



Martin® VPlow HD

[Go to Martin® VPlow HD web page](#)



***Operator's Manual
M4168***

Important

MARTIN ENGINEERING HEREBY DISCLAIMS ANY LIABILITY FOR: DAMAGE DUE TO CONTAMINATION OF THE MATERIAL; USER'S FAILURE TO INSPECT, MAINTAIN AND TAKE REASONABLE CARE OF THE EQUIPMENT; INJURIES OR DAMAGE RESULTING FROM USE OR APPLICATION OF THIS PRODUCT CONTRARY TO INSTRUCTIONS AND SPECIFICATIONS CONTAINED HEREIN. MARTIN ENGINEERING'S LIABILITY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF EQUIPMENT SHOWN TO BE DEFECTIVE.

Observe all safety rules given herein along with owner and government standards and regulations. Know and understand lockout/tagout procedures as defined by American National Standards Institute (ANSI) ANSI/ASSP z244.1-2016 (R2020), *The Control of Hazardous Energy Lockout, Tagout And Alternative Methods* and Occupational Safety and Health Administration (OSHA) Federal Register, Part IV, 29 CFR Part 1910, *Control of Hazardous Energy Source (Lockout/Tagout)*; Final Rule.

The following symbols may be used in this manual:



Danger: Immediate hazards that will result in severe personal injury or death.



Warning: Hazards or unsafe practices that could result in personal injury.



Caution: Hazards or unsafe practices that could result in product or property damages.



Important: Instructions that must be followed to ensure proper installation/operation of equipment.



Note: General statements to assist the reader.

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Introduction

General

The Martin® VPlow HD floats on the inside surface of a conveyor belt to effectively remove stray material in light to moderate-duty applications. The self-adjusting design provides effective cleaning in all states of blade wear.

The Martin® VPlow HD fits belts from 18 to 120 in. (400 to 300mm) wide. Specifications are shown in Table I.

Table I. Martin® VPlow HD Specifications

Cleaning Edge Material	60-Durometer Rubber
	90-Durometer Urethane
Blade Dimensions	1 x 4 in. (25 x 102 mm)
Operating Temperature	-20 to 160°F (-29 to 71°C)

References

The following documents are referenced in this manual:

- American National Standards Institute ANSI/ASSP z244.1-2016 (R2020), *American National Standard for Personnel Protection - Lockout/Tagout of Energy Sources - Minimum Safety Requirements*, American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018.
- Federal Register, Volume 54, Number 169, Part IV, 29 Code of Federal Regulation (CFR) 29, Part 1910, *Control of Hazardous Energy Source (Lockout/Tagout); Final Rule*, Department of Labor, Occupational Safety and Health Administration (OSHA), 32nd Floor, Room 3244, 230 South Dearborn Street, Chicago, IL 60604.

Safety

All safety rules defined in the above documents and all owner/employer safety rules must be strictly followed when working on the Martin® VPlow.

Materials required

Installation of this equipment requires the use of standard hand tools, grinder, welder, and cutting torch.

Before Installing VPlow

IMPORTANT

Read entire section before beginning work.

IMPORTANT

The delivery service is responsible for damage incurred during transportation. Martin Engineering CANNOT enter claims. Contact your transportation agent for more information.

1. Inspect shipping container for damage. If damage has occurred, report damage to delivery service immediately and fill out delivery service's claim form. Keep any damaged goods subject to examination.
2. Remove VPlow from shipping container.
3. If anything is missing contact Martin Engineering or a representative.



⚠ DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

4. Turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see "References").



⚠ WARNING

If equipment will be installed in an enclosed area, test gas level or dust content before using a cutting torch or welding. Using a cutting torch or welding in an area with gas or dust may cause an explosion.

5. If using a cutting torch or welding, test atmosphere for gas level or dust content. Cover the conveyor belt with a fire-retardant cover.

Installing VPlow

IMPORTANT

Read entire section before beginning work.

CAUTION

Position vplow blade according to chart in Figure 1. Minimum distance is to ensure safety cables will keep vplow from damaging tail pulley or conveyor belt if mount brackets fail.

1. Place the Martin® VPlow HD blade (A, Figure 1) on the return side of the belt before the tail pulley (B), with the “V” pointing away from the tail pulley. Position according to chart in Figure 1.

