

AIRMATIC®

WE'LL HANDLE IT.



martin®

RETROFIT REPLACEMENT BLADES

AIRMATIC

284 Three Tun Rd. Malvern, PA 19355

215.333.5600

infocenter@airmatic.com

airmatic.com

Urethane	Color	Part Number Suffix	Durometer	Application Conditions	Temperature
Standard	Orange	OR	85	Suitable for most applications, including abrasive conditions and exposure to solvents or oil. For use with materials such as coal, ore, bauxite, coke, refuse. Suitable for 80% or more of all applications.	-20° to 160°F
High Temperature	Green	GR	95	For use with high temperature materials such as clinker.	Continuous -40° to 300°F
					Intermittent 350°F
Chemical Resistant	Brown	BR	90	Improved resistance to chemicals and reduces water absorption for high-moisture environments such as limestone. Best choice for applications exposed to chemicals with pH as high as 11 and as low as 4.	-40° to 160°F
Low Rigidity	Tan	CL	86	For use with dry products such as sand and gravel.	-20° to 160°F
Low Adhesion	Navy Blue	NB	90	For use with sticky or tacky products such as cement, glass, and wood chips.	-20° to 160°F
High Abrasion	Yellow	CY	50	For use in high-wear applications. Features 1/16in. diameter ceramic beads bonded to the urethane in the wear area.	-20° to 160°F



MARTIN URETHANE BLADE BENEFITS

- Manufactured in-house for highest quality assurance
- Specially-formulated, color-coded urethane to suit application
- 20% more urethane in the wearable area than competitive blades
- High-performance urethane ensures product satisfaction
- Backed by our Absolutely No Excuses Guarantee

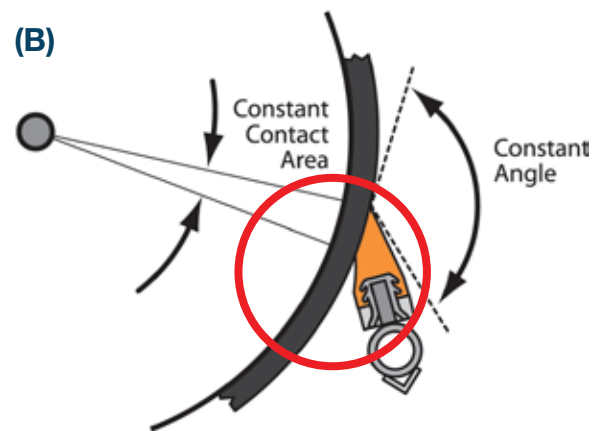
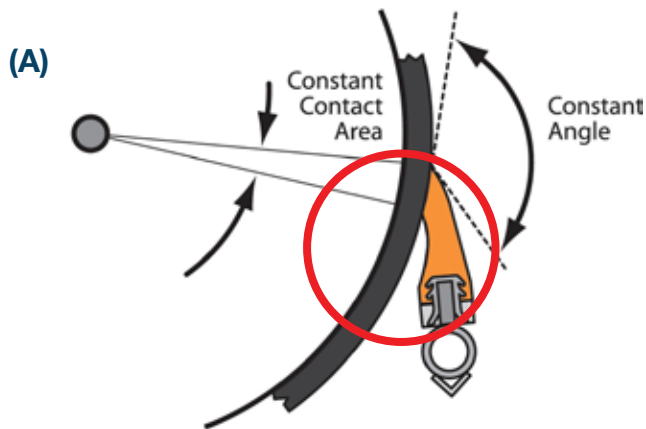


BLADE DESIGN

CONSTANT ANGLE/AREA RADIAL PRESSURE (CARP) CLEANING TECHNOLOGY

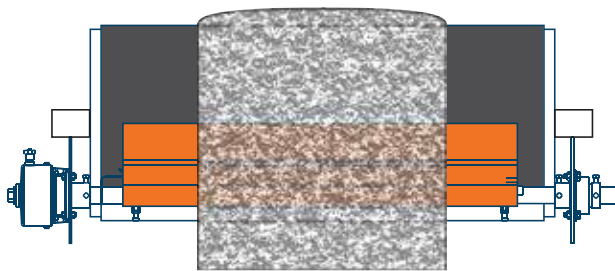
(A) To ensure consistent cleaning throughout all stages of blade life, our patented Constant Angle Radial Pressure (“CARP”) technology incorporates a specially-designed curved blade. This constant angle design maintains efficiency throughout the service-life of the blade.

