

Martin[®] Primary Cleaner Selection Guide

Information You'll Need:

- · Belt Width
- Head Pulley Diameter
- · Belt Speed
- Material Characteristics
- · Application Temperature

IDENTIFY THE SPECIFICATION FOR YOUR CONVEYOR, AND THEN FOLLOW THIS PROCESS.

- Use your conveyor's specifications for Belt Width and Pulley Diameter to select Primary Cleaner type.
- 2. Check selection against **Maximum Belt Speeds** as recommended in Primary Cleaner Scale chart.
- Use Material Characteristics and Application
 Temperature to identify urethane for Primary Cleaner Blade.

URETHANE SELECTION GUIDE

Urethane Color	Application Description	Typical Materials	Continuous Temperature
Orange (blank or OR)	Standard Martin® Urethane Suitable for 80% or more of all belt cleaner applications, including abrasive conditions. Best choice for exposure to solvents or oil.	Bauxite, Coke, Coal, Overburden Refuse, Steel/Ore, All Other	-20° to 160°F (-30° to 70°C)
Brown (BR)	Chemical-Resistant Urethane Improved resistance to chemicals; reduced absorption of water in high moisture environments.	Limestone	-40° to 160°F (-40° to 70°C)
Green (GR)	High-Temperature Urethane For exposure to intermittent temperatures up to 350°F (177°C).	Clinker	-40° to 300°F (-40° to 150°C)
Tan (CL)	Low-Rigidity Urethane For dry products such as sand and gravel.	Gravel, Dry Sand	-20° to 160°F (-30° to 70°C)
Navy Blue (NB)	Low-Adhesion Urethane For sticky or tacky materials.	Cement, Glass, Wood Chip	20° to 160°F (-30° to 70°C)

For information on urethanes and cleaners approved by MHSA for use underground, contact Martin Engineering.

PRIMARY CLEANER SIZING CHART

Dalf Width	Head Pulley Diameter—in. (mm)						
Belt Width in. (mm)	7-10 (180-250)	12-16 (300-400)	18-22 (450-560)	24-30 (600-760)	32-38 (810-970)	40-46 (1010-1170)	48+ (1220+)
12 (300-400)	1	2	N/A	N/A	N/A	N/A	N/A
18 (400-500)	1	2	3 or 4	5 or 6	N/A	N/A	N/A
24 (500-650)	1	2	3 or 4	5 or 6	N/A	N/A	N/A
30 (650-800)	1	2	3 or 4	5 or 6	N/A	N/A	N/A
36 (800-1000)	1	2	3 or 4	5 or 6	N/A	N/A	N/A
42 (1000-1200)	2	2	3 or 4	5 or 6	7	N/A	N/A
48 (1200-1400)	2	2	3 or 4	5 or 6	7	7	8
54 (1400-1600)	2	2	3 or 4	5 or 6	7	7	8
60 (1600-1800)	2	2	3 or 4	5 or 6	7	7	8
72 (1800-2000)	2	2	3 or 4	5 or 6	7	7	8
84 (2000-2200)	N/A	3 or 4	3 or 4	5 or 6	7	7	8
96 (2200-2400)	N/A	3 or 4	3 or 4	5 or 6	7	7	8
108 (2600-2800)	N/A	N/A	N/A	N/A	7	7	8
120 (2800-3000)	N/A	N/A	N/A	N/A	7	7	8

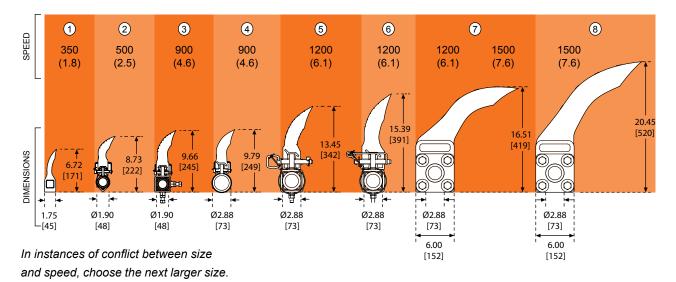
1 = Compact Cleaner $4 = QC1^{™}$ Cleaner PD7 = SHD 600 Series Cleaner2 = PV Cleaner $5 = QC1^{™}$ Cleaner HD Max8 = SHD 1200 Series Cleaner

3 = QC1[™] Cleaner HD 6 = QC1[™] Cleaner XHD

Please note: Stainless steel mainframes and tensioners are available for corrosive environments.

PRIMARY CLEANER SCALE & BELT SPEEDS

Maximum Belt Speed by Categories: fpm (m/sec) Blade Dimensions given in inches (mm)

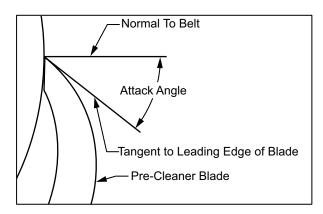


PRIMARY CLEANER SPECIFICATIONS

Cleaner	Attack Angle (°)	Wear Area (in²)	Mounting Location (in)	CEMA 576 Rating	CEMA Load per Blade Width (lb/in)
PV	30.1	4.13	3	Class 4	4.38
QC1™ HD	37.6	6.53	3½ to 4	Class 4	5.28
QC1™ PD	37.6	6.53	3½ to 4	Class 4	5.28
QC1™ HD Max	42.5	11.8	4¾	Class 5	7.70
QC1™ XHD	44.1	15.7	4¾ to 5¾	Class 5	8.98
SHD 600	42.5	29.26	6	Class 5	9.63
SHD 1200	45.1	42.10	6	Class 5	11.74

Attack Angle

The attack angle is the angle formed between the normal of the belt, and the tangent of the leading edge of the blade.



Mounting Location

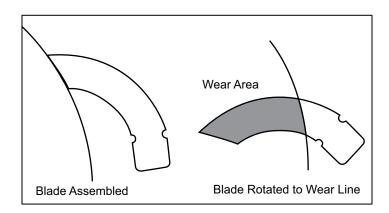
This is the distance between the surface of the belt and the center of rotation of the precleaner mainframe.

CEMA 576 Rating

Value assigned to the cleaner per CEMA Standard No. 576.

Wear Area

This is the wearable area of the blade.



CEMA Load per Blade Width

This is the amount of force that the individual belt cleaner exerts on the head pulley. This value is used to calculate power consumption and properly size the conveyor drive motor.



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