLE LID IN RECEIVING TABLES ALLOWS PRODUCE TO FALL DIRECTLY INTO CRATES, BOXES, OR BINS. AVAILABLE WITH GASOLINE ENGINE OR 20VDC BATTERY DRIVE MOTOR FOR USE WITH HORSE DRAWN WAGONS OR WHERE HYDRAULIC IS NOT AVAILABLE. STANDARD WITH CABLE WINCH. THIS FEATURE MAKES IT EASY FOR ONE PERSON TO ADJUST THE HEIGHTS AS NEEDED DUE TO UNEVEN TERRAIN.

ITEM #	DESCRIPTION	PRICE
AHC28	28FT ALUMINUM CONVEYOR W/ HYDRAULIC MOTOR (24' BELT) WEIGHTS 208LBS	\$2675
AHC281	28FT BATTERY POWERED: RUNS ON DEWALT OR MILWAUKEE 20V BATTERIES (24' BELT), W/ VARIABLE SPEED CONTROL	\$3460
AHC280	28FT GAS ENGINE POWERED: HONDA W/ 6 TO 1 REDUCTION (20' BELT TO EDGE OF WAGON)	\$2850
AHC50	OPTIONAL DROP LID - INSTALLED (NOT USABLE ON ENGINE CONVEYOR)	\$100
AHC55	OPTIONAL EXTENSION STAND - RAISES CONVEYOR FROM 16" TO 30" ABOVE WAGON	\$115
AHC4	OPTIONAL HYDRAULIC BRUSHES (4 - 24") HELPS SPEED CLEANING IN THE FIELD) FOR AHC28 HYDRAULIC DRIVE ONLY	\$1395



Also available: Proveyor harvest system on 24' flat wagon. Starting at \$17,800.00. Many options offered. Call for detailed price list.



# ROOT VEGETABLE DIGGERS



Digging shoe

## Planter-Hiller-Digger

**\$2,299.91**

- Extra Digging Shoe – Add \$200.13
- Extra Planting Unit Less Shank – Add \$633.94
- Extra Shovel and Shank with Clamp – Add \$338.70



## Mini Manual Box Filler Digger (1 Row 25" Chain)

**\$31,041.20**

- 60 HP and up.
- Larger digging widths available.
- Canopy – Add \$2,438.02
- Chain Speed Control on Tractor – Add \$4,897.24
- Coulters – Add \$1,321.49
- Gauge Roller on Digger Chain – Add \$2,181.86
- Hydraulic 3Pt Shakers – Add \$3,148.21
- Oil Cooler – Add \$3,381.44
- Steering – Add \$4,897.24
- Belted Chain – Add \$3,545.04
- Rubberized Chain – Add \$2,654.84



## 3 Point Hitch Digger 25" Chain

**\$5,422.51**

- 25 HP and up.
- Larger digging widths available.
- 24" Extension – Add +\$1,425.18
- Additional Regular Blade – Add +\$138.52
- Carrot Blade – Add +\$152.71
- Sweet Potato Blade – Add +\$152.37
- Pointed blade for easier digging – Add +\$69.25
- Slip clutch on final drive shaft – Add +\$494.78
- Offset hitch – Add +\$1,495.25
- Cutting coulters – Add +\$1,464.61
- Roller for firming onion bed – Add +\$2,007.41
- Rubberized Chain – Add +\$207.77
- Extra full rubberized chain – Add \$657.87
- 1.25 Chain in Lieu of 1.56 – Add +\$114.41
- 55HP Heavy Duty Gearbox – Add +\$1,342.75
- Heavy Duty Frame – Add +\$1,817.55

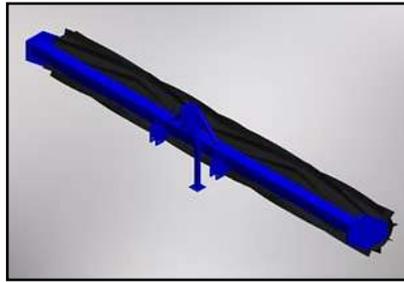
# COVER CROP CRIMPERS



**6 - 1S**

- 2 Row – 5.75'
- Single section
- CAT I 3 point
- Chevron pattern
- Operating weight: 1,305#
- Minimum HP required: 25

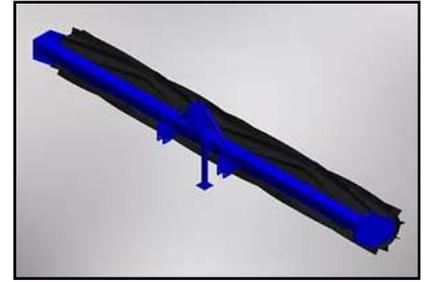
**\$4,750**



**8 - 1S**

- 3 Row – 8.25'
- Single section
- CAT I 3 point
- Chevron pattern
- Operating weight: 1,725#
- Minimum HP required: 30

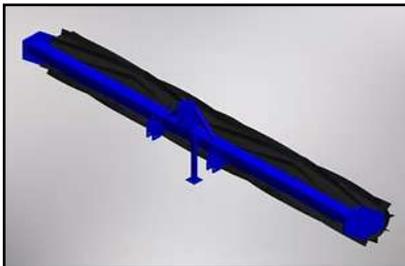
**\$5,600**



**10 - 1S**

- 4 Row – 10.5'
- Single section
- CAT I/II 3 point
- Chevron pattern
- Operating weight: 2,120#
- Minimum HP required: 35

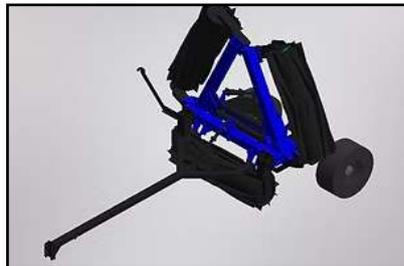
**\$6,400**



**15 - 1S**

- 6 Row – 15.5'
- Single section
- CAT II 3 point
- Chevron pattern
- Operating weight: 3,255#
- Minimum HP required: 50

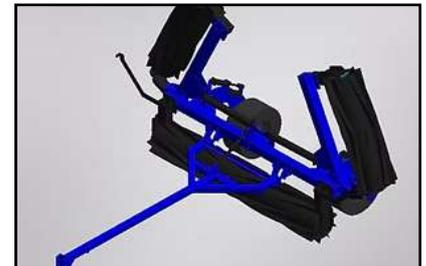
**\$8,500**



**16 - 3S**

- 6 Row – 16'
- 3 section
- 2 flex points
- Trailered unit
- Hydraulic fold and lift (2 remotes required)
- Trailer light package
- Chevron pattern
- Operating weight: 5,500#
- Minimum HP required: 50

**\$23,800**



**21 - 3S**

- 8 Row – 21'
- 3 section
- 2 flex points
- Trailered unit with pintle style hitch
- Hydraulic fold and lift (2 remotes required)
- Trailer light package
- Chevron pattern
- Operating weight: 6,700#
- Minimum HP required: 80

**\$27,400**



**31 - 3S**

- 12 Row – 30.5'
- 3 section
- 2 flex points
- Trailered unit
- Hydraulic fold and lift (2 remotes required)
- Trailer light package
- Chevron pattern
- Operating weight: 8,100#
- Minimum HP required: 100

**\$34,400**



**31NT - 3S**

- 12 Row – 31'
- Narrow transport frame design, 11' transport width
- 3 section
- 2 flex points
- 2 point hitch
- Trailer light package
- Chevron pattern
- Operating weight: 9,010#
- Minimum HP required: 100

**\$38,300**



**41NT - 3S**

- 16 Row – 41'
- Narrow transport frame design, 11'7" transport width
- 3 section
- 2 flex points
- 2 point hitch
- Trailer light package
- Chevron pattern
- Operating weight: 11,960#
- Minimum HP required: 150

**\$46,400**

\*Please Call for Current Discounts\*

# COVER CROP CRIMPERS



**#904T – 4 ft Flip-Over**

- 995 lbs

**\$3,800**



**#905T – 5 ft Flip-Over**

- 1150 lbs

**\$4,150**



**#906T – 6 ft Flip-Over**

- 1375 lbs (Could be hard to flip due to weight)

**\$5,725**



**#908 – 8 ft. 3 Point**

- 1,510 lbs.

**\$5,850**



**#910 – 10 1/2 ft. 3 Point**

- 1,835 lbs.

**\$6,700**



**#915 – 15 1/2 ft. 3 Point**

- 2,400 lbs.

**\$9,550**



**#915TSH – 15 1/2 ft. Narrow Transport Trailed**

- 4,000 lbs.

**\$16,650**



**#908TK – Trailed Option (For 6 - 8 ft rollers only)**

- Call for Weight

**\$2,700**



**#930T – 30 ft. Trailed Folding**

- 7,900 lbs.

**\$32,850**



**#9313P-31 ft. Folding 3 Point**

- 8,000 lbs.

**\$33,500**



**#940 – 40 ft. Roller Mounted on a Harmes Trailed Frame**

- Call for Weight

**\$60,000**

\*Please Call for Current Discounts\*

# JANG SEEDERS

## JP SERIES



**JP-1 ONE ROW JANG PUSH SEEDER**

ACCURATELY SINGULATES A WIDE VARIETY OF RAW AND PELLETIZED SEEDS WITH QUICK CHANGE SEED ROLLERS AND EASY ADJUSTMENTS. SINGULATES AND SPACES SMALL SEEDS.

**\$475.00**



**JP-2 TWO ROW JANG PUSH SEEDER**

NARROWEST ROW SPACING: 3"  
WIDEST ROW SPACING: 12"  
MAXIMUM OUTSIDE ROW WIDTH: 12"  
MAXIMUM POSSIBLE SEED HOPPERS: 5  
3 POINT HITCH COMPATIBLE

**\$945.00**



**JP-3 THREE ROW JANG PUSH SEEDER**

NARROWEST ROW SPACING: 3"  
WIDEST ROW SPACING: 6"  
MAXIMUM OUTSIDE ROW WIDTH: 12"  
MAXIMUM POSSIBLE SEED HOPPERS: 5  
3 POINT HITCH COMPATIBLE

**\$1,150.00**



**JP-5 FIVE ROW JANG PUSH SEEDER**

NARROWEST ROW SPACING: 3"  
WIDEST ROW SPACING: 3"  
MAXIMUM OUTSIDE ROW WIDTH: 12"  
MAXIMUM POSSIBLE SEED HOPPERS: 5  
3 POINT HITCH COMPATIBLE

COMES STANDARD WITH NARROW SHOE

**\$1,700.00**



**JP-6 SIX ROW PUSH SEEDER**

NARROWEST ROW SPACING: 3"  
WIDEST ROW SPACING: 4"  
MAXIMUM OUTSIDE ROW WIDTH: 22"  
MAXIMUM POSSIBLE SEED HOPPERS: 8  
3 POINT HITCH COMPATIBLE

**\$2,350.00**



**JP-6W SIX ROW WIDE SEEDER**

NARROWEST ROW SPACING: 3"  
WIDEST ROW SPACING: 7"  
MAXIMUM OUTSIDE ROW WIDTH: 36"  
MAXIMUM POSSIBLE SEED HOPPERS: 12  
3 POINT HITCH COMPATIBLE

**\$3,200.00**



**JPH-U-TOOLBAR MOUNTED**

INDIVIDUAL ROW UNIT. EASILY FITS ON 2" X 2" SQUARE TUBING TOOLBAR.

\*PRICE DOES NOT INCLUDE TOOLBAR\*

**\$1,100.00**



**JPH-2 TOOLBAR MOUNTED**

COMPLETE TWO ROW SYSTEM WITH 48" TOOLBAR.

**\$2,450.00**



**JPH 4 COMPLETE 4 ROW**

COMPLETE FOUR ROW SYSTEM WITH 48" TOOLBAR.

