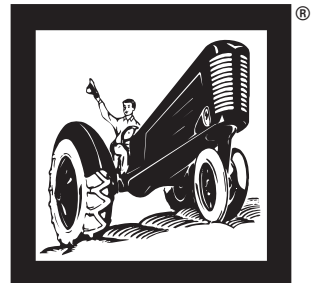


Replacement Parts for:

**Tillage**



**TISCO**



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**TISCO**

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## □ Wiese Viper Sweep

- All Wiese Viper sweeps are 7.5mm thick (.296") heat-treated steel.
- The .296" thick material and long nose provide superior wear compared to conventional 6mm or 1/4" thick sweeps.
- The built-in stem protector also minimizes wear on bolts and stem.
- The unique Flanged wing improves soil flow and reduces breakage.
- Recommended replacement style for DMI and Case DMI field cultivators, Brady (after 1971), Brillion (after 1986), Case IH 4500, 4600, and 4800, Glencoe 4300, Hiniker, IH 45, John Deere 940, 960, 980, 985, and 726 mulch/finisher, Kent, Krause 4200, 4250, 3100, and 6100, Landoll, M&W, Noble, Sunflower and Wil-Rich.
- Sold in vendor packs of 10.

Part #	Stem angle	Bolt size	Center	Width	Weight/10
47VP4507	47°	7/16"	1 5/8" - 1 3/4"	4.50"	22 lbs
47VP7257	47°	7/16"	1 5/8" - 1 3/4"	7.25"	33 lbs
47VP9257	47°	7/16"	1 5/8" - 1 3/4"	9.25"	38 lbs
47VP10257	47°	7/16"	1 5/8" - 1 3/4"	10.25"	43 lbs
47VP11257	47°	7/16"	1 5/8" - 1 3/4"	11.25"	51 lbs
BKP76112FN	Bolt kit	Box of 50 ea. 7/16" x 1 1/2" PH bolts w/ Flange Nut			



## Wiese Nok-On Viper Sweeps

- Wiese Nok-On Viper Sweeps are designed to install by simply pounding off the old sweep and pounding on the new sweep without having to replace several bolts.
- All Nok-On Viper Sweeps are 6mm thick material.
- Will fit Nichols Q2747 mounting bracket.

Part #	Stem angle	Width	Weight/10
47VPFT7257	47°	7.25"	26 lbs
47VPFT9257	47°	9.25"	29 lbs
VPFT7 (clip)	N/A	N/A	5 lbs
VPFTSP (spring)	N/A	N/A	.05 lbs



TISCO

# Field Cultivator Sweeps, Points, and Accessories

## Field Cultivator Sweeps



7-FCH-4-47



10-FCH-4-47



4-FCH-4-47

### FCH Series

- 47° stem angle, 7/16" punch
- use 7/16" x 1-1/4" #3 head bolts. 1-5/8" to 1-3/4" hole spacing

Part #	Size	Thickness	Bundle Qty
4-FCH-4-47	4"	1/4"	10
6-FCH-4-47	6"	1/4"	10
7-FCH-4-47w	7"	1/4"	10
9-FCH-4-47	9"	1/4"	10
10-FCH-4-47	10"	1/4"	10



9-FCO-4-40



### FCO Series

- 40° stem angle, 3/8" punch
- use 3/8" x 1-1/4" #3 head bolts. 1-5/8" to 1-3/4" hole spacing

Part #	Size	Thickness	Bundle Qty
7-FCO-4-40	7"	1/4"	10
9-FCO-4-40	9"	1/4"	10
10-FCO-4-40	10"	1/4"	10

### FCH Series Fits:

Bourgault  
 Brady (1971 & up)  
 Brillion (1986 & up)  
 Calkins  
 Case/IH - 45, Vibra-Shank  
 CrustBuster  
 Dakon  
 Deere - 940, 960, 985, 726 Mulch Finisher  
 Degelman  
 DMI  
 Ezee-On  
 Farmers Factory  
 Flexi-Coli - 200-400  
 Frontier  
 Glencoe - 4300  
 Hesston  
 Hiniker  
 Ingham  
 Kent  
 Krause - 4200, 4250, 3100, 6100  
 Landoll  
 M&W - 724  
 Massey Harris  
 Massey Ferguson - MF259  
 Noble  
 Rhino (Athens)  
 Sunflower  
 Wil-Rich  
 Winpower - 1500

### FCO Series Fits:

Allis Chalmers (early models)  
 Baker  
 Brady (prior to 1970-71)  
 Brillion (prior to 1986)  
 Cockshutt (early models)  
 Deere - CCA, CC10, CC20, 1000 Series  
 Glencoe - 1250 (double shank)  
 Krause (K-tine)  
 Oliver - 245, 345

## □ Conventional Field Cultivator Sweeps

- All of our conventional field cultivator sweeps are 6mm thick heat-treated steel.
- The stay- wide design ensures that the sweep will maintain the specified cutting width throughout the life of the sweep.
- The 47° WCC series sweeps listed below will fit the following machines: Brady (after 1971), Brillion (after 1986), Case IH 4500, 4600, and 4800, DMI, Glencoe 4300, Hiniker IH 45, John Deere 940, 960, 980, 985 and 726 mulch/finisher, Kent, Krause 4200, 4250, 3100, and 6100, Landoll, M&W, Noble, Sunflower and Wil-Rich.
- Sold in vendor packs of 10.



Part #	Bolt size	Center	Width	Weight/10
WCC4B7	7/16"	1 5/8" - 1 3/4"	4"	16 lbs
WCC6B7	7/16"	1 5/8" - 1 3/4"	6"	21 lbs
WCC7B7	7/16"	1 5/8" - 1 3/4"	7"	22 lbs
WCC8B7	7/16"	1 5/8" - 1 3/4"	8"	23 lbs
WCC9B7	7/16"	1 5/8" - 1 3/4"	9"	27 lbs
WCC10B7	7/16"	1 5/8" - 1 3/4"	10"	31 lbs
WCC11B7	7/16"	1 5/8" - 1 3/4"	11"	32 lbs
WCC12B7	7/16"	1 5/8" - 1 3/4"	12"	33 lbs

- The sweeps listed below will fit the following machines:  
Bush Hog, Case FC-FCM and FCW, Ford 208, Glencoe FC-MFC-FCSW and 101, Kewanee, Krause 600 and 900, MF 160, Oliver 285, 385, and 485, Taylor.

Part #	Bolt size	Center	Width	Weight/10
WCC4B3	3/8"	1 5/8" - 1 3/4"	4"	16 lbs
WCC6B3	3/8"	1 5/8" - 1 3/4"	6"	21 lbs
WCC7B3	3/8"	1 5/8" - 1 3/4"	7"	22 lbs
WCC8B3	3/8"	1 5/8" - 1 3/4"	8"	23 lbs
WCC9B3	3/8"	1 5/8" - 1 3/4"	9"	27 lbs
WCC10B3	3/8"	1 5/8" - 1 3/4"	10"	31 lbs
WCC12B3	3/8"	1 5/8" - 1 3/4"	12"	33 lbs

## WFC Series Conventional Field Cultivator Sweeps

- All of our 41° WFC series conventional field cultivator sweeps are 6mm thick heat-treated steel.
- The stay-wide design insures that the sweep will maintain the specified cutting width throughout the life of the sweep.
- The sweeps listed below will fit the following machines: Allis Chalmers (early models only), Brady (early models only), Brillion (prior to 1986), Glencoe 1250 double shank, John Deere CCA-C10-C20 and 1000 series, Krause K-tine, White/Oliver 245 and 345.
- Note: Some Allis Chalmers, Buffalo, Du-All and Forrest City field cultivators require 54 degree sweeps.
- Sold in vendor packs of 10.



Part #	Bolt size	Center	Width	Weight/10
WFC4B3	3/8"	1 5/8" - 1 3/4"	4"	16 lbs
WFC6B3	3/8"	1 5/8" - 1 3/4"	6"	21 lbs
WFC7B3	3/8"	1 5/8" - 1 3/4"	7"	22 lbs
WFC8B3	3/8"	1 5/8" - 1 3/4"	8"	23 lbs
WFC9B3	3/8"	1 5/8" - 1 3/4"	9"	27 lbs
WFC10B3	3/8"	1 5/8" - 1 3/4"	10"	31 lbs
WFC12B3	3/8"	1 5/8" - 1 3/4"	12"	33 lbs

A special bolt with a 7/16" head and 3/8" threaded body may be used on field cultivators using 3/8" holes in the shank.



**TISCO**

# Field Cultivator Sweeps, Points, and Accessories

## □ Fas-Tach

- Wiese Fast Tach style sweeps provide a quick change-over method.
- Instead of changing out several bolts, you can simply pound the sweeps off and pound the new sweeps back on, minimizing down time.
- Fas-Tach are all 6mm thick and have the same design as our WCC and WFC series sweeps.
- All sweeps are sold in vendor packs of 10.



7FT4BW



7FT7BW



7FT9BW



7FT10BW

Part #	Stem angle	Width	Weight/10
1FT7BW	41°	7"	31 lbs
7FT4BW	47°	4"	11 lbs
7FT7BW	47°	7"	31 lbs
7FT8BW	47°	8"	32 lbs
7FT9BW	47°	9"	34 lbs
7FT10BW	47°	10"	36 lbs

## Mounting Bracket

- This mounting bracket is required for Fas-Tach.

Part #	Bolt size	Center	Weight/ea.
FT7W	7/16"	1 3/4" to 2"	1/2 lbs



## Special Bolt

- Our special bolt with a 7/16" head and a 3/8" threaded body may be used on field cultivators using 3/8" holes in the shank.

Part #	Length	Hex nut	Weight
BPH7163812	1-1/2"	BHN38	n/a

## □ Double Points

### DP Points

- DP points are drop-forged for superior wearability and have a self-sharpening edge that provides good soil penetration throughout the life of the point.
- All DP series points are extra-heavy 3/8" thick, high-carbon, heat-treated steel 11-3/4" long.
- Available plain or hard surfaced.
- Sold in vendor packs of 10.

Part #	Bolt size	Center	Width	Weight/10
DP2237	7/16"	2"	2"	20 lbs
DP2276	7/16"	1 5/8" - 1 3/4" curved	2"	20 lbs
DP58171	7/16"	1 5/8" - 1 3/4" flat	2"	20 lbs
DP2276S	7/16"	slotted 1" to 2"	2"	20 lbs
DP2238	3/8"	1 5/8" - 1 3/4"	2"	20 lbs
DP223	3/8"	2"	2"	20 lbs



### WIF Points

- WIF points are formed from high-carbon, heat-treated steel with plated edges.
- All WIF series points are 1/4" thick material and have a radius back at the bolt holes.
- Sold in vendor packs of 10.

Part #	Bolt size	Center	Width	Weight/10
IF10	7/16"	1-3/4"	1-1/2"	12 lbs
IF210	7/16"	1-3/4"	2"	15 lbs
IF210UB	7/16"	1-1/4" - 2-1/4" slot	2"	15 lbs
IF110	7/16"	1-3/4"	2-1/2"	18 lbs
IF110UB	7/16"	1-1/4" - 2-1/4" slot	2-1/2"	18 lbs



### WIH Points

- WIH points are designed to fit Brillion IH and Vibro shank machines.
- WIH points are 3/8" thick and are 15" long.
- Sold in vendor packs of 10.

Part #	Bolt size	Center	Width	Weight/10
WIH2387	7/16"	1-1/2" to 2-1/2"	2"	30 lbs



### WC Points

- WC points are formed from 5/16" thick high-carbon, heat-treated steel.
- The WC212 is 11-1/2" long.
- All other WC points are 10-1/2" long.
- Sold in vendor packs of 10.

Part #	Bolt size	Center	Width	Weight/10
WC1343	3/8"	1-5/8" to 1-3/4"	1-3/4"	11 lbs
WC1347	7/16"	1-5/8" to 1-3/4"	1-3/4"	11 lbs





**TISCO**

# Field Cultivator Sweeps, Points, and Accessories

## □ Double Points continued...

### Spear Points

- Spear points are formed from 1/4" thick high-carbon, heat-treated steel.
- This is a shovel with a spear point nose and will move more dirt than the narrower points listed above.
- Ideal for improved soil mixing or incorporation applications.
- Sold in vendor packs of 10.



Part #	Bolt size	Center	Width	Weight/10
24SP845	7/16"	1-3/4"	5"	15 lbs

## □ Dual Tillage Knives

- Wiese dual tillage knives are designed to fit most field cultivators, allowing the farmer to apply fertilizer in one pass while preparing the seedbed.

### DT-3

- One of the heaviest field cultivator knives available today.
- Drop-forged and heat-treated, this knife will provide superior wear and added strength in the stem.
- The DT-3 is an excellent choice in rocky or tough conditions.
- Available plain or hard-faced.
- Plow bolts are not required.



### DT-4

- Thin-profile knife provides minimum soil disturbance while sealing well in most soil conditions.
- This knife is designed using a 7/16" thick twisted shank.

### DT-4CI-6

- Chrome insert version of the DT-4 is recommended for most applications.
- The high-chrome alloy provides maximum wear on the foot and leading edge of the knife, making this knife a great value.

### DT-5

- Our most economical knife.
- Designed using 3/8" thick high-carbon steel, this knife is formed with a single point and heat-treated.
- Available plain or hard-faced.

Part #	Profile	Bolt size	Center	Pipe	Weight/ea.
DT310	Wide	7/16" hex head	1-3/4" to 2"	3/8"	3.0 lbs
DT311	Wide-hard surfaced	7/16" hex head	1-3/4" to 2"	3/8"	3.5 lbs
DT41007	Thin	7/16" plow head	1-5/8" to 2"	3/8"	2.7 lbs
DT41107	Thin-hard surfaced	7/16" plow head	1-5/8" to 2"	3/8"	3.0 lbs
DT41607	Thin-chrome insert	7/16" plow head	1-5/8" to 2"	3/8"	3.3 lbs
DT5007	Wide	7/16" plow head	1-3/4"	N/A	1.7 lbs
DT50107	Wide-hard surfaced	7/16" plow head	1-3/4"	N/A	1.8 lbs

## Ultra High-Density Poly Shank Protector

- Ultra high-density poly shank protectors are easy to install because they are tapered at the bolt holes to fit the sweep stem.
- Shank protectors add years of life to equipment, especially in abrasive soils.
- The poly design also allows your to scour clean in wet, heavy soils, preventing clogging.

Part #	Size	Weight/ea.
2014134P	1/4" X 1-7/8" X 10"	5 oz





## □ Row Crop Sweeps

- Row crop sweeps are designed for high-speed cultivation of growing crops.
- Wiese 4" through 10" sweeps are 6mm thick, heat-treated steel.
- 12" through 24" sweeps are 6.35mm thick, high carbon, heat-treated steel.
- All row crop sweeps have a square center hole for a 5/8" carriage bolt.
- The 4" through 10" row crop sweeps are sold in vendor packs of 10. 12" through 24" are sold in vendor packs of 5.
- Some Allis Chalmers, Buffalo, Du-All and Forrest City field cultivators require row crop sweeps.
- Note: Half sweeps are available upon request.
- Simply add R or L to specify right or left sweeps.



