



NORWEST

MANUFACTURING

71 SOUTH 215 WEST-RUPERT, ID- PHONE: (208) 436-1770 - FAX: (208) 436-1776

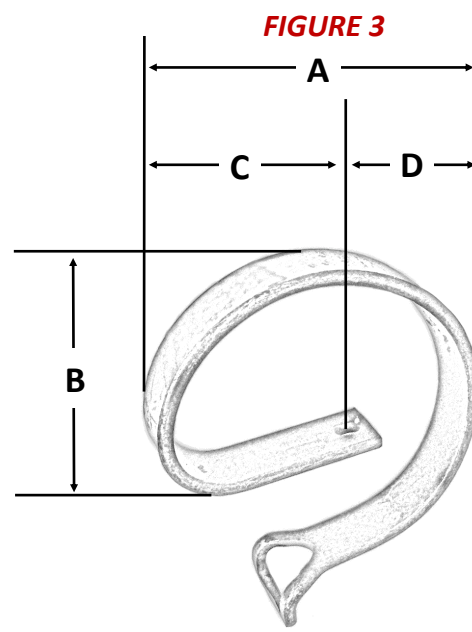
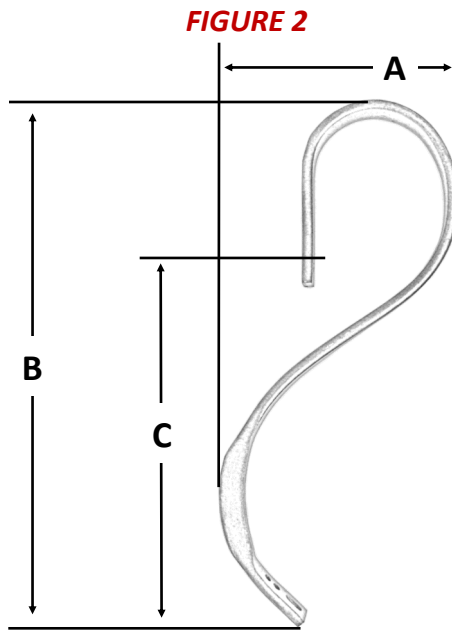
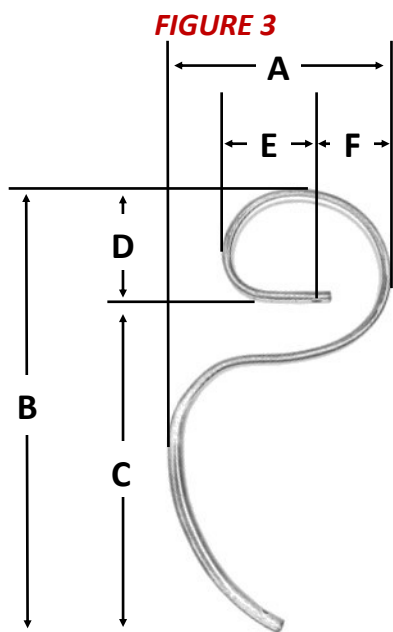
SECTION 200 -20 S-TINES, SHANKS & FOOT PIECES



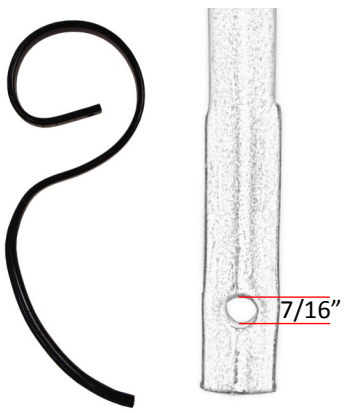
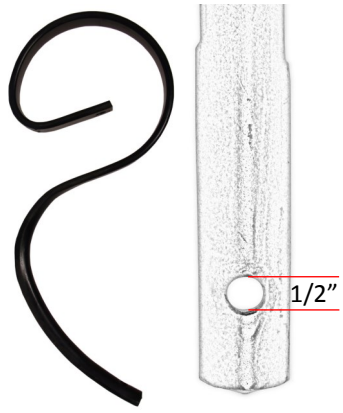
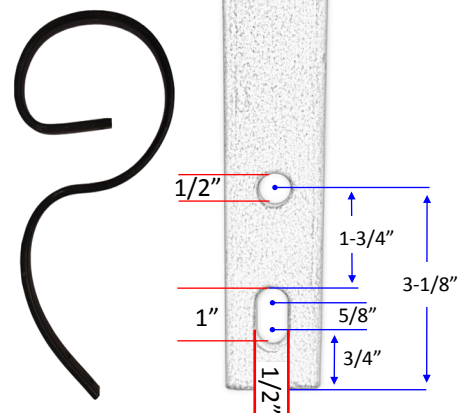
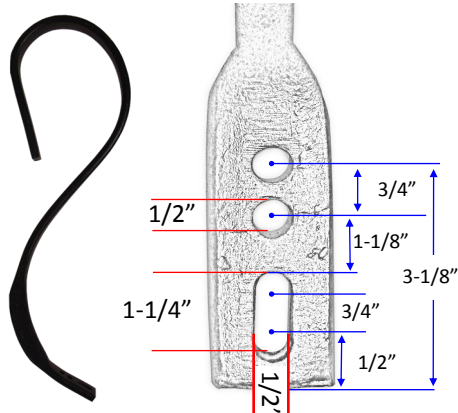
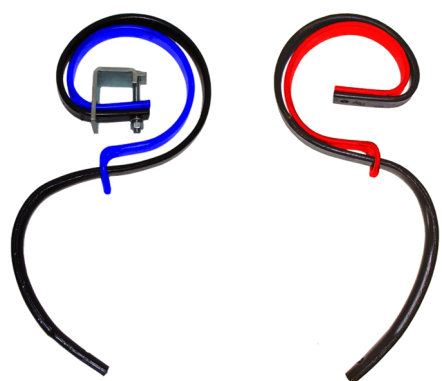