(B) To prevent a reduction in blade-to-belt pressure, cleaner efficiency, and the constant need for re-tensioning, we combined our Constant Area Radial Pressure design (“CARP”) with our tensioner technology to minimize the change in area throughout a blade’s wear-life.



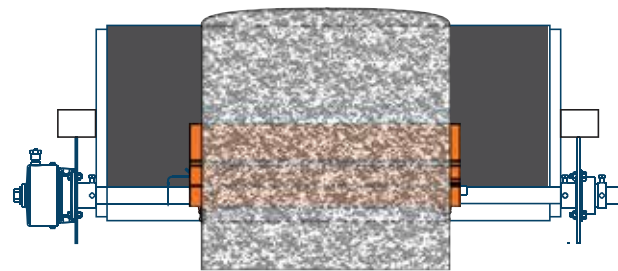
MATERIAL PATH

For optimal cleaning and blade-life, the blade width should be sized as close to the width of the material path as possible. Standard blade width is equal to the belt width minus two inches. Blades can be cut (upon order or on-site) to match the width of the material path.



INCORRECT

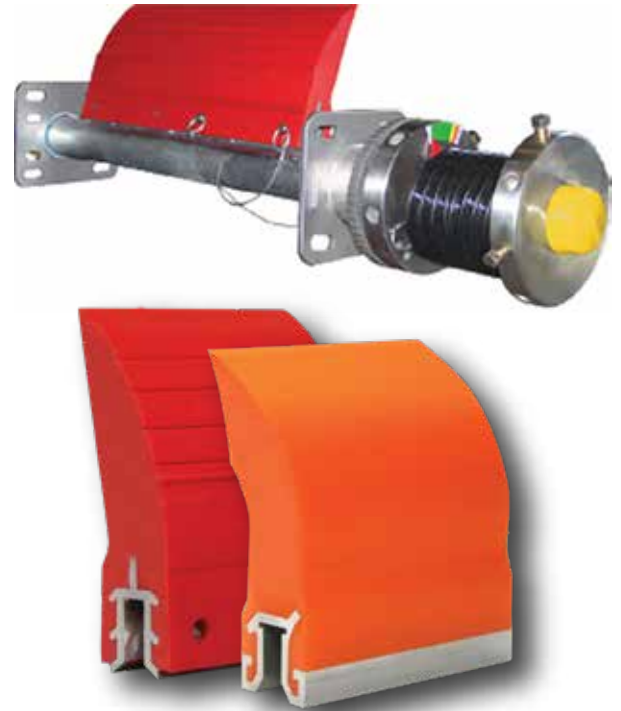
Will cause uneven blade-wear.
Uneven wear will greatly reduce the wear-life of the blade.



