



BELT CLEANERS

CARRYBACK REMOVAL SOLUTIONS FOR ALL APPLICATIONS



PROBLEM

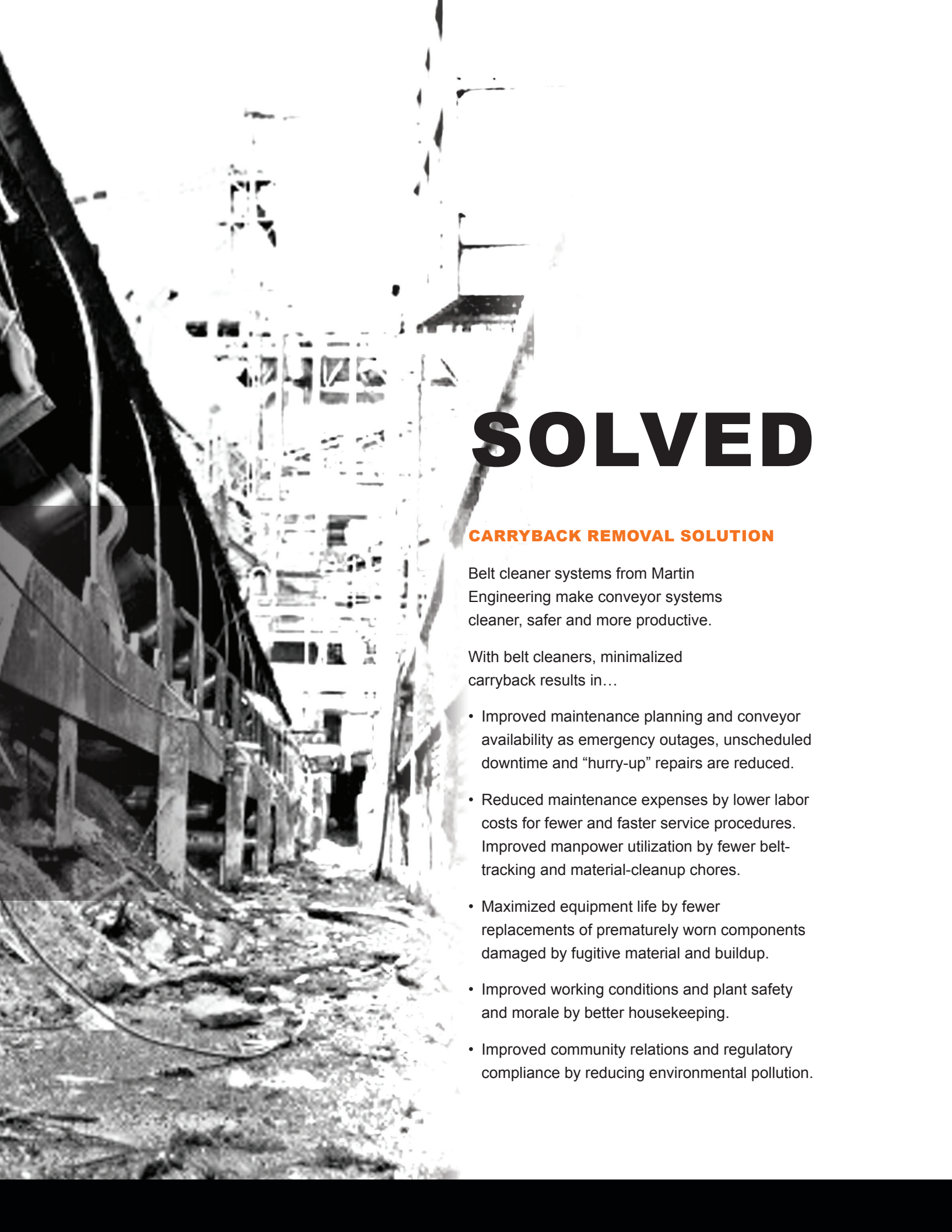
CONSEQUENCES OF CARRYBACK

Carryback is material that sticks to the belt past the discharge point and then drops off along the conveyor's return run.

Without belt cleaners, prevalent carryback causes...

- Reduced operating efficiency and profitability through increased expenses for maintenance and cleanup and the loss of material.
- Material buildup on rolling components leading to seized idlers, wandering belts and increased power consumption.
- Lower plant morale as employees sense the "I don't care if it's dirty" attitude.
- Unsafe working conditions caused by material accumulation on floors and walkways, creating fire hazards and slip/trip hazards.
- Health hazards and environmental concerns created by airborne material.
- Unfavorable attention from neighbors and regulatory agencies.





SOLVED

CARRYBACK REMOVAL SOLUTION

Belt cleaner systems from Martin Engineering make conveyor systems cleaner, safer and more productive.

With belt cleaners, minimalized carryback results in...

- Improved maintenance planning and conveyor availability as emergency outages, unscheduled downtime and “hurry-up” repairs are reduced.
- Reduced maintenance expenses by lower labor costs for fewer and faster service procedures. Improved manpower utilization by fewer belt-tracking and material-cleanup chores.
- Maximized equipment life by fewer replacements of prematurely worn components damaged by fugitive material and buildup.
- Improved working conditions and plant safety and morale by better housekeeping.
- Improved community relations and regulatory compliance by reducing environmental pollution.

PRIMARY CLEANERS

MARTIN® PRIMARY CLEANERS

As the first stage in a multiple cleaner system, the primary cleaner removes the majority of material adhered to the belt, leaving only a thin layer of sticky fines.

Primary cleaners are generally tensioned at low pressure—roughly 2 psi (13.8 kPa)—against the belt. Low blade-to-belt pressure allows the primary cleaner to be positioned at a peeling angle against the belt. The use of higher pressure at this angle would endanger the belt, splice or cleaner itself.

Primary cleaners are typically installed on the face of the head pulley, just below the material trajectory. The cleaner should be constructed to avoid material buildup and installed so that it is out of the material stream.

SELECTION GUIDE

Required Data

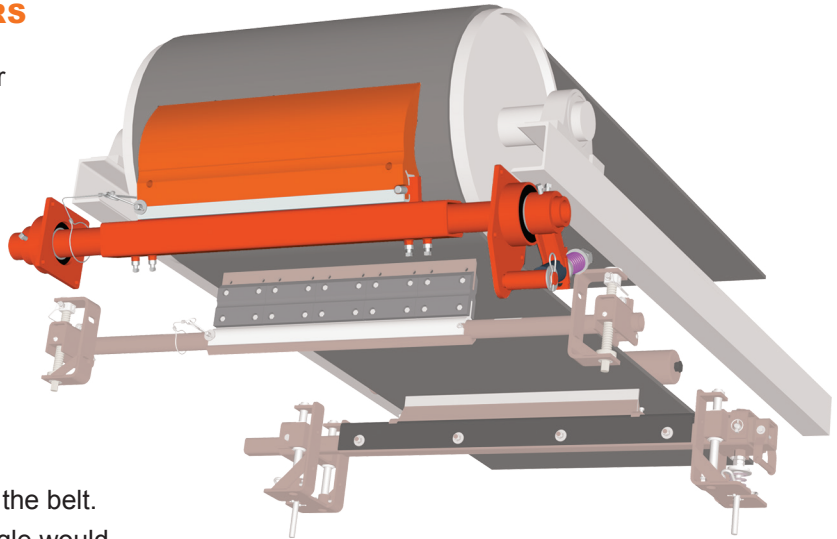
Belt width

Head pulley diameter

Belt speed

Material characteristics

Application temperature



Selection Process

1. Identify the specifications for your conveyor.
2. Use your conveyor's specifications for **belt width** and **pulley diameter** to select a primary cleaner in the Primary Cleaner Sizing Chart on the opposite page.
3. Check your selection against the recommended **maximum belt speeds** in the Primary Cleaner Scale Chart on the opposite page.
4. Use **material characteristics** and **application temperature** to identify the appropriate urethane blade in the chart on page 6.