DANISH "S" TINE SHANKS

PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT	A	B	C	D	E	F
				SEE FIGURE 1					
S6620	SHORT ; FOR RAU W/POINT	1/4" X 1"	2.41 LBS.	7"	12-1/2"	8-1/2"	3-7/8"	3-1/8"	2-3/4"
S6623	STANDARD SHANK	3/8" X 1-1/4"	5.87 LBS.	12-5/8"	21"	14-1/4"	6-5/8"	5"	4-1/2"
S6624	HEAVY DUTY SHANK	1/2" X 1-1/4"	7.03 LBS.	12-5/8"	21"	14-1/2"	6-11/16"	5-1/2"	4-3/4"
S6668	HIGH CLEARANCE SHANK	1/2" X 1-1/4"	7.35 LBS.	12"	25-7/8"	19-1/4"	6-1/2"	5"	4"
S6670	HEAVY DUTY; HIGH CLEARANCE SHANK	1/2" X 1-3/4"	11.27 LBS.	13-5/8"	26"	19-1/2"	6-9/16"	5-3/8"	5-1/8"
S6672	PENETRATOR TINE	1/2" X 1-1/2"	8.95 LBS.	11"	22-1/4"	15-5/8"	6-5/8"	5-1/2"	5"
				SEE FIGURE 2					
S6674	TRUE DEPTH; VERTICAL MOUNT SHANK for ALLOWAY & ELMERS	5/8" x 1-3/4"	13.95 LBS.	13-3/8"	30"	20-5/8"	--	--	--
S6677	HEAVY DUTY; TRUE DEPTH; VERTICAL MOUNT SHANK	3/4" X 1-3/4"	16.67 LBS.	13-1/8"	29-1/8"	19-1/2"	--	--	--
				SEE FIGURE 3					
S6623H	HELPER SPRING for S6623	3/8" X 1-1/4"	3.30 LBS.	7.625"	5.50"	4.25"	3.25"	--	--
S6670H	HELPER SPRING for S6670	1/2" X 1-3/4"	5.50 LBS.	9.125"	5.625"	5.50"	3.875"	--	--



DANISH "S" TINE FOOT PIECE MEASUREMENTS

 S6623, S6624 & S6668	 S6670	 S6672
 S6674 & S6677	 S6623H S6670H	HOW HELPER SPRINGS WORK  S6623 with S6623H & SC2160 Clamp S6670 with S6670H

DANISH "S" TINE CLAMPS

PART	PART NUMBER	USED ON	BAR SIZE	WEIGHT
 ↑ SC2130 ↕ SC2165 ↓ 	SC2130	Danish "S" Tine Clamp for 10mm or 12mm Tines	3/8" X 2" Bar	0.55 LBS.
	SC2134	Danish "S" Tine Clamp for 10mm or 12mm Tines	2" Square Bar	0.86 LBS.
	SC2150	Danish "S" Tine Clamp for 12mm Tine	2" Square Bar	0.70 LBS.
	SC2155	Danish "S" Tine Clamp for 32mm X 10 mm or 12mm Tine	2-1/2" Square Bar	1.00 LBS.
	SC2160	Danish "S" Tine Clamp for 45mm X 12mm Tine	2" Square Bar	1.00 LBS.
	SC2165	Danish "S" Tine Clamp for 45mm X 12mm Tine	2-1/2" Square Bar	1.19 LBS.
	SC2166	Danish "S" Tine Clamp for 45mm X 12mm Tine	3" Square Bar	1.39 LBS.

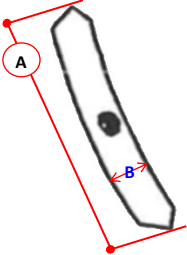
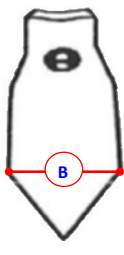
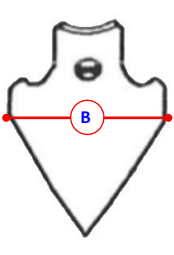
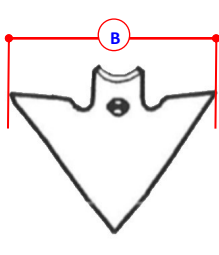
DANISH "S" TINE SWEEPS & POINTS