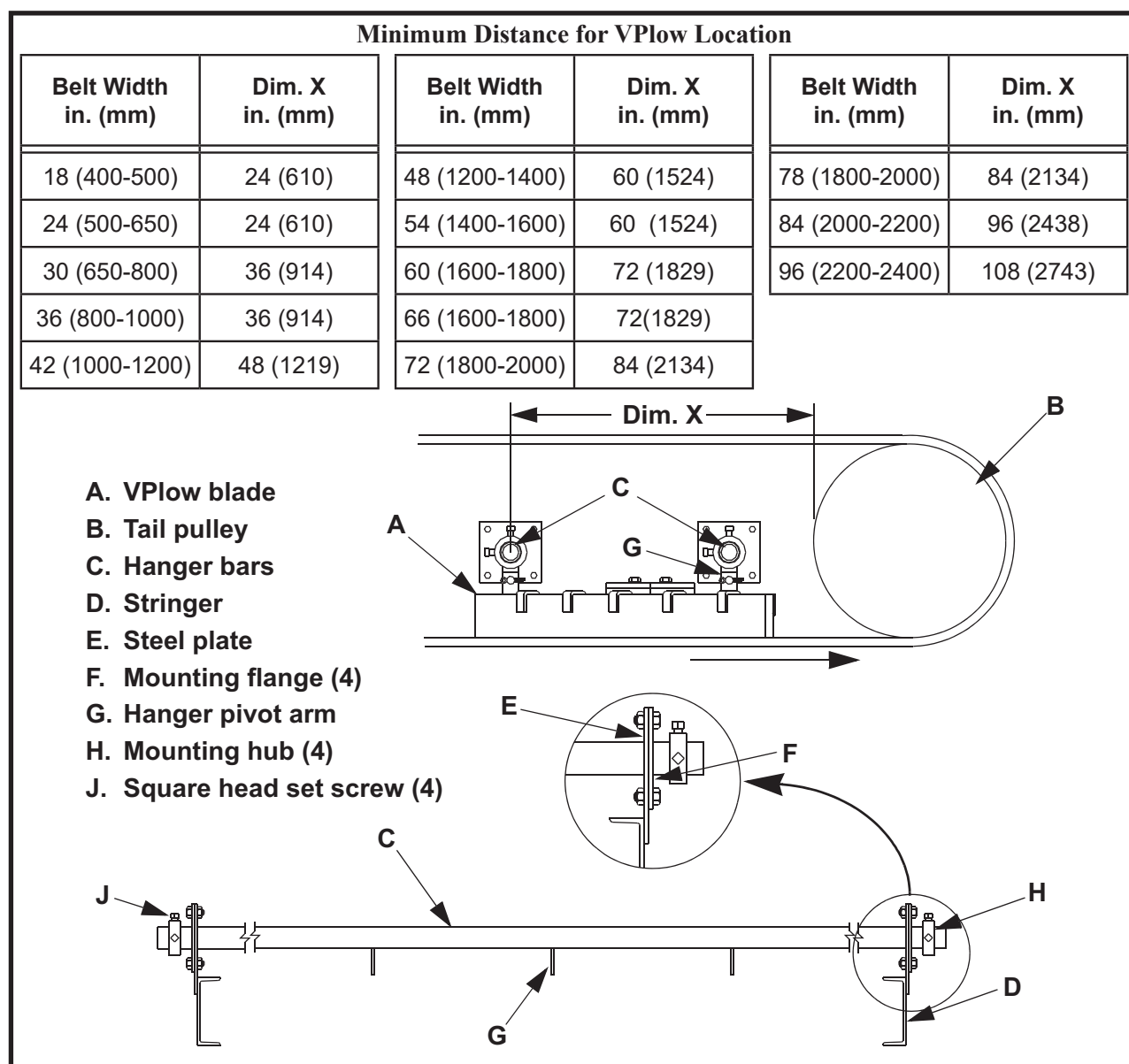


Figure 1. Locating Martin® VPlow HD on belt

2. Locate the hanger bars according to Table II and Figure 2. Mark the location of the hanger bars on the stringers.
3. Determine how to mount the hanger bars:
 - a. If the stringers are too low to accommodate the hanger bars in the proper position, bolt or weld four 1/2 in. (13 mm) thick steel plates to the top of the stringers.
 - b. If the stringers are high enough to accommodate the hanger bars in the proper position, mount the mounting flanges for hanger bars directly onto the stringers.

Table II. Martin VPlow HD Hanger Bar Locations - in. (mm)
(Refer to Figure 2.)

Hanger Pivot Arm Part No.	If arm length is A, locate hanger bar between B and C		
	A	B (min.)	C (max.)
BUS14092-XXX0XXXX*	3.63 (92)	6.50 (165)	7.25 (184)
BUS14092-XXX1XXXX*	6.88 (175)	9.75 (248)	10.50 (267)
BUS14092-XXX2XXXX	9.88 (251)	12.75 (324)	13.50 (343)
BUS14092-XXX3XXXX	14.00 (356)	16.88 (429)	17.63 (448)
BUS14092-XXX4XXXX	8.88 (225)	11.75 (289)	12.50 (318)
BUS14092-XXX5XXXX	7.00 (178)	10.13 (257)	10.88 (276)
BUS14092-XXX6XXXX	8.13 (206)	11.25 (286)	12.00 (305)
BUS14092-XXX7XXXX	11.13 (283)	14.25 (362)	15.00 (381)

*For full wear with clearance between metal frame and belt, locate at B (min.).