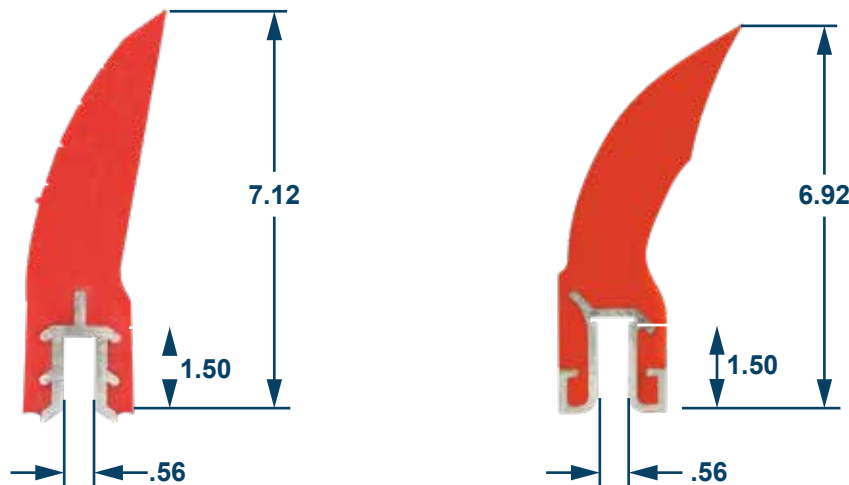
CORRECT

ASGCO® SKALPER® PRIMARY CLEANER

Belt Width in.	Blade Width in.	ASGCO Skalper Blade P/N	Martin Retrofit Blade P/N
18	12	ASG-SK4-12A-1	36471-181112
24	18	ASG-SK4-18A-1	36471-241118
30	24	ASG-SK4-24A-1	36471-301124
36	30	ASG-SK4-30A-1	36471-361130
42	36	ASG-SK4-36A-1	36471-421136
48	42	ASG-SK4-42A-1	36471-481142
54	48	ASG-SK4-48A-1	36471-541148
60	54	ASG-SK4-54A-1	36471-601154
66	60	ASG-SK4-60A-1	36471-661160
72	66	ASG-SK4-66A-1	36471-721166
78	72	ASG-SK4-72A-1	36471-781172
84	78	ASG-SK4-78A-1	36471-841178
90	84	ASG-SK4-84A-1	36471-901184
96	90	ASG-SK4-90A-1	36471-961190



Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
Skalper PreCleaner Blade	ASG-SK4-XXA	3.25 in ³	53%
Martin Retrofit Blade for Skalper PreCleaner	36471-XXXXXX	6.53 in ³	



ASGCO and Skalper are registered trademarks of ASGCO Mfg, Inc., Allentown, PA.

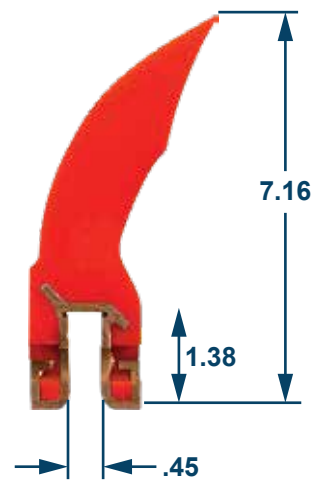
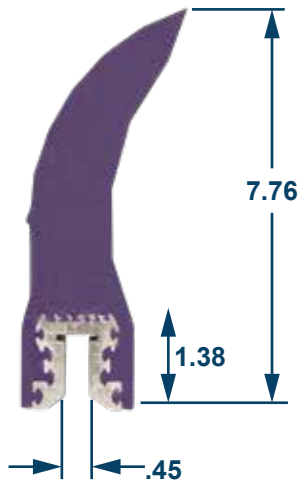
FLEXCO[®] EZP1 ROCKLINE[®] PRIMARY CLEANER

Belt Width in.	Blade Width in.	Flexco ConShear [™] Primary Cleaner Blade P/N	Martin Retrofit Blade for Flexco EZP1 Rockline Primary Cleaner P/N
18	10	CRB10	38108-1811100R
24	16	CRB16	38108-2411160R
30	22	CRB22	38108-3011220R
36	28	CRB28	38108-3611280R
42	34	CRB34	38108-4211340R
48	40	CRB40	38108-4811400R
54	46	CRB46	38108-5411460R
60	52	CRB52	38108-6011520R
66	58	CRB58	38108-6611580R
72	64	CRB64	38108-7211640R
78	70	CRB70	38108-7811700R



SPECIFICATIONS

Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
EZP1 Rockline PreCleaner Blade	CRBXX	6.23 in ³	7%
Martin Retrofit Blade for EZP1 Rockline PreCleaner	38108-XXXXXX	6.65 in ³	



Flexco and Rockline are registered trademarks of Flexible Steel Lacing Company, Downers Grove, IL.
 ConShear is a trademark of Flexible Steel Lacing Company, Downers Grove, IL.

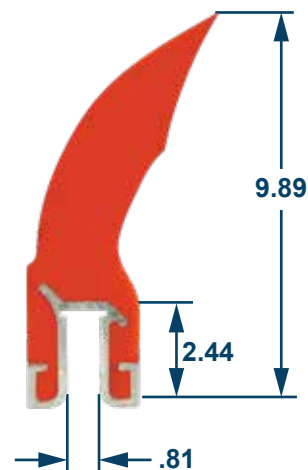
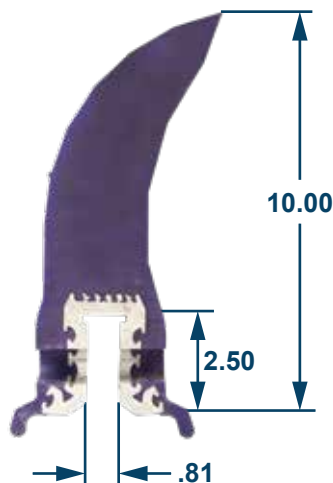
FLEXCO MMP PRIMARY CLEANER