PART #			SIZE	ORIGIN	MEAS. (A)	MEAS. (B)
PLAIN	HARDFACED	TUFF KOAT®				
TPVA01	THVA01	TDVA01	1/4" X 1"	IMPORT	8" <i>POINT</i>	1-5/8"
TPVA01T*			1/4" X 1"	IMPORT	8" <i>POINT</i>	1"
*This point is used to Scratch & Thatch Hay. See Above (↑) for Picture.						
TPVA15	THVA15	TDVA15	1/4" X 1-1/2"	IMPORT	8-1/2" <i>POINT</i>	1-3/4"
TPVA25	THVA25	TDVA25	1/4" X 2"	IMPORT	10" <i>POINT</i>	2"
TPVA02	THVA02	TDVA02	1/4" X 2-3/4"	IMPORT	N/A	2-3/4" GOOSE FOOT
TPVA04	THVA04	TDVA04	1/4" X 4"	IMPORT	N/A	4" GOOSE FOOT
TPVA44	THVA44	TDVA44	1/4" X 4"	IMPORT	N/A	4" WINGED
TPVA07	THVA07	TDVA07	1/4" X 7"	IMPORT	N/A	7" WINGED
TPVA09	THVA09	TDVA09	1/4" X 9"	IMPORT	N/A	9" WINGED
TPVA10	THVA10	TDVA10	1/4" X 10"	IMPORT	N/A	10" WINGED
TPVM07	THVM07	TDVM07	1/4" X 7"	DOMESTIC	N/A	7" WINGED
TPVM10	THVM10	TDVM10	1/4" X 10"	DOMESTIC	N/A	10" WINGED

SOLID CHROME SWEEPS & POINT

CVS-01	<i>SOLID CHROME</i>	IMPORT	6" <i>POINT</i>	1"
CVS-02	<i>SOLID CHROME</i>	IMPORT	N/A	2-3/4" GOOSE FOOT
CVS-04	<i>SOLID CHROME</i>	IMPORT	N/A	4" GOOSE FOOT
CVS-07	<i>SOLID CHROME</i>	IMPORT	N/A	7" WINGED

MORE SWEEPS AVAILABLE. REFER TO: SECTION 100 - TILLAGE

			
REVERSIBLE DANISH POINT	GOOSE FOOT SWEEP	4" GOOSE FOOT SWEEP	WINGED DANISH SWEEP

ELLIPTICAL HEAD BOLTS for <u>NON-CHROME</u> DANISH APPLICATIONS			HEX BOLTS for <u>CHROME</u> DANISH APPLICATIONS	
	PART #	DESCRIPTION	PART #	DESCRIPTION
	SB3858	Danish 3/8" x 1-1/2" Elliptical Head Bolt w/Nut	FHB38150G5	3/8" x 1-1/2" Hex Bolt less Nut
	SB3878	Danish 3/8" x 1-3/4" Elliptical Head Bolt w/Nut	FHN38	3/8" Hex Nut (Sold Separately)

*Sweeps may be ordered with the following prefixes:

• TP = *PLAIN* • TH = *HARDFACED* • TD = *TUFF KOAT®* (NOT AVAILABLE ON *SOLID CHROME SWEEPS*)

**Not all styles in stock.

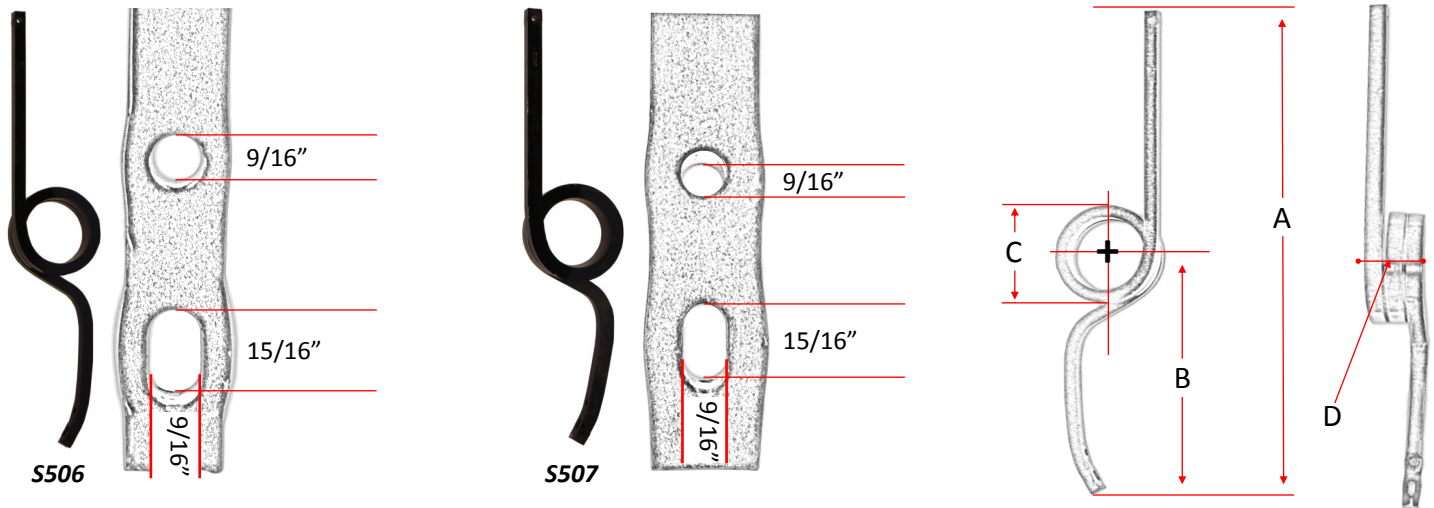
Call Norwest Mfg. for pricing and availability.