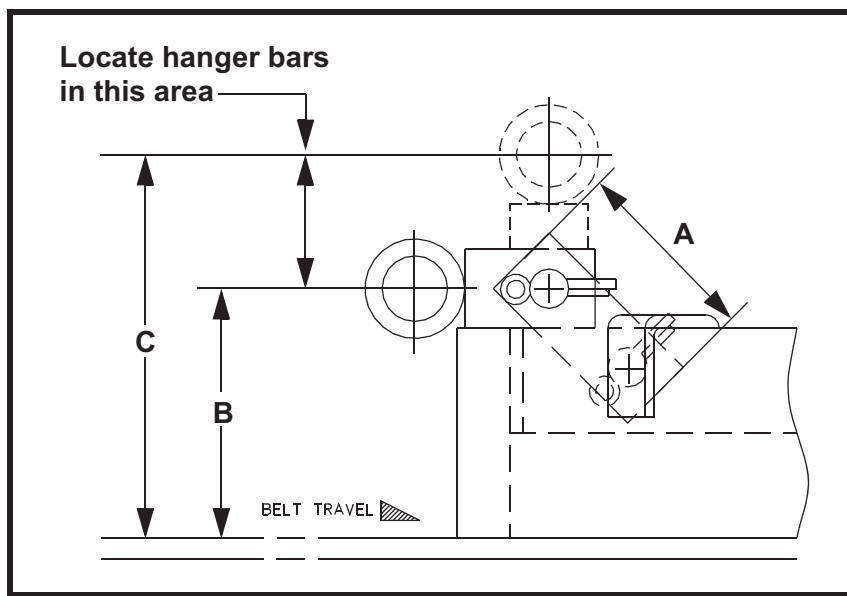


Figure 2. Martin VPlow HD Hanger Bar Locations

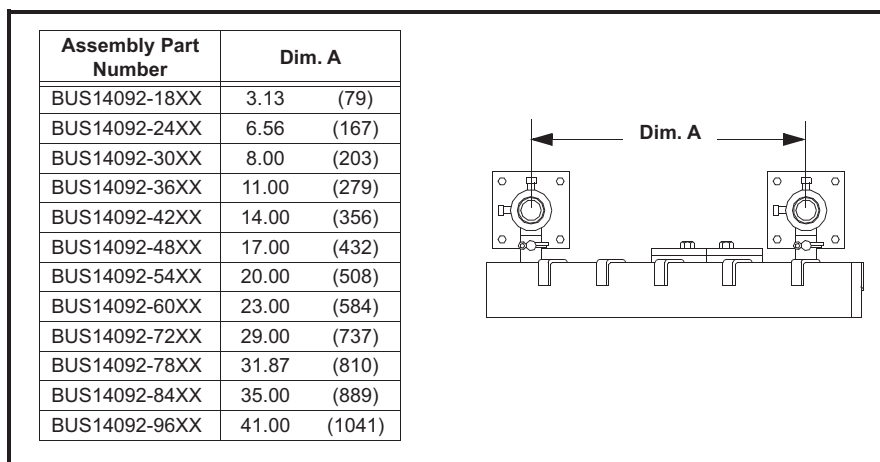


Figure 3. Distance Between Hanger Bars

4. Use a mounting flange as a template to mark the location of mounting holes on the stringers or steel plates on both sides of the belt for each hanger bar.

NOTE

For easier maintenance, Martin Engineering recommends bolting rather than welding mounting flanges to stringers or steel plates.

5. Bolt or weld the mounting flanges to the stringers or steel plates as follows:
 - a. If bolting the mounting plates to stringers or steel plates, do the following:
 - (1) Drill or cut four 2-1/2 in. (63 mm) holes for the two hanger bars.
 - (2) Drill or cut for 9/16 in. (14 mm) holes for the mounting screws for each mounting flange.
 - (3) Remove burrs and sharp edges.
 - (4) Install each mounting flange onto the stringer or steel plate with four hex head cap screws, flat washers, compression washers, and hex nuts.
 - b. If welding the mounting plates to stringers or steel plates, do the following:
 - (1) Drill or cut four 2-1/2 in. (63 mm) holes for the two hanger bars.
 - (2) Position each mounting flange onto the stringer or steel plate.
 - (3) Weld each mounting flange onto the stringer or steel plate. Make a continuous weld around the entire mounting flange.

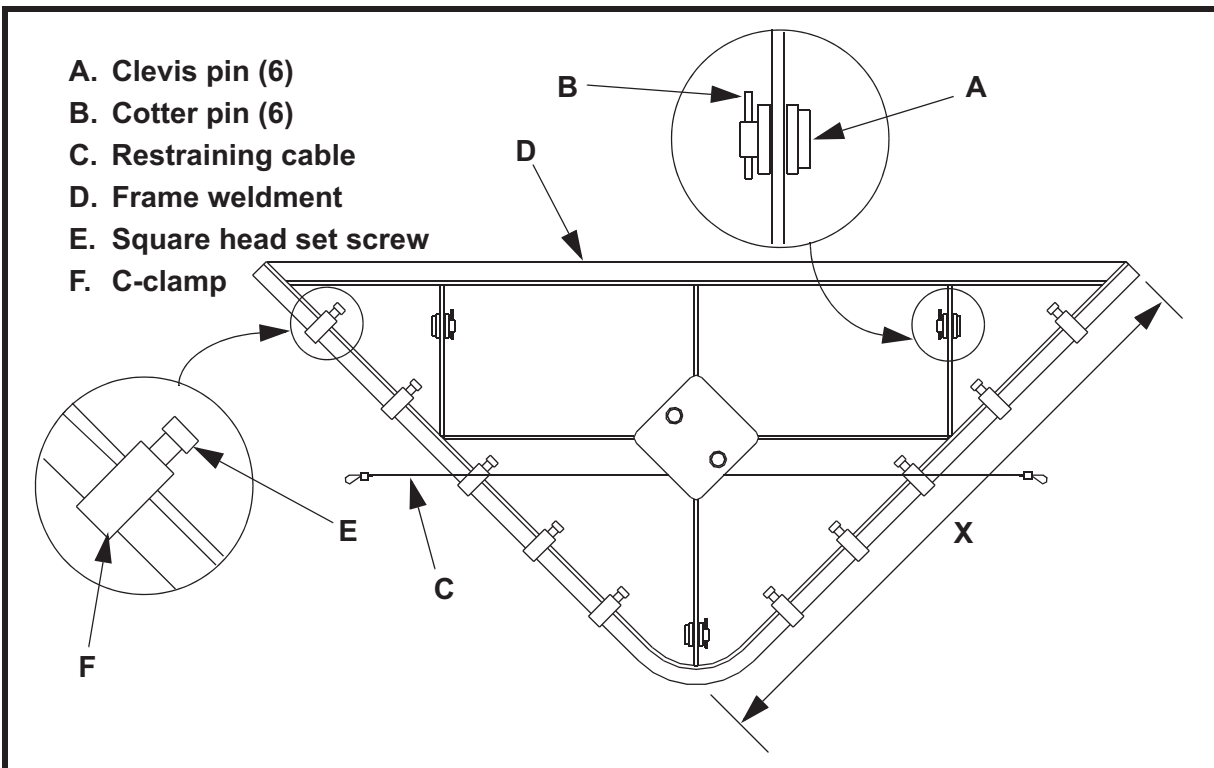


Figure 4. Installing Martin® VPlow HD

6. Insert the hanger bars (C, Figure 1) through the mounting holes. Attach each hanger pivot arm (G) to the hanger bar with a clevis pin (A, Figure 4) and cotter pin (B).
7. Center the blade on the belt. Slide a mounting hub (H, Figure 1) onto both ends of each hanger bar, and up against the mounting flanges. Tighten the two set screws (J) in each mounting hub.