Belt Width in.	Blade Width in.	Flexco TuffShear™ Blade P/N	Martin Retrofit Blade P/N
24	18	TRB18	38900-2411
30	24	TRB24	38900-3011
36	30	TRB30	38900-3611
42	36	TRB36	38900-4211
48	42	TRB42	38900-4811
54	48	TRB48	38900-5411
60	54	TRB54	38900-6011
66	60	TRB60	38900-6611
72	66	TRB66	38900-7211
78	72	TRB72	38900-7811
84	78	TRB78	38900-8411
90	84	TRB84	38900-9011
96	90	TRB90	38900-9611



SPECIFICATIONS

Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
Flexco MMP Primary Cleaner Blade	TRBXX	11.8	Equal
Martin Retrofit blade for Flexco MMP Primary Cleaner	38900-XX11	11.8	



Flexco is a registered trademark of Flexible Steel Lacing Company, Downers Grove, IL.
TuffShear is a trademark of Flexible Steel Lacing Company, Downers Grove, IL.

ARCH SABER[®] (SCM) PRIMARY CLEANER

Belt Width in.	Blade Width in.	Flexco TuffShear Blade P/N	Martin Retrofit Blade P/N
24	18	TRB18	38900-2411
30	24	TRB24	38900-3011
36	30	TRB30	38900-3611
42	36	TRB36	38900-4211
48	42	TRB42	38900-4811
54	48	TRB48	38900-5411
60	54	TRB54	38900-6011
66	60	TRB60	38900-6611
72	66	TRB66	38900-7211
78	72	TRB72	38900-7811
84	78	TRB78	38900-8411
90	84	TRB84	38900-9011
96	90	TRB90	38900-9611



SPECIFICATIONS

Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
ARCH Saber (SCM) Blade	SCM-XX	3.06 in ³	35%
Martin Retrofit Blade for Arch Saber (SCM) Primary Cleaner	35885-XX11	4.13 in ³	



Saber is a registered trademark of Arch Environmental Equipment Inc., Paducah, KY.

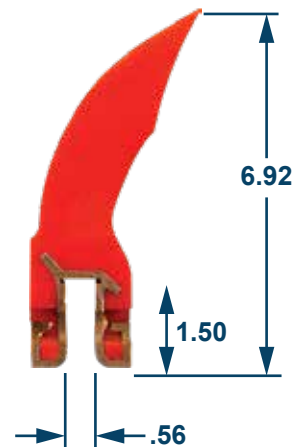
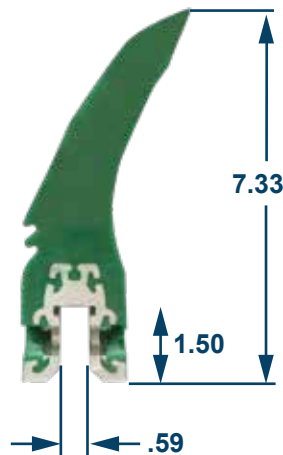
ARGONICS™ ERASER PRIMARY CLEANER

Belt Width in.	Blade Width in.	Argonics™ Raptor™ Blade P/N	Martin Retrofit Blade for Eraser™ Primary Cleaner P/N
18	12	CP-RE-12-G83	35794-12
24	18	CP-RE-18-G83	35794-18
30	24	CP-RE-24-G83	35794-24
36	30	CP-RE-30-G83	35794-30
42	36	CP-RE-36-G83	35794-36
48	42	CP-RE-42-G83	35794-42
54	48	CP-RE-48-G83	35794-48
60	54	CP-RE-54-G83	35794-54
66	60	CP-RE-60-G83	35794-60
72	66	CP-RE-66-G83	35794-66
78	72	CP-RE-72-G83	35794-72
84	78	CP-RE-78-G83	35794-78
90	84	CP-RE-84-G83	35794-84
96	90	CP-RE-90-G83	35794-90