PRIMARY CLEANER SIZING CHART

Belt Width in. (mm)	Head Pulley Diameter—in. (mm)	
	18-22 (450-560)	24-30 (600-760)
12 (300-400)	N/A	N/A
18 (400-500)	4	6
24 (500-650)	4	6
30 (650-800)	4	6
36 (800-1000)	4	6
42 (1000-1200)	4	6
48 (1200-1400)	4	6
54 (1400-1600)	4	6
60 (1600-1800)	4	6
72 (1800-2000)	4	6
84 (2000-2200)	4	6
96 (2200-2400)	4	6
108 (2600-2800)	N/A	N/A
120 (2800-3000)	N/A	N/A

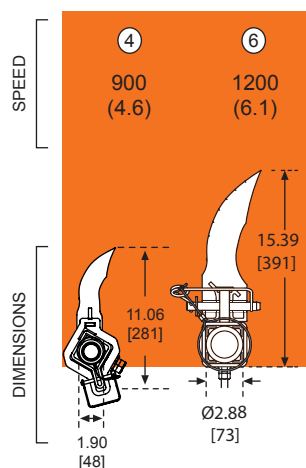
4 = QB1™ Cleaner HD

6 = QC1™ Cleaner XHD

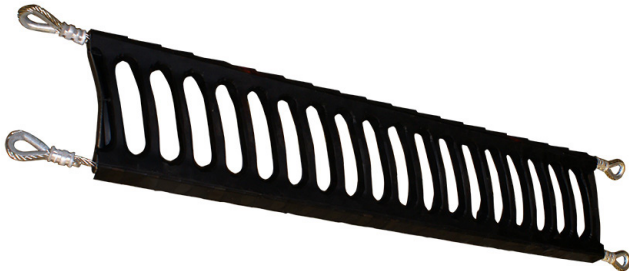
PRIMARY CLEANER SCALE & BELT SPEEDS

Maximum Belt Speed by Categories: fpm (m/sec)

Blade Dimensions given in inches (mm)



CleanScape® Cleaners



The [CleanScape® Cleaner](#) is mounted diagonally on the discharge pulley and forms a three-dimensional curve. The cleaner has a matrix of tungsten carbide scrapers incorporated into the main rubber body during the vulcanization process. Despite a relatively low contact pressure between the belt and cleaner 85 to 95% of the adhering material is removed.

FEATURES & BENEFITS

- Optimum cleaning results
- Simple installation
- Lowest required space for installation
- Lowest consumption of belt energy
- Removed material returns to main flow
- Low wear to the belt
- Low wear to the cleaner
- Suitable for use with all types of mechanical joints
- Ratio of scraper length to belt width 1.2 : 1
- Long life expectancy
- Low maintenance
- Low life-cycle costs
- Available with stainless steel installation kits
- Suitable for use in explosive atmospheres
- Suitable for use with reversing belts

SPECIFICATIONS

Cleaner Type	Pulley Diameter in. (mm)		Belt Width in. (mm)	Maximum Belt Speed fpm (m/sec)	
	Min.	Max.		Vulcanized Splice	Mechanical Splice
C1CXSSXXRXXXXXX	12 (300)	20 (508)	18–48 (457–1219)	1100 (6)	800 (4)
C1CXMXXRXXXXXX	22 (550)	34 (864)	18–72 (457–1829)	1500 (8)	800 (4)
C1CXLXXRXXXXXX	36 (900)	50 (1270)	36–96 (914–2438)	1500 (8)	800 (4)

CARBIDE BLADE SELECTION

Carbide Selection	Application Description	Typical Materials
TU01	Suitable for less abrasive materials and low belt speeds. Applicable with mechanical belt splices.	Limestone, Salt, Sugar, Coal
TU02	Suitable for moderately abrasive materials and medium belt speeds. Applicable with mechanical belt splices.	Gravel, Clinker, Sandstone
TU03	Suitable for highly abrasive materials and high belt speeds. Do not use with mechanical belt splices.	Sand, Glass, Ore
TU04	Suitable for extremely abrasive materials and highest belt speeds. Do not use with mechanical belt splices.	Quartz Sand, Glass Ash, Ore
TU05	Suitable for conditions similar to TU01 and TU02 with chemical resistance. Applicable with mechanical belt splices.	

TECHNICAL DATA SHEET

NOMENCLATURE	C1C	X	L	XX	X	R	X	X	X	X	X	X
P/N Prefix												
Assembly Type												
Cleaner Size												
No. of Elements in Blade												
Blade Carbide Type*												
Blade Body Material												
Thimble & Swage Material												
Cable Type												
Chain Size												
Tensioner Configuration												
Installation Kit												
Tensioner Material												

*See Carbide Blade Selection Table

ASSEMBLY TYPE

B: Blade only (without tensioner)
S: System Assembly (with tensioner)

CLEANER SIZE

L: Large

BLADE BODY MATERIAL

R: Rubber

THIMBLE & SWAGE MATERIAL

A: Aluminum Swage Sleeves & Galvanized Thimbles
C: Copper Swage Sleeves & Stainless Steel Thimbles

CABLE TYPE

N: Standard 7X19 SS Cable
S: Stronger 7X7 SS Cable

CHAIN SIZE

6: 6mm Chain (4.2 KN Tensioners)
8: 8mm Chain (6.6 KN Tensioners)

TENSIONER CONFIGURATION

S: Single Tensioning
D: Dual Tensioning

INSTALLATION KIT

Blank: Blade only (without tensioner)
4: Large Blade 4.2 KN Coil Spring Tensioner
6: Large Blade 6.6 KN Coil Spring Tensioner

TENSIONER MATERIAL

Blank: Blade only (without tensioner)
T: Standard Painted Steel
S: Stainless Steel

NOMENCLATURE	C1C	X	M	XX	X	R	X	X	X	X	X	X
P/N Prefix												
Assembly Type												
Cleaner Size												
No. of Elements in Blade												
Blade Carbide Type*												
Blade Body Material												
Thimble & Swage Material												
Cable Type												
Tensioner Configuration												
Installation Kit												
Tensioner Material												

*See Carbide Blade Selection Table

ASSEMBLY TYPE

B: Blade only (without tensioner)
S: System Assembly (with tensioner)

CLEANER SIZE

M: Medium

BLADE BODY MATERIAL

R: Rubber

THIMBLE & SWAGE MATERIAL

A: Aluminum Swage Sleeves & Galvanized Thimbles
C: Copper Swage Sleeves & Stainless Steel Thimbles

CABLE TYPE

N: Standard 7X19 SS Cable
S: Stronger 7X7 SS Cable

TENSIONER CONFIGURATION

S: Single Tensioning
D: Dual Tensioning

INSTALLATION KIT

Blank: Blade only (without tensioner)
4: Medium Blade 4.2 KN Coil Spring Tensioner