COIL SHANKS

1" & 1-1/4" COIL SHANKS

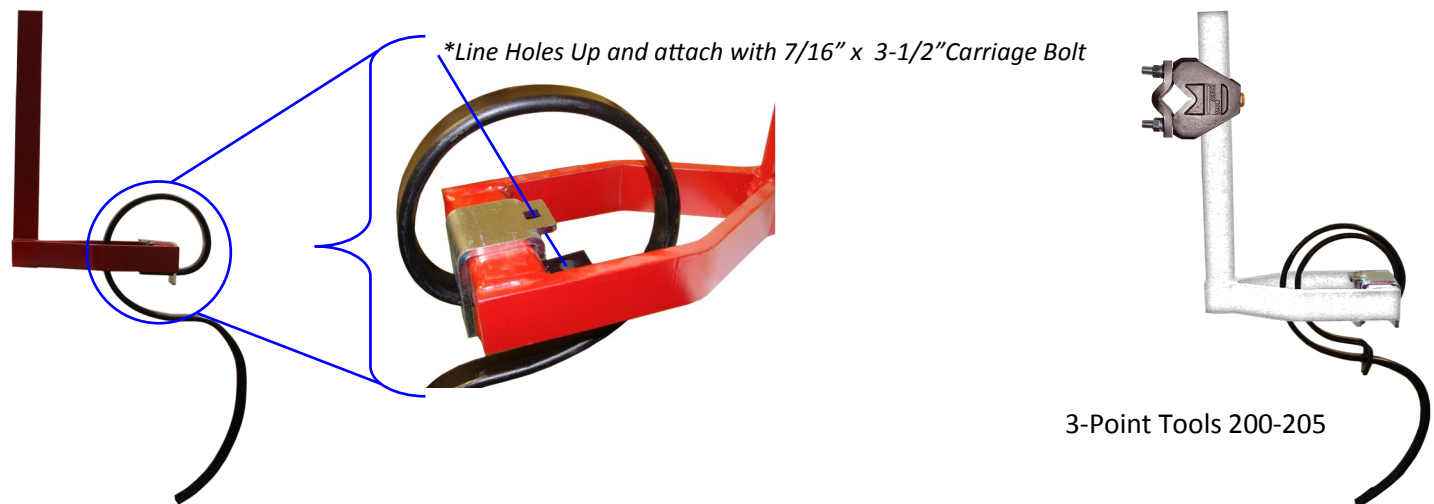
PART	DESCRIPTION	MATERIAL	WEIGHT	A	B	C	D
S506	VERTICAL MOUNT	1" X 1"	22.21 LBS.	38-1/2"	19"	8"	3-1/8"
S507	VERTICAL MOUNT	1-1/4" x 1-1/4"	36.35 LBS.	38"	18-1/2"	9"	4"

HOLE SPACING: 1-3/4" - 2-1/4" to Accommodate Various Field Cultivator Points.
USE WITH: 4040A Clamp for 2-1/4" Ø Bars or 4040LP Clamp for 4" X 4" Tool Bars



SINGLE ROW "S" TINE CULTIVATORS

PICTURE	PART NUMBER	DESCRIPTION	MATERIAL
	S-101A	Single Shank Bracket Less "S" Tine	5/8" X 2" Shank
	S-101HA	Heavy Duty Single Shank Bracket Less "S" Tine	1" X 3" Shank
	Bottom Left Photo: S-101A with S6624 S-Tine & SC2150 S-Tine Clamp		



Center Buster Shanks

NORWEST PART #	DESCRIPTION	CHROME TIP	CHROME EDGE	WEIGHT
SC-30	5/8" X 2" X 30" Plain Shank; LESS Chrome Point	--	--	10.54 LBS.
SC-N30	5/8" X 2" X 30" Shank; With CJD20 bolt-on High Chrome Alloy Point		--	11.05 LBS.
SC-34	3/4" X 2-1/2" X 34" Plain Shank; Less Chrome Point	--	--	17.28 LBS.
SC-N34	3/4" X 2-1/2" X 34" Shank; With CJD20 bolt-on High Chrome Alloy Point		--	17.98 LBS.
Z-SCCN30	5/8" X 2" X 30" Standard; with CN3034 Chrome Edging	--		12.32 LBS.
SCC-N30	5/8" X 2" X 30" Standard; with CJD20 Chrome Point and CN3034 Chrome Edging			13.34 LBS.
Z-SCCN34	3/4" x 2-1/2" x 34" Standard; with CN3034 Chrome Edging	--		18.11 LBS.
SCC-N34	3/4" x 2-1/2" x 34" Standard; with CJD20 Chrome Point and CN3034 Chrome Edging			19.13 LBS.
SC-34ST	3/4" X 2-1/2" X 34" Straight Shank; LESS Chrome	--	--	15.28 LBS.
SC-N34ST	3/4" X 2-1/2" X 34" Straight Shank; with CJD20 Chrome Point		--	16.30 LBS.
S-130	1" X 3" X 36" Sundance Shank; Less Chrome	--	--	33.52 LBS.
SC-SD130	1" X 3" X 36" Sundance Shank; with C1030 Chrome Shin Guard	--		36.91 LBS.
SCP-SD130	1" X 3" X 36" Sundance Shank; with C1030 Chrome Shin Guard and CD-830 High Alloy Chrome Point			39.09 LBS.
SCP-SD3425	3/4" X 2-1/2" X 36" Sundance Shank; beveled, hard faced, with CD-830 High Alloy Chrome Point		--	36.01 LBS.