CAUTION

Restraining cables must be installed to prevent the plow from being carried into the pulley if the mount brackets should fail. Failure to install restraining cables could severely damage the plow, pulley, and belt. Do not install restraining cables on stringers that are between the plow and tail pulley.

8. Attach a restraining cable (C, Figure 4) to the conveyor stringers far enough from the tail pulley. Make sure vplow is located according to chart in Figure 1. Leave no more than 2 in. (51 mm) of slack in cable.

After Installing VPlow

IMPORTANT

Read entire section before beginning work.

1. Thoroughly wipe the outside chute wall clean above the vplow on the operator side of the chute. Plate a Conveyor Products Warning Label (P/N 23395) and a Flying Objects Warning Label (P/N 38227) on the chute wall visible to the belt operator.
2. Additional safety labels are available from CEMA. For more information regarding CEMA safety labels visit www.cemanet.org.

⚠ WARNING

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

3. Remove all tools and the fire-retardant cover from the installation area and conveyor belt

⚠ DANGER

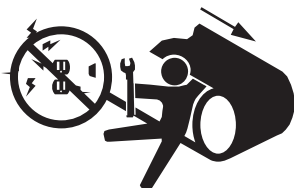
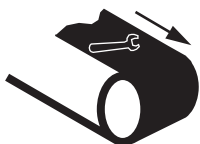
Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

4. Turn on the conveyor belt for 1 hour.

⚠ DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

5. After 1 hour of operation, turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see “References”).
6. Make sure all fasteners are tight. Tighten if necessary.
7. Inspect the vplow for wear. (A small amount of “break-in” wear may be found. This will stop once the blade wears to the conveyor belt contour.)
8. Make sure the plow is pushing material off the edge of the belt efficiently, leaving minimal material on the belt.
9. Repeat step 2.



Monthly Maintenance



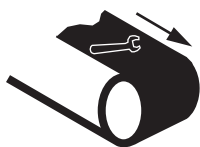
IMPORTANT

Read entire section before beginning work.

⚠ DANGER

Before installing, servicing, or adjusting conveyor equipment, turn off and lockout / tagout / blockout / testout all energy sources to the conveyor and conveyor accessories according to ANSI standards. Failure to do so could result in serious injury or death.

1. Turn off and lockout / tagout / blockout / testout energy source according to ANSI standards (see “References”).
2. Make sure all fasteners are tight. Tighten if necessary.
3. Check the cleaning for wear. If it is worn almost to the frame weldment (D, Figure 4), replace as follows:
 - a. Remove the square head set screws (E) and C-clamps (F) holding the cleaning edge against the frame weldment.
 - b. Remove the old cleaning edge.
 - c. Install a new cleaning edge and secure with C-clamps and square head set screws.
4. Check the restraining cable for wear. Make sure the cable is securely attached to the stringers.
5. Wipe all labels clean. If the labels are not readable, contact Martin Engineering or your representative for replacements.



⚠ WARNING

Failure to remove tools from installation area and conveyor belt before turning on energy source can cause serious injury to personnel and damage to belt.

6. Remove all tools from the maintenance area.

⚠ DANGER

Do not touch or go near conveyor belt or conveyor accessories when conveyor belt is running. Body or clothing can get caught and pull body into conveyor belt, causing severe injury or death.

7. start the conveyor belt.

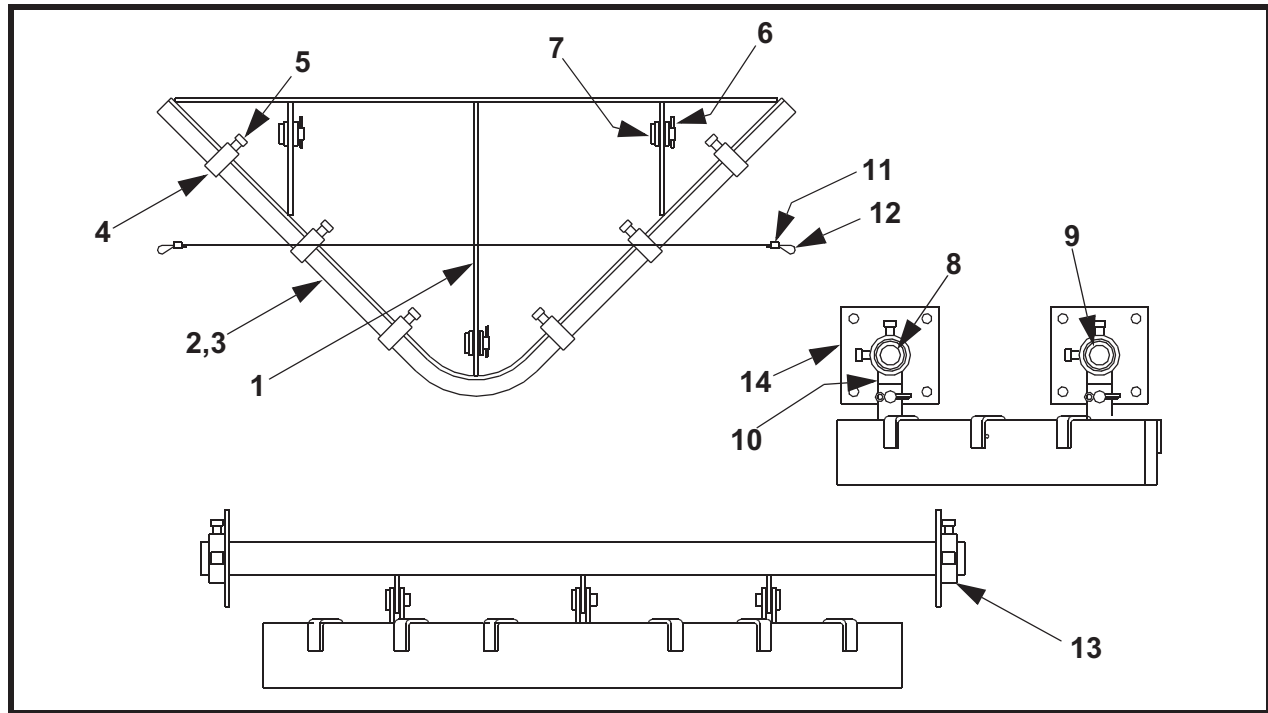
Part Numbers

This section provides product names and corresponding part numbers for the Martin® VPlow HD and related equipment. Please reference the part numbers when ordering parts.

