

Martin® Tail-Protection Plows

Martin® Torsion VPlow

The [Martin® Torsion VPlow](#) is mounted with a unique suspension that allows the plow to rise and fall with fluctuations in belt tension and travel. This makes it self-adjusting for effective cleaning in all stages of blade wear. Can be used on belts with belt speeds up to 900 fpm (46 m/sec).

- Standard Torsion Arms are 10.25 in. (260 mm). Other lengths from 2.5 to 11.37 in. (64 to 289 mm) are available to accommodate applications with clearance limitations.
- Easily Replaceable blade provides 2 in. (50 mm) of wear. Blade is available in 80 Shore A Durometer Nitrile rubber or long-wearing 90 Shore A Durometer urethane.



Alternative Length Suspension Arms

To order VPlow with arms of optional length, add Suffix Number below as final digit in part number.

Suffix Number	Arm Length in. (mm)	Suffix Number	Arm Length in. (mm)
1	2.5 (64)	5	6.5 (165)
2	6.0 (152)	6	8.0 (203)
3	9.0 (228)	7	11.37 (289)
4	5.0 (127)	Blank	10.25 (260)

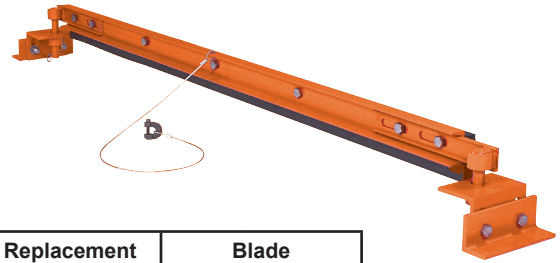
Belt Width* in. (mm)	VPlow with Rubber Blade P/N	VPlow with Urethane Blade P/N	Assembly Shipping Weight lb (kg)	Replacement Rubber Blade P/N	Replacement Urethane Blade P/N	Blade Shipping Weight lb (kg)
18 (400-500)	28488-18R	28488-18U	60 (27.2)	28496-18	28812-18	7.0 (3.2)
24 (500-650)	28488-24R	28488-24U	70 (31.8)	28496-24	28812-24	8.0 (3.6)
30 (650-800)	28488-30R	28488-30U	80 (36.3)	28496-30	28812-30	9.0 (4.1)
36 (800-1000)	28488-36R	28488-36U	90 (40.8)	28496-36	28812-36	10.5 (4.8)
42 (1000-1200)	28488-42R	28488-42U	100 (45.4)	28496-42	28812-42	12.0 (5.4)
48 (1200-1400)	28488-48R	28488-48U	110 (49.9)	28496-48	28812-48	13.5 (6.1)
54 (1400-1600)	28488-54R	28488-54U	120 (54.4)	28496-54	28812-54	15.0 (6.8)
60 (1600-1800)	28488-60R	28488-60U	130 (59.0)	28496-60	28812-60	16.5 (7.5)
72 (1800-2000)	28488-72R	28488-72U	150 (68.0)	28496-72	28812-72	19.0 (8.6)
84 (2000-2200)	28488-84R	28488-84U	170 (77.1)	28496-84	28812-84	20.0 (9.0)
96 (2200-2400)	28488-96R	28488-96U	190 (86.2)	28496-96	28812-96	23.0 (10.4)

*Metric dimensions indicate industry standards for metric belting, rather than a straight conversion.

TECHNICAL DATA SHEET

Martin® Diagonal Plow

For tail protection on reversing belts, specify the [Martin® Diagonal Plow](#). Hung from brackets on both sides of the conveyor, the Martin® Diagonal Plow floats on the belt surface to remove material without needing adjustment. The durable 80 Shore A Durometer Nitrile rubber blade provides 1.5 in. (38 mm) of wear in service temperatures to 250°F (121°C) and belt speeds up to 900 fpm (4.6 m/sec).