Part #	Stem angle	Bolt size	Center	Width	Weight/bdl
1404	54°	7/16"	2"	4"	13 lbs
1406	54°	7/16"	2"	6"	17 lbs
1408	54°	7/16"	2"	8"	21 lbs
1410	54°	7/16"	2"	10"	27 lbs
1412	54°	7/16"	2"	12"	35 lbs
1414	54°	7/16"	2"	14"	40 lbs
1416	54°	7/16"	2"	16"	26.5 lbs
1418	54°	7/16"	2"	18"	29.5 lbs
1420	54°	7/16"	2"	20"	32.5 lbs
1422	54°	7/16"	2"	22"	33.5 lbs
1424	54°	7/16"	2"	24"	39 lbs

## □ Reversible Blades

- Reversible blades for high-residue cultivators are made from 5/16" thick, high-carbon, heat-treated steel, designed to fit Hiniker, Kinze, Sukup, Krause, Wetherell, Buffalo and others.
- The cutting widths below are approximate averages based on the cutting width of the units, not the length of the blade.
- Also available hard surfaced.
- Note: All blades are 3-1/2" wide and use a reversible bolt pattern on 2-1/4" spacings.
- The cutting edge is positioned the same as OEM blades using a 2" spacing.



Part #	Bolt size	Center	Cutting width	Weight/ea.
4111HRB	3/8"	3"	11"	2.8 lbs
4112HRB	3/8"	3"	12"	3.0 lbs
4114HRB	3/8"	8"	14"	3.3 lbs
4117HRB	3/8"	8"	17"	4.2 lbs
4119HRB	3/8"	8"	19"	4.7 lbs
4121HRB	3/8"	8"	21"	5.1 lbs
4123HRB	3/8"	8"	23"	6.5 lbs
4125HRB	3/8"	8"	25"	6.8 lbs
4127HRB	3/8"	8"	27"	7.3 lbs



# Row Crop Sweeps, Points, and Reversible Blades

TISCO

## □ Middle Worker Points

- Middle worker points are designed to break the ground between the rows and keep the cultivator engaged in the soil.
- All middle worker points are made from high-carbon steel with chrome alloy caps for durability and extended wear.



Part #	Cap style	Machine application	Weight/ea.
41BMPH	Flat	Hiniker, Buffalo, Krause, and Wetherell	2.8 lbs
41BMPK	Flat	Kinze	2.8 lbs
41WCP5	Eaglebeak	Hiniker 5000, Buffalo	1.8 lbs
41WCP6	Eaglebeak	Hiniker 6000	2.0 lbs
41BMPS	Flat	Sukup, 2 hole boot	2.9 lbs

## □ Danish or "S" Tine Sweeps, Clamps and Shanks

- Danish or "S" tine sweeps are made from 6mm thick, heat-treated steel.
- These sweeps are designed to fit most row crop cultivators and some soil finishers using Danish or "S" tine shanks with one 3/8" bolt hole.
- All non-reversible sweeps are made with a built-in bolt protector.
- Sold in vendor packs of 10.



WK1



WK42



WK44

Part #	Bolt size	Style	Width	Weight/10
WK1	3/8" elliptical head	reversible	1"	8 lbs
WK42	3/8" elliptical head	shovel	2-3/4"	10 lbs
WK44D	3/8" elliptical head	duckfoot	4"	12 lbs
WK44	3/8" elliptical head	shovel	4"	11 lbs
WK47	3/8" elliptical head	shovel	7"	15 lbs
WK49	3/8" elliptical head	shovel	9"	19 lbs



WK44D



WK47

## Shanks

- Shanks for Danish or "S" tine cultivators are made from spring steel designed to create a "vibra" action for superior weed control.
- The standard shank is 10mm thickness.
- Heavy-duty and high-clearance shanks are 12mm thickness.
- Note: Standard and heavy-duty shanks are 14-1/2" working clearance, and high-clearance shanks are 18-1/2" working clearance.

Part #	Toolbar size	Clamp bolt size	Sweep bolt size	Shank type	Weight/ea.
ST3210	2"	1/2"	3/8"	standard 10 mm	6.5 lbs
ST3212	2"	1/2"	3/8"	heavy duty 12 mm	7 lbs
ST3212HC	2-1/2" to 3"	1/2"	3/8"	high clear 12 mm	8 lbs



## Clamps

- Clamps for Danish "S" tine cultivators are designed to attach shanks to toolbars on row crop cultivators.

Part #	Toolbar size	Weight/ea.
27120822	2-1/2" square	1.5 lbs
27120899	2" square	.9 lbs



## □ Peanut Sweeps

- Peanut sweeps are made from heat-treated steel.
- The thickness is 4.75mm on 6" to 12" sweeps and 6.35mm on all others.
- Peanut sweeps are designed with a low crown and narrow wings and are used mostly for cultivation of vegetables or specialty crops.
- Sold in vendor packs of 5 each.



Part #	Stem angle	Bolt size	Center	Width	Weight/5
131-6	56°	7/16"	1-1/4" to 2-1/4"	6"	6 lbs
131-8	56°	7/16"	1-1/4" to 2-1/4"	8"	7 lbs
131-10	56°	7/16"	1-1/4" to 2-1/4"	10"	10 lbs
132-12	56°	7/16"	1-1/4" to 2-1/4"	12"	11.5 lbs
132-14	56°	7/16"	1-1/4" to 2-1/4"	14"	15 lbs
132-16	56°	7/16"	1-1/4" to 2-1/4"	16"	16.5 lbs
132-18	56°	7/16"	1-1/4" to 2-1/4"	18"	18 lbs
281450	50°	7/16"	1-1/4" to 2-1/4"	14"	15 lbs

## □ Bedding/Joyce Sweeps

- Bedding/Joyce sweeps are made from heat-treated steel 6.35mm in thickness.
- The wide wings and narrow shank are designed for maximum wear and cutting out the middles in row crop applications.
- All Bedding/Joyce sweeps have a square center hole for a 5/8" carriage bolt.
- The 8" through 16" sweeps are sold in vendor packs of 10;.
- 18" through 24" sweeps are sold in vendor packs of 5.



Part #	Stem angle	Bolt size	Center	Width	Weight/bdl.
112-8	54°	7/16"	2-1/4"	8"	22 lbs
112-10	54°	7/16"	2-1/4"	10"	27 lbs
112-12	54°	7/16"	2-1/4"	12"	32 lbs
112-14	54°	7/16"	2-1/4"	14"	55 lbs
112-16	54°	7/16"	2-1/4"	16"	62 lbs
112-18	54°	7/16"	2-1/4"	18"	35.5 lbs
112-20	54°	7/16"	2-1/4"	20"	41.5 lbs
112-22	54°	7/16"	2-1/4"	22"	44.5 lbs
112-24	54°	7/16"	2-1/4"	24"	52 lbs



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# Chisel Plow Sweeps, Shovels, Points, and Blades

## □ Chisel Spikes

- The drop-forged design of Wiese chisel spikes provides several advantages over other brands or OEM points that are not drop-forged.
- The extra material at the point makes these chisel spikes some of the most durable and longest-wearing points on the market.
- The exclusive design provides a self sharpening point for superior penetration throughout the life of the point.
- SD series points are punched for regular hex head bolts for extra wear and ease of removal.



Part #	Bolt size/type	Center	Thickness	Length	Width	Weight/ea.
SD225	1/2" Hex head	2-1/4" to 2-1/2"	7/8"	19-1/2"	2"	8 lbs
SD22H*	1/2" Plow head	2-1/4" to 2-1/2"	7/8"	19-1/2"	2"	8 lbs
SD227	7/16" Plow head	2-1/4" to 2-1/2"	7/8"	19-1/2"	2"	8 lbs
SD23	1/2" Hex head	2-1/4" to 2-1/2"	1"	20"	2-1/2"	12 lbs
R2585	1/2" Plow head	2-1/4"	5/8"	17-1/2"	2"	5.25 lbs
C2585**	1/2" Plow head	2-1/4"	5/8"	16-3/4"	2"	5 lbs
47345***	1/2" Plow head	2-1/4" to 2-1/2"	3/4"	13-1/2"	2-1/4"	6.25 lbs

\*Recommended for IH, Wil-Rich and low clearance shanks

\*\*Press formed (not drop-forged)

\*\*\*Single-ended spike with high-chrome alloy point

## □ Chisel Spikes

Part #	Type	Bolt	Thickness	Length	Width
1858-12	Reversible, upset (swedge) points	1/2"	5/8"	18"	2"
1878-12	Reversible, upset (swedge) points	1/2"	7/8"	18"	2"
582-12	Reversible, flat	1/2"	5/8"	18"	2"



## ▣ Twisted Chisel Spikes

- Twisted chisel spikes are designed to be used in place of straight chisel spikes to turn soil or incorporate residue for maximum weed kill.
- All twisted chisel spikes are formed from high-carbon, heat-treated steel.
- Also available hard surfaced.
- CC series part #'s are slash point style. Sold in vendor units of 1.
- A special bolt with a 1/2" #3 plow head and a 7/16" threaded body may be used on chisel plows requiring a 7/16" shank hole.
- IHC chisel plows have slotted shank holes to accept spikes with 2-1/4" centers.



Part #	Twist	Bolt size	Center	Thickness	Length	Width	Weight/ea.
320-LKS	LH	1/2"	2-1/4"-2-1/2"	3/8"	20"	3"	6.25 lbs
320-RKS	RH	1/2"	2-1/4"-2-1/2"	3/8"	20"	3"	6.25 lbs
123L	LH	1/2"		1/2"	22"	3"	
123R	RH	1/2"		1/2"	22"	3"	
1235L	LH	1/2"	2-1/4"-2-1/2"	1/2"	23"	3"	8.5 lbs
1235R	RH	1/2"	2-1/4"-2-1/2"	1/2"	23"	3"	8.5 lbs
CC1235L	LH	1/2"	2-1/4"-2-1/2"	1/2"	23"	3"	10 lbs
CC1235R	RH	1/2"	2-1/4"-2-1/2"	1/2"	23"	3"	10 lbs
1245L	LH	1/2"	2-1/4"-2-1/2"	1/2"	23"	4"	11.3 lbs
1245R	RH	1/2"	2-1/4"-2-1/2"	1/2"	23"	4"	11.3 lbs
CC1245L	LH	1/2"	2-1/4"-2-1/2"	1/2"	26"	4"	12.5 lbs
CC1245R	RH	1/2"	2-1/4"-2-1/2"	1/2"	26"	4"	12.5 lbs

## ▣ Quacker Spikes

- All Quackers punched to fit 1-5/8" or 2" hole spacing.
- Constructed from flat stock material a full 5/16" thick for enhanced dependability and longer life.



Part #	Length	Width	Thickness	Bolt
103	10"	1-3/4"	5/16"	(2) 3/8" x 1-1/4" (#3 head)
107	10"	1-3/4"	5/16"	(2) 7/16" x 1-1/4" (#3 head)

## ▣ Springtooth

- All springtooth cultivator points are punched to fit 1" to 2" hole spacings.
- Constructed from sturdy 5/16" flat stock for enhanced dependability.
- Plated and sharpened for better wear.



Part #	Length	Width	Thickness	Bolt
210A	11"	2-1/2"	5/16"	(2) 7/16" x 1-1/4" (#3 head)
211	11"	2"	5/16"	(2) 7/16" x 1-1/4" (#3 head)
211D	11"	2"	5/16"	(2) 3/8" x 1-1/4" (#3 head)



**TISCO**

# Chisel Plow Sweeps, Shovels, Points, and Blades

## □ Reversible Chisel Plow Shovels

- Reversible chisel plow shovels are designed to be used in place of spikes when more soil movement and ridging are desired.
- Ours are formed from, heat-treated steel.



Part #	Bolt size	Center	Thickness	Length	Width	Weight/ea.
35163M	1/2"	2-1/4"	7.5mm	16"	4-1/2"	5.9 lbs
45163M	1/2"	2-1/4"	3/8"	16"	4-1/2"	6.2 lbs

## □ Three-Piece Chisel Parts

- Three-piece chisel parts are designed for OEM replacement on coultter chisel machines.
- With the use of the "frog," three-piece components may also be used on conventional chisel plows.
- This system lets you replace the point separate from the moldboard, and the moldboard is reversible.
- These parts will fit Glencoe Soil Saver, Landoll, Bush Hog, Deutz-Allis, DMI, Krause, Kent, Brillion, Kelley, Steiger and other coultter chisels. Moldboards and points are available plain or hard-surfaced.
- To specify hard surface, simply place HS after the part #.



Part #	Bolt size	Description	Thickness	Width	Weight/ea.
CPFL	1/2"	Chisel plow frog left	N/A	N/A	3.5 lbs
CPFR	1/2"	Chisel plow frog right	N/A	N/A	3.5 lbs
CPPL	1/2"	Chisel plow point left	3/8"*	4"	2.5 lbs
CPPR	1/2"	Chisel plow point right	3/8"*	4"	2.5 lbs
CPML	1/2"	Chisel plow moldboard left	3/8"	4"	7.0 lbs
CPMR	1/2"	Chisel plow moldboard right	3/8"	4"	7.0 lbs

\*Drop-forged (approximate nominal thickness)

## □ Plains Plow Blades to fit Kent

- Plains plow blades to fit Kent are designed for plains plows and undercut type plows using 9-1/2" bolt spacing.
- They are available in low-profile or high-profile styles.
- Please refer to the steel size listed below.



Part #	Cut/style	Hard-surface	Hole space	#holes	Steel size	Weight/ea.
45648KT	48" low profile	Top	9-1/2"	4	4-1/2" X 11/32"	41 lbs
45648KP	48" low profile	No	9-1/2"	4	4-1/2" X 11/32"	39 lbs
62548KT	48" high profile	Top	9-1/2"	4	6-1/2" X 5/16"	45 lbs

## Laser Plow Blades to fit Quinstar

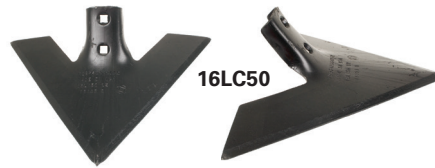
- Laser plow blades are designed to fit Quinstar and undercut type plows using 7-1/2" bolt spacing.
- Available in low profile or high profile styles.
- Please refer to the steel size listed below.



Part #	Cut/style	Hard-surface	Hole space	#holes	Steel size	Weight/ea.
53848QT	48" low profile	Top	7-1/2"	5	5" X 3/8"	37 lbs
53848QP	48" low profile	No	7-1/2"	5	5" X 3/8"	35 lbs
62540QT	48" high profile	Top inlaid	7-1/2"	5	6-1/2" X 5/16"	37 lbs

## Heavy-Duty Chisel Sweeps

- Low-crown, 50° shank angle.
- Holes are punched on 2-1/4" centers
- Use two 1/2" x 2" #3 head bolts.



Part #	Length	Thickness
16LC50	16" sweep	1/2" thick



Part #	Length	Thickness
18LC50	18" sweep	1/2" thick

## One-Piece Sweeps to fit Noble Type Plows

- One-piece sweeps are designed to fit Noble type and undercut style plows using 10" bolt spaces.
- Available with top or bottom-hard-surfacing and high-chrome alloy points.
- The chrome alloy point provides maximum wear, and insures superior penetration throughout the life of the sweep.
- Add "C" to the part # to specify chrome point.
- Chrome point is attached using a tab and slot mounting, minimizing the chance of the point wearing off or detaching before the sweep is fully worn.
- All blades are made from 6-1/2" x 5/16" high carbon steel.