**\$5,100.00**

\*Please Call for Current Discounts\*

# JP SERIES SEED ROLLERS



**A-6 AA-6 C-12 B-12 G-12 R-12 Q-6 LJ-12 L-12 MJ-12 M-24 F-24**



**M-12 X-24 Y-24 YYH-24 YX-12 XY-36 XYY-24 J-8 N-6 U-4 S-4 BLANK**

Roller:	Price:
A-6	\$24.00
AA-6	\$24.00
B-12	\$24.00
BL-12	\$35.00
C-6	\$24.00
C-12	\$24.00
F-6	\$24.00
F-12	\$24.00
F-24	\$29.00
G-6	\$24.00
G-12	\$24.00
J-2	\$24.00
J-4	\$24.00
J-8	\$24.00
L-12	\$24.00
L-24	\$29.00
L J-6	\$24.00

Roller:	Price:
L J-12	\$24.00
L J-24	\$29.00
LV-12	\$24.00
LV-24	\$29.00
M-6	\$24.00
M-12	\$24.00
MJ-4	\$24.00
MJ-6	\$24.00
MJ-12	\$24.00
MJ-24	\$29.00
MM-12	\$24.00
MM-24	\$29.00
N-6	\$35.00
Q-6	\$24.00
Q-12	\$24.00

Roller:	Price:
R-12	\$24.00
R-24	\$29.00
S-4	\$35.00
U-4	\$35.00
X-4	\$24.00
X-6	\$24.00
X-12	\$24.00
X-24	\$29.00
XY-4	\$35.00
XY-6	\$35.00
XY-12	\$35.00
XY-24	\$35.00
XY-36	\$45.00
XYY-12	\$35.00
XYY-24	\$35.00

Roller:	Price:
XYY-36	\$45.00
Y-4	\$24.00
Y-6	\$24.00
Y-12	\$24.00
Y-24	\$29.00
YX-4	\$24.00
YX-6	\$24.00
YX-12	\$24.00
YX-24	\$29.00
YYJ-6	\$24.00
YYJ-12	\$24.00
YYJ-24	\$29.00
YYX-12	\$24.00
YYX-24	\$29.00
YYX-36	\$35.00

Blank Roller Available - ZBLANK \$24.00 For custom drilled seed rollers, add \$15.00 to the price of roller. \*\*\*Send seed samples or contact us.\*\*\*

# JP SERIES

## SEED AND SPACING

General Recommendations:

Seed Roller Hole Size:

Seed or one of Comparable Size	Roller	Seed or one of Comparable Size	Roller	ROLLER	HOLE	SIZE	DEPTH	SHAPE
Arugula	Y X	Lettuce	(raw) X Y	A	13.5	17/32	6.0	R
Basil	Y Y J	Mache	F	AA	12	15/32	6.0	R
Bean - Green	N	Mustard	Y Y J	B	10	25/64	7.5	R
Beet	L J	Okra	L J	B	10	25/64	7.5	R
Beet (coated)	L V	Onion (coated)	M J	C	11	7/16	5.5	R
Broccoli	Y	Onion (raw)	X	CC	11	7/16	2.0	R
Cabbage	Y	Pea	B L	R	9	17/32	6.0	R
Carrot	Y	Pepper	M J	G	9	23/64	4.5	R
Carrot (coated)	M J	Radish	X	Q	8	5/16	3.0	R
Cauliflower	Y	Rutabaga	Y	L J	7.5	19/64	3.7	V
Cilantro	M J	Sorghum	M J	L	7	17/64	2.5	R
Chia	Y Y J	Sorghum (coated)	L J	L V	8	5/16	5	V
Collard	Y	Soy	B L	MM	6	15/64	2.5	R
Corn	A, AA, N	Spinach	F	M J	6	15/64	3.5	V
Cotton	C	Sunflower	A, G, C (*)	M	5	13/64	2.0	R
Cucumber	J	Swiss Chard	L J	F	5	13/64	2.5	R
Cut Flower	(*)	Tree Seed	(*)	X	4	5/32	2.0	R
Flax	L J	Turnip	Y Y J	Y	3.5	9/64	1.5	R
Kale	X	Wheat	C, R	YYJ	3	1/8	1.7	R
Lettuce (coated)	M J	Blank Roller	Z	YX	2.5	7/64	1.5	R
				YYX	2	5/64	1.8	R

R= Round

V= V-Groove

*\* Send Seed Sample for best roller recommendation*

Spacing Chart for JP Series Seeders										
Spacing may change due to soil conditions										
<b>Rear Sprocket</b>	14	14	13	13	11	11	11	10	10	9
<b>Front Sprocket</b>	9	10	10	11	10	11	13	13	14	14
<b>3 Hole Seed Roller</b>	20	18	17	15	14	13	11	10	9	8
<b>4 Hole Seed Roller</b>	15	14	13	12	11	10	8	7.5	7	6
<b>6 Hole Seed Roller</b>	10	9	8	7.5	7	6.5	5.5	5	4.5	4
<b>12 Hole Seed Roller</b>	5	4.8	4.5	4	3.5	3	2.8	2.5	2.3	2
<b>24 Hole Seed Roller</b>	2.5	2.4	2.2	2	1.8	1.5	1.3	1	.8	.05

*Shaded area spacing between seeds in inches*

\*Please Call for Current Discounts\*

## TD SERIES



### TD-1 PUSH SEEDER

- Weight: 32 lbs
- Seed plates for larger seeds such as pumpkins and lima beans
- Standard or Customized plates available
- Row marker compatible
- Double disc opener standard
- Large 1.5 gal clear hopper prevent large seeds from “bridging”
- Uses special anti abrasion plastic disc to prevent static electricity
- Adjustable handle for height and offset

**\$795**



### TDR-U Toolbar Mounted Seeder

- For planting larger seeds such as corn, beans, pumpkins and peas etc.
- Standard or customized plates available
- Large, 1.5 gal. clear hopper prevent larger seeds from “bridging”
- Uses special anti abrasion plastic discs to prevent static electricity
- Toolbar mounted seeder
- Spring loaded scissor hitch
- Adjustable double disc furrow openers

**\$1,365**



### TDR-2 Complete 2 Row TDR-U Package

- Individual spring loaded TDR-U seeding units allow for solid planting results on uneven bed tops
- Mount as many on a toolbar as you need
- Minimum row width: 11”
- Includes 4’ toolbar and 3 point hitch
- Category I Hitch

**\$3,250**



### TDF-2 Complete 2 Row TDR-U Seeder with TD2K Fertilizer System

- Individual spring loaded TDR-U seeding units allow for solid planting results on uneven bed tops
- Mount as many on a toolbar as you need
- Minimum row width: 11”
- Includes 4’ toolbar and 3 point hitch
- Category I Hitch

**\$4,850**

\*Please Call for Current Discounts\*

# TD SERIES

## PLATES AND SPACING



Plate	# of Holes	Hole Size	Thickness	General Usage	Pricing
TDA2	8	13/32" (8mm)	6mm	Corn	\$47.00
TD4T1B	1	1/8" Pilot	4mm	Pumpkin, Squash	\$47.00
TD5T8B	8	1/8" Pilot	5mm	Custom	\$47.00
TD6T16L	16	3/8" (10mm)	6mm	Peas	\$47.00
TD6T8P	8	9/16" (14mm)	6mm	Beans	\$47.00
TD4T	*	BLANK	4mm	N/A	\$47.00
TD5T	*	BLANK	5mm	N/A	\$47.00
TD6T	*	BLANK	6mm	N/A	\$47.00

**Custom Drilled Plates add \$15.00**

**\* Note: Custom holes can be drilled to specs or send seed samples.**

### Spacing Chart for TD Series Seeders

Driven Sprocket	9	10	10	11	10	11	11	13	13	14	14	
Drive Sprocket	14	14	13	13	11	11	10	11	10	10	9	
Number of Holes in Seed plate	2 Hole	16	20	22	24	24	28	30	32	36	40	42
	3 Hole	12	13	14	15	16	19	20	22	24	24	29
	4 Hole	8	10	11	12	12	14	15	16	18	20	21
	6 Hole	6	6.5	7	7.5	8	9.5	10	11	12	12	14.5
	8 Hole	4	5	5.5	6	6	7	7.5	8	9	10	10.5
16 Hole	2	2.5	2.5	3	3	3.5	4	4	4.5	5	5.5	

*Shaded area spacing between seeds in inches*

\*Please Call for Current Discounts\*

# JANG SEEDER ACCESSORIES



3 Point Hitch for JP-3,  
JP-6, & JP-6W  
**JH3/JH6-\$245**  
**JH6W-\$300**



Brush for JP Series Seeder  
**\$17.00**



Depth Control Kit  
**\$18**



Double Disc Opener  
**\$189**



Double Shoe  
**\$176**



Fertilizer Attachment  
**\$210**



KICKSTAND FOR JP-1  
AND TD-1  
**\$35**



Narrow Shoe  
**\$89**



Gauge Wheel  
**\$410**



Guide Plate  
**\$22.00**



Hopper Cover  
**\$6.45**



Hopper Extension  
**\$99.50**



Row Add for JP Series  
**\$252**



Row Marker  
**\$120**



Spreading Shoe 2.95  
inch, 4.72 inch, 2.36 inch  
**\$120**



Three Point Hitch  
**\$278**

\*Please Call for Current Discounts\*

# TRANSPLANTERS



## Christmas Tree Transplanters

- 10", 12", & 14" Shoe Options.
- Tilled, Semi-Tilled, No-Till option Available.
- Plants up to 1200 plants per hour with one person.

**\$3,344**



## Peat Pot Transplanters

- Up to 3" round or square peat pots or large cells as fast as 60 plants per minute.
- Spacing sprockets for spacing as close as 8".
- 3" wide shoe.
- Flat trays to lay your plants on right out of the greenhouse.
- Bare root conversion available for small plugs or bare root plants.
- Complete packages available with water.

**\$3,662**



## No-Till Transplanters

- Compact heavy duty no-till attachment.
- Yetter row cleaner wheels to remove plant material.
- 18" heavy 2" wavy cutting disc opens the ground.
- Suction point tooth to heave up the soil.
- Available for both finger or carousel transplanters.
- Multi row units available.
- Single row offset units available.
- Water option available.

**\$6,890**



## Pull Type Transplanters

- Upright 300 gallon tank for better sight lines around tank.
- Fork Lift Type High Lift System.
- Heavy Duty Telescoping Tongue.
- Adjustable from 56" to 102" wheel centers.
- Folding steps for easy tank filling.
- Reversible axles and hitch for planting on beds.
- Optional shelves for both sides of tank.
- Fertilizer attachment with 2-300 lb. poly hoppers, auger delivery system, disc openers on both sides of row & positive gauge wheel drive.
- Mounts Finger type & carousel transplanters.

**\*Call for Pricing\***



## Plastic Mulch Transplanters

- Plant spacings of 10", 12", 16", 21", 32" & 64" or 14", 17", 22", 27", 44" & 86".
- Two sizes of pocket points for small cell up to 1 1/2" and larger cells from 1 3/4 - 2 1/4".
- Water Option Available.
- Twin Row Options available at 12", 14", 16", or 18".

**\$3,595**



## Carousel Type Transplanters

- Movable seat and foot mount offer rows as narrow as 12". Cam activated plant ejection eliminates timing requirements and increases speeds.
- New adjustable shoe that uses one bolt to easily adjust the shoe width to make it fit most cell sizes.
- Easy ski adjustment for quick change "on the go" depth control for any cell size.
- Smaller diameter 6 cup feeder increases speed, operator efficiency, & has no gaps or spaces for plants to fall between.
- Available with packing wheels or skis.

**\$4,750**



## Finger Type and Root Transplanter

- A Planter that does the job at an affordable price
- Can be used with small tractors
- Adjustable axle eliminates the need for strawberry extensions
- Available in rubber or steel packing wheels.
- Available with Rear Drive or Front Float Wheel Drive System.
- Water option Available.
- Potato/ bulb attachment available.
- Multi-Row Units Available.

**\$2,050**

**\*Please Call for Current Discounts\***

# NO-TILL DRILLS

## 5ft MULTI-drill | ND-60T



- Cover for storage
- Rear Step and Walk Board
- Aux. Seedbox
- 4 Stainless Steel Seed plates for Various Seeds
- Variable Speed Electric Drive
- Self-Contained Lift
- Conventional and No-Till Capability
- Designed to operate with UTV or compact tractors.