SPECIFICATIONS

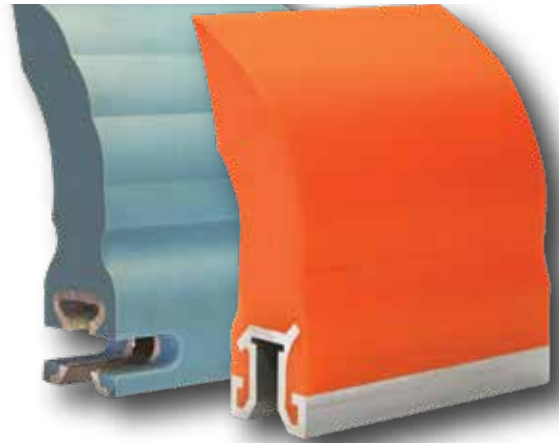
Description	Blade P/N	Volume per inch	Volume Increase
Eraser™ PreCleaner Blade	CP-RE-XX-G83	5.6 in ³	16%
Martin Retrofit Blade for Eraser™ PreCleaner	35794-XX	6.53 in ³	



Argonics™, Eraser™ and Raptor™ are trademarks of Argonics Inc., Marquette, MI.

BENETECH BEP1 PRIMARY CLEANER

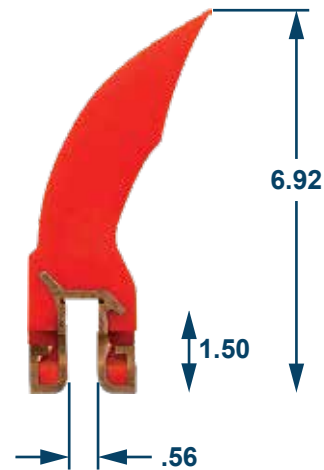
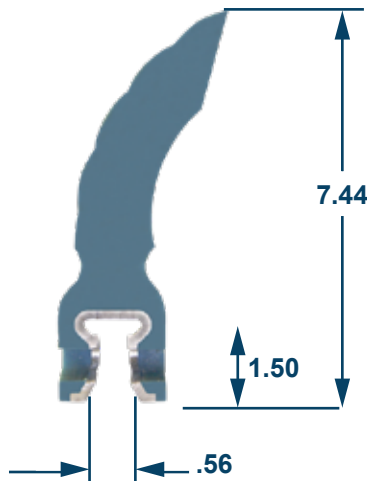
Belt Width in.	Blade Width in.	BENETECH [®] AdvantEdge™ Blade P/N	Martin Retrofit
18	16	BAPR1-018-1U1	39426-181116OR
24	22	BAPR1-024-1U1	39426-241122OR
30	28	BAPR1-030-1U1	39426-301128OR
36	34	BAPR1-036-1U1	39426-361134OR
42	40	BAPR1-042-1U1	39426-421140OR
48	46	BAPR1-048-1U1	39426-481146OR
54	52	BAPR1-054-1U1	39426-541152OR
60	58	BAPR1-060-1U1	39426-601158OR
66	64	BAPR1-066-1U1	39426-661164OR
72	70	BAPR1-072-1U1	39426-721170OR



Part numbers shown are for belt width minus 8 inches.
*Additional blade sizes available upon request.

SPECIFICATIONS

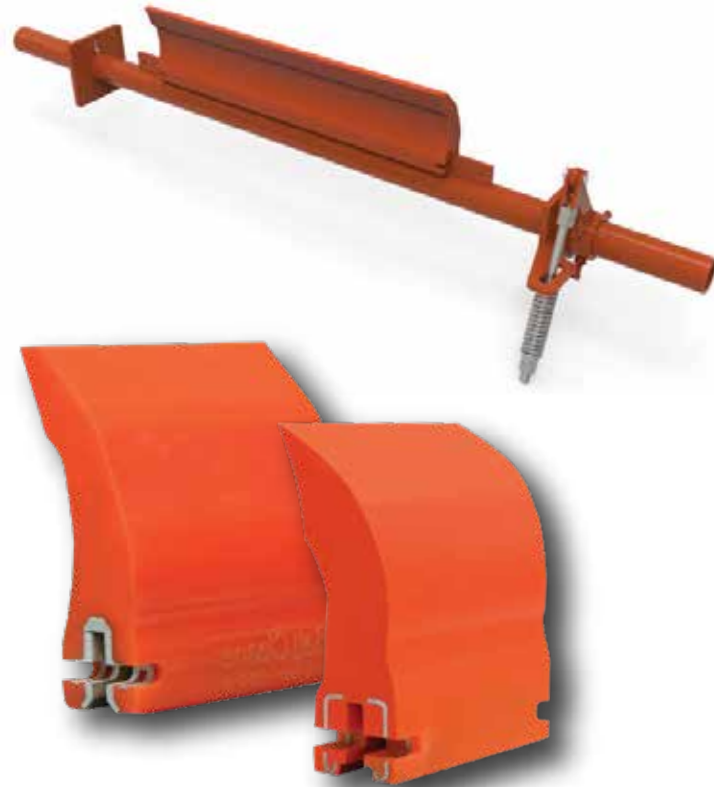
Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
BENETECH AdvantEdge™ Blade	BAPR1-0XX-0XX-1U1	5.6 in ³	16%
Martin Retrofit Blade for BENETECH BEP1 Primary Cleaner	39426-XX11XXOR	6.53 in ³	