### 75° Blades

Part #	Cut	HS	Hole space	#holes	Blade length	Weight/ea.
2050P	5'	No	(3)10" - (1)5"	5	50"	43 lbs
3050T	5'	Top	(3)10" - (1)5"	5	50"	50 lbs
4050B	5'	Bottom	(3)10" - (1)5"	5	50"	49 lbs
2055P	5-1/2'	No	(3)10" - (2)5"	6	54"	43 lbs
3055T	5-1/2'	Top	(3)10" - (2)5"	6	54"	54 lbs
4055B	5-1/2'	Bottom	(3)10" - (2)5"	6	54"	52 lbs
2060P	6'	No	(4)10" - (2)5"	7	60"	58 lbs
3060T	6'	Top	(4)10" - (2)5"	7	60"	62 lbs
4060B	6'	Bottom	(4)10" - (2)5"	7	60"	62 lbs
3065T	6-1/2'	Top	(4)10" - (3)5"	8	65"	65 lbs
4065B	6-1/2'	Bottom	(4)10" - (3)5"	8	65"	62 lbs
3070T	7'	Top	(4)10" - (3)5"	8	69"	66 lbs

### 100° Blades

Part #	Cut	HS	Hole space	#holes	Blade length	Weight/ea.
2150P	5'	No	(2)10" - (2)5"	5	40"	38 lbs
3150T	5'	Top	(2)10" - (2)5"	5	40"	40 lbs
2155P	5-1/2'	No	(2)10" - (3)5"	6	43-1/4"	43 lbs
3155T	5-1/2'	Top	(2)10" - (3)5"	6	43-1/4"	44 lbs
2160P	6'	No	(3)10" - (2)5"	6	48"	48 lbs
3160T	6'	Top	(3)10" - (2)5"	6	48"	52 lbs



TISCO

# Chisel Plow Sweeps, Shovels, Points, and Blades

## Chisel Plow/Wheatland Sweeps

- Chisel plow/wheatland sweeps are designed to be used on chisel plows in place of chisel spikes for more soil shattering action and wider cut between the shanks.
- All chisel plow/wheatland sweeps are formed from heat-treated steel.
- Sold in vendor packs of 5.



### 50° Stem Angle Sweeps

Part #	Stem angle	Bolt size	Center	Thickness	Width	Weight/5
SWCP105	50°	1/2"	2-1/4"	7.5 mm	10"	29.0 lbs
SWCP125	50°	1/2"	2-1/4"	7.5 mm	12"	32.5 lbs
SWCP145	50°	1/2"	2-1/4"	7.5 mm	14"	37.0 lbs
SWCP165	50°	1/2"	2-1/4"	7.5 mm	16"	39.5 lbs
SWCP185	50°	1/2"	2-1/4"	7.5 mm	18"	44.5 lbs
SWCP205	50°	1/2"	2-1/4"	7.5 mm	20"	49.0 lbs
SWCP225	50°	1/2"	2-1/4"	7.5 mm	22"	53.5 lbs
SWCP245	50°	1/2"	2-1/4"	7.5 mm	24"	58.0 lbs
SWCS6 (long nose)	50°	1/2"	2-1/4"	7.5 mm	6"	18.5 lbs
SWCS7 (long nose)	50°	1/2"	2-1/4"	7.5 mm	7"	19.0 lbs

### 47° Stem Angle Sweeps

Part #	Stem angle	Bolt size	Center	Thickness	Width	Weight/5
SWCP107	47°	1/2"	2-1/4"	7.5 mm	10"	29.5 lbs
SWCP127	47°	1/2"	2-1/4"	7.5 mm	12"	32.5 lbs
SWCP147	47°	1/2"	2-1/4"	7.5 mm	14"	37.0 lbs
SWCP167	47°	1/2"	2-1/4"	7.5 mm	16"	39.5 lbs
SWCP187	47°	1/2"	2-1/4"	7.5 mm	18"	44.5 lbs

### 43° Stem Angle Sweeps

Part #	Stem angle	Bolt size	Center	Thickness	Width	Weight/5
SWCP83	43°	1/2"	2-1/4"	7.5 mm	8"	25.5 lbs
SWCP123	43°	1/2"	2-1/4"	7.5 mm	12"	29.5 lbs
SWCP143	43°	1/2"	2-1/4"	7.5 mm	14"	32.5 lbs
SWCP163	43°	1/2"	2-1/4"	7.5 mm	16"	37.0 lbs
SWCP183	43°	1/2"	2-1/4"	7.5 mm	18"	39.5 lbs



## □ Chisel Plow Knives

Part #	Description	Bolt size	Centers	Drop-forged/chrome	Weight/ea.
CP6510	Extra heavy 2" wide	1/2" hex head	2-1/4" to 2-1/2"	Drop forged	5 lbs
CP6511	Extra heavy 2" wide hard-surfaced	7/16" hex head	2-1/4" to 2-1/2"	Drop forged	6 lbs
CP7010	Thin profile Twisted 1/2" shank	1/2" plow head	2-1/4"	Drop forged	5 lbs
CP7015	Thin profile Twisted 1/2" shank	1/2" plow head	2-1/4"	Chrome insert	6 lbs



## CP-90 Knives with Pin on Chrome Insert

Part #	Description	Bolt size	Centers	Drop-forged/chrome	Weight/ea.
CP9015	Twisted knife 3/4" shank	1/2" plow head	2-1/4"	Pin on chrome insert w/fin	7.9 lbs
761573	Replacement chrome insert for CP-90				3.2 lbs
BRP12114	Replacement pin for CP-90				.1 lbs



## Ultra High-Density Poly Shank Protector

- Ultra high-density poly shank protectors are very easy to install because they are tapered at the bolt holes to fit the sweep stem.
- Shank protectors add years of life to equipment, especially in abrasive soils.
- The poly design also allows shanks to scour clean in wet, heavy soils, pre-venting clogging.

Part #	Size	Weight/ea.
2614120P	1/4" x 2" x 14"	5 oz





TISCO

# Subsoiler Points, Disc Coulters, and Accessories

## □ Booted Points to fit Most Popular Subsoilers

- Booted points are designed to fit most "V" type rippers using standard shanks.
- All booted points are formed from 1" thick, high-carbon, heat-treated steel.
- Part #'s listed in the tables below are for standard wear caps.



41BDMI011242

### Points to fit DMI 530, 730, 527, JD, Case New Holland, Tiger, Tiger II, Krause and Others

Part #	Point size	Standard cap	Shank size	Wing width	Pin/bolt size	Weight/ea.
41BDMI211441*	2" X 10"	Full heavy	1-1/4"	No wing	1/2" X 2-1/2"	11.3 lbs
41BDMI711441*	2" X 10"	*	1-1/4"	7" Hardfaced	1/2" X 2-1/2"	16.5 lbs
41BDMI211242	2" X 12"	Full heavy	1-1/2"	No wing	1/2" X 2-1/2"	15.3 lbs
41BDMI711242	2" X 12"	*	1-1/2"	7" Hardfaced	1/2" X 2-1/2"	22 lbs
41BDMI011242	2" X 12"	*	1-1/2"	10" Hardfaced	1/2" X 2-1/2"	23 lbs

\*Winged points come standard with extra-heavy chrome wear cap

\*\*Fits most JD with 1-1/4" shanks, except JD2700 rounded edge shanks.

### Front Discs and Closer Discs to fit DMI and Case New Holland



Part #	Description	Center diameter	Concavity	Bolt circle	Bolt holes	Weight/ea
P20236DMF	20" X .236" plain(front)	4-5/32"	1-7/8"	5-1/2"	(5) of 9/16"	19.3 lbs
N20236DMF	20" X .236" notched(front)	4-5/32"	1-7/8"	5-1/2"	(5) of 9/16"	17.9 lbs
P22236DMF	22" X .236" plain(front)	4-5/32"	2-3/16"	5-1/2"	(5) of 9/16"	29.0 lbs
P18118DMR	18" X .118" plain(rear)	1-25/32"	1"	5"	(4) of 17/32"	9.9 lbs

### Cover Boards to fit DMI and Case New Holland



Part #	Bolt size	Centers	Thickness	Width	Weight/ea.
42404	7/16"	1-1/4" to 2-1/4"	3/8"	4"	5.5 lbs
42408	7/16"	1-1/4" to 2-1/4"	6mm	8"	5.6 lbs

### Booted Points to fit IH #10, #11, #14 and Others



Part #	Point size	Standard cap	Shank size	Wing width	Weight/ea.
41B2508IHS	2-1/2" X 8"	None	1-1/4"	No Wing	8 lbs
41B2508IHC	2-1/2" X 8"	3"	1-1/4"	No Wing	8.3 lbs
41B2508HIS	2-1/2" X 8"	6"	1-1/4"	No Wing	9.2 lbs
41B2508IHW7	2-1/2" X 8"	*	1-1/4"	Hardfaced	14 lbs
41B2095IH	2" X 9-1/2"	None	#10, 1"	No Wing	5.8 lbs
41B2095IHS	2" X 9-1/2"	6"	#10, 1"	No Wing	6.9 lbs.
7709545IH**	1/2" X 2" X 8"	N/A	#10, 1"	No Wing	2.2 lbs

\*Winged points come standard with extra-heavy chrome wear cap

\*\*Reversible ear formed point



## □ Booted Points to fit Most Popular Subsoilers continued...



### Points to fit John Deere 510, 912, 915, 2700 Series with Standard Shanks

Part #	Point size	Standard cap	Shank size	Wing width	Weight/ea.
41B2512JD	2-1/2" X 12"	None	1-1/4"	No Wing	9 lbs
41B2512JDC	2-1/2" X 12"	3"	1-1/4"	No Wing	9.9 lbs
41B2512JDS	2-1/2" X 12"	6"	1-1/4"	No Wing	1.2 lbs
41B2512JDF	2-1/2" X 12"	Footed	1-1/4"	No Wing	14.5 lbs
41B2512JDW7	2-1/2" X 12"	*	1-1/4"	Hardfaced	19.2 lbs
41B2512JDW0	2-1/2" X 12"	*	1-1/4"	Hardfaced	21.3 lbs

\*Winged points come standard with extra-heavy chrome wear cap



### Front Discs to fit John Deere Equipment

Part #	Description	Center diameter	Concavity	Weigh/ea.
P22236112S	22" X .236" plain(front)	1-1/2" square	2-1/2"	29.0lbs
P24236112S	24" X .236" plain(front)	1-1/2" square	3"	31.2 lbs

### Points to fit M&W and Sunflower Equipment



Part #	Point size	Standard cap	Shank size	Wing width	Pin/bolt size	Weight/ea.
41B2512SFMW	2-1/2" X 12"	None	1-1/4"	No Wing	1/2" X 2-1/2"	9 lbs
41B2512SFMWC	2-1/2" X 12"	3"	1-1/4"	No Wing	1/2" X 2-1/2"	9.9 lbs
41B2512SFMWS	2-1/2" X 12"	6"	1-1/4"	No Wing	1/2" X 2-1/2"	11.2 lbs
41B2512SFMW7	2-1/2" X 12"	Footed	1-1/4"	7" Hardfaced	1/2" X 2-1/2"	19.2 lbs
41B2512SFMW0	2-1/2" X 12"	Footed	1-1/4"	10" Hardfaced	1/2" X 2-1/2"	21 lbs
41B2512SFMWA*	2-1/2" X 12"	Finned	1-1/4"	No Wing	1/2" X 2-1/2"	14 lbs
41B2512MWF**	2-1/2" X 12"	Footed	1-1/4"	No Wing	1/2" X 2-1/2"	10 lbs
41B2512MFW7**	2-1/2" X 12"	Footed	1-1/4"	7" Hardfaced	1/2" X 2-1/2"	24 lbs
77MW1100 Reversible ear OEM style	2-1/2" X 12" 3/4" thick	Also available hardfaced	1-1/4"	No Wing	Knurled roll pin Wiese# RP12212	14 lbs
RP12212	1/2" X 2-1/2" knurled roll pin for 77MW1100					.134 lbs

\*Recommended OEM style replacement to fit Sunflower machines using finned points

\*\*Recommended for M & W parabolic shanks using heavy cast wear guard

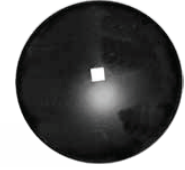
Note: The SFMW series part #'s are slotted to fit both Sunflower and most M & W machines. The 77MW11000 and MW series will only fit M & W machines



TISCO

# Subsoiler Points, Disc Coulters, and Accessories

## □ Booted Points to fit Most Popular Subsoilers continued...



### Disc Blades to fit M&W Earth Master 60, 965, 1165, 1465, 1475, and 1875 Equipment

Part #	Description	Center diameter	Concavity	Weigh/ea.
P2007112S	20" X .197" plain(front)	1-1/2" sq	2"	19.0 lbs
P22236112S	22" X .236" plain(front)	1-1/2" sq	2-1/2"	29.0 lbs
P24236112S	24" X .236"	1-1/2" sq	3"	31.2 lbs

Note: 22" are standard recommended OEM replacement, 24" are optional on #965 and newer



### Front Discs to fit Sunflower Equipment

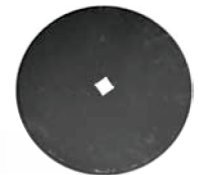
Part #	Description	Center diameter	Concavity	Weigh/ea.
P22236134R	22" X .236" plain(front)	1-3/4" R	2-1/2"	29.0 lbs
P24236134R	24" X .236" plain(front)	1-3/4" R	3"	31.2 lbs



### Points to fit Brillion Equipment

Part #	Point size	Standard cap	Shank size	Wing width	Weight/ea.
41B2512B	2-1/2" X 12"	None	1"	No Wing	9 lbs
41B2512BC	2-1/2" X 12"	3"	1"	No Wing	10.3 lbs
41B2512BS	2-1/2" X 12"	6"	1"	No Wing	11.5 lbs
41B2512BW7	2-1/2" X 12"	Footed	1"	7" Hardfaced	19.6 lbs
41B2512B2	2-1/2" X 12"	None	1-1/4"	No Wing	9.8 lbs
41B2512B2C	2-1/2" X 12"	3"	1-1/4"	No Wing	10.5 lbs
41B2512B2S	2-1/2" X 12"	6"	1-1/4"	No Wing	11.7 lbs
41B2512B2W7	2-1/2" X 12"	Footed	1-1/4"	7" Hardfaced	19.5 lbs
41B2512B2W0	2-1/2" X 12"	Footed	1-1/4"	10" Hardfaced	22 lbs

Note: The B2 series part #'s are designed to fit Land Commander machines and have the slot for the shank protector



### Front Discs to fit Brillion Equipment

Part #	Description	Center hole	Concavity	Weight/ea
P22236112S	22" X .236" plain	1-1/2" square	2-1/2"	29.0 lbs
P20197B	20" X .197" plain	1-1/2" square	Flat coulters	17.5 lbs



## □ Booted Points to fit other Short Line Subsoilers



Part #	Point size	Standard cap	Shank size	OEM	Pin/bolt size	Weight/ea.
41B1511BR	2-1/2" X 12"	None	1"	Brown	N/A	6.3 lbs
41B1511BRC	2-1/2" X 12"	3"	1"	Brown	N/A	7 lbs
41B2509BH	2-1/2" X 9"	None	1-1/4"	Bush Hog	N/A	7 lbs
41B2509BHC	2-1/2" X 9"	3"	1-1/4"	Bush Hog	N/A	7.5 lbs
41B2008FC	2-1/2" X 12"	None	N/A	Forest City	1/2" X 2"	6.5 lbs
41B2008FCC	2-1/2" X 12"	3"	N/A	Forest City	N/A	7 lbs
41B2512JD	2-1/2" X 12"	None	1-1/4"	Glencoe	N/A	9 lbs
41B2512JDC	2-1/2" X 12"	3"	1-1/4"	Glencoe	N/A	9.5 lbs
41B1511K1	1-1/2" X 11"	None	1	Kelly	N/A	6.3 lbs
41B1511K1S	1-1/2" X 11"	6"	1	Kelly	N/A	7.1 lbs
41B1511K3	1-1/2" X 11"	None	3/4"	Kelly	N/A	7.2 lbs
41B1511K3S	1-1/2" X 11"	6"	3/4"	Kelly	N/A	7.9 lbs
41B2512L	2-1/2" X 12"	None	N/A	Lely	N/A	9 lbs
41B2512LC	2-1/2" X 12"	3"	N/A	Lely	N/A	9.3 lbs
41B2012PK	2" X 12"	None	N/A	Paulk	3/8" X 2"	7.5 lbs
41B2012PKC	2" X 12"	3"	N/A	Paulk	3/8" X 2"	7.9 lbs
41B251234CPC	2-1/2" X 12-3/4"	None	1-1/4"	Brent CPC	N/A	12 lbs
41B2510PT	2-1/2" X 10"	None	1-1/4"	Pittsburgh		8 lbs
41B2510PTC	2-1/2" X 10"	3"	1-1/4"	Pittsburgh		8.5 lbs
41B2010WA2	2" X 10"	None	1-1/4"	W&A	5/16" X 2"	6.5 lbs
41B2010WA2C	2" X 10"	3"	1-1/4"	W&A	5/16" X 2"	7.2 lbs
41B2013Y	2" X 13"	None	N/A	Yetter		7 lbs
41B2013YC	2" X 13"	3"	N/A	Yetter		7.5 lbs

Note: Shark fin, full wear caps, 3" and 6" wear caps and other options are available for most subsoiler points.