Belt Width* in. (mm)	Diagonal Plow with Rubber Blade P/N**	Assembly Shipping Weight lb (kg)	Replacement Rubber Blade P/N	Replacement Urethane Blade P/N	Blade Shipping Weight lb (kg)
18 (400-500)	22662-18X	40 (18.1)	24112-18	25403-18	7 (3.2)
24 (500-650)	22662-24X	45 (20.4)	24112-24	25403-24	8 (3.6)
30 (650-800)	22662-30X	50 (22.7)	24112-30	25403-30	9 (4.1)
36 (800-1000)	22662-36X	55 (24.9)	24112-36	25403-36	10 (4.5)
42 (1000-1200)	22662-42X	60 (27.2)	24112-42	25403-42	12 (5.4)
48 (1200-1400)	22662-48X	65 (29.5)	24112-48	25403-48	14 (6.4)
54 (1400-1600)	22662-54X	70 (31.8)	24112-54	25403-54	15 (6.8)
60 (1600-1800)	22662-60X	75 (34.0)	24112-60	25403-60	17 (7.7)
72 (1800-2000)	22662-72X	80 (36.3)	24112-72	25403-72	19 (8.6)
84 (2000-2200)	22662-84X	90 (40.8)	24112-84	25403-84	21 (9.5)
96 (2200-2400)	22662-96X	100 (45.4)	24112-96	25403-96	23 (10.4)
120 (2800-3000)	22662-120X	120 (54.4)	24112-120	25403-120	28 (12.7)

*Metric dimensions indicate industry standards for metric belting, rather than a straight conversion.

**Replace X with 1 for urethane blade. Remove X for rubber blade.

Martin® Durt Dozer™ Plow

The [Martin® Durt Dozer™ Plow](#) installs on single-direction belts on the conveyor's return side, just before the belt enters the tail pulley. It sits across the belt at a 45° angle, using its curved blade to remove material from the inside surface of the belt at belt speeds up to 700 fpm (3.5 m/sec).



Belt Width* in. (mm)	Tail Protection Plow P/N	Assembly Shipping Weight lb (kg)	Replacement Blade P/N	Blade Shipping Weight lb (kg)
18 (400-500)	33600-18	45 (20.4)	33610-18	9 (4.1)
24 (500-650)	33600-24	54 (24.5)	33610-24	11 (4.9)
30 (650-800)	33600-30	60 (27.2)	33610-30	14 (6.4)
36 (800-1000)	33600-36	66 (29.9)	33610-36	16 (7.2)
42 (1000-1200)	33600-42	73 (33.1)	33610-42	18 (8.2)
48 (1200-1400)	33600-48	80 (36.3)	33610-48	21 (9.5)
54 (1400-1600)	33600-54	86 (39.0)	33610-54	23 (10.4)
60 (1600-1800)	33600-60	93 (42.2)	33610-60	26 (11.8)
72 (1800-2000)	33600-72	106 (48.1)	33610-72	31 (14.1)
84 (2000-2200)	33600-84	119 (53.9)	33610-84	36 (16.3)
96 (2200-2400)	33600-96	132 (59.8)	33610-96	41 (18.6)

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TECHNICAL DATA SHEET

Martin® VPlow HD

The **Martin® VPlow HD** is an economical solution for tail protection in medium- to heavy-duty applications. The sturdy 80 Shore A Durometer Nitrile rubber blade provides a 2-in. (50-mm) wear life at service temperatures to 250°F (121°C) and belt speeds up to 900 fpm (4.6 m/sec). Mounting hardware included.



Alternative Arm Lengths		
P/N	Arm Length in. (mm)	
A-31131	2.12	(54)
A-31131-01	5.37	(136)
A-31131-02	8.37	(213)
A-31131-03	12.50	(318)
A31131-04	7.38	(187)

Belt Width* in. (mm)	V-Plow with Rubber Blade P/N**	Assembly Shipping Weight lb (kg)	Replacement Rubber Blade P/N**	Blade Shipping Weight lb (kg)
18 (400-500)	31106-18R	50 (22.7)	31134-18R	7 (3.2)
24 (500-650)	31106-24R	60 (27.2)	31134-24R	9 (4.1)
30 (650-800)	31106-30R	70 (31.8)	31134-30R	11 (5.0)
36 (800-1000)	31106-36R	80 (36.3)	31134-36R	13 (5.9)
42 (1000-1200)	31106-42R	90 (40.9)	31134-42R	15 (6.8)
48 (1200-1400)	31106-48R	100 (45.4)	31134-48R	17 (7.7)
54 (1400-1600)	31106-54R	110 (49.9)	31134-54R	19 (8.6)
60 (1600-1800)	31106-60R	120 (54.4)	31134-60R	21 (9.5)
72 (1800-2000)	31106-72R	140 (63.5)	31134-72R	23 (10.4)
84 (2000-2200)	31106-84R	160 (72.6)	31134-84R	25 (11.3)
96 (2200-2400)	31106-96R	180 (81.6)	31134-96R	27 (12.2)

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**To order urethane blade or urethane replacement blade, replace R with U.



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**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001:2008 =**

Problem Solved™

Form No. L3298-12-08/12
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