BENETECH[®] and AdvantEdge™ are registered trademarks of Benetech Inc., Aurora, IL.

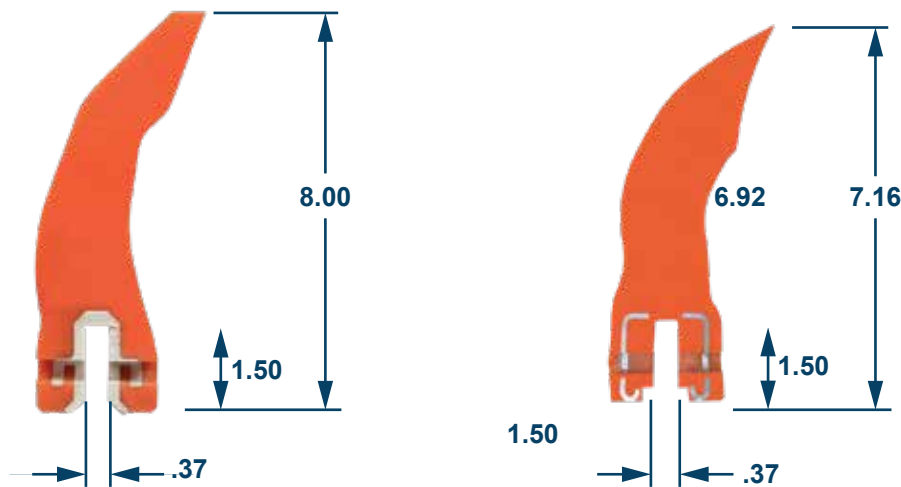
SUPERIOR EXTERRA PRIMARY CLEANER

Belt Width in.	Blade Width in.	Exterra® Blade P/N	Martin Retrofit Blade P/N
18	16	07-00541	39291-ST181116
24	22	07-00542	39291-ST241122
30	28	07-00543	39291-ST301128
36	34	07-00544	39291-ST361134
42	40	07-00545	39291-ST421140
48	46	07-00546	39291-ST481146
54	52	07-00547	39291-ST541152
60	58	07-00548	39291-ST601158
66	64	07-00549	39291-ST661164
72	70	07-00550	39291-ST721170