**\*Call for Pricing\***

## 5ft MULTI-drill | ND-60



- Cover for storage
- Rear Step and Walk Board
- Aux. Seedbox
- 4 Stainless Steel Seed plates for Various Seeds
- Variable Speed Electric Drive
- 3pt. Lift
- Cat I/II Hitch
- Quick Hitch Compatible
- Conventional and No-Till Capability

**\*Call for Pricing\***

## 6ft MULTI-drill | ND-72



- Cover for storage
- Rear Step and Walk Board
- Weight Bracket
- Aux. Seedbox
- 4 Stainless Steel Seed Plates for Various Seeds
- Variable Speed Electric Drive
- Conventional and No-Till Capability

**\*Call for Pricing\***

\*Please Call for Current Discounts\*

# NO-TILL DRILLS

## 8ft MULTI-drill | ND-96



- Cover for storage
- Rear Step and Walk Board
- Weight Bracket
- Aux. Seedbox
- 4 Stainless Steel Seed
- Plates for Various Seeds
- Variable Speed Electric Drive
- Conventional and No-Till Capability

**\*Call for Pricing\***

## 10ft MULTI-drill | ND-120



- Cover for storage
- Rear Step and Walk Board
- Weight Bracket
- Aux. Seedbox
- 4 Stainless Steel Seed
- Plates for Various Seeds
- Variable Speed Electric Drive
- Conventional and No-Till Capability

**\*Call for Pricing\***

## 12ft MULTI-drill | ND-144



- Cover for storage
- Rear Step and Walk Board
- Weight Bracket
- Aux. Seedbox
- 4 Stainless Steel Seed
- Plates for Various Seeds
- Variable Speed Electric Drive
- Conventional and No-Till Capability

**\*Call for Pricing\***

\*Please Call for Current Discounts\*

# PLANTERS



## Belt Bulb Vegetable Planter

Used for Garlic, Onion, Flower or Other Bulbs

- Single Hopper for Multiple Rows
- Fixed Close Row Spacing Built to Order
- Ground Drive
- No Operator required on unit
- Few Moving Parts
- Multi Row units made to Order
- 3 Point Hitch mounted
- Minimum 20 hp Tractor recommended

**\$7,588.71**

## Cup Bulb Planter

Used for Garlic, Onion, Flower or Other Bulbs

- Adjustable Row Spacing
- Ground Drive
- Accurate Adjustable Bulb Placement
- Available in Single or Multi Row units
- 3 Point Hitch mounted
- Minimum 20 hp Tractor recommended

**\$7,806.35**



## Potato Planter

Heavier Built Cup planter with larger openings. This machine will have even spacing but require even sized seed bulbs, if bulbs are too small you may get double plants, or they may fall off of cups and you may get misses. Different sized cups are available.

**\$15,609.77**



## Wide Shoe Tulip Planter

Uses Tulip Flowers or Other Bulbs

- Single Hopper for Multiple Rows
- Fixed Close Row Spacing Built to Order
- Ground Drive
- No Operator required on unit
- Few Moving Parts
- Multi Row units made to Order
- 3 Point Hitch mounted
- Minimum 35 hp Tractor recommended

**\$9,944.22**



# WIZARD



**Wizard A-Series Walk Behind Seeder**

- Self-propelled/walk behind planter.
- 4.5 HP standard, gas power 4-stroke engine.
- One, two, or three row units.
- Row spacing as close as 9.84".
- Seed bed leveling plate.

**\$3,925 (Single Row)**



**Wizard E-Series Walk Behind Vacuum Seeder**

- Self-propelled/walk behind planter.
- Single row unit.
- Electric engine.

**\$4,104 (Single Row)**



**Wizard D-Series Tractor Mounted Seeder**

- Single toolbar mounted planter for small to medium tractors up to 50 HP.
- From one to five row units.
- Row spacing as close as 9.84".

**\$3,090 (Single Row)**



**Wizard F-Series Tractor Mounted Seeder**

- Tandem toolbar mounted planter for small to medium tractors up to 50 HP.
- From one to eight row units.
- Row spacing as close as 4.92".

**\$6,592.85 (Three Row)**



**Wizard G-Series Electric Tractor Mounted Seeder**

- 12V powered vacuum fan. does not require PTO.
- suited to plant small and large size seeds.
- equipped with a zero-emissions electric motor & rechargeable battery.

**\$,3375 (Single Row)**

**\* Call for Plate Pricing\***

## PLASTIC MULCH VACUUM SEEDER

- Designed to accurately control depth of seed planting.
- Various seed spacing can easily be adjusted from 3" to 27".
- Planting seeds of over 120 holes per minute can be achieved depending on spacing.
- Can easily offset the seeder unit w/ crank adjustment for planting multiple rows per bed top with one unit.
- Seeder unit floats on flat ground or raised beds.
- Uses MaterMacc vacuum metering unit.

**\$11,500 (Single Row)**

**\$17,500 (Two Row)**



**\* Call for Plate Pricing\***

\*Please Call for Current Discounts\*

# MODEL 95 TUNNEL LAYER



### Standard

- 64” Wires
- 6 Foot Plastic
- 14” High Tunnels
- 36” Between Legs of Wire

**\$8,295**

### Narrow

- 54” Wire
- 5 Foot Plastic
- 12” High Tunnels
- 27” Between Legs of Wire

**\$8,295**

### Wide

- 76” Wires
- 7 Foot Plastic
- 18” High Tunnels
- 48” Between Legs of Wire

**\$8,295**

## PLASTIC LIFTERS/WINDERS



### Plastic Lifter/Winder Combo

- Lifts & winds plastic/ drip tape in one pass while removing dirt clumps.
- Ground driven.

**\$5,560**



### Plastic Winder

- Winds plastic/ drip tape in one pass while removing dirt clumps.
- Ground driven.

**\$2,982**



### Plastic Lifter

- Unearths buried plastic w/ 20” disc.
- 2x2 sq in toolbar required.
- Sold as pair.

**\$1,280**



### Mulch Lifter – Model 98

- For lifting 3 ft and 4 ft plastic.

**\$2,995**

\*Please Call for Current Discounts\*

# PLASTIC MULCH LAYERS



## Sub-Compact Mulch Layer

- Adjustable 36" or 42" mulch width. 54" toolbar width.
- Raised bed option.
- Drip Tape option.

**\$1,670**



## MODEL 85

- Flat Plastic Layer.
- Automatic feeding w/ only a few, simple steps
- Lays either 3' or 4' foot rolls of plastic
- Extra roll holder and drip attachment optional

**\$2,058**



## MODEL 90

- New toolbar systems allows easy adjustment by moving clamps
- Can lay up any size roll from 3' to 6'
- Optional drip attachment available

**\$2,472**



## MODEL 92B 4"

### Raised Bed

- Gives 4" tall raised bed.
- Compact size tractor & up.
- Uses 3' or 4' plastic.
- Single & double drip tape options.

**\$3500**



## MODEL 94 8" Raised Bed

- Gives 8" tall raised bed.
- Uses 4" or 5" plastic w/ a 24" to 40" top (recommended 60 HP & up.)
- Single & double drip tape options.

**\$5,893**



## Drawbar Pulled Type

### Mulch Layer

- Pulls easily w/ 2 horses via drawbar.
- Lays 4' wide plastic & forms 4" high by 32" wide bed.

**\$2,740**



## 3 Row MODEL 92B

- Use of 3' plastic makes a bed with an 18" top.
- Use of 4' plastic makes a bed with a 24" top.
- Self-starting feature to start plastic.
- Optional single and double drip attachment is available.
- Optional Sub-surface Shank for placing tape 2-4" deep.

**\$14,800**

\*Please Call for Current Discounts\*

# DIBBLERS



## Model SG-12 Dibbler

- Adjustable handle-bar & offset capability.
- Completely made of steel
- Approximately 30lbs.



## Two-row Push Dibbler

- Model SG-12-2
- Row spacing ranges from 4" to 18"



## Step Dibbler Tool

- Model SG-5
- Row spacing ranges from 2" to 24"



## Model SG-12-3P

- Cat. 1 Hitch
- Widest row width for standard size is 30". Wider options available upon request
- Bare ground and plastic mulch compatible
- Adaptable for mounting to Mechanical Transplanter
- Mulch Layers and Bed Shapers- Model 90, Model 92, Model 92B, and Model 94
- Bottom picture shows Model SG-12-3P-3



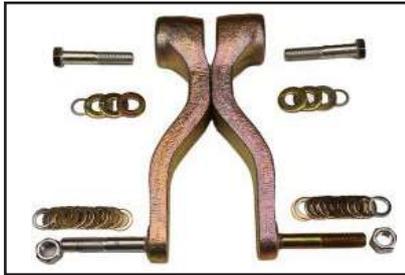
### Dibbler Wheel Spacing options:

POINTS	12	8	6	4	3	2	1
SPACING	5 1/2"	8"	11"	15"	18 1/2"	27"	51"

\*Call for Pricing\*



# PLANTER PARTS



## Norseman Gauge Wheel Arm

- John Deere MaxEmerge XP, XP Pro, MaxEmerge 5, ExactEmerge, John Deere 1530, 1535 drills with XP row units and Norseman planters.
- Kinze 3000 and 4000 series

**\$159- \$189**



## Norseman Scraper Ring

- Crafted to prevent debris buildup, maintaining optimal performance in various planting conditions.

**\$38**



## Norseman Super Whipper Row Cleaners

- Engineered for superior residue management and precise seed-bed preparation.

**\$930**



## Norseman Open Spoke Gauge Wheel

- Engineered for precision and durability, these wheels ensure uniform seed depth.

**\$200**



## PARALLEL ARM, UPPER, 16"

- Upper parallel linkage arm, 16" standard length. Fits John Deere MaxEmerge2, MaxEmerge Plus, MaxEmerge Pro, MaxEmerge XP, MaxEmerge XP Pro, MaxEmerge 5 & ExactEmerge planters & John Deere drills 1530, 1535 w/ MaxEmerge row units.

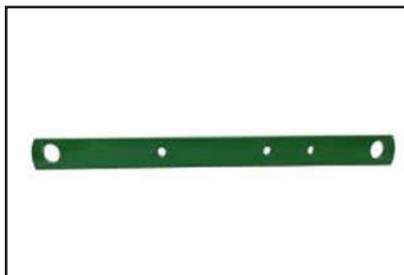
**\* Call for Pricing\***



## PARALLEL ARM, LOWER, 16"

- Lower parallel linkage arm, 16" standard length. Fits John Deere MaxEmerge2, MaxEmerge Plus, MaxEmerge Pro, MaxEmerge XP, MaxEmerge XP Pro, MaxEmerge 5 and ExactEmerge planters and John Deere drills 1530, 1535 with MaxEmerge row units.

**\*Call for Pricing\***



## PARALLEL ARM, UPPER, 23"

- Upper parallel linkage arm, 23" extended length. Fits John Deere MaxEmerge2, MaxEmerge Plus, MaxEmerge Pro, MaxEmerge XP, MaxEmerge XP Pro, MaxEmerge 5 & ExactEmerge planters & John Deere drills 1530, 1535 with MaxEmerge row units.

**\*Call for Pricing\***



## PARALLEL ARM, UPPER, 23"

- Lower parallel linkage arm, 16" standard length. Fits John Deere MaxEmerge2, MaxEmerge Plus, MaxEmerge Pro, MaxEmerge XP, MaxEmerge XP Pro, MaxEmerge 5 & ExactEmerge planters & John Deere drills 1530, 1535 with MaxEmerge row units.

**\*Call for Pricing\***



## A-1 Implements Disc Openers

- Sealed maintenance free bearing.
- Only replace blades not bearing in the future.