TENSIONER MATERIAL

Blank: Blade only (without tensioner)
T: Standard Painted Steel
S: Stainless Steel

NOMENCLATURE	C1C	X	S	XX	X	R	X	N	X	X	X
P/N Prefix											
Assembly Type											
Cleaner Size											
No. of Elements in Blade											
Blade Carbide Type*											
Blade Body Material											
Thimble & Swage Material											
Cable Type											
Tensioner Configuration											
Installation Kit											
Tensioner Material											

*See Carbide Blade Selection Table

ASSEMBLY TYPE

B: Blade only (without tensioner)
S: System Assembly (with tensioner)

CLEANER SIZE

S: Small

BLADE BODY MATERIAL

R: Rubber

THIMBLE & SWAGE MATERIAL

A: Aluminum Swage Sleeves & Galvanized Thimbles
C: Copper Swage Sleeves & Stainless Steel Thimbles

CABLE TYPE

N: Standard 7X19 SS Cable

TENSIONER CONFIGURATION

S: Single Tensioning
D: Dual Tensioning

INSTALLATION KIT

Blank: Blade only (without tensioner)
1: Standard Small Blade 2.8 KN Dual Coil Spring Tensioner
2: Multifunctional Small Blade 2.8 KN Dual Coil Spring Tensioner

TENSIONER MATERIAL

Blank: Blade only (without tensioner)
T: Standard Painted Steel
S: Stainless Steel



Martin Engineering Africa
 Cnr Antwerpen Str & Arnheimsingel,
 Die Heuwel, Witbank
 +27 13 656 5135
 www.martin-eng.co.za



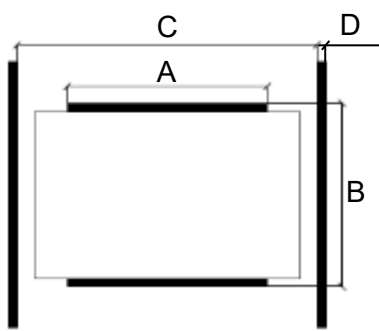
Problem Solved™ GUARANTEED!

Form No. L4040-12/18,05/2024
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Data collection sheet for quoting

Company: _____ Date: _____ Name: _____
City: _____ Country: _____ Contact person: _____

Conveyor identification:



Belt width (A): _____ mm
Pulley diameter (B): _____ mm
Inner chute width (C): _____ mm
Thickness of side wall (D): _____ mm
Belt speed: _____ m/s

OVERFILL PROTECTION:

☐ Yes ☐ No

Risk of Damage 

Mechanical Splices: ☐ Yes ☐ No

Reversing: ☐ Yes ☐ No

General condition of the belt: _____

Attach photos of inside / outside (both from left and right), drawings

Bulk material characteristics

Conveyed bulk material: _____ Grain size (min-max): _____ mm

Characteristics: ☐ Wet ☐ Dry ☐ Sticky ☐ Abrasive

PH-value: _____ Moisture: _____ % Temperature: _____ °C

To be filled out by supplier:

Cleaner type / tensioning system: _____

Offer number: _____ Date: _____ Person in charge: _____

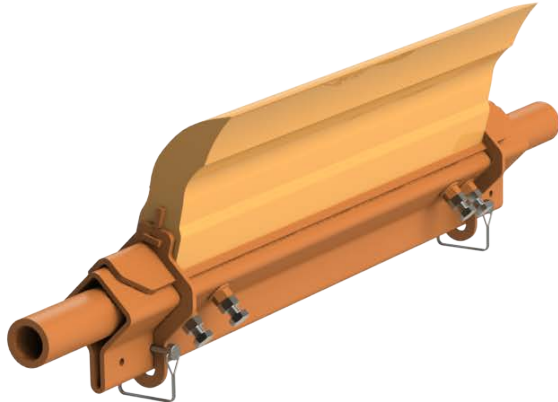
Martin Engineering Africa

Cnr Antwerpen &
Arnhemsingel,
Die Heuwel, Witbank
South Africa

Ph.: +27 13 656 5135 Fax
+27 13 656 5135
feedback@martin-eng.com
www.martin-eng.co.za



Martin® QB1™ Cleaner HD



The **Martin® QB1™ Cleaner HD** introduces the next generation of belt cleaning technology.

A truly revolutionary innovation in belt cleaning design, the QB1™ Cleaner HD provides the cleanest belt and longest blade life—at the lowest cost.

FEATURES & BENEFITS

- Same ease of installation as current Martin® QC1™ Cleaners, maintaining standard installation and service costs.
- Utilizes Martin's highly effective, patented CARP profile, ensuring the highest level of cleaning performance expected from a Martin® Belt Cleaner.
- Utilizes Martin's innovative modular design principles to reduce component surface exposure to material flow, minimizing material build-up and the resulting clean-up costs, production interruptions and safety concerns.

SPECIFICATIONS

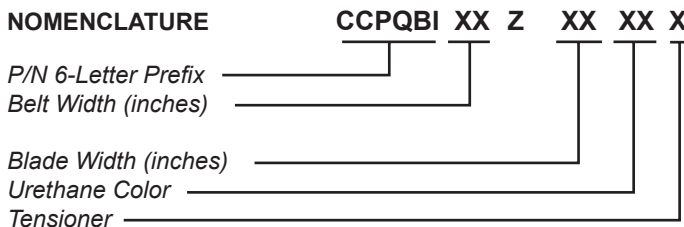
Maximum Belt Speed fpm (m/sec)	Maximum Service Temperature	Pulley Diameter** in. (mm)	Mounting Location in. (mm)	Wear Life* in. (mm)	Wear Volume (per inch of blade) in³ (cm³)
900 (4.6)	160°F (70°C) Continuous 180°F (82°C) Intermittent	16–22 (406–559)	3.5 (89)	4.5 (114)	6.53 (107)

* Amount of usable blade

** Pulley diameter 23 in. (584 mm) and greater: contact your Martin Engineering representative.

High-performance urethanes are available; see your Martin Engineering representative for assistance in specifying non-standard products. Refer to Form No. L3375.

NOMENCLATURE



URETHANE COLOUR

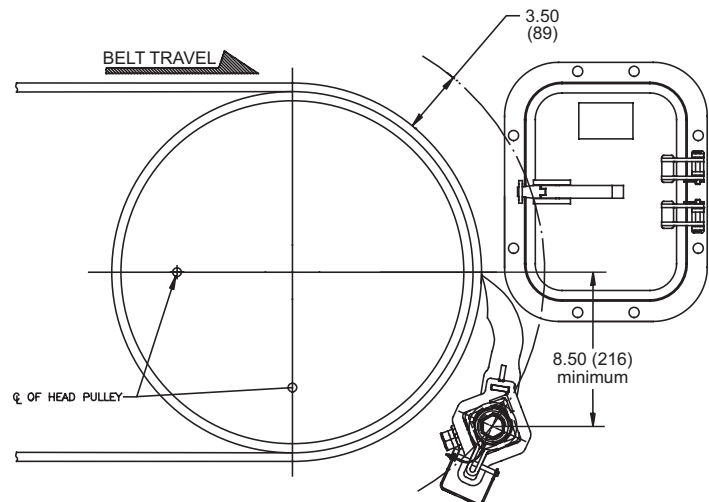
BR: Brown
NB: Navy Blue
GR: Green
CL: Tan
OR: Orange

TENSIONER

T: Martin® Twist Tensioner
S: Martin® Spring Tensioner

Use segmented blade on crowned head pulley.