## □ Points and Parts to fit Minimum-Till Subsoilers

- Parts listed below are designed to fit minimum-till subsoilers or straight-line rippers.
- All are cast from high-chrome alloy material.
- Sold in vendor units of one each.



Part #	Make/model	Description	Weight/ea.
TF801400	Blu-Jet Sub tiller II	Fall point	16 lbs
TF801300	Blu-Jet Sub tiller II	Spring point	9 lbs
TF801600	Blu-Jet Sub tiller II	Shin guard	14.5 lbs
41BUNR1511T	Unverferth/Rawson ZoneTill	Point*	6.3 lbs

\*With notch for shin guard

**TISCO**

# Subsoiler Points, Disc Coulters, and Accessories

## □ Bolt on Points to fit Flat Shank Subsoilers

- Bolt on points are designed to fit machines with flat-ended shanks.
- All parts listed below are formed from high-carbon, heat-treated steel.



Part #	Make/model	Bolt size	Point size	Center	Weight/ea.
41251BJC*	Blu-Jet	5/8" Hex	1" X 2-1/2" X 13-1/2"	3"	9.6 lbs
412013JD	Case, Landoll, John Deere	1/2" PH	1" X 2" X 13"	3"	6.7 lbs
412013JDC*	Case, Landoll, John Deere	1/2" PH	1" X 2" X 13"	3"	7.5 lbs
412512JD	John Deere	1/2" Hex	1" X 2-1/2" X 12"	2-1/4"	8.5 lbs
412512JDC*	John Deere	1/2" Hex	1" X 2-1/2" X 12"	2-1/4"	8.8 lbs
412013T	Taylor/Pittsburgh	5/8" Hex	1" X 2" X 13"	3-1/2"	7 lbs
412512L	Lilliston	1/2" Hex	1" X 2-1/2" X 12"	2-1/4"	8.5 lbs
48010014**	Brillion, Landoll, Tebben	5/8" PH	3/4" X 2-1/4" X 17-1/4"	2-1/4"	10 lbs
* 3" chrome wear cap applied					
** Reversible					

## Chrome Shank Protectors

- Chrome shank protectors are weld-on chrome alloy segments to protect or rebuild shanks.
- They are available flat or round-front style.

Part #	Description	Shank width	Weight/ea.
761713	1-3/8" X 14" flat	1"	2 lbs
761714	1-5/8" X 14" flat	1-1/4"	2.5 lbs
761687	1-3/8" X 14" round	1"	2.4 lbs
762192	1-5/8" X 14" round	1-1/4"	2.7 lbs
761688	1-7/8" X 14" round	1-1/2"	2.9 lbs
761689	2-3/8" X 14" round	2"	3.8 lbs
3847KUNWB	Cast chrome pin-on wear guard to fit Kelly and Unverferth	3/4"	4.5 lbs

## Bulk Chrome Wear Caps

- Bulk Chrome Wear Caps are weld-on chrome alloy flat caps designed to extend the wear on sub soil points or other ground engaging components.

Part #	Description	Size	Weight/ea.
761238	3" Flat cap to fit 2" point	3/8" X 2-3/8" X 3"	11.0 oz
761278	3" Flat cap to fit 2-1/2" point	3/8" X 2-7/8" X 3"	14.3 oz
762256	6" Flat cap to fit 2-1/2" point	3/8" X 2-7/8" X 6"	1.5 lbs
761670	12" Flat cap to fit 2-1/2" point	3/8" X 2-7/8" X 12"	3.4 lbs

## □ Disc Blades

### Plain

Part #	Size	Hole Size	Hole Shape
31603401	16"	1-3/4"	Round
31618141	16"	1-1/8" or 1-1/4"	Square
31691211	16"	1-1/2"	Round or Square
16DB1118S	16"	1" or 1-1/8"	Square
31911201	18"	1-1/2"	Round
31913401	18"	1-3/4"	Round
31918141	18"	1-1/8" or 1-1/4"	Square
32711201	20"	1-1/2"	Round
32713401	20"	1-3/4"	Round
32718141	20"	1-1/8" or 1-1/4"	Square
32251201	22"	1-1/2"	Round
32711203	22"	1-1/8" or 1-1/4"	Square/Round
32411201	24"	1-1/2"	Round
32413401	24"	1-3/4"	Round
32418141	24"	1-1/8" or 1-1/4"	Square



32713401

### Notched

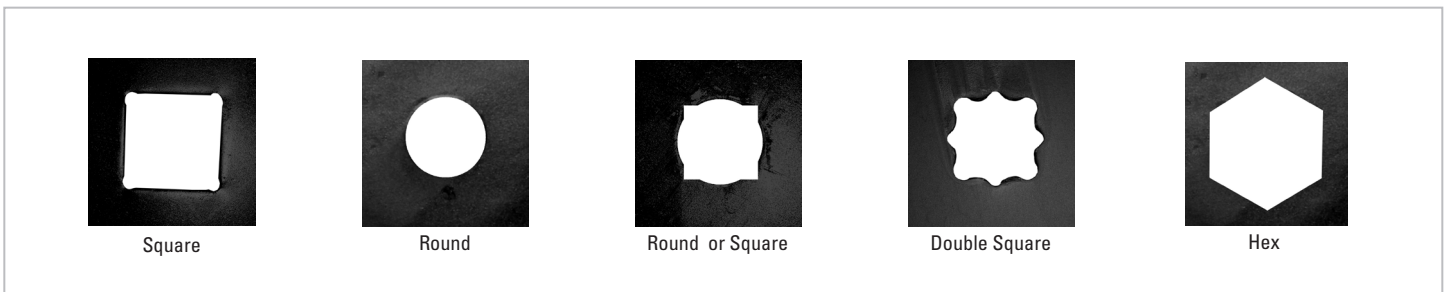
Part #	Size	Hole Size	Hole Shape
38603401	16"	1-3/4"	Round
38611181	16"	1-1/8" or 1-1/4"	Square
16NDB118S	16"	1" or 1-1/8"	Square
39903401	18"	1-3/4"	Round
39911211	18"	1-1/2"	Round
39918141	18"	1-1/8" or 1-1/4"	Square
39718141	20"	1-1/8" or 1-1/4"	Square
30022101	22"	1-3/4"	Round
39411201	24"	1-1/2"	Round
39413401	24"	1-3/4"	Round
39418141	24"	1-1/8" or 1-1/4"	Square



39903401

\*\*Note: Additional center hole sizes available

### Hole Detail





**TISCO**

## □ Precision Double-Bevel Edge Disc Blades

- Wiese disc blades are manufactured using a high-quality alloy containing a small amount of boron.
- The boron alloy also allows the blade to flex when striking an obstruction and return to its original shape, greatly reducing breakage or bending.
- Our press-formed, double-bevel edge is designed to self-sharpen as the disc wears, eliminating the need to roll or sharpen the blades.
- Diameter and thickness are specified in the table below.
- Please refer to the center hole table on page 26 to complete the part number.
- Simply add the desired center hole suffix to the part number to specify the arbor hole dimension.
- Sharpening or rolling Wiese disc blades will void the warranty.
- Sold in vendor units of one each.



**Plain-Edge**



**Notched-Edge**

### Plain-Edge Disc Blades

Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
P1411	14"	.118"	11	3 mm	1.50"	5.2 lbs
P1611	16"	.118"	11	3 mm	1.50"	7.1 lbs
P1810	18"	.128"	10	3.25 mm	1.75"	9.5 lbs
P1808	18"	.157"	8	4 mm	1.75"	8.7 lbs
P2009	20"	.138"	9	3.5 mm	2"	12.8 lbs
P2007	20"	.177"	7	4.5 mm	2"	16.3 lbs
P2207	22"	.177"	7	4.5 mm	2.5"	19 lbs
P22236	22"	.236"	3	6.0 mm	2.5"	25 lbs
P24236	24"	.236"	3	6.0 mm	3"	31.7 lbs
P2456	24"	.315" (5/16")	N/A	8.0 mm	3"	42.4 lbs
P26236	26"	.236"	3	6.0 mm	3.5"	37.1 lbs
P2656	26"	5/16"	N/A	8.0 mm	3.5"	45 lbs
P2856	28"	.315" (5/16")	N/A	8.0 mm	4.25"	59 lbs
P3238	32"	.360"	N/A	9.0 mm	4.75"	73.5 lb
P36472	36"	.472"	N/A	12.0 mm	5.125"	141.0 lb

Please refer to the center hole diagram for disc blade section on page 37 for center hole part number specifications.

### Notched-Edge Disc Blades

Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
N1411	14"	.118"	11	3 mm	1.50"	4.7 lbs
N1611	16"	.118"	11	3 mm	1.50"	7.1 lbs
N1810	18"	.128"	10	3.25 mm	1.75"	8.7 lbs
N1808	18"	.157"	8	4 mm	1.75"	10.3 lbs
N2009	20"	.138"	9	3.5 mm	2"	11.5 lbs
N2007	20"	.177"	7	4.5 mm	2"	15 lbs
N2207	22"	.177"	7	4.5 mm	2.5"	18 lbs
N22236	22"	.236"	3	6 mm	2.5"	23.6 lbs
N24236	24"	.236"	3	6 mm	3"	28.7 lbs
N2456	24"	.315" (5/16")	N/A	8 mm	3"	40 lbs
N26236	26"	.236"	3	6 mm	3.5"	37.1 lbs
N2656	26"	5/16"	N/A	8 mm	3.5"	46 lbs
N2856	28"	.315" (5/16")	N/A	8 mm	4.25"	56 lbs
N3238	32"	.360"	N/A	9 mm	4.75"	69 lbs
N36472	36"	.472"	N/A	12 mm	5.125"	137 lbs

Please refer to the center hole diagram for disc blade section on page 37 for center hole part number specifications.





## □ Flat-Center Disc Blades to fit IH



### Plain-Edge

Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
PF1808	18"	.157"	8	4 mm	1.5"	11.4 lbs
PF2007	20"	.177"	7	4.5 mm	2"	16 lbs
PF2207	22"	.177"	7	4.5 mm	2.5"	19 lbs
PF22236	22"	.236"	3	6 mm	2.5"	24.2 lbs
PF24236	24"	.236"	3	6 mm	3"	31.2 lbs
PF26236	26"	.236"	3	6 mm	3.5"	37.4 lbs

Please refer to the center hole diagram for disc blade section on page 37 for center hole part number specifications.

### Notched-Edge



Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
NF1808	18"	.157"	8	4 mm	1.5"	10.5 lbs
NF2007	20"	.177"	7	4.5 mm	2"	14.6 lbs
NF2207	22"	.177"	7	4.5 mm	2.5"	18.5 lbs
NF22236	22"	.236"	3	6 mm	2.5"	22 lbs
NF24236	24"	.236"	3	6 mm	2.5"	28.6 lbs
NF26236	26"	.236"	3	6 mm	2.5"	34.8 lbs

Please refer to the center hole diagram for disc blade section on page 37 for center hole part number specifications.

## □ Deep-cone Disc Blades to fit John Deere



### Plain-Edge

Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
PD2007	20"	.177"	7	4.5 mm	3.27"	16 lbs
PD2207	22"	.177"	7	4.5 mm	3.74"	20.8 lbs
PD22236	22"	.236"	3	6 mm	3.74"	24.2 lbs
PD24236	24"	.236"	3	6 mm	3.87"	31.2 lbs
PD26236	26"	.236"	3	6 mm	4.51"	37.4 lbs

Please refer to the center hole diagram for disc blade section on page 37 for center hole part number specifications.

### Notched-Edge



Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
ND2007	20"	.177"	7	4.5 mm	3.27"	14.6 lbs
ND2207	22"	.177"	7	4.5 mm	3.74"	19 lbs
ND24236	24"	.236"	3	6 mm	3.87"	28.6 lbs
ND26236	26"	.236"	3	6 mm	4.51"	34.8 lbs

Please refer to the center hole diagram for disc blade section on page 26 for center hole part number specifications.



TISCO

## Special Concavity Disc Blades to fit Miller

### Plain-Edge



Part #	Diameter	Thickness	Gauge	MM	Concavity	Weight/ea.
P24236134MF(front)	26"	.236"	3	6 mm	3.750"	31.2 lbs
P26236134MF(front)	26"	.236"	3	6 mm	3.00"	37.4 lbs

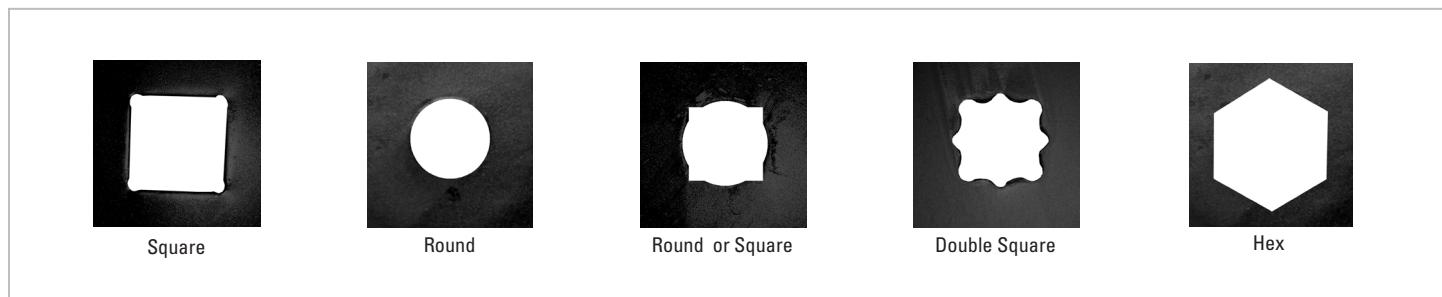
Please refer to the center hole diagram for disc blade section on page 26 for center hole part number specifications.