**\$76**

## MIST SPRAYERS

### PTO UNITS



**40 Gallon Scout**

- 70 FEET VERTICALLY AND 95 FEET HORIZONTALLY.
- 320 DEGREE ELECTRIC ROTATING FAN

**\$3,695**



**60 Gallon 3 Point PTO Terminator Mist Sprayer**

- 80 FEET VERTICALLY AND 140 FEET HORIZONTALLY.
- 210 DEGREE ELECTRIC ROTATING FAN

**\$5,100**



**100 Gallon 3 Point PTO Titan X Mist Sprayer**

- 100 FEET VERTICALLY AND 160 FEET HORIZONTALLY
- 210 DEGREE ELECTRIC ROTATING FAN

**\$6,250**



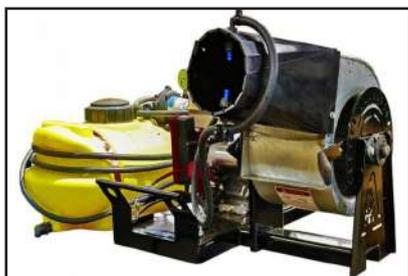
**100 Gallon 3 Point PTO Terminator Mist Sprayer**

- 80 FEET VERTICALLY AND 140 FEET HORIZONTALLY
- 210 DEGREE ELECTRIC ROTATING FAN

**\$5,611**

## MIST SPRAYERS

### GAS ENGINE UNITS



**15, 25, 40 Gallon ATV Boss Mist Sprayer**

- 40 FEET VERTICALLY AND 75 FEET HORIZONTALLY.
- 320 DEGREE MANUAL ROTATING FAN

**\$3,284.99 - \$3,950**



**40 Gallon UTV Cobra Mist Sprayer**

- 70 FEET VERTICALLY AND 95 FEET HORIZONTALLY
- 320 DEGREE ELECTRIC ROTATING FAN

**\$6,850**



**40 Gallon UTV Ranger Mist Sprayer**

- 70 FEET VERTICALLY AND 130 FEET HORIZONTALLY
- 210 DEGREE ELECTRIC ROTATING FAN

**\$7,850**



**60 Gallon UTV Ranger Mist Sprayer**

- 70 FEET VERTICALLY AND 130 FEET HORIZONTALLY
- 210 DEGREE ELECTRIC ROTATING FAN

**\$7,975**

\*Please Call for Current Discounts\*

# MIST SPRAYERS

## TRACTOR TANK MOUNTS

**\*Call for Pricing\***



**Case Front Mount Tank Rack**



**Case Side Mount Tank Rack**



**Case Side Mount Tear-drop Tank Rack**



**Case Front Mount Tank Rack**



**Case Side Mount Tank Rack**



**John Deere Front Rack Tank Rack**



**John Deere Side Mount Tank Rack**



**John Deere Side Mount Tank Rack**



**Newholland Front Mount Tank Rack**

## SUB-COMPACT 25HP & UNDER



Pricing continued on the next page.

\*Please Call for Current Discounts\*

NUMBER	DESCRIPTION	PRICE
1002-54	Hitch & toolbars - multi-purpose double 2" square toolbars, category-1 hitch	
20114	Attachments for 1002-52 Disk, 14", shank & clamp - price each	\$121.00
20025	Ripper shank attachment - includes ripper point	\$195.00
20026	Furrow shank w/ wings attachment - includes replaceable shovel	\$240.00
20006	Puncher wheel arms & shaft attachment dry wheels and plant punches sold separately	\$128.00
20009	Tongue attachment (hitch ball not included)	\$34.00
20091	(2) Parking stand asby - price for two	\$94.00
1063-53T	Toolbar cultivator - 3 - bar x 54" toolbar width, (9) s-tines & 4" shovels	\$950.00
21141	Options for 1063-54T Gauge wheel, 11 x 400 - 4 L & R for 2 sq	\$295.00
19155	Leveling bar asby	\$170.00
19225	Rolling basket asby, 5 - ft	\$703.00
1021-D	Bed shaper - adjustable 18 - 36" bed top. (2) 14" hilling disks, 54" toolbar width	\$1257.00
1023	Mulch layer - adjustable 36" or 42" mulch width, 54" toolbar width	\$1670.00
1025-N	Drip tape Applicator - no brake, non-rotating spool shaft for single roll	\$106.00
20262	ADD (1) drip tape guide / add price to complete basic model	\$66.00
20284	Drip tape surface guide	\$80.00
	Drip tape sub-surface guide	
	Option for 1052-N	
17550A	Mounting bracket insert - to install 20284 guide in 1002-54 receiver	\$36.00
	Double-roll shaft asby - replaces standard shaft	\$38.00
	ADD	
1116-N	Wheel planter - (1) rack, (1) seat, 54" toolbar width, NO tank	\$1229.00
1216-N	Wheel planter - (2) racks, (2) seats, 54" toolbar width, NO tank	\$1605.00
18830	Options for 1116-N, 1216-N Tank, 30-gal & plumbing pkg	\$350.00
17502	Two-wheel plumbing pkg	\$45.00
	ADD (1 or 2) water wheel pkg	
	Measure by punch spacing on water wheel	
26005	Water wheel pkg, 60" circ, 5-10-15-20-30-60 spacings	\$207.00
26605	Water wheel pkg, 66" circ, 5.5-11-16.5-22-33-66 spacings	\$218.00
27204	Water wheel pkg, 72" circ, 4-8-24-36-72 spacings	\$230.00
27209	Water wheel pkg, 72" circ, 4.5-9-18-24-36-72 spacings	\$230.00
27206	Water wheel pkg, 72" circ, 6-12-18-24-36-72 spacings	\$226.00
17712	ADD (as needed) plant punches	
17723	Plant punches, 1-1/2 x 2 pointed (small/cells/seeds)	\$3.00
	Plant punches, 2 x 3 pointed (medium/cells/all-purpose)	\$4.00
1006-PA	Wheel punches, add- on - single arm	\$88.00
20605	ADD (1 or 2) dry wheel pkg and (as needed) plant punches Measured by punch spacing on water wheel	
20665	Water wheel pkg, 60" circ, 5-10-15-20-30-60 spacings	\$142.00
20724	Water wheel pkg, 72" circ, 5.5-11-16.5-22-33-66 spacings	\$149.00
20729	Water wheel pkg, 72" circ, 4-8-24-36-72 spacings	\$154.00
20726	Water wheel pkg, 72" circ, 4.5-9-18-24-36-72 spacings	\$152.00
	Water wheel pkg, 72" circ, 6-12-18-24-36-72 spacings	\$147.00
	ADD (as needed) plant punches	
17002	Plant punches, 1-1/2 stud (marker - used without plastic mulch)	\$2.00
17712	Plant punches, 1-1/2 x 2 pointed (small/cells/seeds)	\$3.00
17723	Plant punches, 2 x 3 pointed (medium/cells/all-purpose)	\$4.00
1008-PKGA	Hand - crank winder w/ separating spool for plastic disposal	\$365.00
1008-PKGB	Hand - crank winder w/ (5) 18 x 12 spools to save drip tape	\$358.00
20204-44	Options for 1008 D-clamp asby, 2sq x 2q	\$27.00
18282	Toolbar pkg for 2 x 2 hitch receiver	\$70.00
16255	Spool, 18 x 12	\$26.00

**Model 1716****Model 1816****Model 2216****Model 2326****Model 4526**

1716	Water wheel planter - 60 gal single tank, 1 seat, 5 trays, cat - 1	\$1984.00
1816	Water wheel planter - 60 gal single tank, 2 seat, 10 trays, cat - 1	\$2472.00
19732	ADD (1) Multi-wheel pkg if 2 or 3 water wheels are used	
19733	Two- wheel plumbing and timing pkg	\$78.00
	Three- wheel plumbing, valve, and timing pkg	\$158.00
	Option for 1716, 1816	
19927A	Wide water wheel frame- maxium 36" rows	ADD \$96.00
2216	Water wheel planter - 125 gal single tank, 2 seats, 10 trays, cat - 1 or 2 930	\$2749.00
2326	Water wheel planter - 130 gal twin tanks, 2 seats, 10 trays, cat - 1 or 2 1020	\$2999.00
19762	Add (1) Multi-Wheel kg If 2, 3 or 4 water wheels are used	
19763	Two-Wheel Plumbing & Timing Pkg	\$80.00
19764	Three-Wheel Plumbing, Valve & Timing Pkg	\$160.00
	Four-Wheel Plumbing, Valve & Timing Pkg	\$200.00
	Option for 2216, 2326	
19944	Trailing Seat Asby with Gauge Wheel - for total (3) seats	\$368.00
19944	(2) Trailing Seat Asby with Gauge Wheel - price for (2), total (4) seats	\$736.00
	(2) Stack-a-Rack™ Asby, 5-ft -for four total racks/20 total trays - price for (2)	\$459.00
4526	Water Wheel Planter - 250 gal twin tanks, 2 seats, 20 trays, Cat-2 1390	\$3965.00
16762	Add (1) Multi-Wheel Pkg If 2, 3 or 4 water wheels are used	
19763	Two-Wheel Plumbing & Timing Pkg	\$80.00
19764	Three-Wheel Plumbing, Valve & Timing Pkg	\$160.00
	Four-Wheel Plumbing, Valve & Timing Pkg	\$200.00
	Options for 4416, 4526	
19944	Trailing Seat Asby with Gauge Wheel - for total (3) seats	\$368.00
19944	(2) Trailing Seat Asby with Gauge Wheel - price for (2), total (4) seats	\$736.00
18910	Rear Plant Rack Asby	\$151.00
17307	(2) Stack-a-Rack™ Asby, 5-ft - for six total racks / 30 total trays - price for (2)	\$459.00

Water wheel pkgs		
	add as needed to any planter model	
27206	Water Wheel Pkg, 72" circ, 6-12-18-24-36-72 spacings on wheel spacing with 2 x 3 punches 7-14-21-27-39-78	\$226.00
27208	Water Wheel Pkg, 72* circ, 8-12-24-36-72 spacings on wheel spacing with 2 x 3 punches 9-14-27-39-78	\$226.00
28004**	Water Wheel Pkg, 80" circ. 4-8-16-20-40-80 spacings wheel spacing with 2 x 3 punches 5-10-19-23-44-86	\$239.00
28005	Water Wheel Pkg, 80° circ, 5-10-20-40-80 spacings wheel spacing with 2 x 3 punches 6-12-23-44-86	\$234.00
28104	Water Wheel Pkg, 81° circ, 4.5-9-13.5-27-40-80 spacings wheel spacing with 2 x 3 punches 5.5-11-16-30-44-87	\$231.00
28403**	Water Wheel Pkg, 84° circ, 3.5-7-10.5-14-21-28-42-84 spacings wheel spacing with 2 x 3 punches 4.5-9-13-17-24-31-46-90	\$239.00
17537	** Popular multi-purpose choice Option for Water Wheel Pkgs Water Wheel Poly Cover	\$28.00
Plant Punches		
	Add (as needed) for number of wheels and plant spacing	
17712	Plant Punch, 1-1/2x2 Pointed (small / cells / seeds)	\$3.00
17723**	Plant Punch, 2x3 Pointed (medium / cells / all-purpose)	\$4.00
17724	Plant Punch, 2-1/24 Pointed medium/calls/beston larger wheels)	\$5.00
17735	Plant Punch, 3x5 Pointed (large / pots/ use on larger wheels)	\$8.00
	** Popular multi-purpose choice	

### Plant Punches

17712	1-1/2x2 pointed
17723	2x3 pointed
17724	2-1/2x4 pointed
17735	3x5 pointed



Water wheel package includes hole caps and plant punch fasteners. Plant punches sold separately.

27206	72x6	Number of punches	12	6	4	3	2	1		
		Spacing on wheel surface	6"	12"	18"	24"	36"	72"		
		Spacing with 2 x 3 punches	7"	14"	21"	27"	39"	78"		
27208	72x8	Number of punches	9	6	3	2	1			
		Spacing on wheel surface	8"	12"	24"	36"	72"			
		Spacing with 2 x 3 punches	9"	14"	27"	39"	78"			
28004	80x4	Number of punches	20	10	5	4	2	1		
		Spacing on wheel surface	4"	8"	16"	20"	40"	80"		
		Spacing with 2 x 3 punches	5"	10"	19"	23"	44"	86"		
		Spacing with 2-1/2 x 4 punches	6"	11"	20"	24"	46"	88"		
28005	80x5	Number of punches	16	8	4	2	1			
		Spacing on wheel surface	5"	10"	20"	40"	80"			
		Spacing with 2 x 3 punches	6"	12"	23"	44"	86"			
		Spacing with 2-1/2 x 4 punches	7"	13"	24"	46"	88"			
28104	81x4-1/2	Number of punches	18	9	6	3	2	1		
		Spacing on wheel surface	4-1/2"	9"	13-1/2"	27"	40-1/2"	81"		
		Spacing with 2 x 3 punches	5-1/2"	11"	16"	30"	44"	87"		
		Spacing with 2-1/2 x 4 punches	6"	12"	19"	32"	46"	89"		
28403	84x3-1/2	Number of punches	24	12	8	6	4	3	2	1
		Spacing on wheel surface	3-1/2"	7"	10-1/2"	14"	21"	27"	42"	84"
		Spacing with 2 x 3 punches	4-1/2"	9"	13"	17"	24"	31"	46"	90"
		Spacing with 2-1/2 x 4 punches	5"	10"	14"	18"	25"	33"	48"	92"

## Forecarts

### HD Ground Drive PTO Forecarts



#### The I & J Heavy Duty Ground Drive PTO Forecart features the following:

- ✓ Two speeds (375/500 RPM at 3.5mph)
- ✓ All enclosed oil-filled gear boxes
- ✓ 38" diameter wheels
- ✓ Suitable for running haybines, rotary cutters, etc.
- ✓ Optional brakes
- ✓ Optional 12v hydraulic power pack



## Pricing & Product Information

Description	Weight	Shipping Size	Price
Standard Ground Drive Forecart	650 LBS	66" L x 60" W x 48" H	\$4,000.00
Standard Ground Drive Forecart with 12 Volt Hyd. Lift 4 Way	720 LBS	66" L x 60" W x 55" H	\$5,150.00
Heavy Duty Ground Drive PTO Forecart	1450 LBS	72" L x 60" W x 48" H	\$7,000.00
Heavy Duty Ground Drive PTO Forecart with brakes	1460 LBS	72" L x 60" W x 48" H	\$7,730.00
Heavy Duty Ground Drive PTO Forecart with 12 Volt Hyd. Lift 4 Way	1520 LBS	72" L x 60" W x 55" H	\$8,150.00

\*Please Call for Current Discounts\*

# Plastic Mulch

## Black Embossed, Super Strength Plastic Mulch

1 mil is equal in strength to most 1.1 mil formulas.  
1.25 & 1.5 mil is for multiple seasons for strawberries, etc.