Martin® VPlow HD Assembly

NOMENCLATURE — BUS14092 XX X X X XX X

- | | | |
|---------------------------------------|-------------------------------------|--|
| 1. Part Number Prefix | 4. The next X indicates arm length: | 5. The next X indicates material: |
| 2. The first XX indicates belt width. | 0 = 3.63 in. (92 mm) | T = Painted Mild Steel |
| XX = indicates inches (18–96 inches) | 1 = 6.88 in. (175 mm) | S = 304 Stainless Steel |
| A8 = 108 inches | 2 = 9.88 in. (251 mm) | F = 316 Stainless Steel |
| C0 = 120 inches | 3 = 14.00 in. (356 mm) | 6. The next XX indicates urethane color: |
| 3. The next X indicates blade type: | 4 = 8.88 in. (225 mm) | BL = Navy Blue |
| R = Rubber Blade | 5 = 7.00 in. (178 mm) | BR = Brown |
| U = Urethane Blade | 6 = 8.13 in. (206 mm) | GR = Green |
| | | Blank = Orange |
| | | 7. The last X indicates Mounting Kit: |
| | | Blank = No Mounting Kit |
| | | C = U-Bolt Kit |



Item	Description	Part No.	Qty.
1	Frame Weldment	BUS14092-FWXXX	1
2	Blade Urethane	Table IV	Table IV
3	Blade 800 Nitrile Rubber	100066	Table IV
4	U-Clamp	BUS14092-UCX	Table III
5	Screw SHS 1/2-13NC x 1 SS	22763-03	Table III
6	Pin Cotter	16578	6
7	Pin Clevis	38186	6
8	Bar Front Hanger	BUS14092-FHBWXXX	1
9	Bar Back Hanger	BUS14092-RHBWXXX	1
10	Pivot Arm	BUS14092-PAXXX	7
11	Clip Cable	23481	4
12	Rope Wire	100107	Table III
13	Locking Collar	16845	4
(NS) 14	Flange Mounting Plate	Table III	4
(NS) 15	Mounting Hardware Kit	Table III	1
(NS) 16	Conveyor Products Warning Label	23395	2
(NS) 17	Martin Products Label	32238	2
(NS) 18	Flying Objects Warning Label	38227	2
(NS) 19	Operator's Manual	M4168	1

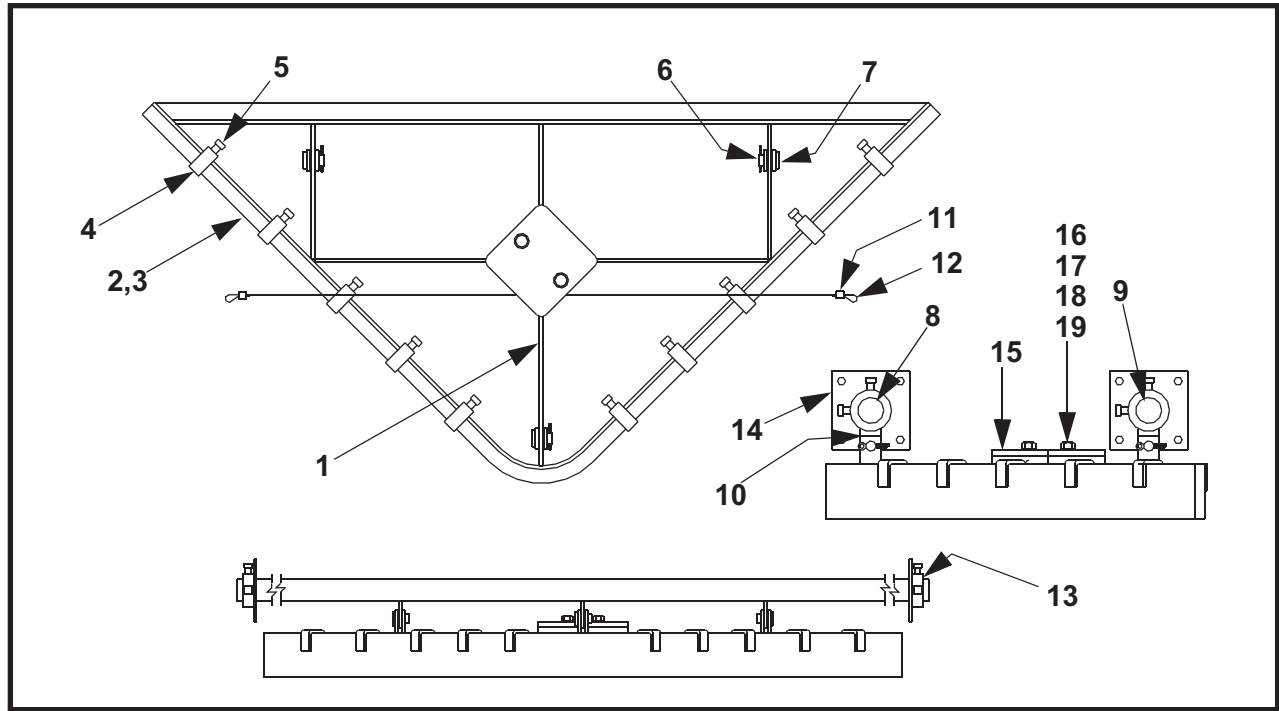
**Figure 5. Martin® VPlow HD Assembly, P/N BUS14092-XXXXXXXXX
(18 - 48in. [400 - 1400 mm] belts)**