## Center Holes for Disc Blades

- Center hole configurations listed below are readily available for shipment.
- We have the capability to custom punch or cut most special sizes to meet your needs.
- All center holes are punched or cut 1/16" over nominal axle size.

Part # suffix to add	To fit axle or arbor size	Dual or single punch
114S	1-1/4" square	Single
112S	1-1/2" square	Single
118R	1-1/8" round	Single
114R	1-1/4" round	Single
112R	1-1/2" round	Single
134R	1-3/4" round	Single
2R	2" round	Single
781	7/8" square or 1" round	Dual
1118	1" square or 1-1/8" square	Dual
1814	1-1/8" square or 1-1/4" square	Dual
1HEX	1" hex	Single
114Hex	1-1/4" hex	Single

## Hole Detail





## ❑ OEM Disc Blade Center Hole List

O.E.M. Disc Model No.	Axle Size	O.E.M. Disc Model No.	Axle Size
<b>Allis Chalmers</b> 2100 2300	1-1/2" Square 1-1/2" Square	<b>Dunham-Lehr</b> GC 34	1-1/8" Square 1-1/2" Round
<b>AMCO</b> WOD, WTD WOE WOF, WOJ WTF, WTJ F-15 F-15 B 48 85 148 185 248 258	1-1/8" Square 1-3/8" Round 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square	<b>Ford</b> 201 202 204 219 220 221 222 223 236 240 241 243	1" Round 1" Round 1" Round 1-1/2" Square 1-1/8" Square 15/16" Round 1-1/8" Square 1-1/8" Square 1-1/2" Square 1-1/8" Square 1-1/8" Square 1-1/2" Round
<b>Athens</b> 48 62 116 126 131	1" Square 1-1/8" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square	<b>Hesston</b> 2410 2440 2420	1-3/4" Round 1-1/8" Square 1-1/8" Square
<b>Blanton</b> 4500 B900 B1000 3000H	1-1/2" Square 1-1/8" Square 1-1/8" Square 1-1/2" Square	<b>International Harvester</b> 122 132 350 370 470 475 480 485 490 500 501 596 610 630 770 780	1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Square 1-1/2" Round 1-1/2" Square 1-3/4" Square
<b>Burch</b> Kwik-Set 208 BW 209 Tru-Cut	1-1/8" Square 1-1/2" Round 1-1/8" Square 7/8" Square	<b>John Deere</b> 105 115 215 225 235 425 1630 100 110 200 & 210 Series 220 230 (Cone Disc) 310	1" Round 1-1/8" Round 1-1/2" Round 1-1/2" Round 1-1/2" Round 1-1/2" Round 1-1/2" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square
<b>Bush Hog</b> 245 346 1440 1445 1450 145 146 Reg. 146 HD 1422 1424 1432 1436 1437 1438 1439 1444 Rolling Bedder	1-1/4" or 1-1/2" Square 2-1/4" Round 1-1/8" Square 1-1/8" or 1-1/4" Square 1-1/8" or 1-1/4" Square 1-1/4" Square 1-1/4" Square 1-1/2" Square 1" or 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" or 1-1/2" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square 1-1/8" Square		





## Planter/Drill Seed Openers (Complete Assemblies)

- Planter/drill opener blades are manufactured using a high-quality alloy, hardened and heat-treated to meet or exceed OEM requirements.
- All complete assemblies include a heavy-duty hub, bearing and neoprene dust cover.
- Bearings are pressed into the hubs to maintain optimum planter performance.
- Opener assemblies can be boxed in pairs upon request.
- Sold in vendor packs of one each.



To Fit	Part #	Diameter	Thickness	Edge type	OEM#
John Deere 7000, 7100, 7200,7300 Kinze prior to 3000 series 1700 Max Emerge Max Emerge 2 Max Emerge Plus White 6000 series	<b>JD20242</b>	15"	.118" (3 mm)	Single bevel	AA20242 AA37474 GA2013  852063
Case IH (Leading) 800, 900, 950, and 955 series	<b>42ACIH90850L</b>	14"	.118" (3 mm)	Single bevel left	90850C92
Case IH (Rear) 800, 900, 950, and 955 series	<b>42ACIH90851R</b>	14"	.118" (3 mm)	Single bevel right	90851C92
White 5100, 5700 Tye drills New Idea 900, Krause	<b>42ANI852628</b>	13.5"	.118" (3 mm)	Single bevel	247169BS N/A 852628
Great Plains Drill	<b>42AGP107054S</b>	13.5"	.118" (3 mm)	Single bevel	107054S

## Planter/Drill Seed Opener Blades

To fit	Part #	Diameter	Thickness	Center	# holes	OEM#
John Deere 7000, 7100, 7200,7300 1700 Max Emerge Max Emerge 2 Max Emerge Plus	<b>JD22991</b>	15"	.118" (3 mm)	1-3/16" CH* 2-15/16" BC**	(6) 9/32"	A22291 A72357
Kinze prior to 1999 series	<b>JD22991</b>	15"	.118" (3 mm)	1-3/16" 2-15/16"	(6) 9/32"	GD1030
John Deere 7000, 7100	<b>JD22949</b>	13.5"	.118" (3 mm)	1-3/16" CH* 2-15/16" BC**	(6) 9/32"	A222949
John Deere 8300	<b>JDK202M</b>	13-1/2"	.118"	1-3/16" 2-1/2"	(6) 9/32"	K202M
John Deere 750, 1560, 1565, 1590 1690, 1850, 1860, 1890	<b>P18197JDD</b>	18"	.197" (5 mm)	3" CH* 4-3/8" BC**	(4) 3/8"	N214190
Case IH and IH 510, 5100, 620, 6200,5200	<b>IH603013</b>	13-7/8"	.118" (3mm)	1-3/8" CH* 2-1/2" BC**	(6) 9/32"	603013
Hay-Buster Vermeer 107, 147, 1575	<b>14118HBO</b>	14"	.118" (3mm)	1-3/8" CH* 2-7/8" BC** 6-1/2" BC** (12 hole, dual circle)	(6) 17/64" (6) 17/64"	7500010
Hay-Buster Vermeer 107, 147, 1575	<b>14157HBC</b>	14"	.157" (4mm)	1-3/8" CH*	(6) 35/64"	7500064
Lilliston	<b>14157L</b>	14"	.157" (4mm)	2-9/16" CH* 3-3/4" BC** 3-5/8" BC** (8 hole, dual circle)	(4) 13/32" (4) 13/32"	500-07-253
Marliss	<b>M701018</b>	15"	.118" (3mm)	1-1/2" CH* 3" BC**	(6) 3/8"	701018
Marliss M&W	<b>701010</b>	13"	.118" (3mm)	1-1/2" CH* 3" BC**	(6) 3/8"	701010
United Farm Tools 5000 series No-Till	<b>PG1199</b>	15"	.118" (3mm)	2" CH* 4" BC**	(4) 13/32" square	PG119950800057
United Farm Tools Conventional drills and Tye	<b>PG1019</b>	13-1/2"	.093"	1-1/2" CH* 2-3/4" BC** 4-1/2" BC**	(6) 7/32" (2) 5/16" square	PG119950800057 PG101955-002

\*Center hole \*\*Bolt circle



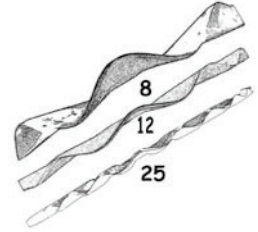
**TISCO**

# Planter/Drill Seed Opener Blades and Coulters

## □ Wavy Coulters

- Wavy coulters are designed to provide soil tilling action to no-till or minimum-till applications.
- Wavy coulters are available in four edge types.
- Field performance and tilling action differ depending on width and number of waves.


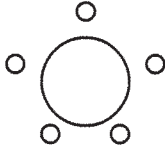
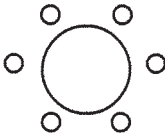
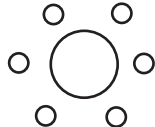
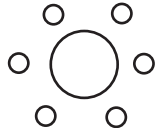

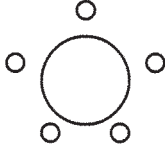
Edge Type	Penetration	Cutting Action	Soil Tilling Action	Characteristics
25 wave 5/8" wide	Very good	Very good	Good-minimum	Effective at higher speeds
12 wave 3/4" wide	Good	Good	Very good	Effective at lower speeds
8 wave 1" wide	Fair	Fair	Very good	Leaves a wider area tilled Leaves medium soil particles
8 wave 2" wide	Fair	Fair	Excellent	Maximum soil disturbance Leaves large soil particles



## □ Wavy Coulters (8 wave 2" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
<b>W17157AC</b>	17"	.157" (4 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"
<b>W17157JD</b>	17"	.157" (4 mm)	John Deere 700-7100, MaxEmerge and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
<b>W17197R</b>	17"	.197" (5 mm)	Rawson and others		<b>R</b> Center Hole: 3-3/4" Bolt Circle: 5" Bolt Holes: 6-7/16"
<b>W17157MLWR</b>	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
<b>W17157OL</b>	17"	.157" (4 mm)	Oliver/White, Great Plains, Yetter Kinze and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"

## □ Wavy Coulters (8 wave 1" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
<b>WS16157JD</b>	16"	.157" (4 mm)	John Deere 7000-7100, MaxEmerge and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
<b>WS16157JDM</b>	16"	.157" (4 mm)	John Deere Metric, 7200-7300, MaxEmerge2 and others		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"
<b>WS16157K</b>	16"	.157" (4 mm)	Kinze, Black Machine, and others		<b>K</b> Center Hole: 2" Bolt Circle: 3-3/8" Bolt Holes: 6-13/32"
<b>WS17157AC</b>	17"	.157" (4 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"
<b>WS17197AC</b>	17"	.197" (5 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"
<b>WS17157JD</b>	17"	.157" (4 mm)	John Deere 7000-7100, MaxEmerge and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
<b>WS17157JDM</b>	17"	.157" (4 mm)	John Deere 7200-7300, MaxEmerge2 and others		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"



**TISCO**

# Planter/Drill Seed Opener Blades and Coulters

## □ Wavy Coulters (8 wave 1" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
WS17157K	17"	.157" (4 mm)	Kinze, Black Machine, and others		<b>K</b> Center Hole: 2" Bolt Circle: 3-3/8" Bolt Holes: 6-13/32"
WS17157MLWR	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
WS17157OL	17"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"

## □ Wavy Coulters (25 wave 5/8" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
WY17177MLWR	17"	.177" (4.5 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
WY17177MWO	17"	.177" (4.5 mm)	Melroe/Wil-Rich, Oliver/White and Great Plains		<b>MWO</b> Center Hole: 4" Bolt Circle: (combination MWO & OL) Bolt Holes: 8-17/32"
WY17177OL	17"	.177" (4.5 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
WY16177JDM	16"	.177" (4.5 mm)	John Deere 7200-7300, MaxEmerge2 MaxEmerge Plus planters		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"





## □ Wavy Coulters (25 wave 5/8" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
WY16177JD	16"	.177" (4.5 mm)	John Deere 7000-7100, MaxEmerge Plus planters		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"

## □ Wavy Coulters (13 wave 3/4" wide)

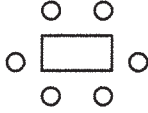

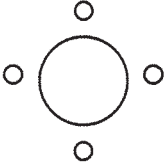
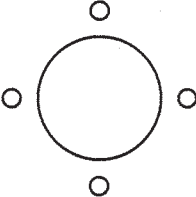
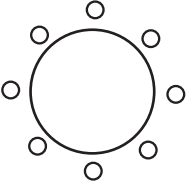
Part #	Diameter	Thickness	To fit	Center hole diagram	
WT15157OL	15"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
WT16157JD	16"	.157" (4 mm)	John Deere 7000-7100, MaxEmerge and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
WT16157JDM	16"	.157" (4 mm)	John Deere 7200-7300, MaxEmerge2 and others		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"
WT16157K	16"	.157" (4 mm)	Kinze, Black Machine, and others		<b>K</b> Center Hole: 2" Bolt Circle: 5-1/4" Bolt Holes: 6-13/32"
WT16157OL	16"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
WT17157AC	17"	.157" (4 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"



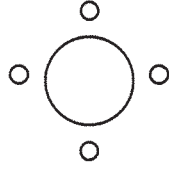
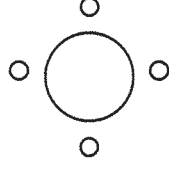



# Planter/Drill Seed Opener Blades and Coulters

**TISCO**

## □ Wavy Coulters (13 wave 3/4" wide)

Part #	Diameter	Thickness	To fit	Center hole diagram	
WT17157IH	17"	.157" (4 mm)	IH older style (plow)		<b>IH</b> Center Hole: 31/32" x 1-11/32" Bolt Circle: 3-1/4" Bolt Holes: 6-11/32"
WT17157JD	17"	.157" (4 mm)	John Deere 7000-7100, MaxEmerge and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
WT17157MLWR	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
WT17157OL	17"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
WSO20177MWO	20"	.177" (4.5 mm)	Melroe/Wil-Rich, Oliver/White and Great Plains		<b>MWO</b> Center Hole: 4" Bolt Circle: (combination MLWR and OL) Bolt Holes: 8-17/32"

## □ Notched Coulters

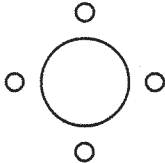
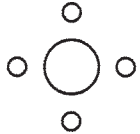
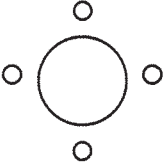

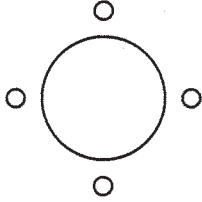
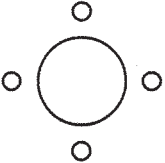
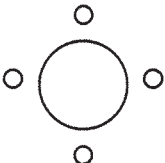
Part #	Diameter	Thickness	To fit	Center hole diagram	
<b>N16138MLWR</b>	16"	.138" (3.5 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> <b>Center Hole:</b> 3-11/16" <b>Bolt Circle:</b> 5" <b>Bolt Holes:</b> 4-17/32"
<b>N17157MLWR</b>	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> <b>Center Hole:</b> 3-11/16" <b>Bolt Circle:</b> 5" <b>Bolt Holes:</b> 4-17/32"
<b>N20197AI</b>	20"	.197" (5 mm)	Allis Chalmers, IH, Glencoe and others		<b>AI</b> <b>Center Hole:</b> 1-1/8" x 1-1/4" ds <b>Bolt Circle:</b> N/A <b>Bolt Holes:</b> N/A
<b>N22197G</b>	22"	.197" (5 mm)	Glencoe/Farmhand, Orthman and others		<b>G</b> <b>Center Hole:</b> 1-1/2" rd. <b>Bolt Circle:</b> N/A <b>Bolt Holes:</b> N/A
<b>N24236G</b>	24"	.236" (6 mm)	Glencoe/Farmhand, Orthman and others		<b>G</b> <b>Center Hole:</b> 1-1/2" rd. <b>Bolt Circle:</b> N/A <b>Bolt Holes:</b> N/A