MOUNTING LOCATION



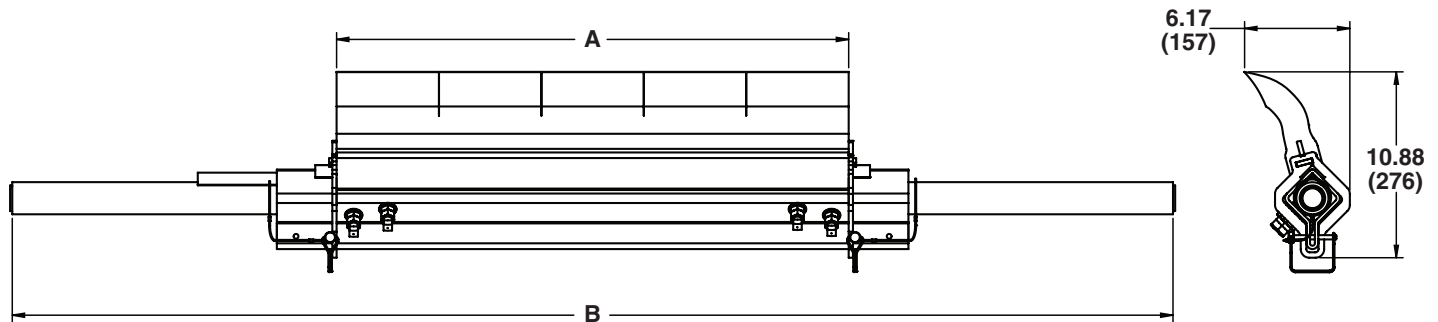
TECHNICAL DATA SHEET

DIMENSIONS -- in. (mm)

* Tensioner not included

Belt Width in. (mm)	Mainframe Length (B) in. (mm)	Belt Coverage (A) Belt Width Less 6" in. (mm)	Shipping Weight* lb. (kg)	Belt Coverage (A) Belt Width Less 2" in. (mm)	Shipping Weight* lb. (kg)
18 (400-500)	44 (1118)	12 (305)	40 (18)	16 (406)	43 (20)
24 (500-650)	50 (1270)	18 (457)	51 (23)	22 (559)	53 (24)
30 (650-800)	62 (1575)	24 (610)	63 (29)	28 (711)	66 (30)
36 (800-1000)	68 (1727)	30 (762)	71 (32)	34 (864)	73 (33)
42 (1000-1200)	74 (1880)	36 (914)	78 (35)	40 (1016)	81 (37)
48 (1200-1400)	80 (2032)	42 (1067)	86 (39)	46 (1168)	89 (40)
54 (1400-1600)	86 (2184)	48 (1219)	94 (43)	52 (1321)	96 (44)
60 (1600-1700)	98 (2489)	54 (1372)	106 (48)	58 (1473)	109 (49)
66 (1700-1800)	104 (2642)	60 (1524)	114 (52)	64 (1626)	116 (53)
72 (1800-2000)	110 (2794)	66 (1676)	121 (55)	70 (1778)	124 (56)
84 (2000-2200)	123 (3124)	78 (1981)	114 (52)	82 (2083)	116 (53)
96 (2200-2400)	135 (3429)	90 (2286)	135 (61)	94 (2388)	137 (62)

Note: Dual Tensioners are required for belt widths 54 in. (1350 mm) and greater.



RECOMMENDED TENSIONERS & REPLACEMENT BLADES

Tensioner	P/N
Martin® Twist Tensioner	38850
Martin® Spring Tensioner	SGIST0I00SA
Martin® Dual Spring Tensioner	SGIDT0I00SA

Replacement Blade P/N
CCPQB10XXZXX
XX - Belt Width in inches
XX - Urethane Colour

ACCESSORIES

Part	P/N
Martin® Steel Inspection Door	CYA-1218
Martin® Hanger Mount Standard Assembly	27382

FREQUENTLY ASKED QUESTIONS

My Pre-Cleaner keeps flipping through.

The mounting location may be too far away from the belt. Relocate to the proper dimension.
Replace the mainframe or end weldments if they are bent.

My Pre-Cleaner is wearing more in the center of the blade.

The blade is too wide for this application. Replace with a shorter length blade.



Martin Engineering Africa
Cnr Antwerpen St & Arnheimsingel
Die Heuvel, Witbank
Tel +27 13 656 5135
Fax +27 13 656 5129
www.martin-eng.co.za



Problem Solved™ GUARANTEED!

Form No. L4021-ZA Revised 05/16,07/19,05/2024
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Martin® QC1™ Cleaner XHD



NOMENCLATURE

35899- XX XX XX XX X

P/N 5-Digit Prefix _____
 Belt Width (inches) _____
 Slits/Segments _____
 Blade Width (inches) _____
 Urethane Color _____
 Tensioner _____

35899D XX XX XX XX X

P/N 5-Digit Prefix _____
 Belt Width (inches) _____
 Slits/Segments _____
 Blade Width (inches) _____
 Urethane Color _____
 Tensioner _____

SLITS/SEGMENTS

11 for no slits or segments **10** for segments only
01 for slits only **00** for slits & segments

URETHANE COLOR

BR for Brown **GR** for Green
NB for Navy Blue **CL** for Tan
Blank for Orange

TENSIONER

T for Martin® Spring Tensioner XHD

Example #1: P/N 35899-481O42T is a belt cleaner for a 48-in. wide belt, with segments, standard orange urethane blade. Blade coverage is belt width minus 6 in., with a Spring Tensioner XHD.

Example #2: P/N 35899-600048BR is a belt cleaner for a 60-in. wide belt, with wear slits and segments, brown urethane blade that is 48 in. Blade coverage is belt width minus 12 in., with no tensioner included.

The [Martin® QC1™ Cleaner XHD](#) tackles the tough jobs. Designed for rugged conditions, this sturdy cleaner features a one-pin blade change, making replacement of a worn blade a simple procedure.

The Martin® QC1™ Cleaner XHD includes a Spring Tensioner to maintain proper cleaning pressure while minimizing the need for adjustment.

Dual tensioners are supplied with cleaners for belts 48 in. (1219 mm) wide or wider.

BENEFITS

- **Fast Blade Change Cuts Service Expense**
One-pin blade replacement makes blade replacement a fast and easy operation.
- **Matched Tensioner Maintains Consistent Cleaning**
Martin® QC1™ Cleaner XHD and Spring Tensioner are system-engineered to preserve the cleaning edge from high belt speeds and multiple splices.
- **Curved Blade Provides Consistent Cleaning**
Patented “CARP” (Constant Angle Radial Pressure) design maintains cleaning performance through all stages of blade life.
- **Rugged Construction Suits Tough Conditions**
Mainframe of rugged 3/8-in. (9.5-mm) thick DOM steel tubing has steel bar backbone. Aluminum extrusion in blade base holds cleaner snugly to backbone.
- **Blade Materials Match Application**
Martin Engineering’s urethane expertise provides blades to suit standard, high-temperature, or high-abrasion conditions.
- **The Most Cleaner, the Least Investment**
Economical pre-cleaner and tensioner system combines effective cleaning, durable life, and low-maintenance requirements.