Table III. Martin® VPlow HD Item Quantities and Part Numbers

Assembly Part No.	Qty. Item 4	Qty. Item 5	Qty. Item 12	Part No. Item 14	Part No. Item 15
BUS14092-18XXXXXX	4	12	5' 0"	30208	38735-1
BUS14092-24XXXXXX	4	12	5'0"	16628	38735
BUS14092-30XXXXXX	6	14	5'8"	16628	38735
BUS14092-36XXXXXX	6	14	5'8"	16628	38735
BUS14092-42XXXXXX	8	16	6'10"	16628	38735
BUS14092-48XXXXXX	8	16	6'10"	16628	3875

Table IV. Martin® VPlow HD Blade Quantities

Assembly Part No.	Qty. Item 2	Qty. Item 3	Part No. Item 2
BUS14092-18RXX	0	2.25	—
BUS14092-18UXXXX	1	0	31134-18UXX
BUS14092-24RXX	0	2.96	—
BUS14092-24UXXXX	1	0	31134-24UXX
BUS14092-30RXX	0	3.67	—
BUS14092-30UXXXX	1	0	31134-30UXX
BUS14092-36RXX	0	4.37	—
BUS14092-36UXXXX	1	0	31134-36UXX
BUS14092-42RXX	0	5.08	—
BUS14092-42UXXXX	1	0	31134-42UXX
BUS14092-48RXX	0	5.79	—
BUS14092-48UXXXX	1	0	31134-48UXX



Item	Description	Part No.	Qty.
1	Frame Weldment	BUS14092-FWXXX	1
2	Blade Urethane	Table VII	Table VI
3	Blade 800 Nitrile Rubber	100066	Table VI
4	U-Clamp	BUS14092-UCX	Table V
5	Screw SHS 1/2-13NC x 1 SS	22763-03	Table V
6	Pin Cotter	16578	6
7	Pin Clevis	38186	6
8	Bar Front Hanger	BUS14092-FHBWXXX	1
9	Bar Back Hanger	BUS14092-RHBWXXX	1
10	Pivot Arm	Table VIII	6
11	Clip Cable	23481	4
12	Rope Wire	100107	Table V
13	Locking Collar	16845	4
14	Flange Mounting Plate	16628	4
15	Stackable Weight	28817	Table V
16	Screw HHC 1/2-13NC ZP	11771	2
17	Washer Compression 1/2	11750	2
18	Washer Flat 1/2	31010	2
19	Nut Hex 1/2-13NC ZP	11771	2
20	Mounting Hardware Kit	38735	1
21	Conveyor Products Warning Label	23395	2
22	Martin Products Label	32238	2
23	Flying Objects Warning Label	382227	2
24	Operator's Manual	M4168	1

**Figure 6. Martin® VPlow HD Assembly, P/N BUS14092-XXXXXXXXX
(54 - 96 in. [1400 - 2400 mm] belts)**

Table V. Martin® VPlow HD Item Quantities and Part Numbers

Assembly Part No.	Qty. Item 4	Qty. Item 5	Qty. Item 12	Part No. Item 14	Part No. Item 15
BUS14092-54XXXXXX	10	18	8'0"	2	30224
BUS14092-60XXXXXX	10	18	8'0"	3	30224
BUS14092-66XXXXXX	12	20	9'2"	3	30224
BUS14092-72XXXXXX	12	20	9'2"	3	30224
BUS14092-78XXXXXX	14	22	9'7"	4	M921
BUS14092-84XXXXXX	14	22	9'7"	4	M921
BUS14092-96XXXXXX	16	24	10' 10"	4	M921