For More Information on Chrome Alloy Applications, Please Refer to:
Section 700 - Chrome Alloy



TILLAGE TOOLS for GRAINGER APPLICATIONS



Norwest Part #

G-6L



Norwest Part #

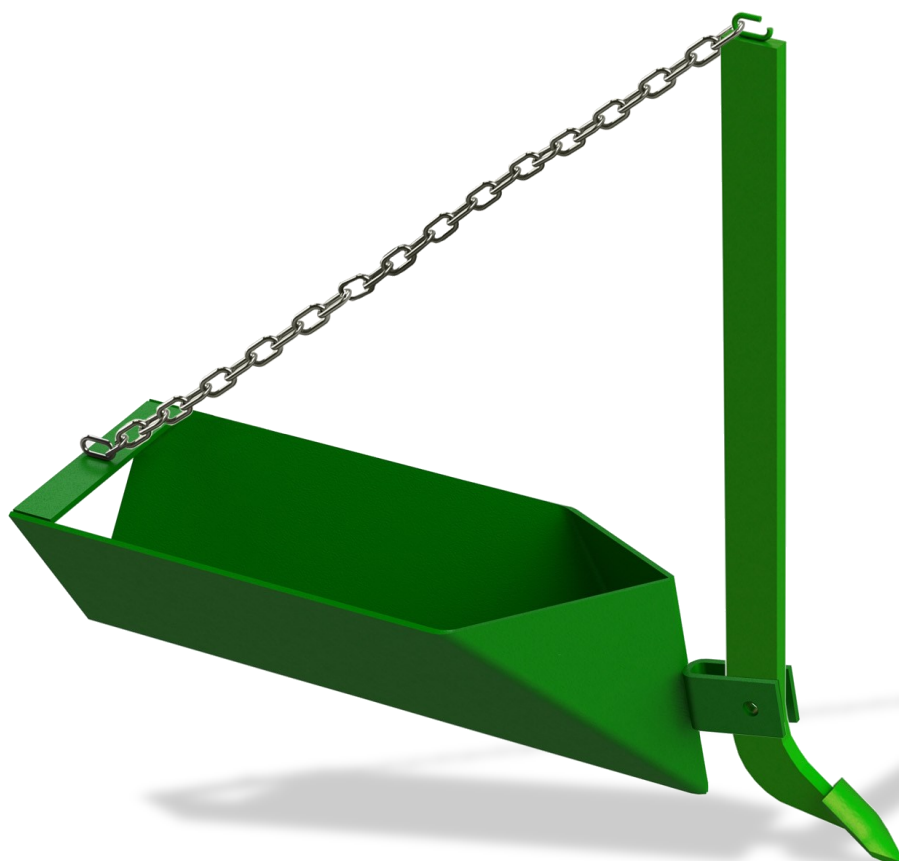
SGP-EDP20



Norwest Part #

TPGS-EDP

PART #	DESCRIPTION	DIMENSIONS	WEIGHT EACH (Approx.)
SHOVEL CORRUGATORS for GRAINGER			
G-6S	Grainger Style 6" Small Shovel Corrugator	6" Height x 24" Long	23.22 LBS.
G-6L	Grainger Style 8" Large Shovel Corrugator	8" Height x 24" Long	30.95 LBS.
SHANKS for GRAINGER			
SGP-EDP20	5/8" X 2" Shank with TPGS-EDP Point	5/8" X 2" X 31-1/2"	11.07 LBS.
CHROME POINTS for GRAINGER SHANKS			
TPGS-EDP	Solid Steel Point for Grainger Shank	3/8" X 1-5/8" x 3-1/2"	0.46 LBS.
<i>For additional tillage parts refer to: SECTION 100 - TILLAGE</i>			