Item#	Size	Mil	Price 1-15	Price 20+
BE-33	3' x 3000' Black	1	\$67.00	\$65.00
BE-3315	3' x 3000' Black	1.5	\$100.00	\$97.50
BE-424	4' x 2400' Black	1	\$71.50	\$69.50
BE-42415	4' x 2400' Black	1.5	\$107.00	\$104.00
BE-44	4' x 4000' Black	1	\$115.00	\$112.00
BE-44125	4' x 4000' Black	1.25	\$144.00	16+ \$140.00
BE-544	54" x 4000' Black	1	\$133.50	\$130.00
BE-524	5' x 2400' Black	1	\$89.50	\$87.00
BE-54	5' x 4000' Black	1	\$144.00	\$140.00
BE-524125	5' x 2400' Black	1.25	\$111.50	\$108.50
BE-624	6' x 2400' Black	1	\$107.50	\$104.50

## Clear Embosses, Super Strength Plastic Mulch

1 mil is equal in strength to most 1.1 mil formulas. 0.8 mil is recommended to cover sweet corn. **Make sure that drip tape is buried in soil**, especially under clear plastic. Water droplets can magnify the sun and burn holes in the drip tape.

Item#	Size	Mil	Price 1-19	Price 20+
CE-44	4' x 4000' Clear	1	\$126.00	\$123.00
CE844	4' x 4000' Clear	0.8	\$101.50	\$99.00
CE-54	5' x 4000' Clear	1	\$157.00	\$153.50
CE854	5' x 4000' Clear	0.8	\$126.00	\$123.00
CE-62	6' x 2000' Clear	1	\$96.50	\$94.00

## Black Micro-Embossed Plastic Mulch



**MADE IN USA**

Superior stretchability and hugs tight to the bed. The least expansion in the sun. Recommended for raised beds in sandy soils or windy areas.

Item#	Size	Mil	Price 1-15	Price 20+
BEM44	4' x 4000'	1	\$122.00	\$119.00
BEM54	5' x 4000'	1	\$152.50	\$149.00
BEM44125	4' x 4000'	1.25	\$152.50	\$149.00

## Super Strength Embossed Plastic Mulch

This is a reinforced and highly durable embossed mulch which blocks weeds and prevents soil from coming in direct contact with fruit and fresh vegetables. It is tough to resist tearing, and can be laid at higher speeds. UV Stabilized, designed to last the duration of your growing season. Stretches very well and hugs tight to the bed. Works with practically all crop varieties.



## White on Black Embossed Plastic

An ultra reflective top white/grayish layer actually decreases the soil temperature to promote growth for heat sensitive crops or warm climates, and provides additional light reflection to the underside of foliage. The black (bottom) layer stops weed growth.



**MADE IN USA**



Item#	Size	Mil	Price 1-15	Price 16+
WB-34	3' x 4000' White/Black	1	\$119.00	\$116.00
WB-424	4' x 2400' White/Black	1.25	\$119.00	\$116.00
WB-44	4' x 4000' White/Black	1	\$156.00	\$152.00
WB-44-Grey	4' x 4000' Grey/Black (Poly Expert)	1	\$154.00	\$150.00
WB-54	5' x 4000' White/Black	1	\$195.00	\$190.00



## Metalized Aluminum on Black Plastic

Reflective metalized color on top deters insects and decreases the soil temperature, more than white on black. The black (bottom) layer stops weed growth. The heat trap is an 8-inch wide black strip in the center of the plastic, which keeps heat reduction to a minimum.

Item#	Size	Mil	Price 1-24	Price 25+
SB-424	4' x 2400' Silver/Black - with Heat Trap = 8" black strip in center	1.25	\$160.00	\$156.00
SB-44	4' x 4000' Silver/Black - NO Heat Trap	1	\$200.00	\$195.00
SB-54	5' x 4000' Silver/Black - NO Heat Trap	1	\$255.00	\$249.00

## BioGuard Biodegradable Mulch Film, formerly labeled Bio360

100% Biodegradable and compostable mulch film. Made of Mater-Bi, a starch based material. Novamont produces Mater-Bi with renewable resources such as starches from different non-GMO crops: corn & other cereals, potatoes and vegetable oils. Mater-Bi complies with international biodegradation and environmental standards, such as EN 13432 by Vincotte and ASTM D6400 by BPI, which guarantee complete degradation in soil without any toxic residues. Not OMRI listed due to carbon black.



Degradation rate depends on film thickness, climate and soil type. Starts breaking approximately 4-5 months on .6 mil, and 5-6 months on .8 mil. The manufacturer does not guarantee the film's life span due to different conditions such as non-compliance with laying and usage conditions, climatic conditions, etc. Lay relatively loose, and after a few hours or by the next day the mulch tightens and clings to the soil bed.

Black Bioguard				
Item#	Size	Mil	Price 1-19	Price 20+
BTB634	3' x 4000' Black	0.6	\$158.50	\$154.00
BTB6424	4' x 2400' Black	0.6	\$129.00	\$125.00
BTB644	4' x 4000' Black	0.6	\$205.00	\$199.00
BTB6544	54" x 4000' Black	0.6	\$232.00	\$225.00
BTB654	5' x 4000' Black	0.6	\$257.50	\$250.00
BTB844	4' x 4000' Black	0.8	\$270.00	\$262.00

White on Black & Grey BioGuard, decreases the soil temperature for heat sensitive crops or warm climates

Item#	Size	Mil	Price 1-19	Price 20+
BTG644	4' x 4000' Grey/Black	0.6	\$251.50	\$245.00
BTW644	4' x 4000' White/Black (most heat reduction)	0.6	\$353.00	\$345.00
BTG854	5' x 4000' Grey/Black	0.8	\$415.00	\$405.00



## Eco-One Oxo-Degradable Mulch Film

Environmentally sound degradation. Laboratory studies indicate that this degradable plastic breaks down into CO<sub>2</sub>, H<sub>2</sub>O and biomass without toxic residues. Degrades fully both above and below soil. Avoid excessive tension when laying, and plant immediately after laying. Liability from the manufacture is limited to product defects to the extent of the value of the film. Breakdown period WILL vary depending on the conditions. This film will break down faster in direct sunlight. We only recommend this film for crops where the foliage is casting shade over the film, such as vine crops.

Standard Lifespan Black				
Item#	Size	Mil	Price 1-9	Price 10+
E1B548	4' x 8000' Black	0.5	\$320.00	\$312.00
Standard Lifespan Black				
E1B648L	4' x 8000' Black	0.6	\$369.00	\$360.00

## Clear Eco-One for Sweet Corn

If you grow sweet corn under plastic, here's an option you don't want to miss. About 30-40 days after planting, or when the corn is 4-6 inches high, the plastic should start breaking up. You may have to slit it, depending on the weather. The advantage is that if the corn gets too high, you slit it and let it lay. At that point it keeps on putting heat in the soil. *Results may vary; no guarantee on breakup time.*

Short Lifespan Clear				
Item#	Size	Mil	Price 1-9	Price 10+
E1C449	4' x 9000' Clear	0.4	\$256.50	\$250.00
E1C4549	54" x 9000' Clear	0.4	\$284.00	\$277.00
E1C459	5' x 9000' Clear	0.4	\$305.00	\$297.00

# Drip Tape

## Aqua-Traxx® Azul™ Drip Tape



### Choosing a tape thickness:

- 6 Mil:** Short season / Use on trial basis to see if it works
- 8 Mil:** Standard / full season / under plastic or along rows
- 10 Mil:** Overwinter / rocky soil / more insect resistance.
- 15 Mil:** Multi-season for small fruits, etc. overwintering

### Choosing a tape flow rate:

The main thing to consider is the row length. Also consider: type of crop, zone/field size, available water and supply line size.

### For rolling fields we recommend Flow Control tape.

**4" 1.0:** for greenhouses, germinating beds, for row crops in sandy soils, up to 300' level rows.

**6 - 8":** for row crops in lighter soil, up to 500' level row

**12" .45:** standard for row crops, up to 600' level rows.

**12" .34:** for row crops, larger zones, to 800' level rows.

**16" .25 or 12" .22:** for row crops, to 1000' level rows.

Downhill sloping fields allow longer lengths.

Greater filtration area with patent-pending Multi-Stage filters. Optimized flow passages further resist clogging. Toro Aqua-Traxx® Azul™ drip tape offers an innovative emitter design that protects the labyrinth from debris

and maximizes clog resistance and performance. Now you get the same great quality and performance you expect from Aqua-Traxx with even more clog resistance and less worry.

Item #	Wall Thickness	Roll Length	Emitter Spacing	Flow Rate Per 100'	Price 1-15 Rolls	Price 16+ Rolls
AQ15	15 mil	4000'	12"	0.45 GPM	\$172.00	\$166.00
AQ10	10 mil	6000'	12"	0.45 GPM	\$169.00	\$163.00
AQ08	8 mil	7500'	12"	0.45 GPM	\$167.00	\$161.00
AQ06	6 mil	10,000'	12"	0.45 GPM	\$188.00	\$181.00
AQ101	10 mil	6000'	12"	0.34 GPM	\$169.00	\$163.00
AQ081	8 mil	7500'	12"	0.34 GPM	\$167.00	\$161.00
AQ081222	8 mil	7500'	12"	0.22 GPM	\$167.00	\$161.00
AQ061222	6 mil	10,000'	12"	0.22 GPM	\$188.00	\$181.00
AQ083	8 mil	7500'	8"	0.50 GPM	\$167.00	\$161.00
AQ080667	8 mil	7500'	6"	0.67 GPM	\$167.00	\$161.00
AQ0804134	8 mil	7500'	4"	1.34 GPM	\$167.00	\$161.00
AQ082	8 mil	7500'	16"	0.25 GPM	\$167.00	\$161.00
AQ061617	6 mil	10,000'	16"	0.17 GPM	\$188.00	\$181.00

All stock is 5/8" diameter. Some other spacing's, flows & 7/8" can be special ordered.



Tired of getting too much water in the low spots? Toro Aqua-Traxx Flow Control gives you uniform output regardless of pressure changes caused by hilly terrain and long runs. Control how much water your plants receive by increasing or decreasing the operating pressure, 10-25 PSI. For uniform output you need 8-10 PSI at the highest point of the field. Multiple laser slit outlet reduces startup clogging & impedes root intrusion. 150 mesh filtration required.



## FlowControl® Drip Tape

Item #	Wall Thickness	Roll Length	Emitter Spacing	Flow Rate Per 100'	Price 1-15 Rolls	Price 16+ Rolls
APC08	8 mil	7500'	12"	0.45 GPM	\$198.00	\$191.00
APC10	10 mil	6000'	12"	0.45 GPM	\$201.00	\$194.00
APC081	8 mil	7500'	12"	0.34 GPM	\$198.00	\$191.00
APC101	10 mil	6000'	12"	0.34 GPM	\$201.00	\$194.00
APC081222	8 mil	7500'	12"	0.22 GPM	\$198.00	\$191.00
APC101222	10 mil	6000'	12"	0.22 GPM	\$201.00	\$194.00
APC080667	8 mil	7500'	6"	0.67 GPM	\$198.00	\$191.00

All stock is 5/8" diameter. Some other spacing's, flows & 7/8" can be special ordered.