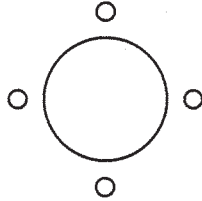


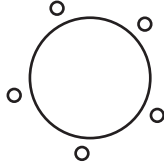


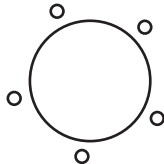
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# Planter/Drill Seed Opener Blades and Coulters

## □ Plain Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
P18157H	18"	.157" (4 mm)	Hiniker, Brillion, DMI, Sukup, Glencoe/Farmhand and others		<b>H</b> Center Hole: 2-1/2" Bolt Circle: 4" Bolt Holes: 4-17/32"
P18157W	18"	.157" (4 mm)	Wetherell, Alloway, Tebben, B&H, Noble and others		<b>W</b> Center Hole: 2-1/2" Bolt Circle: 4" Bolt Holes: 4-13/32"
P18177MLWR	18"	.17"7" (4.5 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
P18197JDD	18"	.197" (5mm)	John Deere 750, 1500, 1600, and 1800 series drill		<b>JD</b> Center Hole: 3" Bolt Circle: 4-3/8" Bolt Holes: 4-13/32"
P18177OL	18"	.177" (4.5 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
P20177H	20"	.177" (4.5 mm)	Hiniker, Brillion, DMI, Sukup, Glencoe/Farmhand and others		<b>H</b> Center Hole: 2-1/2" Bolt Circle: 4" Bolt Holes: 4-17/32"
P20177MLWR	20"	.177" (4.5 mm)	Melroe/Wil-Rich, DMI, Blue-jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"

## □ Plain Coulters


Part #	Diameter	Thickness	To fit	Center hole diagram	
P20177OL	20"	.177" (4.5 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
P20197AI	20"	.197" (5 mm)	Allis Chalmers, IH, Glencoe, Farmhand and others		<b>AI</b> Center Hole: 1-1/8" x 1-1/4" ds Bolt Circle: N/A Bolt Holes: N/A
P20197B	20"	.197" (5 mm)	Brillion and others		<b>B</b> Center Hole: 1-1/2" sq Bolt Circle: N/A Bolt Holes: N/A
P20197F	20"	.197" (5 mm)	Flex King, Miller, Noble, Sunflower and others		<b>F</b> Center Hole: 4-1/8" Bolt Circle: 5-1/2" Bolt Holes: 5-17/32"
P20197G	20"	.197" (5 mm)	Glencoe/Farmhand, DMI, Ford, Hiniker, IH, and others		<b>G</b> Center Hole: 1-1/2" rd Bolt Circle: N/A Bolt Holes: N/A
P22197D	22"	.197" (5 mm)	John Deere 712 Mulcher		<b>D</b> Center Hole: 1-1/8" sq Bolt Circle: N/A Bolt Holes: N/A
P22197F	22"	.197" (5 mm)	Flex King, Miller, Noble, Sunflower and others		<b>F</b> Center Hole: 4-1/8" Bolt Circle: 5-1/2" Bolt Holes: 5-17/32"



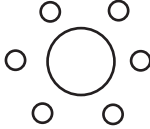
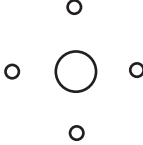
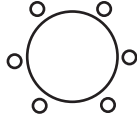
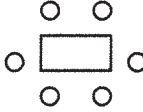

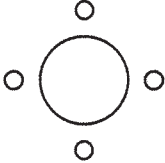
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# Planter/Drill Seed Opener Blades and Coulters

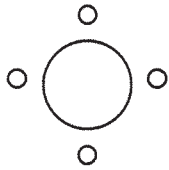
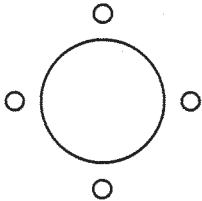
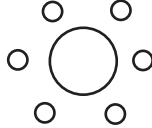
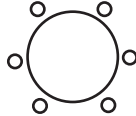
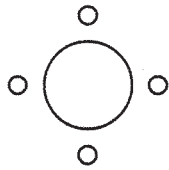
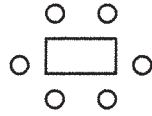

## □ Plain Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
P22197G	22"	.197" (5 mm)	Glencoe/Farmhand, DMI, Ford, Hiniker, and others		<b>G</b> Center Hole: 1-1/2" rd Bolt Circle: N/A Bolt Holes: N/A

## □ Fluted Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
F17157AC	17"	.157" (4 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"
F17157FD-4	17"	.157" (4 mm)	Ford 4-bolt and others		<b>FD-4</b> Center Hole: 2-7/32" Bolt Circle: 3-13/32" Bolt Holes: 4-1/4"
F17157FD-6	17"	.157" (4 mm)	Ford-6 bolt and others		<b>FD-6</b> Center Hole: 2-13/16" Bolt Circle: 4-1/8" Bolt Holes: 6-3/8"
F17157IH	17"	.157" (4 mm)	IH older style and others		<b>IH</b> Center Hole: 31/32" x 1-11/32" Bolt Circle: 3-1/4" Bolt Holes: 6-11/32"
F17157JD	17"	.157" (4 mm)	John Deere HS, NU and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
F17157MF	17"	.157" (4 mm)	Massey Ferguson and others		<b>MF</b> Center Hole: 3.172" Bolt Circle: 4-3/4" Bolt Holes: 4-15/32"

## □ Fluted Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
F17157MLWR	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
F17157OL	17"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
F20177AC	20"	.177" (4.5 mm)	Allis Chalmers and others		<b>AC</b> Center Hole: 1-13/16" Bolt Circle: 3-1/4" Bolt Holes: 6-13/32"
F20177FD-6	20"	.177" (4.5 mm)	Ford 6-bolt and others		<b>FD-6</b> Center Hole: 2-13/16" Bolt Circle: 4-1/8" Bolt Holes: 6-3/8"
F20177H	20"	.177" (4.5 mm)	Hiniker, Brillion, DMI, UFT, Glencoe/Farmhand and others		<b>H</b> Center Hole: 2-1/2" Bolt Circle: 4" Bolt Holes: 4-17/32"
F20177IH	20"	.177" (4.5 mm)	IH older style and others		<b>IH</b> Center Hole: 31/32" x 1-11/32" Bolt Circle: 3-1/4" Bolt Holes: 6-11/32"
F20177IHN	20"	.177" (4.5 mm)	IH newer style 720, 800 and others		<b>IHN</b> Center Hole: 1-1/2" Bolt Circle: 4-1/2" Bolt Holes: 4-17/32"



**TISCO**

# Planter/Drill Seed Opener Blades and Coulters


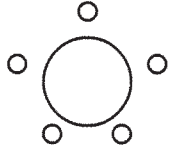
## □ Fluted Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
F20177JD	20"	.177" (4.5 mm)	John Deere HS, NU and others		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
F20177JDM	20"	.177" (4.5 mm)	John Deere NU-450 metric plow and others		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"
F20177MF	20"	.177" (4.5 mm)	Massey Ferguson and others		<b>MF</b> Center Hole: 3.172" Bolt Circle: 4-3/4" Bolt Holes: 4-15/32"
F20177MLWR	20"	.177" (4.5 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
F20177OL	20"	.177" (4.5 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"
F20177ORT	20"	.177" (4.5 mm)	Orthman and others		<b>ORT</b> Center Hole: 2-11/16" Bolt Circle: 4-1/4" Bolt Holes: 4-13/32"
F20197F	20"	.197" (5 mm)	Flex King, Miller, Noble, Sunflower and others		<b>F</b> Center Hole: 4-1/8" Bolt Circle: 5-1/2" Bolt Holes: 5-17/32"





## □ Fluted Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
<b>F22197IHN</b>	22"	.197" (5 mm)	IH newer style 720, 800 and others		<b>IHN</b> Center Hole: 1-1/2" Bolt Circle: 4-1/2" Bolt Holes: 4-17/32"
<b>F22197JDM</b>	22"	.197" (5 mm)	John Deere NU-450 metric plows and others		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"



# Planter/Drill Seed Opener Blades and Coulters

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## □ Bubble Coulters

Part #	Diameter	Thickness	To fit	Center hole diagram	
B16157K	16"	.157" (4 mm)	Kinze, Black Machine, and others		<b>K</b> Center Hole: 2" Bolt Circle: 3-3/8" Bolt Holes: 6-13/32"
B16157JD	16"	.157" (4 mm)	John Deere NU-HS plows 7000-7100, and MaxEmerge		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
B17157JD	17"	.157" (4 mm)	John Deere NU-HS plows 7000-7100, and MaxEmerge		<b>JD</b> Center Hole: 2" Bolt Circle: 3-1/2" Bolt Holes: 6-13/32"
B17157JDM	17"	.157" (4 mm)	John Deere NU-450 plow 7200-7300, and MaxEmerge2		<b>JDM</b> Center Hole: 2-1/8" Bolt Circle: 4-3/4" Bolt Holes: 5-33/64"
B17157MLWR	17"	.157" (4 mm)	Melroe/Wil-Rich, DMI, Blue-Jet Progressive and others		<b>MLWR</b> Center Hole: 3-11/16" Bolt Circle: 5" Bolt Holes: 4-17/32"
B17157OL	17"	.157" (4 mm)	Oliver/White, Great Plains, Kinze, Yetter and others		<b>OL</b> Center Hole: 4" Bolt Circle: 5-1/4" Bolt Holes: 4-17/32"



## □ Plow Parts

- Wiese plow parts, including shares, shins, moldboards, landsides and trashboards, are manufactured using high-carbon, heat-treated steel.
- The LW series plow shares are upset forged, making the nose section of the plowshare resistant to breakage and wear.
- Rib plow shares have a rib centered horizontally for added strength and wear.
- Plow parts are listed below according to make and bottom series.
- Please remember when replacing one part on a plow, it may be necessary to loosen other parts to allow for wear.
  - For example, when replacing the shin it may be necessary to loosen the mold-board and the share to allow the new part to fit. Then simply tighten other parts when proper alignment is achieved.
- Plow share are also available hard surfaced.
- Sold in vendor packs of 6 each and packed with nuts and bolts unless otherwise specified.
- Rib shares do not include bolts and nuts.

### To fit Allis Chalmers 387 Series (Dropped Front Hole)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
347966	Moldboard (vendor unit 1ea)	(5) 3/8"	14" - 16" - 5/16"	347966	30 lbs
LAC14487	14" rock share LW	(1) 1/2" (3) 7/16"	14" - 3/8"	347750	47 lbs ctn/6
LAC16487	16" rock share LW	(1) 1/2" (3) 7/16"	16" - 3/8"	347749 572181 572184	53 lbs ctn/6
RS163874	16" rib share	(1) 1/2" (3) 7/16"	16" - 3/8"	347749 572181 572184	47 lbs ctn/6
LAC18487	18" rock share LW	(1) 1/2" (3) 7/16"	18" - 3/8"	573307	57 lbs ctn/6
WAC13	Shin	(2) 3/8"	14" - 16" - 5/16"	347649	24 lbs ctn/6
819W	Landside inner plate	(2) 1/2"	1/2" inner plate	349819	44 lbs ctn/6
868W	Wear pad	(2) 1/2"	1/2" wear pad		20 lbs ctn/6
TBUV	Trashboards	(2) 3/8"	5/16"		32 lbs ctn/6

### To fit Allis Chalmers 387 Series (In Line Holes)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
LML7052	18" rock share LW	(1) 1/2" (3) 7/16"	18" - 3/8"	6528797 6528798	52 lbs ctn/6

### To fit Case Series EXA, B, C, D and E

Part#	Description	# of bolt holes	Size	OEM#	Weight/ea.
EX16	Moldboard (vendor unit 1ea)	(7) 3/8"	16" - 5/16"	T60001	28 lbs
LCA464	14"/16" rock share LW	(1) 1/2" (3) 3/8"	16" - 3/8"	T39134 T39135	47 lbs ctn/6
RSC464	16" rib share	(1) 1/2" (3) 3/8"	16" - 3/8"	347749 572181	47 lbs ctn/6
WCA16	Shin 16"	(2) 3/8"	16" - 5/16"	T60003	28 lbs ctn/6



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# Plow Parts

## To fit DMI (Hydro-Wide)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
R41916	Moldboard (vendor unit 1ea)	(5) 7/16"	16"-18"-5/16"	33111601	30 lbs
R41916L	Moldboard(left)(vendor unit 1ea)	(5) 7/16"	16"-18"-5/16"LH	33111601L	30 lbs
LML164	16" rock share LW	(4) 7/16"	16" - 3/8"	33131640	46 lbs ctn/6
RSML16	16" rib share	(4) 7/16"	16" - 3/8"	33131600	52 lbs ctn/6
LML184	18" rock share LW	(4) 7/16"	18" - 3/8"	33131840	52 lbs ctn/6
RSML18	18" rib share	(4) 7/16"	18" - 3/8"	33131800	47 lbs ctn/6
WO9	Shin	(2) 7/16"	16"-18"-5/16"	33111602	29 lbs ctn/6
4253W	Landside inner plate	(1) 5/8" (3) 7/16"	1/2" Inner Plate	33141602	51 lbs ctn/6
4256W	Wear pad	(2) 7/16"	1/2" Wear Pad	33141601	23 lbs ctn/6

## To fit Ford (General Purpose and Heavy-Duty Series)



104409



LFD164



980W

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
104409	Moldboard (vendor unit 1ea)	(5) 7/16"	14"-5/16"	104409	27 lbs
104412	Moldboard (vendor unit 1ea)	(5) 7/16"	16" - 5/16"	104412	30 lbs
RSF12	12" rib share	(3) 7/16"	12" - 3/8"	105203A	37 lbs ctn/6
LFD144	14" rock share LW	(4) 7/16"	14" -3/8"	7100369	42 lbs ctn/6
RSF144	14" rib share	(4) 7/16"	14"-3/8"	7100369	42 lbs ctn/6
LFD164	16" rock share LW	(4) 7/16"	16"-3/8"	7100370	47 lbs ctn/6
RSF164	16" rib share	(4) 7/16"	16"-3/8"	7100370	47 lbs ctn/6
LFD185	18" rock share LW	(5) 7/16"	18"-3/8"	7101980	54 lbs ctn/6
WFD3S	Shin	(2) 7/16"	12"-16"-5/16"	201344	22 lbs ctn/6
980W	Landside front (after 1958)	(1) 7/16" (1) 5/8"	1/2" front	107980	35 lbs ctn/6
981W	Landside rear (after 1958)	(1) 7/16" (3) 5/8"	1/2" rear	107981	59 lbs ctn/6



