

# 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 60 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)

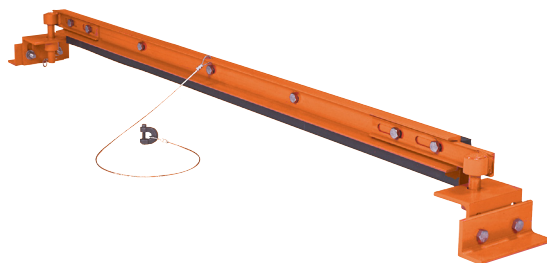
Belt Width* in. (mm)	VPlow with Rubber Blade P/N	VPlow with Urethane Blade P/N	Assembly Shipping Weight lb (kg)	Replacement Rubber Blade P/N	Replacement Urethane Blade P/N	Blade Shipping Weight lb (kg)
18 (400-500)	28488-18R	28488-18U	60 (27.2)	28496-18	28812-18	7.0 (3.2)
24 (500-650)	28488-24R	28488-24U	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 60 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	Diagonal Plow 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)	22662-18R	22662-18U	40 (18.1)	24112-18	25403-18	7 (3.2)
24 (500-650)	22662-24R	22662-24U	45 (20.4)	24112-24	25403-24	8 (3.6)
30 (650-800)	22662-30R	22662-30U	50 (22.7)	24112-30	25403-30	9 (4.1)
36 (800-1000)	22662-36R	22662-36U	55 (24.9)	24112-36	25403-36	10 (4.5)
42 (1000-1200)	22662-42R	22662-42U	60 (27.2)	24112-42	25403-42	12 (5.4)
48 (1200-1400)	22662-48R	22662-48U	65 (29.5)	24112-48	25403-48	14 (6.4)
54 (1400-1600)	22662-54R	22662-54U	70 (31.8)	24112-54	25403-54	15 (6.8)
60 (1600-1800)	22662-60R	22662-60U	75 (34.0)	24112-60	25403-60	17 (7.7)
72 (1800-2000)	22662-72R	22662-72U	80 (36.3)	24112-72	25403-72	19 (8.6)
84 (2000-2200)	22662-84R	22662-84U	90 (40.8)	24112-84	25403-84	21 (9.5)
96 (2200-2400)	22662-96R	22662-96U	100 (45.4)	24112-96	25403-96	23 (10.4)
120 (2800-3000)	22662-120R	22662-120U	120 (54.4)	24112-120	25403-120	28 (12.7)

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

## 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)

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



# 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 60 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)
31131	2.12 (54)
31131-01	5.37 (136)
31131-02	8.37 (213)
31131-03	12.50 (318)
31131-04	7.38 (187)
31131-05	5.75 (146)
31131-06	6.88 (175)
31131-07	9.88 (251)

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.