Table VI. Martin® VPlow HD Blade Quantities

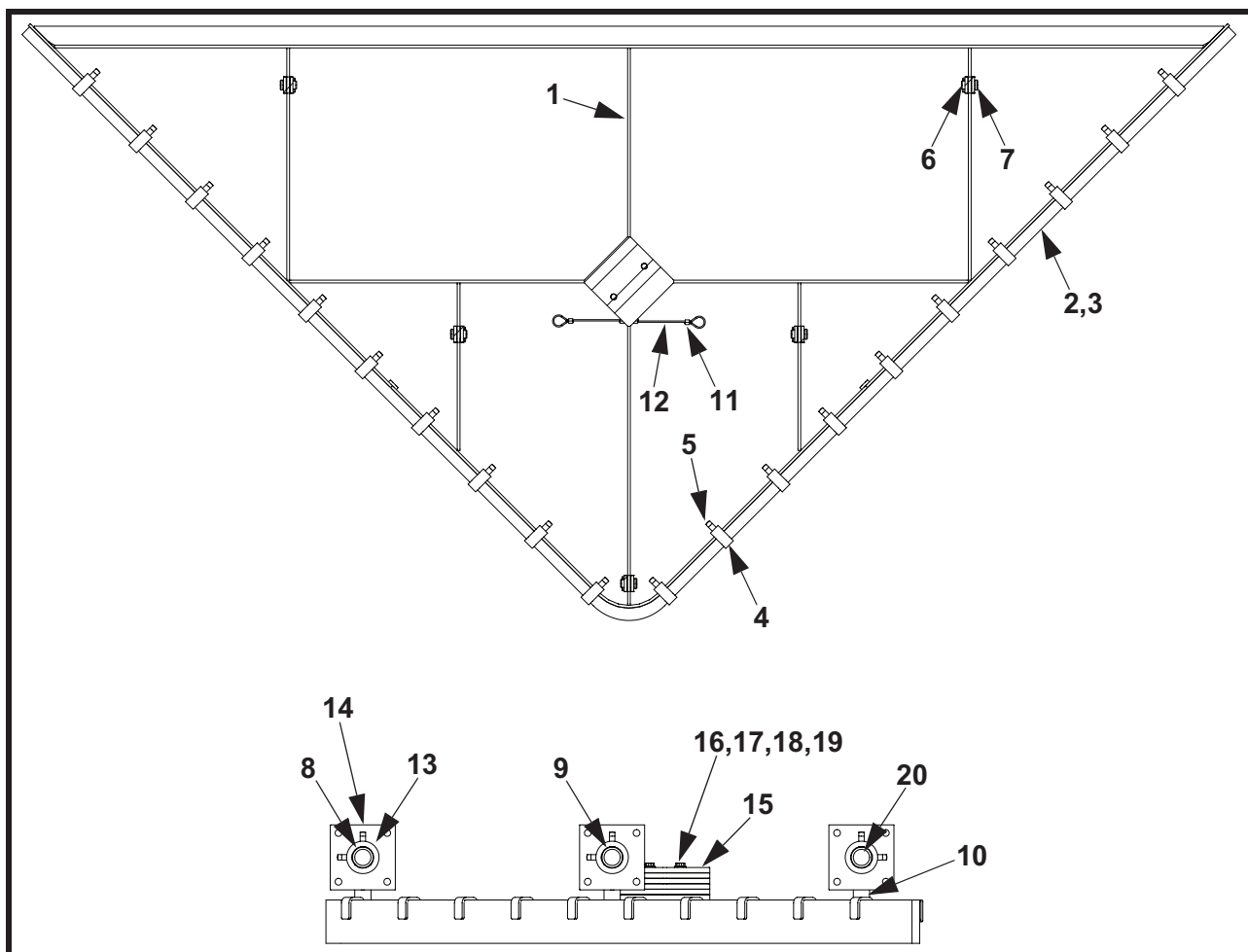
Assembly Part No.	Qty. Item 2	Qty. Item 3	Part No. Item 2
BUS14092-54RXX	0	6.50	—
BUS14092-54UXXXX	1	0	31134-54UXX
BUS14092-60RXX	0	7.21	—
BUS14092-60UXXXX	1	0	31134-60UXX
BUS14092-66RXX	0	7.92	—
BUS14092-66UXXXX	1	0	31134-66UXX
BUS14092-72RXX	0	8.62	—
BUS14092-72UXXXX	1	0	31134-72UXX
BUS14092-78RXX	0	9.33	—
BUS14092-78UXXXX	1	0	31134-78UXX
BUS14092-84RXX	0	10.04	—
BUS14092-84UXXXX	1	0	31134-84UXX
BUS14092-96UXXXX	0	11.46	—
BUS14092-96UXXXX	1	0	31134-96UXX

Table VII. Martin® VPlow HD Urethane Blade Chart

Assembly Part No.	Part No. Item 2	Blade Material	Blade Color
BUS14092-XXUXXBLX	31134-XXU	90 Durometer	Orange
BUS14092-XXUXXBRX	31134-XXUGR	95 Durometer	Green
BUS14092-XXUXXGRX	31134-XXUBL	85 Durometer	Navy Blue
BUS14092-XXUXXORX	31134-XXUBR	85 Durometer	Brown

Table VIII. Martin® VPlow HD Hanger Pivot Arm Part Numbers

Assembly Part No.	Pivot Arm Part No.	Pivot Arm Length in. (mm)
BUS14092-XXX0XXXX	BUS14092-PA00X	3.63 (92)
BUS14092-XXX1XXXX	BUS14092-PA01X	6.88 (175)
BUS14092-XXX2XXXX	BUS14092-PA02X	9.88 (251)
BUS14092-XXX3XXXX	BUS14092-PA03X	14.00 (356)
BUS14092-XXX4XXXX	BUS14092-PA04X	8.88 (225)
BUS14092-XXX5XXXX	BUS14092-PA05X	7.00 (178)
BUS14092-XXX6XXXX	BUS14092-PA06X	8.13 (206)
BUS14092-XXX7XXXX	BUS14092-PA07X	11.13 (283)



**Figure 7. Martin® VPlow HD Assembly, P/N BUS14092-XXXXXXX
(108 - 120 in. [2700 - 3000 mm] belts)**

Item	Description	Part No.	Qty.
1	Frame Weldment	BUS14092-FWXXX	1
2	Blade Urethane	Table IX	Table X
3	Blade 800 Nitrile Rubber	100066	Table X
4	U-Clamp	BUS14092-UCX	Table IX
5	Screw SHS 1/2-13NC x 1 SS	22763-03	Table IX
6	Pin Cotter	16578	10
7	Pin Clevis	38186	10
8	Bar Front Hanger	BUS14092-FHBWXXX	1
9	Bar Back Hanger	BUS14092-RHBWXXX	1
10	Pivot Arm	Table XII	10
11	Clip Cable	23481	4
12	Rope Wire	100107	Table IX
13	Locking Collar	16845	6
14	Flange Mounting Plate	16628	6
15	Stackable Weight	28817	5

Item	Description	Part No.	Qty.
16	Screw HHC 1/2-13NC x 4 ZP	M920	2
17	Washer Compression 1/2	11750	2
18	Washer Flat 1/2	31010	2
19	Nut Hex 1/2-13NC ZP	11771	2
20	Rear Hanger Bar Weldment	BUS14092-RHBWXXBX	1
(NS) 21	Mounting Hardware Kit	38735-2	1
(NS) 22	Conveyor Products Warning Label	23395	2
(NS) 23	Martin Products Label	32238	2
(NS) 24	Flying Objects Warning Label	38227	2
(NS) 25	Operator's Manual	M4168	1