## Blue Layflat Hose

This general purpose blue layflat is a lightweight, tough and economical water discharge hose great for main supply lines. It will not rot or mildew, and coils flat for easy storage.

Item #	Description	Max PSI	Ships Via	Price	3+ Rolls
LAY015	1½" x 300' Coil Blue Layflat	80	UPS	\$118.00	\$114.50
LAY020	2" x 300' Coil Blue Layflat	80	UPS	\$132.00	\$128.00
LAY030	3" x 300' Coil Blue Layflat	70	Truck	\$272.00	\$264.00
LAY040	4" x 300' Coil Blue Layflat	70	Truck	\$390.00	\$380.00



## "Ironsides" Red Layflat Hose

Ironsides has a high working pressure, which makes it suitable for high pressure irrigation systems. It resists kinking and twisting, and may be coiled or racked when wet.



Item #	Description	Max PSI	Ships Via	Price	3+ Rolls
IRL015	1½" x 300' Coil Ironsides	150	UPS	\$300.00	\$292.00
IRL020	2" x 300' Coil Ironsides	150	UPS	\$390.00	\$380.00
IRL030	3" x 300' Coil Ironsides	150	Truck	\$590.00	\$575.00
IRL040	4" x 300' Coil Ironsides	125	Truck	\$895.00	\$875.00

## Blue Stripe® Hose

**Oval Hose** is a lightweight and economical tubing designed to be used for headlines and laterals on drip irrigation and micro-sprinkler systems. Use with insert fittings and clamps. Lays flat when not under pressure.

**Orchard Tubing** is a lightweight polyethylene tubing that is punchable, and is often used for a lateral distribution and supply hose for on-line drippers, or as a headline for small drip tape systems. More rigid than oval hose.

See page 52 for 1/2" diameter tubing.

Item #	Description	Max PSI	Ship Wt.	Price
BPT0071	¾" x 100' Orchard Tubing	54	8 lb.	\$22.00
BPT0075	¾" x 500' Orchard Tubing	54	36 lb.	\$64.00
BPT0101	1" x 100' Orchard Tubing	53	10 lb.	\$31.00
BPT0102	1" x 250' Orchard Tubing	53	24 lb.	\$64.00
FPT106	1" x 660' Oval Hose	42	56 lb.	\$132.00
FPT1515	1½" x 150' Oval Hose	21	16 lb.	\$51.00
FPT156	1½" x 600' Oval Hose	21	62 lb.	\$150.00
FPT2015	2" x 150' Oval Hose	21	24 lb.	\$62.00
FPT2045	2" x 450' Oval Hose	21	72 lb.	\$159.00
FPT302	3" x 200' Oval Hose	21	70 lb.	\$175.00



Item #	Size	Price /ft.	Item #	Size	Price /ft.
TIG015	1½"	\$2.60	TIG030	3"	\$7.20
TIG020	2"	\$3.50	TIG040	4"	\$11.30

15% Discount on 100' rolls.

## TigerFlex Suction Hose

TigerFlex is a flexible, high quality, heavy duty suction hose.

**WE CUT TO ANY LENGTH.**

## Black Poly Pipe

Typically used for underground applications.

Item #	Size	Max PSI	Price
BPP07100	¾" x 100'	100	\$28.50
BPP10100	1" x 100'	100	\$35.00
BPP10300	1" x 300'	100	\$99.00



Also available: SDR Underground PVC pipe. Call for current prices and availability.

## Schedule 40 PVC Pipe

Item #	Size	Price /ft.	Item #	Size	Price /ft.
S40005	½"	\$0.58	S40020	2"	\$1.15
S40007	¾"	\$0.60	S40030	3"	\$3.00
S40010	1"	\$0.75	S40040	4"	\$4.00
S40015	1½"	\$1.10			

# Drip Tape Fittings

Tape Loc x 0.25" Barb  
Tape Loc x 0.40" Barb



Item #	Description	1-99	100+
DTF250B	Tape Loc x 0.25"	\$0.40	\$0.35
DTF400B	Tape Loc x 0.40"	\$0.40	\$0.35

Tape Loc x 0.25" Barb w/ Valve



For 3/4" mainline.

Item #	Description	1-49	50+
DTF250BV	0.25" Valve	\$1.50	\$1.35

Tape Loc x 0.42" Barb w/ Valve



Most popular.

Item #	Description	1-49	50+
DTF400BV	0.42" Valve	\$1.50	\$1.35

Tape Loc x 0.425" Barb w/ Valve

Rubber grommet on barb for better seal.



Item #	Description	1-49	50+
DTF425BV	Yellow with Blue Handle	\$1.50	\$1.35

Tape Loc x 0.42" Barb with Valve



Item #	Description	1-49	50+
DTF420BV	0.42" Valve Flat Handle	\$1.50	\$1.35

Tape Loc Coupling



Item #	Description	1-49	50+
DTFCPT	Coupling	\$0.45	\$0.40

Tape Loc Coupling with Valve



Item #	Description	1-49	50+
DTFCPTBV	Coupling with Valve	\$1.55	\$1.40

Tape Loc End Plug with Ring



Item #	Description	1-99	50+
DTFEND	End Plug	\$0.45	\$0.40

Drip Tape End Sleeve

Fold tape and slide over end. Cut from 3/4" orchard tubing.



Item #	Description	1-49	50+
DTFCAP	End Sleeve	\$0.10	\$0.09

Tape Loc Elbow



Item #	Description	1-49	50+
DTFELL	Tape Loc Elbow	\$1.60	\$1.45

Tape Loc Tee



Item #	Description	1-49	50+
DTFTEE	Tape Loc Tee	\$1.35	\$1.25

Tape Loc x Layflat Fittings



Item #	Description	1-49	50+
DTFFHC	No valve	\$0.95	\$0.80
DTFFHCBV	With valve	\$1.75	\$1.55

Hex Installation Tool

For Layflat fittings above. Gives more leverage. Not a punch.



Item #	Description	Price
DTFHEX	Hex Installation Tool	\$6.25

Tape Loc x Automatic Flush End



Item #	Description	Price
DTFFCH	Tape Loc x Auto flush	\$1.70

Tape Loc x Female Hose Swivel



Item #	Description	1-49	50+
DTFFHS	Tape Loc x FHT	\$1.35	\$1.25

Tape Loc x Male Thread Adapters



Item #	Description	Price
DTFMA	Tape Loc x 1/2" MPT	\$0.80
DTFMHT	Tape Loc x MHT	\$0.70

Mistake Plug for 0.420" holes



Item #	Description	1-49	50+
DTFMP400	Mistake Plug	\$0.30	\$0.28

Goof Plugs

Plugs holes 1/8" - 1/4" in diameter in poly tubing.



Item #	Description	Price
DTFMP1	Goof Plugs, Pack of 10	\$0.50



Oval Hose		DTF250B .25" barb. No valve, use DTFAP03 punch
		DTF400B .40" barb. No valve, use insertion punch #
Flatube		DTF400BV .42" barb black w/blue handle Use insertion punch #
		DTF420BV .42" barb black wired handle Easiest to turn
for 1/2" or 3/4" Orchard Tubing use .25" barb		DTF425BV .425" barb yellow w/blue handle May seal better
		DTFMP400 Mistake Plug fits holes made for .40/.42/.425 barb
		DTFMP1 Goof Plug .25" barb
		DTF250BV .25" barb black w/blue handle use DTFAP03 punch

# Insert punch thru either of these 2 fittings. Push while twisting to cut & insert in one step.


Install a valve anywhere in a row of drip tape.

Splice together rolls or repair drip tape.

Plugs drip tape at end. Ring allows securing.

## Punches for Oval Hose Serrated Insertion Punch

Insert punch through fitting, punch hole and insert fitting in one step. Works with DTF400B & DTF400BV.



Item #	Description	Price
DTFACT400	Insertion Punch	\$35.50

## Ejector Punch

Threaded tips are replaceable. Works with all sizes orchard tubing and oval hose.



Item #	Description	Price
DTFAP02	Punch, 2.5 MM; For drippers, 1/8" & 3/16"	\$10.00
DTFAP03	Punch, 3.0 MM; For COT1, 1/4" barbs	\$10.00
DTFAP07	Punch, 7.0 MM; For .40/.42/.425" barbs	\$10.00
DTFAPT02	2.5 Replacement Tip	\$4.80
DTFAPT03	3.0 Replacement Tip	\$4.80
DTFAPT07	7.0 Replacement Tip	\$4.80

## Red Deluxe Serrated Punch

For .40" & .420" barbs into tubing or Layflat.



Item #	Description	Price
DTFDP400S	Red Serrated Punch	\$35.50

## Layflat Punch

Notches hole in Layflat for DTFHC and DTFHCBCV drip tape fittings.



Item #	Description	Price
DTFFHP2	16mm Layflat Punch	\$64.00

## Barb to Barb Couplings



Item #	Description	Price
TB 250	1/4" Barb Coupling	\$0.24
TB 400	3/8" Barb Coupling	0.36

## Hook-up Tube

1/4" can be used with fittings: DTFTPA, DTF250B&BV.

3/8" can be used with fittings: DTF420BV, DTF400B&BV, DTF400PIA&PIAG.

Item #	Description	Price
BPT002	1/4" x 100' (.250 x .350")	\$9.00
BPT0021	1/4" x 1,000' (.250 x .350")	\$64.00
BPT003	3/8" x 100' (.375 x .455")	\$9.00
BPT0031	3/8" x 1,000' (.375 x .455")	\$64.00

## Gauge Stakes

Use in Flatube header lines. 24" tube with 1/4" barb.

Gauge not included.

See page 50 for gauges.



Item #	Description	Price
DTFGS	Gauge Stake	\$3.50

## .40" Barb x 1/2" Soc Adapter



Item #	Description	Price
DTF400PIA	.40" Barb x 1/2" Soc Adp.	\$0.75

## .40" Barb x 1/4" FPT Gauge Adapter

Gauge not included.

See page 50 for gauges.



Item #	Description	Price
DTF400PIAG	.40" Barb x 1/4" FPT	\$2.00

## Brass Gate Valves

Full flow, FPT x FPT.



Item #	Size	Price
BGV005	1/2" FPT	\$8.00
BGV007	3/4" FPT	\$10.50
BGV010	1" FPT	\$15.00
BGV012	1 1/2" FPT	\$20.00
BGV015	1 3/4" FPT	\$26.00
BGV020	2" FPT	\$38.00
BGV030	3" FPT	\$94.00
BGV040	4" FPT	\$146.00

## Brass Swing Check Valve

Full flow, FPT x FPT



Item #	Size	Price
BSV005	1/2" FPT	\$10.00
BSV007	3/4" FPT	\$10.50
BSV010	1" FPT	\$13.50
BSV012	1 1/2" FPT	\$21.50
BSV015	1 3/4" FPT	\$27.00
BSV020	2" FPT	\$44.00
BSV030	3" FPT	\$96.00
BSV040	4" FPT	\$145.00

## Brass Ball Valves, FPT



Item #	Size	Price
BBV005	1/2" FPT	\$8.50
BBV007	3/4" FPT	\$10.80
BBV010	1" FPT	\$16.50
BBV012	1 1/2" FPT	\$24.50
BBV015	1 3/4" FPT	\$32.50
BBV020	2" FPT	\$47.50
BBV030	3" FPT	\$165.00
BBV040	4" FPT	\$280.00

## Aluminum and Poly Camlock Quick Couplers

Specify material, part and size when ordering

Sample part number:

QCE015

QC = Aluminum

QCP = Poly



	Part A Male x FPT	Part B Female x MPT	Part C Female x Insert	Part D Female x FPT	Part E Male x Insert	Part F Male xMPT	Part DC Female Cap	Part DP Male Plug	Gaskets QCG	Handles QCH
1" Aluminum	-	-	\$7.00	\$7.15	\$3.25	\$4.40	\$9.00	-	-	-
1 1/2" Aluminum	\$4.60	\$10.50	\$10.75	\$10.60	\$4.90	\$5.50	\$10.00	\$3.50	\$1.20	\$4.40
1 1/2" Poly	\$4.00	\$9.50	\$9.50	\$10.00	\$4.25	\$4.25	\$10.00	\$3.50	\$1.20	\$4.40
2" Aluminum	\$5.00	\$11.40	\$12.00	\$11.80	\$7.00	\$6.50	\$11.25	\$4.50	\$1.20	\$4.40
2" Poly	\$4.25	\$10.60	\$10.80	\$11.00	\$4.50	\$4.50	\$11.25	\$4.50	\$1.20	\$4.40
3" Aluminum	\$8.25	\$20.00	\$21.00	\$19.00	\$12.50	\$11.50	\$18.00	\$7.50	\$1.40	\$6.50
3" Poly	\$6.75	\$15.25	\$16.00	\$16.50	\$8.00	\$8.00	\$18.00	\$7.50	\$1.40	\$6.50
4" Aluminum	\$13.50	\$24.00	\$27.50	\$27.00	\$20.00	\$20.00	\$24.00	\$12.50	\$1.70	\$6.50

## PVC Ball Valves



Item #	Size	Price
<b>Threaded:</b>		
BVF005	½" FPT	\$1.98
BVF007	¾" FPT	\$2.60
BVF010	1" FPT	\$3.95
BVF012	1½" FPT	\$5.25
BVF015	1¾" FPT	\$7.00
BVF020	2" FPT	\$10.00
BVF030	3" FPT	\$37.00
BVF040	4" FPT	\$65.00

<b>Socket:</b>		
BVS005	½" SOC	\$1.98
BVS007	¾" SOC	\$2.60
BVS010	1" SOC	\$3.95
BVS012	1½" SOC	\$5.25
BVS015	1¾" SOC	\$7.00
BVS020	2" SOC	\$10.00
BVS030	3" SOC	\$37.00
BVS040	4" SOC	\$65.00

## Brass Ball Valves, Insert



Item #	Size	Price
BBVI007	¾"	\$22.50
BBVI010	1"	\$25.00
BBVI012	1½"	\$42.00

## Pressure Gauges

2" Face. ¼" MPT base.



Item #	Description	Price
PG 030	0-30 PSI	\$4.00
PG 060	0-60 PSI	\$4.00
PG 100	0-100 PSI	\$4.00
PG 200	0-200 PSI	\$4.00
PGB100	Backmount 0-100 PSI	\$5.00

## Liquid-filled Gauges

2½" Face. ¼" MPT base.

Item #	Description	Price
PGL100	0-100 PSI	\$9.70
PGL200	0-200 PSI	\$9.70
PGL300	0-300 PSI	\$9.70
PGL600	0-600 PSI	\$17.40

## PVC Union Ball Valves

Includes both SOC and FPT adapters.



Item #	Size	Price
BUS005	½" SOC	\$7.80
BUS007	¾" SOC	\$9.70
BUS010	1" SOC	\$13.50
BUS015	1½" SOC	\$25.50
BUS020	2" SOC	\$35.00

## Steel Suction Strainers



Item #	Description	Price
SS 021	2" FPT, Fine 1/8" Holes	\$17.00
SS 020	2" FPT, 3/8" Holes	\$17.00
SS 030	3" FPT, 3/8" Holes	\$22.00
SS 040	4" FPT, 3/8" Holes	\$26.00

## Steel Insert Fittings



GPF1429



GPF1436

Item #	Description	Price
GPF1429015	1½" Coupling	\$5.40
GPF1429020	2" Coupling	\$6.00
GPF1429030	3" Coupling	\$12.90
GPF1429040	4" Coupling	\$19.00
GPF1436015	1½" Male Adp.	\$5.00
GPF1436020	2" Male Adp.	\$5.80
GPF1436030	3" Male Adp.	\$13.00
GPF1436040	4" Male Adp.	\$19.20

## Black Iron Pipe Fittings

Item #	Description	Price
BIF412010	1" 90° Street El, FPT x MPT	\$6.50
BIF412020	2" 90° Street El, FPT x MPT	\$20.00
BIF439251	2 x 1½" Bushing, MPT x FPT	\$8.00
BIF439339	3 x 2½" Bushing, MPT x FPT	\$15.00
BIF439420	4 x 2" Bushing, MPT x FPT	\$27.50
BIF439422	4 x 3" Bushing, MPT x FPT	\$27.50
BIF884040	1 x 4" Nipple, MPT	\$4.50
BIF886035	1½ x 3½" Nipple, MPT	\$7.00
BIF887040	2 x 4" Nipple, MPT	\$9.50
BIF888040	2½ x 4" Nipple, MPT	\$20.00
BIF889040	3 x 4" Nipple, MPT	\$29.00
BIF890050	4 x 5" Nipple, MPT	\$34.00

## Brass Boiler Drain Valves



MPT inlet x Male Garden Hose Thread outlet.

Item #	Size	Price
BBD005	½" MPT Base	\$7.25
BBD007	¾" MPT Base	\$9.00

## SS Hose Clamps

All stainless steel, won't rust.



Item #	Size	Ea.	Bag/10
SSC004	#4	\$0.70	\$6.50
SSC005	½"	\$0.83	\$7.80
SSC007	¾"	\$0.84	\$7.90
SSC010	1"	\$0.85	\$8.00
SSC015	1½"	\$0.86	\$8.10
SSC020	2"	\$0.87	\$8.20
SSC030	3"	\$1.35	\$13.00
SSC040	4"	\$1.50	\$14.00

## Super Clamps

Heavy-duty bolt clamps.



Item #	Size	Range	Price
<b>Fits Layflat discharge:</b>			
SC 015	1½"	40-43	\$4.00
SC 02	2"	56-59	\$4.90
SC 03	3"	80-85	\$6.70
SC 04	4"	104-112	\$7.40
<b>Fits suction hose:</b>			
SC 0150	1½"	44-47	\$4.00
SC 020	2"	60-63	\$4.90
SC 030	3"	86-91	\$6.70
SC 040	4"	112-121	\$7.40

## PVC Compression Couplings



Use for repair of PVC pipe and the replacement of valves and fittings in an existing PVC system without digging up large sections of pipe. Buna-N seals.

Item #	Size	Price
SPF7015	1½"	\$7.70
SPF7020	2"	\$11.50
SPF7030	3"	\$25.00
SPF7040	4"	\$31.00

## Garden Hose Shut-offs

All standard garden hose connections, FHT x MHT.



Item #	Description	Price
GHF771	Long Handle Plastic Shut-off	\$1.85
GHF77	Short Handle Plastic Shut-off	\$2.60
BBV0075	Dramm® Brass Shut-off	\$18.50

## Garden Hose Wye

Standard garden hose connections, FHT x MHT, with shut-offs on both outlets.



Item #	Description	Price
GHF770	Plastic Wye	\$2.50
BBV0077	Brass Wye	\$7.60

## Garden Hose Ends

Heavy-duty brass fittings include zinc clamp. Fits most garden hoses.



Item #	Description	Price
BGH7F	5/8" - 3/4" Female	\$5.00
BGH7M	5/8" - 3/4" Male	\$4.50
BGH7C	5/8" - 3/4" Mender	\$6.75

## Plastic Garden Hose Ends and Couplers

Plastic fittings include plastic clamp.



Item #	Description	Price
GHF07	Plastic, 5/8" - 3/4" Female Hose End	\$1.30
GHF17	Plastic, 5/8" - 3/4" Male Hose End	\$1.30
GHF27	Plastic, 5/8" - 3/4" Hose Coupler	\$1.40
GHF05	Plastic, 1/2" - 5/8" Female Hose End	\$1.30
GHF15	Plastic, 1/2" - 5/8" Male Hose End	\$1.30
GHF25	Plastic, 1/2" - 5/8" Hose Mender	\$1.30

## Brass Hose Ends

Connect to any hose. Clamps not included.



Item #	Description	Price
BGH005	1/2" Insert, Set = both FHT & MHT	\$6.75
BGH006	5/8" Insert, Set = both FHT & MHT	\$6.75
BGH007	3/4" Insert, Set = both FHT & MHT	\$6.75
BGH010F	1" Insert x Female Hose End	\$5.50
BGH010M	1" Insert x Male Hose End	\$4.50

## Garden Hose Quick Couplers

These handy quick couplers are designed without a valve for maximum flow and allow water flow when disconnected.



Item #	Description	Price
BGH95	Brass Female Quick Coupler	\$5.00
BGH97	Brass Male Quick Coupler	\$2.50

## Insulated Pistol Grip Nozzle

This Gilmour® nozzle has an insulated molded grip. Heavy-duty zinc body, male hose threaded front.



Item #	Description	Price
GGA310	Gilmour® Pistol Grip Nozzle	\$6.50

## Garden Hose Adapters



Item #	Description	Price
BGH1624	Brass MHT x 3/4" MPT (1/2" FPT)	\$2.95
BGH1625	Brass MHT x MHT (1/2" FPT)	\$2.95
BGH1629	Brass FHT swivel x 1/2" MPT	\$4.90
BGH1635	Brass FHT swivel x 3/4" FPT	\$3.55
BGH1632	Brass FHT x FHT swivel	\$3.55
GHF87	Plastic FHT swivel x 3/4" MPT	\$3.30

## Garden Hose PVC Adapters



Item #	Description	Price
GHF37	MHT x 1/2" Soc (1" Spig)	\$1.30
GHF47	FHT x 1/2" Soc (1" Spig)	\$3.30
GHF57	MHT x 1/2" Soc (3/4" Spig)	\$1.30
GHF67	FHT x 1/2" Soc (3/4" Spig)	\$3.30

## Garden Hose Washers & End Cap



Item #	Description	Price
GHF12	Black Hose Washers (Pack of 12)	\$1.15
GHF12R	HD Red Hose Washers (Bag of 10)	\$1.15
GHF7	Garden Hose End Cap, FHT	\$0.38

## Clear Vinyl Tubing

Can be used for replacement suction hose on injectors.

15% Discount on 100' rolls.

Item #	Size	Max PSI	Price Per Ft.
CVT002	1/4"	55	\$0.21
CVT003	3/8"	45	\$0.28
CVT005	1/2"	30	\$0.62
CVT010	1"	25	\$1.04

## Clear Braided Hose

15% Discount on 100' rolls.

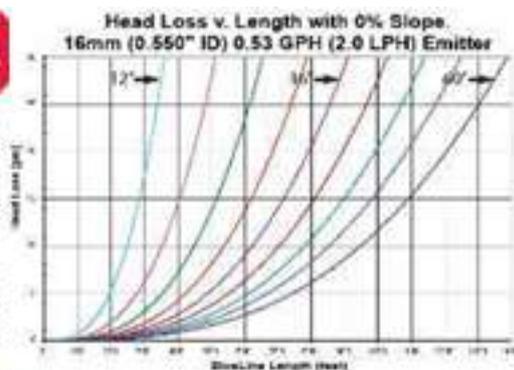
Item #	Size	Max PSI	Price Per Ft.
CBH005	1/2"	200	\$1.00
CBH006	3/4"	200	\$1.35
CBH007	1"	150	\$1.55
CBH010	1 1/2"	125	\$2.30

## BlueLine® PC Pressure Compensating Dripline

### 18MM (½") Orchard Tubing with Built-In Emitters

Features a unique, built-in flow regulated emitter, providing a constant discharge over a pressure range of 15-60 PSI. The emitter is inseparably welded to the inside wall of the tubing as it is extruded in the manufacturing process. Emitters are factory installed at pre-determined intervals. This one-piece construction prevents damage and loss of drippers, eliminates hole punching and handling damage, reduces installation costs.

BlueLine™ PC may be hung on a wire, laid on the surface or buried. Typically used in orchards, vineyards, over top of containers/mum pots, nurseries, or buried in fields for subsurface applications. **Stock Flow: 0.53 GPH per emitter.**



Item #	Description	Emitter Spacing	Price
DRP1812	18 MM (½") x 1000'	12" spacing	\$150.00
DRP1818	18 MM (½") x 1000'	18" spacing	\$145.00
DRP1824	18 MM (½") x 1000'	24" spacing	\$135.00
DRP1830	18 MM (½") x 1000'	30" spacing	\$133.00
DRP1836	18 MM (½") x 1000'	36" spacing	\$130.00
DRP16	Plastic Stake to secure ½" tubing		\$0.22



Buried inlets ensure that sediment deposits at the bottom of the tube do not enter the emitter.



Screen filter forces the emitter encourages debris to pass by rather than enter the inlets.