SPECIFICATIONS

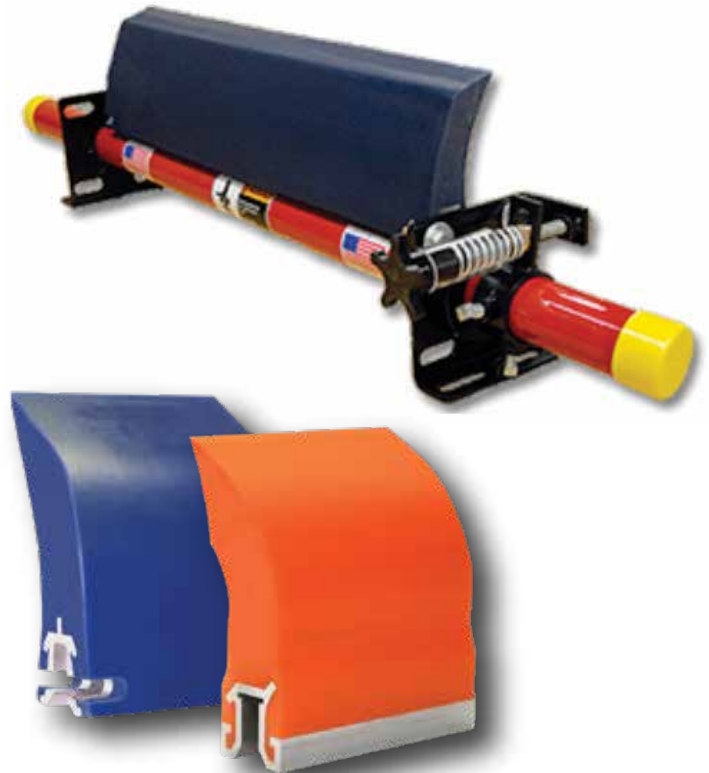
Description	Blade P/N	Usable Blade Volume per inch	Volume Increase
Superior Exterra Blade	07-005XX	5.0 in ³	30%
Martin Retrofit Blade for Superior Exterra Primary Cleaner	39291-STXX11XX	6.53 in ³	



Exterra® is a registered trademark of Superior Industries Inc., Morris, MN.

AMERICAN EAGLE E4 PRIMARY CLEANER

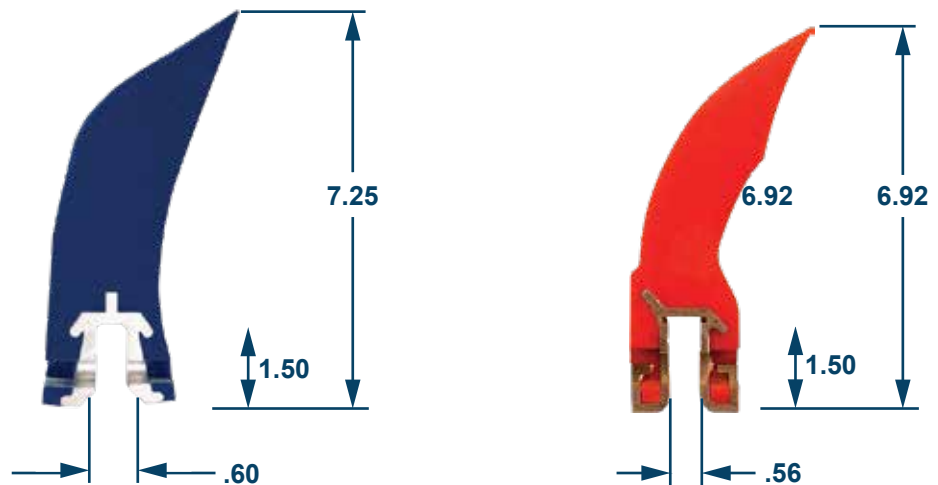
Belt Width in.	Blade Width in.	American Eagle E4 Blade P/N	Martin [®] Retrofit Blade P/N
18	16	E4M16	39425-181116OR
24	22	E4M22	39425-241122OR
30	28	E4M28	39425-301128OR
36	34	E4M34	39425-361134OR
42	40	E4M40	39425-421140OR
48	46	E4M46	39425-481146OR
54	52	E4M52	39425-541152OR
60	58	E4M68	39425-601158OR
72	70	E4M70	39425-721170OR



SPECIFICATIONS

Description	Blade P/N	Usable Blade Volume per inch	Usable Blade Volume Increase
American Eagle E4 Blade	E4MXX	8.1 in ³	24%
Martin Retrofit Blade for Superior Exterra Primary Cleaner	39425-XX11XXOR	6.53 in ³	

Blades without CARP angle produce more surface area against the belt as they wear. This requires continually increasing pressure to maintain cleaning effectiveness and shortens blade wear life.