**Table IX. Martin® VPlow HD (108 - 120) Item Quantities and Part Numbers
(108 - 120 in. [2700 - 3000 mm] belts)**

Assembly Part No.	Qty. Item 4	Qty. Item 5	Qty. Item 12
BUS14092-A0XXXXX	20	32	12' 0"
BUS14092-C0XXXXX	22	34	13' 0"

**Table X. Martin® VPlow HD Blade Quantities
(108 - 120 in. [2700 - 3000 mm] belts)**

Assembly Part No.	Qty. Item 2	Qty. Item 3	Part No. Item 2
BUS14092-A8RXX	0	12.96	—
BUS14092-A8UXXXX	1	0	31134-108UXX
BUS14092-C0RXX	0	14.38	—
BUS14092-C0UXXXX	1	0	31134-120UXX

**Table XI. Martin® VPlow HD Urethane Blade Chart
(108 - 120 in. [2700 - 3000 mm] belts)**

Assembly Part No.	Part No. Item 2	Blade Material	Blade Color
BUS14092-XXUXXBLX	31134-XXU	90 Durometer	Orange
BUS14092-XXUXXBRX	31134-XXUGR	95 Durometer	Green
BUS14092-XXUXXGRX	31134-XXUBL	85 Durometer	Navy Blue
BUS14092-XXUXXORX	31134-XXUBR	85 Durometer	Brown

**Table XII. Martin® VPlow HD (108 - 120) Hanger Pivot Arm Part Numbers
(108 - 120 in. [2700 - 3000 mm] belts)**

Assembly Part No.	Pivot Arm Part No.	Pivot Arm Length in. (mm)
BUS14092-XXX0XXXX	BUS14092-PA00X	3.63 (92)
BUS14092-XXX1XXXX	BUS14092-PA01X	6.88 (175)
BUS14092-XXX2XXXX	BUS14092-PA02X	9.88 (251)
BUS14092-XXX3XXXX	BUS14092-PA03X	14.00 (356)
BUS14092-XXX4XXXX	BUS14092-PA04X	8.88 (225)
BUS14092-XXX5XXXX	BUS14092-PA05X	7.00 (178)
BUS14092-XXX6XXXX	BUS14092-PA06X	8.13 (206)
BUS14092-XXX7XXXX	BUS14092-PA07X	11.13 (283)

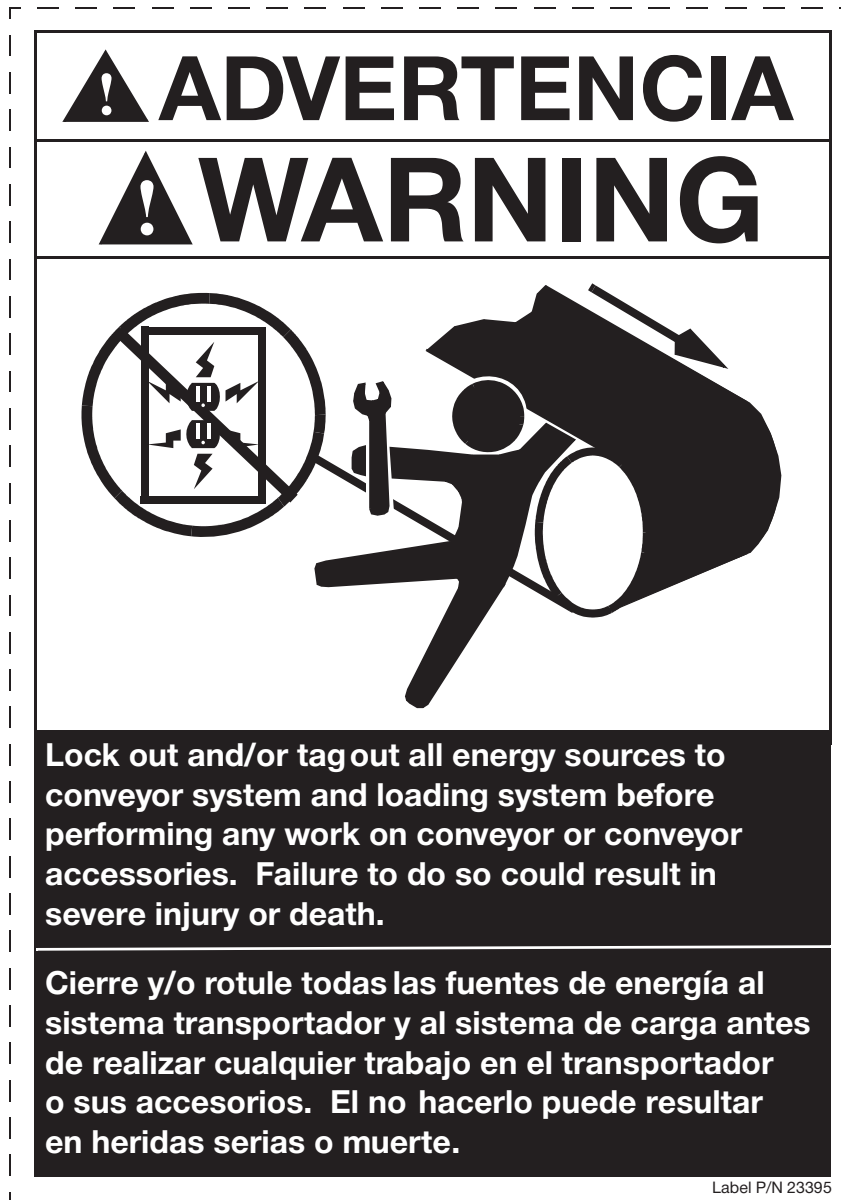


Figure 8. Conveyor Products Warning Label, P/N 23395

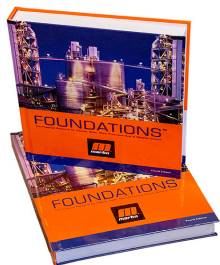


Figure 9. Flying Objects Warning Label, P/N 38227

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