NOTES

Martin® QC1™ Cleaners XHD are available for belts up to 120 in. (3048 mm) wide. For belts wider than 72 in. (2000 mm) a dual-blade assembly is required.

Normal blade length is belt width less 6 in. (150 mm). For belts with a 45° trough or where material is centered on belt, customer should consider a blade that is belt width less 12 in. (300 mm). This is because belt edges may not require cleaning, and blade-to-belt friction in these areas may lead to premature wear of cleaner and/or belt.

TECHNICAL DATA SHEET

SPECIFICATIONS & DIMENSIONS – in. (mm)

Part Number 35899-XXXXXXX (belt width less 6 in.)

Part Number	Belt Width in (mm)	Dim. A Blade in (mm)	Dim. B Frame in (mm)	Cleaner Ship Wt. lb (kg)	Tensioner Ship Wt. lb (kg)
35899-18XX12	18 (457)	12 (305)	66 (1676)	75 (34)	40 (18)
35899-24XX18	24 (610)	18 (457)	72 (1829)	90 (41)	40 (18)
35899-30XX24	30 (762)	24 (610)	78 (1981)	105 (48)	40 (18)
35899-36XX30	36 (915)	30 (762)	84 (2134)	120 (54)	40 (18)
35899-42XX36	42 (1067)	36 (915)	90 (2286)	135 (61)	40 (18)
35899-48XX42	48 (1219)	42 (1067)	96 (2438)	150 (68)	51 (23)*
35899-54XX48	54 (1372)	48 (1219)	102 (2590)	165 (74)	51 (23)*
35899-60XX54	60 (1524)	54 (1372)	108 (2743)	180 (81)	51 (23)*
35899-66XX60	66 (1676)	60 (1524)	114 (2896)	195 (88)	51 (23)*
35899-72XX66	72 (1829)	66 (1676)	120 (3048)	210 (95)	51 (23)*

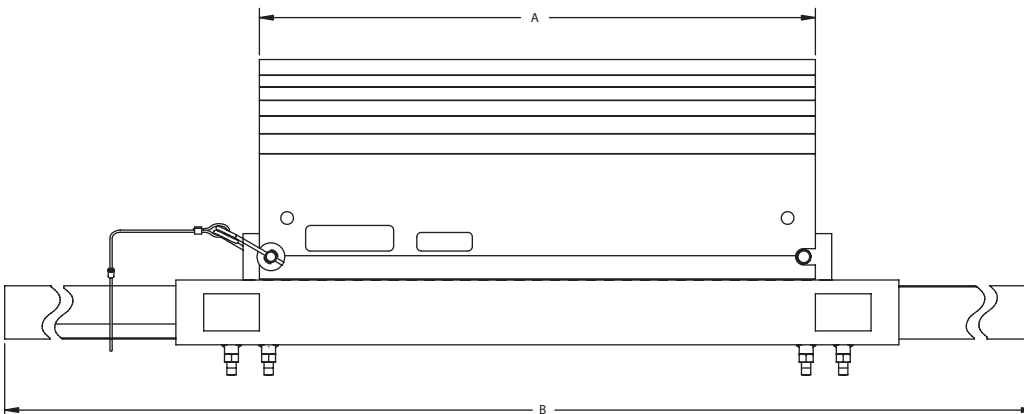
Part Number 35899-XXXXXXXX (belt width less 12 in.)

35899-24XX12	24 (610)	12 (305)	72 (1829)	86 (39)	40 (18)
35899-30XX18	30 (762)	18 (457)	78 (1981)	100 (45)	40 (18)
35899-36XX24	36 (915)	24 (610)	84 (2134)	114 (51)	40 (18)
35899-42XX30	42 (1067)	30 (762)	90 (2286)	128 (58)	40 (18)
35899-48XX36	48 (1219)	36 (915)	96 (2438)	143 (64)	40 (18)
35899-54XX42	54 (1372)	42 (1067)	102 (2590)	158 (71)	51 (23)*
35899-60XX48	60 (1524)	48 (1219)	108 (2743)	173 (78)	51 (23)*
35899-66XX54	66 (1676)	54 (1372)	114 (2896)	188 (85)	51 (23)*
35899-72XX60	72 (1829)	60 (1524)	120 (3048)	203 (92)	51 (23)*

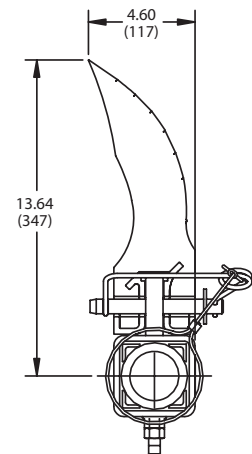
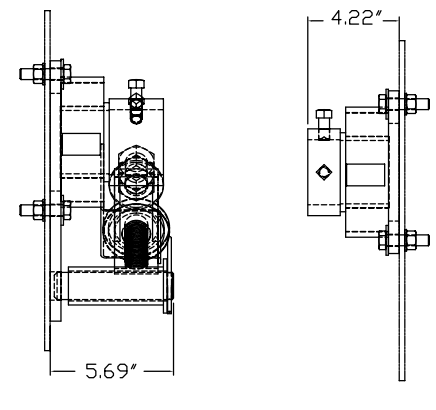
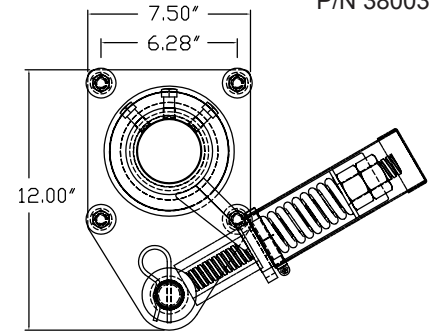
For belt widths above 72 in. (2000 mm) contact Martin Engineering.

* Requires dual tensioners P/N 38003-2

Martin® QC1™ Cleaner XHD P/N 35899-XXXXXXXXXX



Spring Tensioner XHD P/N 38003



TECHNICAL DATA SHEET

INSTALLATION AND MOUNTING

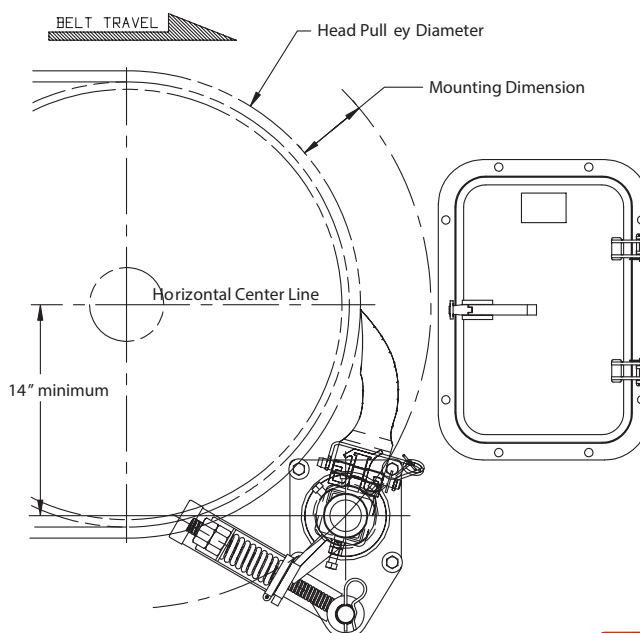
Installation Recommendations:

Head Pulley Diameter	24 in. – 30 in. (609.6 – 762 mm)
Maximum Belt Speed	1200 fpm (6 m/s)

Mounting Location:

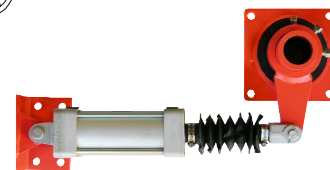
Head Pulley Diameter*	Mounting Dimension
16 in. (400 mm)	5.75 (146)
20 in. (500 mm)	5.50 (140)
24 in. (600 mm)	5.25 (133)
28 in. (700 mm)	5.00 (127)
30 in. (750 mm)	4.75 (120)

* includes belt and lagging



TENSIONER OPTIONS

Tensioner	P/N	Blade Width
Martin® Spring Tensioner XHD	38003	36 in. (915 mm) or less
Martin® Spring Tensioner XHD Dual	38003-2	42 in. (1067 mm) or greater
Martin® Air Tensioner XHD	32135	42 in. (1067 mm) or less
Martin® Air Tensioner XHD Dual	32135-2R	48 in. (1372 mm) or greater



REPLACEMENT PARTS

Item	P/N	P/N Nomenclature	Urethane Options
Blade—72" blades & below	35897-XX X XX XX	XX = belt width in inches	OR = Orange
Blade—72" blades & above	35897DXXXXXXL or 35897DXXXXXXR	X = option for slits	CL = Tan
		X = option for segments	NB = Navy Blue
		XX = blade width in inches	BR = Brown
		XX = blade color and material	GR = Green

Note: 72" (1,829 mm) cleaners can come with one 60" or 66" long blade or two 33" blades (right & left)
84" (2,134 mm) and larger cleaners always have dual blades (right & left)

FREQUENTLY ASKED QUESTIONS

My Pre-Cleaner keeps flipping through. What is wrong?

The mounting location may be too far away from the belt. Relocate to the proper mounting location. Replace the mainframe or end weldments if they are bent. Check set screws to determine if they are tight. Retighten if necessary.

My Pre-Cleaner is wearing more in the center of the blade.

The blade is too wide for this application. Replace with a shorter length blade.

ACCESSORIES

PART	P/N
Martin® Steel Inspection Door	CYA-1218
Martin® Hanger Mount XHD Assembly	27382-SL



Martin Engineering Africa

Cnr Antwerpen St & Arnheimsingel
Die Heuwel, Witbank
Tel +27 13 656 5135
Fax +27 13 656 5129
www.martin-eng.co.za



Problem Solved™ GUARANTEED!

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Martin® Replacement Blades



Martin offers belt cleaner / belt scraper blades for belt cleaning systems from any manufacturer in several color-coded urethanes to match performance and conditions.

Martin Engineering is the leader in the development of high-performance urethanes, producing all of its urethane in house, ensuring exceptional quality assurance and product satisfaction. Providing solutions for your exact requirements, Martin offers an entire line of color-coded urethanes to match performance to specific applications/conditions.

Martin® Belt Cleaner Urethane Selection

- **(New) Teal Urethane**

Specially formulated for use as a squeegee blade on Martin® H2O Cleaner. (Not available in Primary Cleaner Blades.)

CONTINUOUS TEMPERATURE: -20° to 160° F (-40° to 70° C)

- **(GR) Green High Temperature Urethane**

For exposure to intermittent temperatures up to 350°F (177°C)

TYPICAL MATERIALS: Clinker.

CONTINUOUS TEMPERATURE: -40° to 300°F (-40° to 150°C)

- **(BR) Brown Chemical-Resistant Urethane**

Improved resistance to chemicals; reduced absorption of water in high-moisture environments.

TYPICAL MATERIALS: Limestone.

CONTINUOUS TEMPERATURE: -40° to 160°F (-40° to 70°C)

- **(OR) Orange Standard Martin® Urethane**

Suitable for 80% or more of all belt cleaner applications, including abrasive conditions. Best choice for exposure to solvents or oil.

TYPICAL MATERIALS: Bauxite, Coke, Coal, Overburden Refuse, Steel/Ore, All other.

CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)

- **(CL) Clear Low-Rigidity Urethane**

(To improve manufacturing consistency, this urethane is now tan in color.)

For dry products such as sand and gravel.

TYPICAL MATERIALS: Gravel, Dry Sand.

CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)

- **(NB) Navy Blue Low-Adhesion Urethane**

For sticky or tacky materials.

TYPICAL MATERIALS: Cement, Glass, Wood Chips.

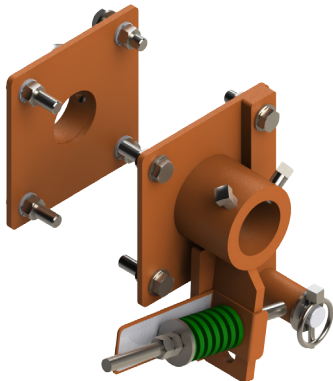
CONTINUOUS TEMPERATURE: -20° to 160°F (-30° to 70°C)



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Martin® Spring Tensioner



Keep the pressure on with this simple belt cleaner tensioning device from Martin Engineering.

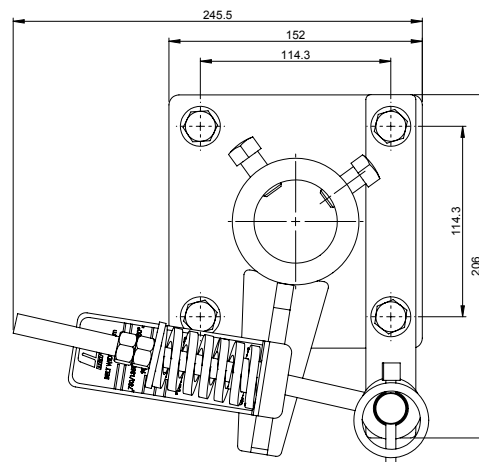
The **Martin® Spring Tensioner** supplies consistent pressure to keep blades against the belt for effective cleaning, regardless of the state of blade wear.

The Martin® Spring Tensioner uses the force stored in a spring to provide the steady pressure that allows even, effective cleaning.

BENEFITS

- **Easy To Tension**
Sticker to accurately adjust tension
- **Low Maintenance**
The tensioner maintains consistent blade-to-belt pressure.
- **Guaranteed**
Like all Martin® Products, the Martin® Spring Tensioner is covered by Martin Engineering's *Absolutely, Positively, No Excuses, Guarantee.*

DIMENSIONS (mm.)



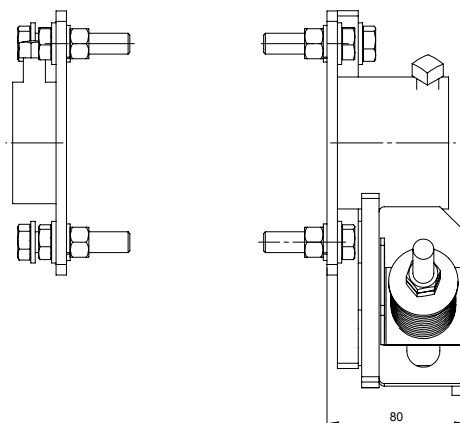
NOMENCLATURE

SG 1 X T0I00SA

Tensioner

TENSIONER

S: Single Tensioner
D: Dual Tensioner



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Martin® Twist Tensioner



Keep the pressure on with this rugged yet simple belt cleaner tensioning device from Martin Engineering.