## To fit Ford (Series 150, 151, 152, 154 \*Oliver/White Bottoms)



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
R41916	Moldboard (vendor unit 1ea)	(5) 7/16"	16" - 5/16"	R419-16	30 lbs
R41916L	Moldboard (vendor unit 1ea)LH	(5) 7/16"	16" - 5/16" left	R419-16L	30 lbs
R61918	Moldboard (vendor unit 1ea)	(5) 7/16" (1) 7/16"	18" - 5/16"	R619-18	32 lbs
LOL164	16" rock share LW (4) hole	(1) 1/2" (3) 7/16"	16" - 3/8"	SBP219627BF	30 lbs ctn/6
LOL164L	16" rock share LW (4) hole (left hand)	(1) 1/2" (3) 7/16"	16" - 3/8"		30 lbs ctn/6
RSO164	16" rib share	(1) 1/2" (3) 7/16"	16" - 3/8"	SBP219627BF	47 lbs ctn/6
LOL685	18" rock share LW (5) hole	(1) 1/2" (4) 7/16"	18" - 3/8"	SBP219629BF	47 lbs ctn/6
RSO185	18" rib share	(1) 1/2" (4) 7/16"	18" - 3/8"	SBP219629BF	52 lbs ctn/6
WO9	Shin	(2) 7/16"	12" - 18"-5/16"	EP7490C	52 lbs ctn/6
WO9L	Shin left	(2) 7/16"	12" - 18"-5/16"	217404BS	22 lbs ctn/6
379W	Landside inner plate	(1) 5/8" (2) 1/2"	1/2"	SBP220379B	60 lbs ctn/6
919W	Landside wear pad for 379W	(2) 5/8"	3/4"	SBP220919B	62 lbs ctn/6

## To fit IH Super Chief



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
462314	Moldboard (vendor unit 1ea) w/ bolt*	(4) 7/16"	16"-18"-20"-5/16"	462314R 488265R 58996C	33 lbs
464603	Moldboard (vendor unit 1ea) LH	(4) 7/16"	16"-18"-20"-5/16"	46403L	33 lbs
LIMF143	Rock share 14" 3 hole	(1) 1/2" (2) 7/16"	14"-3/8"	463244R 179349A1	42 lbs ctn/6
LIH144	Rock share 14" 4 hole	(1) 1/2" (3) 7/16"	14"-3/8"	463236R	42 lbs ctn/6
RSI144	14" rib share	(1) 1/2" (3) 7/16"	14"-3/8"	1980953	42 lbs ctn/6
LIMF163	Rock share 16" 3 hole	(1) 1/2" (3) 7/16"	16"-3/8"	463245R	47 lbs ctn/6
LIH164	Rock share 16" 4 hole	(1) 1/2" (3) 7/16"	16"-3/8"	46323R	47 lbs ctn/6
RSI164	16" rib share	(1) 1/2" (3) 7/16"	16"-3/8"	1980954	47 lbs ctn/6
LIH184	Rock share 18" 4 hole	(1) 1/2" (3) 7/16"	18"-3/8"	463238R	52 lbs ctn/6
LIH184L	Rock share 18" 4 hole (left hand)	(1) 1/2" (3) 7/16"	18"-3/8"		52 lbs ctn/6
RSI184	18" rib share	(1) 1/2" (3) 7/16"	18-20"-3/8"	1980956	52 lbs ctn/6
WI25	Shin	(2) 7/16"	14"-16"-18"-5/16"	522325R 488266R	24 lbs ctn/6
WI25L	Shin left hand	(2) 7/16"	14"-16"-18"-5/16"	55075C 464595	24 lbs ctn/6
058UV	Landside wear plate	(2) 7/16"	1/2"	59058	22 lbs ctn/6
058UVL	Landside wear plate LH	(2) 7/16"	1/2"	59058	22 lbs ctn/6
59057	Landside inner plate	(1) 7/16" (2) 1/2"	1/2"	59057	45 lbs ctn/6
59057L	Landside inner plate LH	(1) 7/16" (2) 1/2"	1/2"	1980671	45lbs ctn/6
TBIH	Trashboard	(2) 3/8"	5/16"		31.5 lbs

\*High Speed



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# Plow Parts

## To fit John Deere (series HS356, 400, 500, and SDT)



LJD14-4



262W



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
HS316	Moldboard (vendor unit 1ea) w/bolt	(7) 7/16"	16"-5/16"	A20702	32 lbs
LJD14-4	Rock share 14" 4 hole	(3) 7/16" (1) 1/2"	14"-3/8"	A10225	42 lbs ctn/6
RSJD144	14" rib share	(1) 1/2" (3) 7/16"	14"-3/8"	A10225	42 lbs ctn/6
WD5	Shin 14"	(2) 7/16"	14"-5/16"	A14700	23 lbs ctn/6
WD6	Shin 16"	(2) 7/16"	16"	A14702	25 lbs ctn/6
493W	Landside inner plate	(2) 1/2"	1/2"	AA16493	27 lbs ctn/6
262W	Landside wear pad	(2) 7/16"	1/2"	AA15262 A16495	24 lbs ctn/6
494W	Landside inner plate LH	(2) 7/16"	5/16"	AA16494	27 lbs ctn/6
263W	Landside wear pad LH	(2) 7/16"	5/16"	AA15263 A16496	23 lbs ctn/6
TBJD	Trashboards	(2) 7/16"	5/16"		31 lbs ctn/6

## To fit John Deere (NU 1036-1046 and NU1048)



LJD16-4



WD3

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
NU1036	Moldboard (vendor unit 1ea)	(7) 7/16"	16"-5/16"	A15596	32 lbs
NU1048	Moldboard (vendor unit 1ea)	(8) 7/16"	18"-5/16"	A17431	38 lbs
NU1048L	Moldboard (vendor unit 1ea) LH	(8) 7/16"	18"-5/16"	A17432	38 lbs
LJD16-4*	Rock share 16" 4 hole	(1) 1/2" (3) 7/16"	16"-3/8"	A10227	47 lbs ctn/6
RSJD164	16" rib share	(1) 1/2" (3) 7/16"	16"-3/8"	A10227	47 lbs ctn/6
LJD185	Rock share 18"-20" 5 hole	(1) 1/2" (4) 7/16"	18"-3/8"	A14243	52 lbs ctn/6
LJD185L	Rock share 18"-20" 5 hole (left hand)	(1) 1/2" (4) 7/16"	18"-3/8"		52 lbs ctn/6
RSJD185	18" rib share	(1) 1/2" (4) 7/16"	18"-3/8"	A10225	42 lbs ctn/6
WD3	Shin	(2) 7/16"	16"-18"-5/16"	A15594	26 lbs ctn/6
WD3L	Shin left	(2) 7/16"	16"-18"-5/16"	A15606	26 lbs ctn/6
493W**	Landside inner plate	(2) 1/2"	1/2"	AA16493	27 lbs ctn/6
262W	Landside wear pad	(2) 7/16"	1/2"	AA15262 A16495	23 lbs ctn/6
494W	Landside inner plate LH	(2) 1/2"	1/2" inner plate left	AA16494	27 lbs ctn/6
263W	Landside wear pad	(2) 7/16"	0	AA15263 A16496	23 lbs ctn/6
TBJD	Trashboards	(2) 7/16"	5/16"		32 lbs ctn/6

\* 4 hole share can be used in place of 5-hole share, share covers last hole

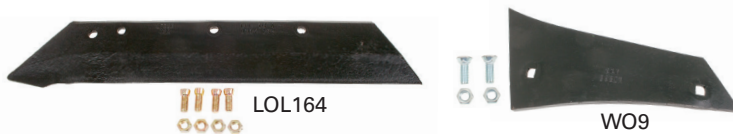
\*\* The 493W and wear pad may be used to replace the older 146W (front) 979 (rear) Landslide. The 493 W may be used front or rear.



## To fit John Deere (NU 400-NU450 "metric" series)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
32210	Moldboard (vendor unit 1ea)	(4) 7/16"	16"-5/16"	32210	33 lbs
32209	Moldboard (vendor unit 1ea) LH	(4) 7/16"	18"-5/16"	32209	38 lbs
LJDM163	Rock share 16" LW	(3)16mm	16"-3/8"	A32221	55 lbs ctn/6
LJDM183	Rock share 18" LW	(3)16mm	18"-3/8"	A42808	57 lbs ctn/6
RSJDM183	18" rib share	(3) 16mm	18"-3/8"	A42808	52 lbs ctn/6
LJDM203	Rock share 20" LW	(3)16mm	20"-16mm	A32223	66 lbs ctn/6
WD29	Shin	(2) 7/16"	16"-20"-5/16"	A30129	28 lbs ctn/6
862W	Landside wear pad (2) hole	(2) 5/8"	1/2" wear pad	A27862	34 lbs ctn/6
47716W	Landside wear pad (3) hole	(3) 5/8"	1/2" wear pad	A45226	53 lbs ctn/6
TBJD	Trashboards	(2) 7/16"	5/16"		32 lbs ctn/6

## To fit Minneapolis Moline NL, and David Brown General Purpose



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
R41914	Moldboard (vendor unit 1ea)	(5) 7/16"	14"-5/16"	20P34 HS-138	27 lbs
R41916	Moldboard (vendor unit 1ea)	(5) 7/16"	16"-5/16"	20P42 HS-139	30 lbs
LOL144	Rock share 14" LW	(1)1/2" (3) 7/16"	14"-3/8"	HD14FCO 22013BS	42 lbs ctn/6
RSO144	14" rib share	(1)1/2" (3) 7/16"	14"-3/8"	220016BS	42 lbs ctn/6
LOL164	Rock share 16" LW	(1)1/2" (3) 7/16"	16"-3/8"	HD16FCO 220116BS	47 lbs ctn/6
LOL164L	16" rock share LW (4) hole (left hand)	(1) 1/2" (3) 7/16"	16" - 3/8"		30 lbs ctn/6
RSO164	16" rib share	(1) 1/2" (3) 7/16"	16"-3/8"	110013BS	47 lbs ctn/6
WO9	Shin	(2) 7/16"	14"-20"-5/16"	7490	21 lbs ctn/6

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# Plow Parts

## To fit Massey Ferguson (N bottom)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
660022	Moldboard (vendor unit 1ea)	(5) 7/16"	14"-5/16"	660010-M1 660022-M-91	27 lbs
660204	Moldboard (vendor unit 1ea)	(5) 7/16"	16"-5/16"	660204-M1 660206	29 lbs
66165IL	Moldboard (vendor unit 1ea)	(5) 7/16"	16"-5/16"	66165L	29 lbs
LIMF143	Rock share 14" 3 hole LW	(3) 7/16"	14"-3/8"	463244M1	42 lbs ctn/6
RSIMF143	14" rib share	(3) 7/16"	14"-3/8"	463244M1	42 lbs ctn/6
LMF144	Rock share 14" 4 hole LW	(4) 1/2"	14"-3/8"	475161M1	42 lbs ctn/6
LIMF163	Rock share 16" 3 hole LW	(3) 7/16"	16"-3/8"	463245M1	47 lbs ctn/6
RSIMF163	16" rib share	(3) 7/16"	16"-3/8"	463245M1	47 lbs ctn/6
LMF164	Rock share 16" 4 hole LW	(4) 1/2"	16"-3/8"	475716M1	47 lbs ctn/6
RSMF164	16" rib share	(4) 1/2"	16"-3/8"	475716M1	47 lbs ctn/6
LMF184	Rock share 18" LW	(4) 1/2"	18"-3/8"	475823M1	52 lbs ctn/6
RSMF184	18" rib share	(4) 1/2"	18"-3/8"	475823M1	52 lbs ctn/6
LMF68488	Rock share 16"/18" 88 series 4 hole	(4) 1/2" last hole is 15" from the front	16"-3/8"	4375197M1	52 lbs ctn/6
WMFS	Shin	(2) 7/16"	14"-16"-18"-5/16"	660008M1	21 lbs ctn/6
WMFSL	Shin LH	(2) 7/16"	12"-18"-5/16"	661584	21 lbs ctn/6
475W	Landside (newer N & 88 series) Front or rear	(2) 7/16" (1) 5/8" (2) 1/2" plain hole	1/2"	475153M1F 475973M1R	60 lbs ctn/6
058UV	Landside wear pad for 475W	(2) 7/16"	1/2"		22 lbs ctn/6

## To fit Melroe (Oliver Style Bottoms)



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
R41914	Moldboard (vendor unit 1ea)	(5) 7/16"	14"-5/16"	6522181	27 lbs
R41916	Moldboard (vendor unit 1ea)	(5) 7/16"	16"-5/16"	6522185	30 lbs
R41916L	Moldboard (vendor unit 1ea) LH	(5) 7/16"	16"-5/16"	6522185L	30 lbs
LML144	Rock share 14" LW	(4) 7/16"	14"-3/8"	6526827	42 lbs ctn/6
RSML14	14" rib share	(4) 7/16"	14"-3/8"	6526827	42 lbs ctn/6
LML164	Rock share 16" LW	(4) 7/16"	16"-3/8"	6526832	47 lbs ctn/6
RSML16	16" rib share	(4) 7/16"	16"-3/8"	6526832	47 lbs ctn/6
LML184	Rock share 18" LW	(4) 7/16"	18"-3/8"	6526829	52 lbs ctn/6
RSML18	18" rib share	(4) 7/16"	18"-3/8"	6526829	52 lbs ctn/6
WO9	Shin	(2) 7/16"	14"-18"-5/16"	6522182	21 lbs ctn/6
WO9L	Shin left	(2) 7/16"	14"-18"-5/16"		21 lbs ctn/6
6000W	Landside inner plate	(3) 7/16" (1) 1/2"	1/2" inner plate	6526000	60 lbs ctn/6
847W	Landside wear pad	(2) 7/16"	1/2" wear pad	6526847	22 lbs ctn/6
TBUV	Trashboards	(2) 3/8"	5/16"		32 lbs ctn/6



## To fit Melroe (987 Series) \*AC 387 Bottom

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
347966	Moldboard (vendor unit 1ea)	(5) 3/8"	16"-5/16"	65209020	30 lbs
LML7052	Rock share 18" LW	(1) 1/2" (3) 7/16"	18"-3/8"	6528798 6528798	52 lbs ctn/6
WAC13	Shin	(2) 3/8"	16"-18"-5/16"	652091	24 lbs ctn/6
819W	Landside inner plate	(2) 5/8" (2) 1/2"	1/2"	6526543	43 lbs ctn/6
TBUV	Trashboard	(2) 3/8"	5/16"		32 lbs ctn/6

## To fit Oliver/White 588 and 598 Series (Deep-Till Bottom)



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
220746	Moldboard (vendor unit 1ea)	(6) 7/16"	18"-20"-5/16"	220746BS	33 lbs
LOL205	Rock share 20" LW	(1) 1/2" (4) 7/16"	20"-3/8"		54 lbs ctn/6
WO81	Shin	(2) 7/16"	18"/20"	220381B	24 lbs ctn/6
379W	Landside inner plate	(1) 5/8" (2) 1/2"	1/2"	220379B	60 lbs ctn/6
919W	Landside wear pad	(2) 5/8"	3/4"	220919B	62 lbs ctn/6
TBUV	Trashboard	(2) 3/8"	5/16"		31.5 lbs ctn/6

## To fit Wil-Rich (Oliver Style Bottom)



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
R41916	Moldboard (vendor unit 1ea)	(5) 7/16"	18"-5/16"	215802 A4258	30 lbs
LWR164	Rock share 16" LW	(4) 1/2"	16"-3/8"	215804/143	3 47 lbs ctn/6
RSWR16	16" rib share	(4) 1/2"	16"-3/8"	215804	47 lbs ctn/6
LWR184	Rock share 18" LW	(4) 1/2"	18"-3/8"	14255	52 lbs ctn/6
RSWR18	18" rib share	(4) 1/2"	18"-3/8"	14255	52 lbs ctn/6
WO9	Shin	(2) 7/16"	16"-18"/20"	213022 A4257	21.5 lbs ctn/6
4253W	Landside inner plate	(1) 5/8"	1/2"	14253 215111	51 lbs ctn/6
4256W	Landside wear pad	(2) 7/16"	1/2"	14256 215225	62 lbs ctn/6
TBUV	Trashboard	(2) 3/8"	5/16"		31.5 lbs ctn/6



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# Plow Parts

## To fit Wil-Rich (Deep-Till Bottom)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
NU1036	Moldboard	(7) 7/16"	18"-5/16"	20038 20035	32 lbs
LWR18D	Rock share 18" LW	(4) 1/2"	18"-3/8"	20033	52 lbs ctn/6
WWR34	Shin	(2) 7/16"	18"-5/16"	20034 20037	26 lbs ctn/6
4256W	Landside wear pad	(2) 7/16"	1/2"	14256 215225	62 lbs ctn/6
TBJD	Trashboard	(2) 3/8"	5/16"		31.5 lbs ctn/6



## □ Two-Way Plow Parts

- Two-way plow parts are manufactured using high-carbon, heat-treated steel.
- Moldboards and Shins are manufactured using solid steel.
- Landsides are sold in vendor units of 6 each packed with required nuts and bolts.
- All other parts are sold in vendor units of 1 without bolts.