Norwest Part #'s
SGP-EDP20 Shank
 shown with
G-6L Shovel Corrugator

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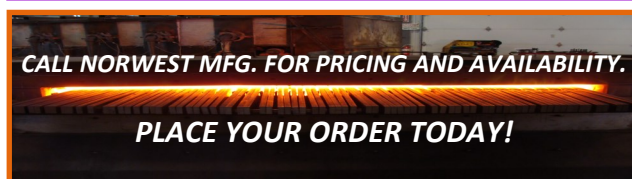
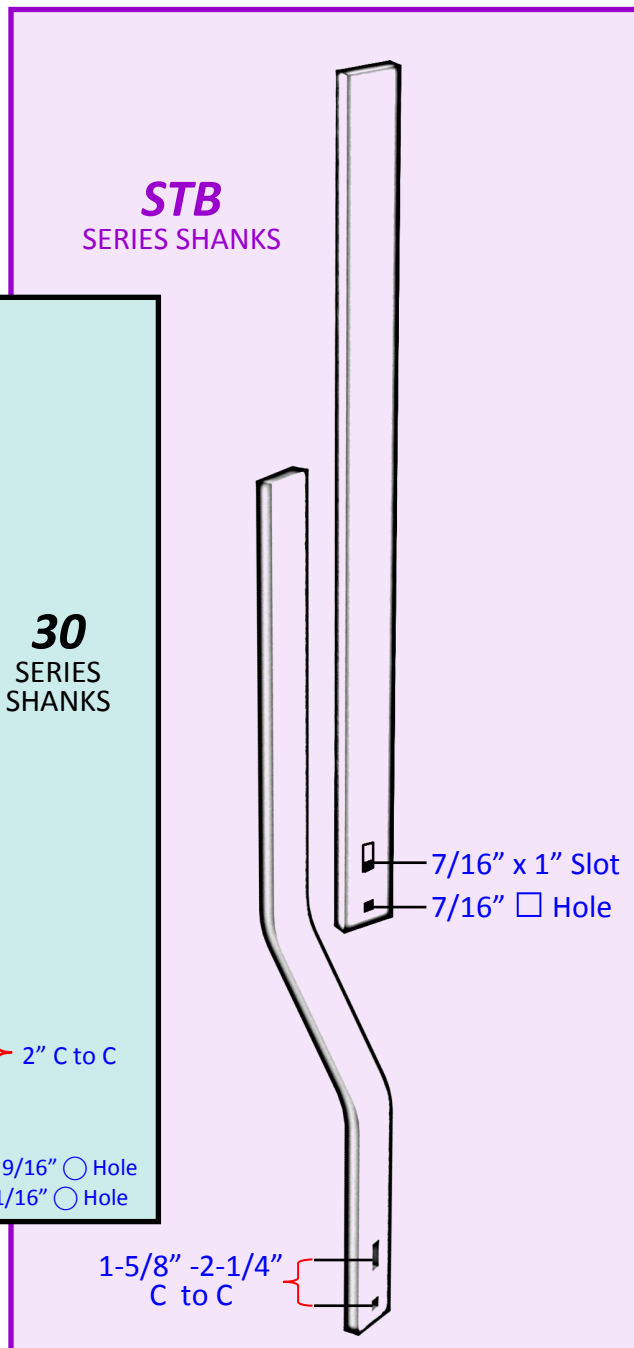
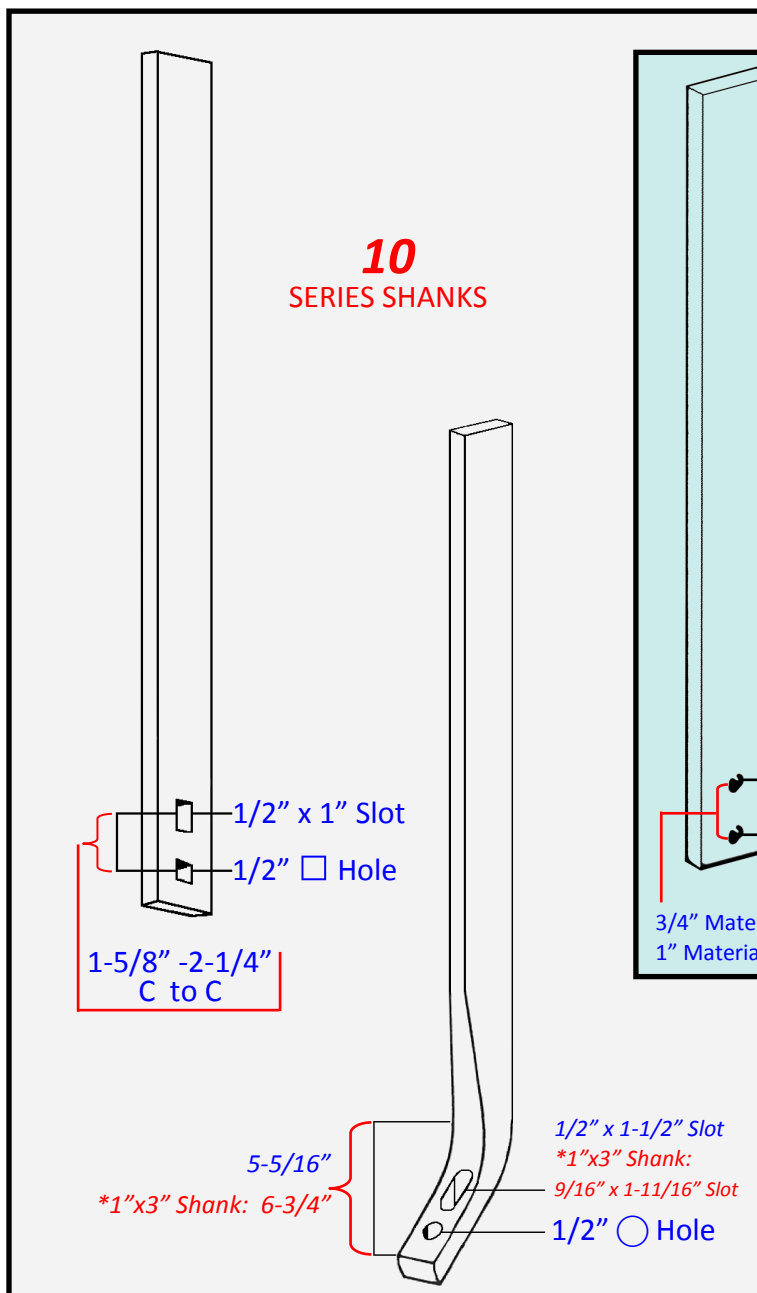
3-Point Tools 200-207