## Blue Stripe® Orchard Tubing

This lightweight polyethylene tubing is punchable and is often used for a lateral distribution and supply hose for on-line drippers and can be used as a headline for small drip tape systems.

See page 15 for larger diameter tubing.

Item #	Description	Max PSI	Roll Wt.	Price
BPT0051	½" x 100' Orchard Tubing	68 PSI	5 Lbs.	\$17.00
BPT0055	½" x 500' Orchard Tubing	68 PSI	22 Lbs.	\$45.00
BPT0059	½" x 1,000' Orchard Tubing	68 PSI	44 Lbs.	\$86.00
DRP16	Plastic Stake to secure ½" tubing			\$0.22



## Easy Loc Fittings

For ½" Orchard Tubing and 18 MM BlueLine PC.



Item #	Description	1-49	Bag/50
HL 400B	0.40" Barb x 600s Loc	\$0.60	\$0.55
HL 400BV	0.40" Barb x 600s Loc w/Valve	\$1.50	\$1.35
HL CPT	Coupling, 600s Loc	\$0.55	\$0.50
HL CPTBV	Coupling, 600s Loc with Valve	\$1.85	\$1.65
HL ELL	90° Ell, 600s Loc	\$1.20	\$1.10
HL TEE	Tee, 600s Loc	\$1.40	\$1.25
HL FHC	Layflat x 600s Loc	\$1.20	\$1.10
HL FHS	Hose Adapter, FHT x 600s Loc	\$1.10	\$1.00
HL MHT	Hose Adapter, MHT x 600s Loc	\$0.65	\$0.60
HL MA	1/2" MPT x 600s Loc	\$0.50	\$0.45
HL FCHH	End, Auto-Flush x 600s Loc	\$1.70	\$1.55

## Black Nylon Cable Ties, UV Treated

Item #	Description	Tensile Strength	Max Bundle Diameter	Price
BCT05	5" Black, 100/bag	40 lb.	1.25"	\$4.00
BCT11	11" Black, 100/bag	50 lb.	3"	\$6.00

## PC Anti Drain Drippers

These can be punched into orchard tubing and are used in vineyards, orchards, as well as nurseries and greenhouses. Anti-drain and pressure compensating.

Operating Pressure: 15-60 PSI.

Item #	Description	Price	500+
PCD005	Blue, 0.5 GPH (2 LPH)	\$0.25	\$0.22
PCD010	Gray, 1.0 GPH (4 LPH)	\$0.25	\$0.22
PCD020	Red, 2.1 GPH (8 LPH)	\$0.25	\$0.22



## Goof Plugs

Plugs holes 1/8" - 1/4" in diameter in poly

Item #	Description	Price
OTFMP1	Goof Plugs, Pack of 10	\$0.50



## Easy Punches

Easy to hold and easy to use. Punches ½" and ¾" orchard tubing. Remove blue insert for ¾" tubing.



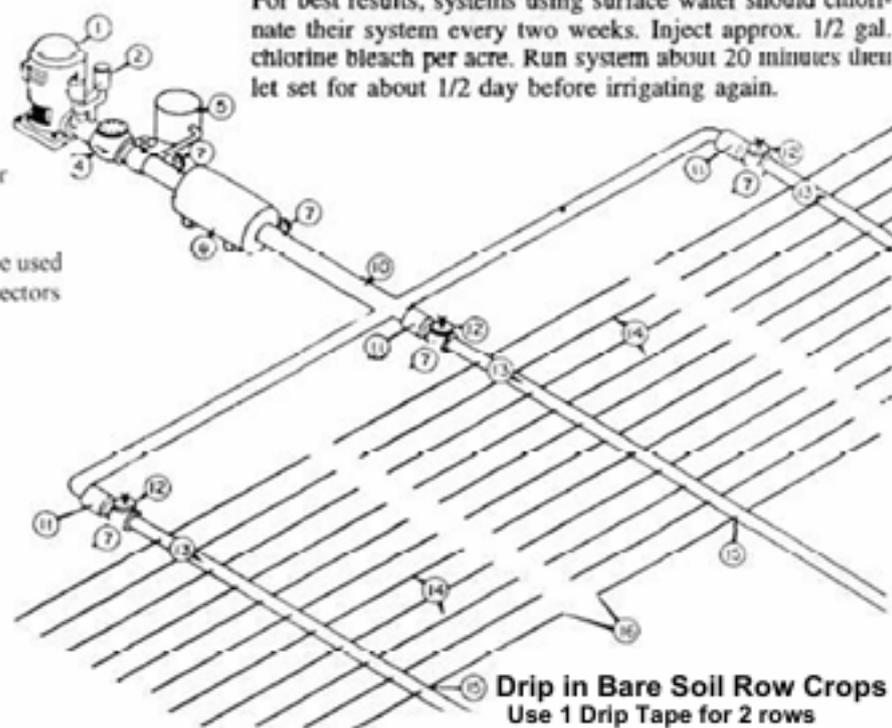
Item #	Description	Use	Price
OTFDP4B	Easi-Punch w/ 3 MM Blue Tip	PC drippers; 1/8" & 3/16" Barbs	\$15.00
OTFDP4G	Easi-Punch w/ 4 MM Green Tip	Drip tape fittings, 1/4" barbs	\$15.00

### Replacement Punch Tips

OTFDPTB	3 MM (.100") Blue Replacement Tip	\$9.00
OTFDPTG	4 MM (.150") Green Replacement Tip	\$9.00

## TYPICAL DRIP SYSTEM LAYOUT

1. Pump
2. Pressure Relief Valve and/or Switch
4. Check Valve often installed on pump or fertilizer injector
5. Fertilizer Injector, MIC is best choice for most fields.
7. Pressure Gauges often installed on filter or fertilizer injector
8. Screen filter for clean well, Sand Filter for surface water.
10. Mainline, often SDR26 Underground or Layflat
11. Pressure Regulators, pump throttle and/or zone size can be used
12. Gate Valve, not required if using valves on drip tape connectors
13. Submains, Oval Hose or Flatube is best choice.
14. Drip Tape Laterals
15. Drip Tape Connectors, Numerous types available
16. Drip End Sleeves, Automatic flush valves or knotted.



## SURFACE WATER CHORINATION

For best results, systems using surface water should chlorinate their system every two weeks. Inject approx. 1/2 gal. chlorine bleach per acre. Run system about 20 minutes then let set for about 1/2 day before irrigating again.

### PVC PIPE (SDR-26)

Size	1/2"	2"	3"	4"	6"
Flow	PSI	PSI	PSI	PSI	PSI
GPM	Loss	Loss	Loss	Loss	Loss

1	0.00				
2	0.01	0.00			
3	0.02	0.01			
4	0.04	0.01			
5	0.06	0.02			
6	0.08	0.03	0.00		
7	0.10	0.03	0.01		
8	0.13	0.04	0.01		
9	0.16	0.05	0.01		
10	0.20	0.07	0.01		
11	0.23	0.08	0.01		
12	0.28	0.09	0.01	0.00	
14	0.37	0.12	0.02	0.01	
16	0.47	0.16	0.02	0.01	
18	0.58	0.20	0.03	0.01	
20	0.71	0.24	0.04	0.01	
22	0.85	0.29	0.04	0.01	
24	1.00	0.34	0.05	0.02	
26	1.15	0.39	0.06	0.02	
28	1.32	0.45	0.07	0.02	
30	1.50	0.51	0.08	0.02	
35	2.00	0.68	0.10	0.03	0.00
40	2.56	0.86	0.13	0.04	0.01
45	3.10	1.08	0.16	0.05	0.01
50	3.88	1.31	0.20	0.06	0.01
55	4.62	1.56	0.24	0.07	0.01
60	5.43	1.83	0.28	0.08	0.01
65	6.30	2.12	0.32	0.09	0.01
70	7.23	2.44	0.37	0.11	0.02
75	8.21	2.77	0.42	0.12	0.02
80		3.12	0.47	0.14	0.02
85		3.49	0.53	0.16	0.02
90		3.88	0.59	0.17	0.03
95		4.29	0.65	0.19	0.03
100		4.72	0.72	0.21	0.03
110		5.63	0.86	0.25	0.04
120			1.01	0.30	0.05
130			1.17	0.34	0.05
140			1.34	0.39	0.06
150			1.52	0.45	0.07
160			1.71	0.50	0.08
170			1.92	0.56	0.09
180			2.13	0.63	0.10
190			2.36	0.69	0.11
200			2.59	0.76	0.12
225			3.22	0.95	0.14
250			3.91	1.15	0.18
275				1.37	0.21
300				1.61	0.25
325				1.87	0.29

### PVC FITTING ABBREVIATIONS

Soc or slip = Slides over pipe  
 Spig or spigot = Slides inside of fitting  
**HOSE FITTING ABBREVIATIONS**  
 Insert or barb = fits inside hose, use clamp  
 Small dia. barb can push into hole in hose

### Feet of Row

(Drip, Plastic, Etc.) per Acre

Spacing	Lineal Ft.
2'	21,780
2.5'	17,424
2.67'	16,335
3'	14,520
3.5'	12,445
4'	10,890
4.5'	9,680
5'	8,712
5.5'	7,920
6'	7,260
6.5'	6,700
7'	6,222
8'	5,445
9'	4,840
10'	4,356
12'	3,630

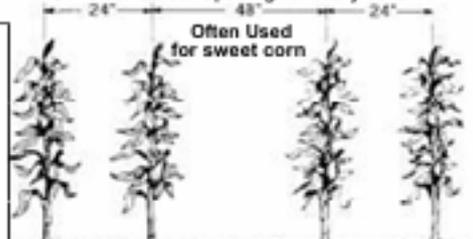
### DRIP TAPE TIPS

Bury it whenever possible especially under plastic so that the plastic layer drag does not damage it. This keeps it from moving around from expansion & contraction. Also minimizes chance of animal or rodent damage. It is also recommended to bury tape with outlets up to avoid potential clogging. Bury tape under plastic 6-8" off center if you plan to plant a single row of crop.

### Drip in Bare Soil Row Crops

Use 1 Drip Tape for 2 rows

Consider Closer Spacing for every other row



### Vinylflow™ Layflat

Friction Loss per 100 Ft. (PSI)

GPM	1.5"	2"	2.5"	3"	4"	6"
20	1.2					
30	2.4					
40	5.1	1.1				
50	6.0					
60		2.4	1.4			
80		4.1	1.9	1.0		
90	17.0					
100		6.0	2.8	1.2		
120				1.8		
140				2.2		
160				2.6	0.6	
180				3.3	0.7	
200		2.2	1.7	0.8		
220				1.0		
240				1.1	0.2	
250				5		
260				1.3	0.2	
280				1.4	0.2	
300				1.6	0.2	

### COMMON FITTING ABBREVIATIONS

RED = Reducing ADP = Adapter  
 CLOSE = Short, threads meet in center

### FITTING THREAD ABBREVIATIONS

M = Male thread (On outside of pipe)  
 F = Female thread (On inside of fitting)  
 P or IP = Standard Pipe  
 H = Garden Hose  
 T = Thread

Example: MPT = Male standard pipe thread

### Lengths of run in feet at 0% slope

#### DRIP TAPE

Inlet Pressure (psi)

	Uniformity	6	8	10	12	15
1.00 gpm	90%	290	292	292	293	294
	85%	370	371	373	373	375
1/1 gpm	90%	898	901	904	906	909
	85%	1143	1148	1151	1154	1158
3/4 gpm	90%	577	580	581	583	585
	85%	735	738	741	742	745
4/5 gpm	90%	483	485	486	487	489
	85%	615	618	620	621	623
6/7 gpm	90%	375	376	377	378	380
	85%	477	479	481	482	483

**ABOUT**



**HEBER**  
**Growing Equipment**

WE'VE CAREFULLY SELECTED THE FINEST SPECIALTY GROWING EQUIPMENT FOR OPERATIONS OF ALL SIZES. WHETHER YOU ARE A BACKYARD GROWER OR A LARGE FARM, WE ARE HERE TO SERVE YOU AND HELP YOUR OPERATION GROW WITH OUR SELECTION OF FARM EQUIPMENT.

The past couple of years have showed us how important it is to buy American made farm equipment. As machines broke down, farmers with foreign made equipment found that parts were unavailable because of lock downs. They were stuck or forced to go buy a new machine. American manufacturers are just a quick phone call away with over night parts. Support Americans by buying American made products.