### To fit Harrell

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
7921736	Moldboard	(8) 1/2" plow head	19-7/8" X 17-1/2" X 1/4"	7921736	30 lbs
SWH79006	Double end share	(5)		7900636	11.5 lbs
SWH79028	Double end share HS	(5)		7902836	12 lbs
RSH79006	Double end share rib	(5) 7/16"		7900636	11.5 lbs ea
7920836	Shin (lower) chrome			7920836	1.6 lbs ctn/6
9820736	Shin (upper) steel			9820736	1.9 lbs ctn/6
79010W	Landside (short)	(2)	1/2"	79010W	23 lbs ctn/6
79206W	Landside (long)	(4)	1/2"	218270B	46 lbs ctn/6

### To fit Long

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
SWL791406	Double end share	(5)		B791406	11.5 lbs
79010W	Landside	(2)	1/2"	791404W	23 lbs ctn/6



### To fit John Deere (two way)

Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
57264	Moldboard	(6)	19-7/8" X 17-1/2"	P-57264	21 lbs
SWD57270	Double end share	(4)		57270	11.5 lbs
SWD57043	Double end share HS	(4)		57043	12 lbs
RSD57270	Double end share rib	(4) 7/16"	27-1/2" - 3/8"	RSD57270	11.5 lbs ctn/6
57265	Shin (left)	(3)	left	P-57265	5.6 lbs ctn/6
57266	Shin (right)	(3)	right	P-57266	5.6 lbs ctn/6
57522	Landside (reversible)	(4)	5/16" (use 2 stacked for longer wear)		8.2 lbs
57046	Wear pad	(2)	1/2"		3.83 lbs



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## ❑ Kverneland Plow Point

To fit Kverneland Plows (A,B, BA, C and D series)



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
53090	Plow point	(2) 7/16" CH	9-1/2" x 2-1/2" 7/16" reversible	53090	15 lbs ctn/6

## ❑ Deep-Suck Shares to fit IH

- Deep-suck shares to fit IH are manufactured using high-carbon, heat-treated steel.
- The special design includes a long nose for superior penetration and suction.
- The deep suck plowshare is ideal for use on tougher soils where it is difficult to keep the plow in the ground or when deeper penetration is desired.
- Available hard-surfaced or left hand upon request.
- Sold in vendor units of one each without bolts.



Part #	Description	# of bolt holes	Size	OEM#	Weight/ea.
LIH18DS	Deep suck plow share	(1) 1/2" (3) 7/16"	3/8"	463254	9.2 lbs

## ❑ Wiese Conservation Deep-Till System

- Wiese conservation deep-till system is proven to provide the ideal combination of deep tillage, soil mixing and proper management of nutrients while meeting most conservation guidelines.
- This special moldboard converts your existing plow into a conservation tillage tool by allowing 35%-65% of crop residue to stay on the surface while shattering and mixing all soil at a depth of up to 14".
- Residue amounts and tillage depths will vary depending on the make or model of the plow, field conditions and the adjustment of your machine.
- The conservation deep-till system replaces only the moldboard on the plows listed below.
- Conservation moldboards are manufactured using high-carbon, heated-treated steel.
- Sold in vendor units of one each packed with bolts and nuts.



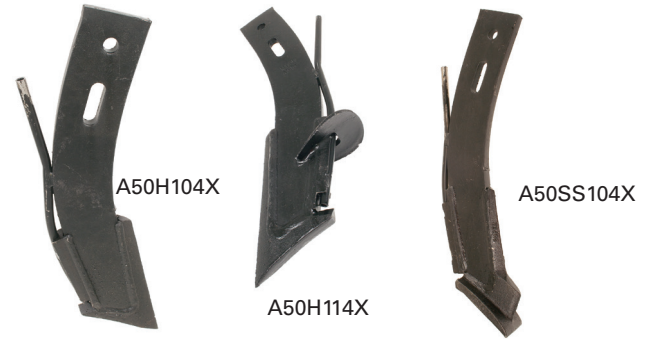
To fit	OEM#	Wiese part #	Bottom size	Weight/ea.
IH Super Chief 700 and 800 series	462314 488265 58996	<b>MBIH462314</b>	14"-20"	12 lbs
JD NU-1048 series	A17431	<b>MBJD1048</b>	18"	12 lbs
Oliver/White also some DMI, Case, and Ford w/Oliver bottoms	R419, R619	<b>MBOL61918</b>	16"-20"	14 lbs

Remember to check shins and shares for wear when replacing moldboards.



## □ Front-Swept Knives

- Front-swept knives are manufactured with universal hole and slot punches to fit most side-mount fertilizer applicators.
- All knives are manufactured using high-carbon, heat treated steel.
- Most knives are available with high-chrome alloy inserts for superior wear and durability.
- Part numbers listed below are set up with standard 3/8" steel tubes and chrome tube protectors where available.
- Please refer to fertilizer knife accessories and options in our fertilizer knife catalog.



Part #	Description	Shank size	Chrome insert	Tube protector	Weight/ea.
A50H104X	Std knife	1/2" x 2-1/2"	Yes	Yes	6.3 lbs
A50H114X	Std knife				
A50UVX104X	Drop-forged knife	1/2" x 2"	Yes	Yes	5.5 lbs
A50SK103X	Heavy-duty knife	1/2" x 2-1/2"	Yes	Yes	7 lbs
A50SS104X	Super sealer (wide foot)	1/2" x 2-1/2"	Yes (heavy)	Yes	6.6 lbs
A50SSXL104P	Extra long knife	1/2" x 2-1/2"	Yes (heavy)	Sideplates	11.3 lbs
CO501000	Extra-thin knife (coultter)	3/8" x 2"	No	No	3.2 lbs
A50MM104X	Minimum movement knife	1/2" x 2"	Yes (heavy)	Yes	5.8 lbs

## □ Back-Swept Knives

- Back-swept knives are manufactured with universal hole and slot punches to fit most side-mount fertilizer applicators.
- Back-swept knives are manufactured using high-carbon, heat-treated steel.
- Knives are available with hard-surfacing or high-chrome alloy inserts on wear areas.
- Chrome tube protectors are available if applicable.
- All knives listed below are set up standard with 3/8" tubes.
- Other tube options and sealers are available.
- Please refer to fertilizer knife accessories and options in our fertilizer knife catalog.



Part #	Description	Shank size	Chrome insert	Tube protector	Weight/ea.
A50VT1000	Thin curved knife; Short (13-1/2")	3/8" x 2"	No	No	3.1 lbs
A50VT1010	Thin curved knife; Hardsurfaced	3/8" x 2"	No	No; (Hardfaced in front of tube)	3.3 lbs
A50BK104X	Angled knife; Heavy duty	1/2" x 2-1/2"	Yes Full w/foot	Yes	6.8 lbs



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# Miscellaneous Parts

## □ Furrower Points

- Furrower points are manufactured using high-carbon, heat treated steel.
- Sold in vendor units of one each.



424102540



Part #	Width	Bolt hole size	Thickness	Weight/ea.
424102540	10"	7/16"	1/4"	6.4 lbs
H1112UB	12"	7/16"	1/4"	8.8 lbs
H1115UB	15"	7/16"	1/4"	12.4 lbs
H1118UB	18"	7/16"	1/4"	16.2 lbs
36FP312	3"	7/16"	3/8"	3.8 lbs

Note: Other furrowers may be available. Please contact our customer service department for your specific furrower requirements.

## □ Crescent Hoes

- Crescent hoes are manufactured using high-carbon, heat treated steel.
- Sold in vendor units of one each.



Part #	Description	Bolt hole	Centers	Weight/ea.
1016R	6" X 1/4" crescent hoe (right)	3/8"	1-1/4" to 2"	1.9 lbs
1017L	6" X 1/4" crescent hoe (left)	3/8"	1-1/4" to 2"	1.9 lbs

## □ 1LO Crimp-On Tooth

- Big Ox points are designed to fit HP-5B-946 scarifier shanks and other equipment.
- These high-chrome alloy points are slip-on type and interchange with Caterpillar #HP-5B-946 and Hensely #2DH5572H.
- Sold in vendor units of one each.



Part #	Description	Weight/ea.
41WOX	Big Ox slip on point (chrome)	3 lbs

## □ Big Ox Points

- 1LO crimp-on tooth designed to fit most box scrapers and small rippers with 3/4" to 1" shanks.
- Fits Hamby, Roll-A-Cone, Bingham, Johnson, Great Plains, Woods, Tayorway, Howard, Texas Ripper, and others.
- Sold in vendor units of one each.

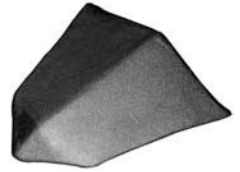


Part #	Description	Weight/ea.
41W1LO	Crimp-on point w/1" wide boot	2 lbs
41W1LOC	Crimp-on point w/1" wide boot and chrome cap	2.3 lbs
41W1LOC2	Crimp-on point w/1" wide boot and 6" finned chrome cap	3.2 lbs



## □ Weld-On Repairs

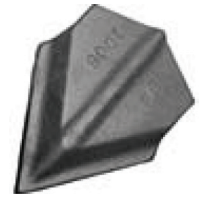
- Weld-on repairs are designed to repair worn lister points by placing a new drop-forged point on worn or rounded lister shovels.
- Sold in vendor units of one each.



Part #	Description	Size	Weight/ea.
L400	Drop-forged repair point	4-3/4" wide x 5" long	1.6 lbs

## □ Chrome Points (Weld-On)

- Chrome points (weld-on) are cast using high-chrome for superior wear.
- Weld-on chrome points are used to extend the life of sweeps and chisel points.
- The chrome points are used in highly abrasive soils and high acreage situations.
- Sold in vendor units of one each.



Part #	Description	Weight/ea.
761006	Chisel point cap-over	1 lbs

## □ Chrome Points

- Chrome points to fit drill shoes are cast using high-chrome alloy for superior wear and durability.
- Sold in vendor units of one each including mounting hardware.

Part #	Description	Weight/ea.
762014	John Deere spear point -also fits Acra-Plant, Crustbuster, Great Plains, and My-D Han-D	3.6 lbs
762004	IH Eagle Beak with V	.6 lbs
762015	IH Eagle Beak	.7 lbs
762010	Acra-Plant Z-6 bolt on point	.8 lbs
762010P	Acra-Plant Z-6 pin on point	.8 lbs



762014



762004



762015



762010



762010P



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## Clipped Head Bolts

- Clipped head bolts are used primarily on plow shares, landsides and 3-piece chisel points.



Part #	Description	Length	Box qty.	1/4 Keg qty.
BCH38114	3/8" CH	1-1/4"	100	1000
BCH716114	7/16" CH	1-1/4"	100	750
BCH716114L	7/16" CH (left)	1-1/4"	100	750
BCH716112	7/16" CH	1-1/2"	100	500
BCH7162	7/16" CH	2"	100	500
BCH12138	1/2" CH	1-3/8"	100	500
BCH12138L	1/2" CH (left)	1-3/8"	100	500
BCHM16M40	16 mm	40 mm	50	400

## #3 Plow Head Bolts

- #3 plow head bolts are used primarily on shins, moldboards, landsides, chisel spikes and others.



Part #	Description	Length	Box qty.	1/4 Keg qty.
BPH38114	3/8" PH	1-1/4"	100	650
BPH716114	7/16" PH	1-1/4"	100	700
BPH716112	7/16" PH	1-1/2"	100	650
BPH716134	7/16" PH	1-3/4"	100	600
BPH7162	7/16" PH	2"	50	500
BPH716212	7/16" PH	2-1/2"	50	400
BPH716312	7/16" PH	3-1/2"	50	250
BPH12112	1/2" PH	1-1/2"	100	400
BPH12134	1/2" PH	1-3/4"	100	400
BPH12212	1/2" PH	2-1/2"	50	300
BPH123	1/2" PH	3"	50	250
BPH12312	1/2" PH	3"	50	250
BPH582	5/8" PH	2"	50	200
BPH58212	5/8" PH	2-1/2"	50	200
BPH583	5/8" PH	3"	50	200

## Special Head Bolts

- Special head bolts are designed to convert 3/8" shank holes to accommodate 7/16" punch sweeps on field cultivators.
- These bolts have a 7/16" head with 3/8" threaded body.



Part #	Description	Length	Box qty.	1/4 Keg qty.
BPH7163812	7/16" head 3/8" body	1-1/2"	100	500





## □ Special Head Bolts

- **Special head bolts** are designed to convert 7/16" shank holes to accommodate 1/2" hole punch chisel spikes on chisel plows.
- These bolts have a 1/2" head with 7/16" threaded body.



Part #	Description	Length	Box qty.	1/4 Keg qty.
BPH1276212	1/2" head 7/16 " body	2-1/2"	50	400

## □ Elliptical Head Bolts

- **Elliptical head bolts** are designed to fit Danish or "S" tine sweeps



Part #	Description	Length	Box qty.	1/4 Keg qty.
BWK	3/8" EH	1-1/2"	100	1300

## □ Hex Head Bolts

- **Hex head bolts** used on SD225 and SD235 heavy duty chisel spikes, some bolt on subsoil points, DT3 and CP65 dual tillage knives.



Part #	Description	Length	Box Qty.	1/4 Keg qty.
BCS716212	7/16" Hex head	N/A	100	2500
BCS12212	1/2" Hex head	N/A	100	1500

## □ Hex Head Nuts



Part #	Description	Length	Box qty.	1/4 Keg qty.
BHN38	3/8"	N/A	100	2500
BHN716	7/16"	N/A	100	1500
BHN716L	7/16" left	N/A	100	1500
BHN12	1/2"	N/A	100	1250
BHN12L	1/2" left	N/A	100	1250
BHN58	5/8"	N/A	100	1000
BHN34	3/4"	N/A	100	1000
BHNM16	16 mm	N/A	100	500



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