***Not all styles in stock. Call Norwest Mfg. for pricing and availability.*

NORWEST

Shanks & Standards

Norwest Shanks and Standards are made of Carbon Spring Steel and are of unsurpassed quality. A complete range of sizes are available in both the Forged Foot and Straight Shank designs. Upper holes are not available in any **Forged Foot** shank.



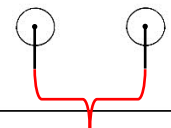
STRAIGHT / FLAT

Cultivator Shanks & Standards

STRAIGHT / FLAT SHANKS

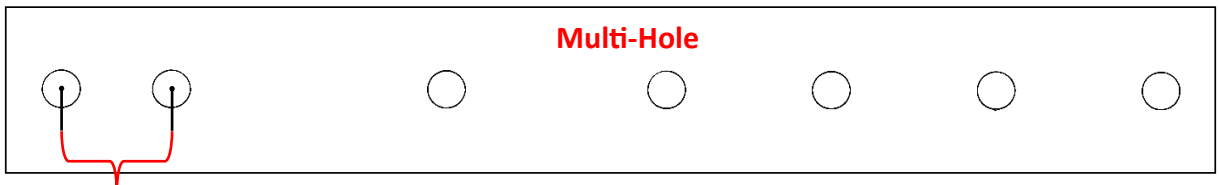
PART	PART NUMBER	HOLE/SLOT SIZE	DESCRIPTION	WEIGHT
 108011	10 SERIES SHANKS: Rigid Straight Cultivator Shanks			
	108011	1/2" □ Hole 1/2" x 1" Slot	5/8" X 1-1/2" X 24"	6.38 LBS.
	108083	1/2" □ Hole 1/2" x 1" Slot	5/8" X 1-1/2" X 26"	6.92 LBS.
	108012	1/2" □ Hole 1/2" x 1" Slot	5/8" X 2" X 28"	9.95 LBS.
	108014	1/2" □ Hole 1/2" x 1" Slot	3/4" X 2-1/2" X 28"	14.92 LBS.
 S3030	30 SERIES STANDARDS: Rigid Straight Cultivator Shanks			
	S3426	9/16" ○ Hole	3/4" X 2-1/2" X 26" (Std. 2 Hole: See Below)	13.83 LBS.
	S3022	11/16" ○ Hole	1" X 3" X 22" (Multi-Hole: See Below)	18.77 LBS.
	S3030	11/16" ○ Hole	1" X 3" X 30" (Standard 2 Hole)	26.65 LBS.
	S3032	11/16" ○ Hole	1" X 3" X 32" (Standard 2 Hole)	27.23 LBS.
	S3036	11/16" ○ Hole	1" X 3" X 32" (Standard 2 Hole)	30.60 LBS.
	S3042	11/16" ○ Hole	1" X 3" X 42" (Standard 2 Hole)	35.70 LBS.
	S3048	11/16" ○ Hole	1" X 3" X 48" (Standard 2 Hole)	40.80 LBS.
 STB-10	STB SERIES STANDARD: Rigid Straight Cultivator Shank			
	STB-10	7/16" □ Hole 7/16" x 1" Slot	5/8" X 2" X 30"	10.38 LBS.

Standard 2 Hole



2" Center to Center

Multi-Hole



2" Center to Center

FORGED FOOT

Cultivator Shanks & Standards

FORGED FOOT SHANKS

PART	PART NUMBER	HOLE/SLOT SIZE	DESCRIPTION	WEIGHT
	108000 <i>(Empire Part # TB-4)</i>	1/2" x 1-1/2" Slot; 1/2" ○ Hole	5/8" X 1-1/2" X 24"	6.04 LBS.
	108001 <i>(Empire Part # TB-40)</i>	1/2" x 1-1/2" Slot; 1/2" ○ Hole	5/8" X 2" X 30"	10.08 LBS.
	108084	1/2" x 1-1/2" Slot; 1/2" ○ Hole	5/8" X 1-1/2" X 26"	6.55 LBS.
	108002	1/2" x 1-1/2" Slot; 1/2" ○ Hole	3/4" X 2-1/2" X 30"	15.69 LBS.
	108071 <i>(Empire Part # TB-41)</i>	1/2" x 1-1/2" Slot; 1/2" ○ Hole	3/4" X 2-1/2" X 36"	19.13 LBS.
	108056 <i>(Empire Part # TB-44)</i>	9/16" x 1-11/16" Slot; 1/2" ○ Hole	1" X 3" X 36"	30.60 LBS.