The **Martin® Twist Tensioner** supplies consistent pressure to keep blades against the belt for effective cleaning, regardless of the state of blade wear.

The Martin® Twist Tensioner uses the force stored in a twisted rubber sleeve to provide the steady pressure that allows even, effective cleaning.

BENEFITS

• Self-Relieving

If cleaner blades are "pulled through," the tensioner's internal self-relieving coupling rolls over. This releases the pressure on the rubber tensioning sleeve, without exposing personnel or equipment to the risk of injury from a rotating external hub.

• Easy To Tension

Simply turn the tensioning gear until you feel the resistance of the blades against the belt. Then turn the gear the additional number of notches indicated on the label (as determined by the width of the conveyor belt).

• Absorbs Splice Shock

Rubber bushings cushion splice impact and minimize damage to belt, splice, and cleaning edge.

• Low Maintenance

The tensioner maintains consistent blade-to-belt pressure. The set-resistance 60 A Durometer natural rubber sleeve overcomes the need for periodic retensioning necessary to compensate for pressure loss or worn blades.

• Guaranteed

Like all Martin® Products, the Martin® Twist Tensioner is covered by Martin Engineering's *Absolutely, Positively, No Excuses, Guarantee*.

NOMENCLATURE

38850 - X X

P/N Prefix

Tensioner

Mounting Options

TENSIONER

Ø: Single Tensioner

2: Dual Tensioner

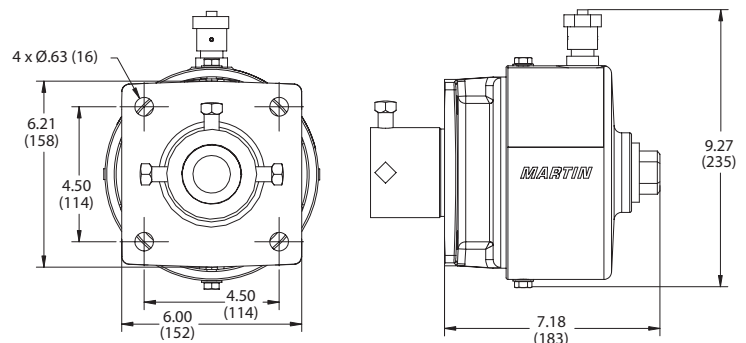
MOUNTING OPTIONS

A: Weldable Adapter Plate Kit

L: "L" Bracket Mounting Hardware

M: Metric Mounting Hardware

DIMENSIONS

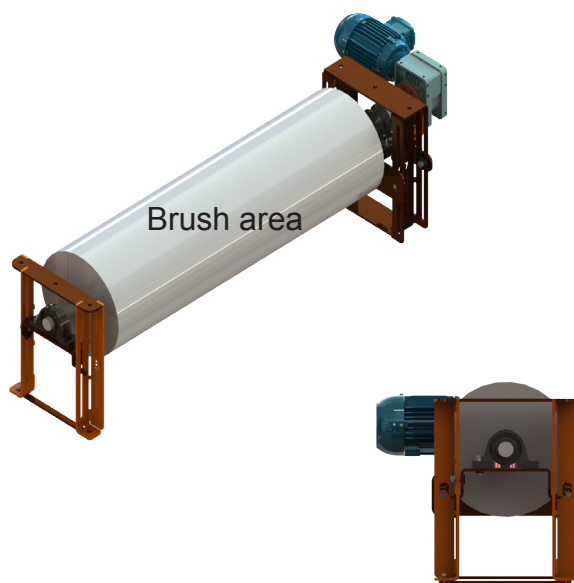


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Martin® Rotary Belt Cleaner

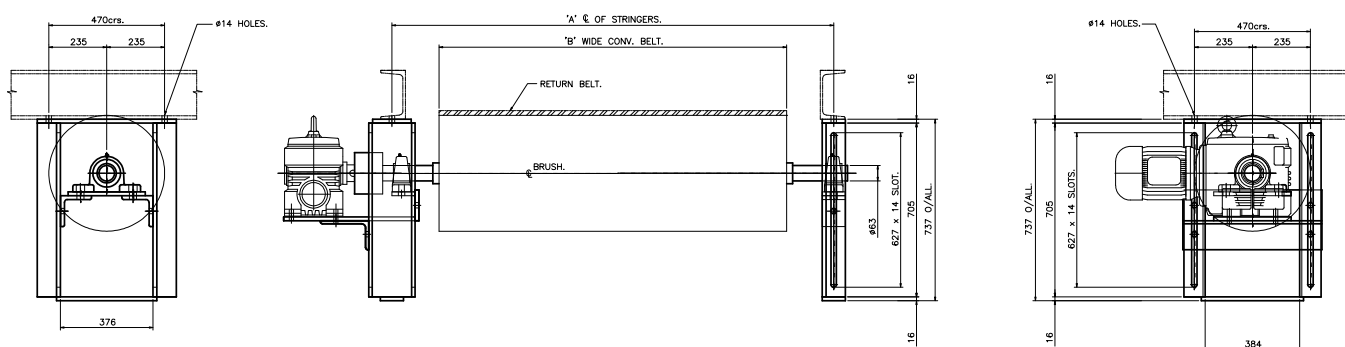


BENEFITS

- The Martin® Rotary Brush Cleaner are specially suited for the removal of fines and residue from ribbed, flighted, grooved or chevron conveyor belts. Versions of brush belt cleaners are available to suit your conditions and your budget.
- Motor options
 - 0.75 Kw. : 450 - 750 B/W
 - 1.1 Kw. : 900 - 1050 B/W
 - 1.5 Kw. : 1200 - 1800 B/W
- Bristles consist of nylon
- Two brush options available
 - Martin® Full Brush - Dry Applications
 - Martin® Spiral Brush - Wet Applications
- Maximum Belt Speed : 2.5 m/s⁻¹
- Belt Width : 450 - 1800

DIMENSIONS

BELT WIDTH	450	600	750	900	1050	1200	1350	1500	1650	1800
A	686	838	990	1144	1296	1448	1600	1752	1904	2058
B	450	600	750	900	1050	1200	1350	1500	1650	1800



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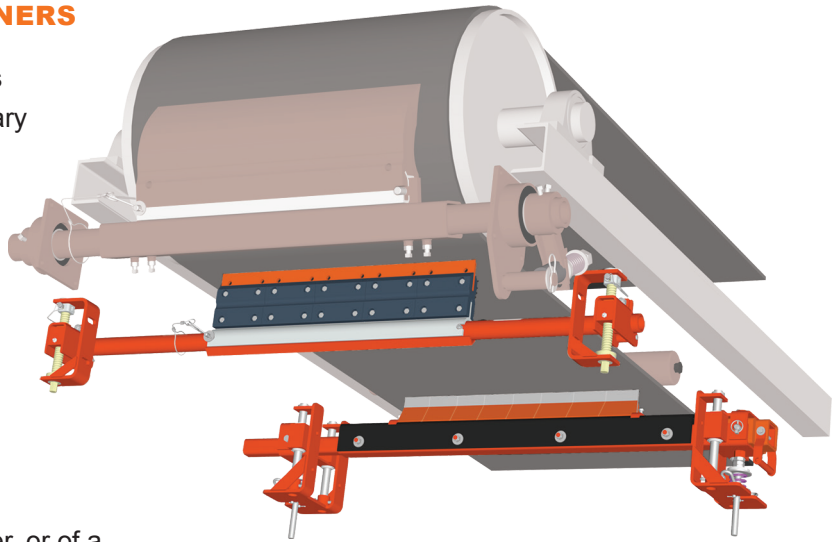
SECONDARY CLEANERS

MARTIN® SECONDARY CLEANERS

Installed at the point where the belt is leaving the discharge pulley, secondary cleaners remove residual fines that remain on the belt past the primary cleaner. Its location is typically close enough to the material trajectory that the cleanings will return to the main material stream.