FLAT & FORGED FOOT OFFSET

Cultivator Shanks & Standards

FLAT & FORGED FOOT OFFSET SHANKS

PART	PART NUMBER	HOLE/SLOT SIZE	DESCRIPTION	WEIGHT
	STB SERIES: Side Offset Cultivator Standard			
	STB-20	7/16" □ Hole; 7/16" x 1" Slot	5/8" X 2" X 30"	10.37 LBS.
	30 SERIES: Side Offset Cultivator Standard			
	S30320S	11/16" ○ Holes	1" X 3" X 32" (to Fit FP Style)	26.65 LBS.
	10 SERIES: Side Offset Cultivator Standard			
	108001L (Left)	1/2" x 1-1/2" Slot; 1/2" ○ Hole	5/8" X 2" X 30"	10.08 LBS.
	108001R (Right)			
	108071L (Left)	1/2" x 1-1/2" Slot; 1/2" ○ Hole	3/4" X 2-1/2" X 36"	19.13 LBS.
	108071R (Right)			
	108056L (Left)	9/16" x 1-11/16" Slot; 1/2" ○ Hole	1" x 3" x 36"	30.60 LBS.
108001L	108056R (Right)			

SPECIALIZED

Cultivator Shanks & Standards

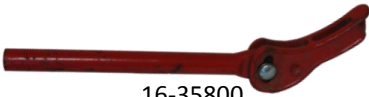
RIGID STANDARDS with FOOT PIECE

PART	PART NUMBER	MATERIAL	DESCRIPTION	WEIGHT
	SF3400	3/4" X 2-1/2" X 30" with 9/16" O Holes	S3426 with Adjustable FP34 Foot Piece Uses: (1) 1/2" x 2-1/2" Hex Bolt & (1) 1/2" x 2" Hex bolt	22.41 LBS.
	SF3000	1" X 3" X 30" with 11/16" O Holes	S3030 with Adjustable FP10 Foot Piece Uses: (1) 5/8" x 3" Hex Bolt & (1) 5/8" x 2-1/2" Hex bolt	31.97 LBS.
	SF3600	1" X 3" X 36" with 11/16" O Holes	S3036 with Adjustable FP10 Foot Piece Uses: (1) 5/8" x 3" Hex Bolt & (1) 5/8" x 2-1/2" Hex bolt	37.07 LBS.

ROUND STANDARDS

PART	PART NUMBER	DESCRIPTION	WEIGHT
 Z-2183-3153427	Z-2183-3153427	1-3/8" X 24-1/4" O Shank with 3/4" Hole	9.90 LBS.
 16-35801	16-35801	1-1/4" X 19" O Shank with 9/16" Holes	6.40 LBS.

ROUND STANDARD with FOOT PIECE

PART	PART NUMBER	DESCRIPTION	WEIGHT
 16-35800	16-35800**	1-1/4" X 19" O Shank with Adjustable 16-35802 Cast Foot Piece Uses: (1) 1/2" X 2" Hex Bolt & (1) 1/2" X 2-1/2" Carriage Bolt	11.50 LBS.

** For More Information on this complete unit and its uses, REFER to [SECTION 1100: SPIDER CULTIVATORS](#)

NORWEST SPRING TRIP SHANK

PART	PART NUMBER	DESCRIPTION	WEIGHT
 108071-STF	108071-STF	Norwest Spring Trip Shank 3/4" x 2-1/2" x 36" with Forged Foot	25.00 LBS.
	108071-STD	Norwest Spring Trip Shank 3/4" x 2-1/2" x 36" with Forged Foot & TPVA25 Heavy Reversible Danish Point 10" x 2" x 1/4" (Import)	26.40 LBS.

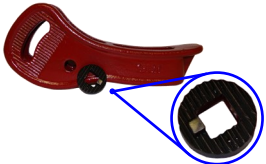


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FOOT PIECES

PART	PART NUMBER	HOLE CENTERS	DESCRIPTION	WEIGHT
	FP10 (Fabricated)	2" Hole Centers	Adjustable Foot Piece for 1" x 3" Standards w/ Set Screw	6.35 LBS.
	FP10H (Fabricated)	2" Hole Centers	Adjustable Foot Piece for 1" x 3" Standards w/ Set Screw	6.46 LBS.
	FP10S (Fabricated)	2" Hole Centers	Adjustable Foot Piece (MULTI-HOLE SLIP STYLE) for 1" x 3" Standards w/ Fasteners	6.46 LBS.
	FP10SMA1 (Fabricated)	5" Hole Centers	Adjustable Foot Piece (MULTI-HOLE SLIP STYLE) for 1" x 3" Standards	6.46 LBS.
	FP10SMA2 (Fabricated)	5" Hole Centers	Adjustable Foot Piece (SIMPLE SLIP STYLE) for 1" x 3" Standards	6.46 LBS.
	16-35802 (Cast)	2" Hole Centers	Adjustable Foot Piece for 3/4" Standards w/(2) 16-35805 ratchet washer w/ear (inset)	4.74 LBS.