Additional tertiary cleaners can be installed to provide final cleaning. These cleaners can be the same model as the secondary cleaner, or of a different design to allow efficient cleaning and maintenance within the available space.

As these cleaners are typically installed away from the pulley, they should be placed at or near a point where the belt is against a roller. Firm support prevents the cleaning pressure from raising the belt line and reducing cleaning efficiency.

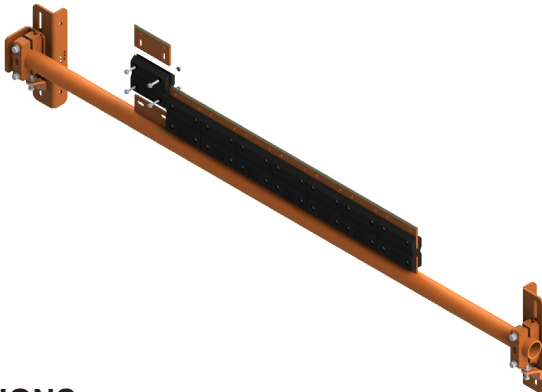


SELECTION GUIDE

1. Check your conveyor's **belt speed** against the specifications listed for the secondary cleaners in the table below.
2. If your belt features multiple mechanical splices, or a mechanical splice in poor condition, avoid using tungsten carbide blades as rapid wear or damage to both the blade and splice may result.



Martin® SC16 Secondary Belt Cleaner



OPTIONS

- Option of a double or single blade SC16. On belts demonstrating "above average" carryback after the discharge point, a double SC16 can be installed.

BENEFITS

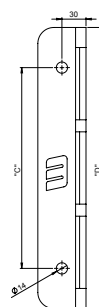
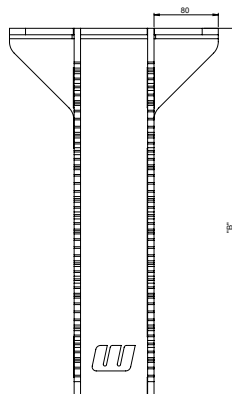
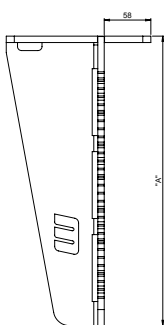
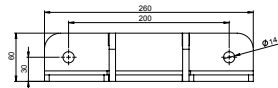
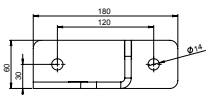
- SC16 has a unique installation and removal guide/ cradle for easy removal and replacement of blade carrier tube, especially when servicing cleaners on wide belts.
- Rugged belt cleaner construction withstands punishing applications, like high-speed belts and high-tonnage loads.
- Rubber blade mountings maintain constant belt pressure - irrespective of belt profile or irregularities.
- Rubber blade mountings allow blades to deflect when encountering metal belt fasteners and accommodate reversing belts.
- Compact secondary belt cleaner design allows installation in close quarters; narrow profile resists material buildup.

BRACKETS

T BRACKET	"A"
350mm	360mm
450mm	460mm

CHANNEL T BRACKET	"B"
350mm	360mm
450mm	460mm
600mm	600mm

STD BRACKET	"C"	"D"
250mm	150mm	250mm
350mm	250mm	350mm
450mm	350mm	450mm



T BRACKET

CHANNEL T BRACKET

STANDARD BRACKET

BUFFER STORAGE GUIDELINES

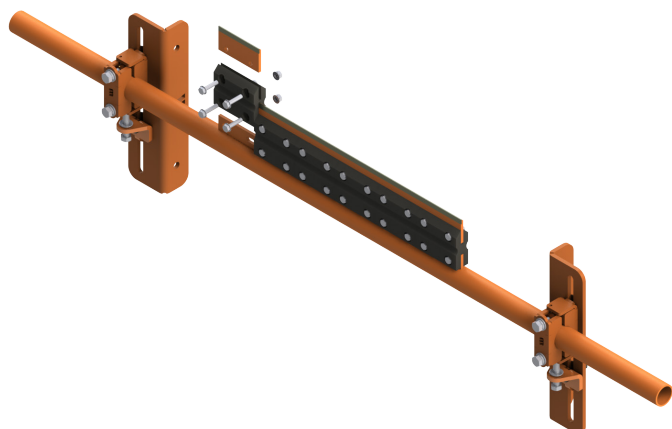
- Please note that if buffers are stored correctly it will optimise shelf life.
- The items should be stored in a cool, dry place, away from direct sunlight, and not exposed to any weathering.
- Please also work on a first-in-first-out principle



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Martin® SC10 Secondary Belt Cleaner



BENEFITS

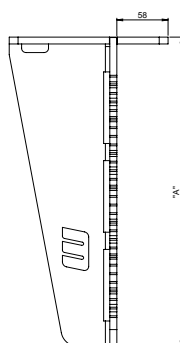
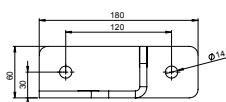
- The SC10 is a smaller than other secondary belt cleaners. The bene it is that it can be used for secondary application where the installation space is limited.
- The SC10 can handle a maximum belt speed of 4.5 m.s⁻¹ and maximum belt width of 1050mm.
- This is a more affordable option for smaller mines and quarries.

BRACKETS

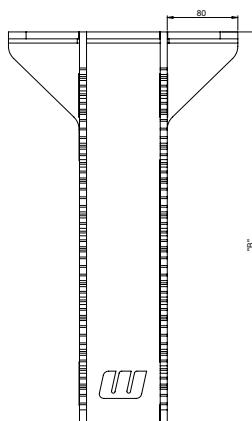
T BRACKET	"A"
350mm	360mm
450mm	460mm

CHANNEL T BRACKET	"B"
350mm	360mm
450mm	460mm
600mm	600mm

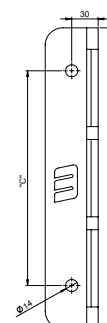
STD BRACKET	"C"	"D"
250mm	150mm	250mm
350mm	250mm	350mm
450mm	350mm	450mm



T BRACKET



CHANNEL T BRACKET



STANDARD BRACKET



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MARTIN ENGINEERING AFRICA

Cnr Antwerpen St. Arnhemsingel,

Die Heuvel, Witbank

+27 13 656 5135

feedback@martin-eng.com

www.martin-eng.co.za