American Eagle[®] is a registered trademark of American Eagle Manufacturing, LLC., New Bern, NC

AMERICAN EAGLE E5 SER. PRIMARY CLEANER

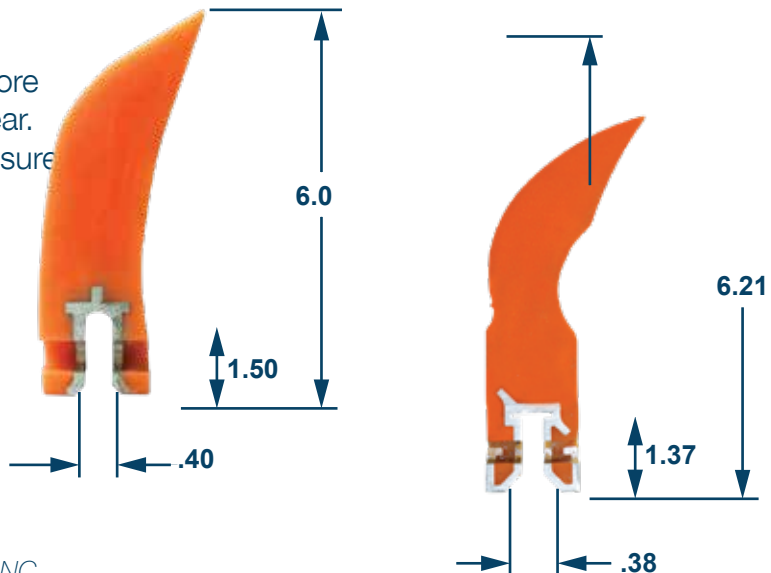
Belt Width in.	Blade Width in.	American Eagle E5 Blade P/N	Martin Retrofit Blade P/N
18	16	E5M16	39427-181116OR
24	22	E5M22	39427-241122OR
30	28	E5M28	39427-301128OR
36	34	E5M34	39427-361134OR
42	40	E5M40	39427-421140OR
48	46	E5M46	39427-481146OR
54	52	E5M52	39427-541152OR
60	58	E5M58	39427-601158OR
72	70	E5M70	39427-721170OR



SPECIFICATIONS

Description	Blade P/N	Usable Blade	Usable Blade Volume Increase
American Eagle E5 Blade	E5MXX	5.3 in ³	28%
Martin Retrofit Blade for American Eagle BEP1 Primary Cleaner	39427-XX11XXOR	4.13 in ³	

Blades without CARP angle produce more surface area against the belt as they wear. This requires continually increasing pressure to maintain cleaning effectiveness and shortens blade wear life.



American Eagle® is a registered trademark of American Eagle Manufacturing, LLC., New Bern, NC

SPECIFYING YOUR MARTIN RETROFIT BLADE

**RETROFIT BLADE
PART NUMBER**

P/N PREFIX

XX

1

1

XX

XX

Belt Width (inches)

Blade Width (inches)

Urethane Color

P/N PREFIX

35794: Argonics™ Eraser™

36471: ASGCO Skalper

38108: Flexco EZP1 Rockline

38900: Flexco MMP

34500: ARCH Saber (SB)

35885: ARCH Saber (SCM)

39291: Superior Exterra

39427: American Eagle E5

39425: American Eagle E4

39426: BENETECH

URETHANE COLOR

Ø or OR: Orange

GR: Green

BR: Brown

CL: Tan

NB: Navy Blue



MARTIN RETROFIT MAINTENANCE TIPS

THE IMPORTANCE OF PROPER TENSION:

Blade-to-belt pressure is key to the performance of the belt cleaner. Proper tension achieves optimal cleaning and efficient blade-wear. Higher tension does not necessarily maximize cleaning. Research has shown there is a sweet spot: the optimum pressure is between 11-14 lbs/in². Higher tension increases friction, shortens blade life, increases belt wear, and increases power consumption, but does not improve cleaning performance. Over-tensioned blades may exhibit accelerated wear, discoloration marks, and belt particles baked on the blade. Low tension causes rapid wear because it forces carryback material to pass between the blade and belt at high velocity. This creates channels of uneven wear on the face of the blade. A jagged edge with wear lines on the wear surface indicates a lack of tension. If a cleaner blade's surface is damaged it can no longer conform to the belt's surface for proper cleaning.



MAINTENANCE SCHEDULE GUIDELINE:

Devoting attention to maintaining the cleaner's performance will be repaid with more efficient cleaning.

DAILY

✓ Remove Accumulated Material from the Cleaner

With the belt stopped, clean off any material that has gathered between the cleaner blades and the belt or that has built up on the arms of secondary cleaners.

WEEKLY

✓ Check Blade Wear

Inspect cleaning elements for wear. Some brands of blade incorporate a visible wear line.

✓ Check Cleaner Performance

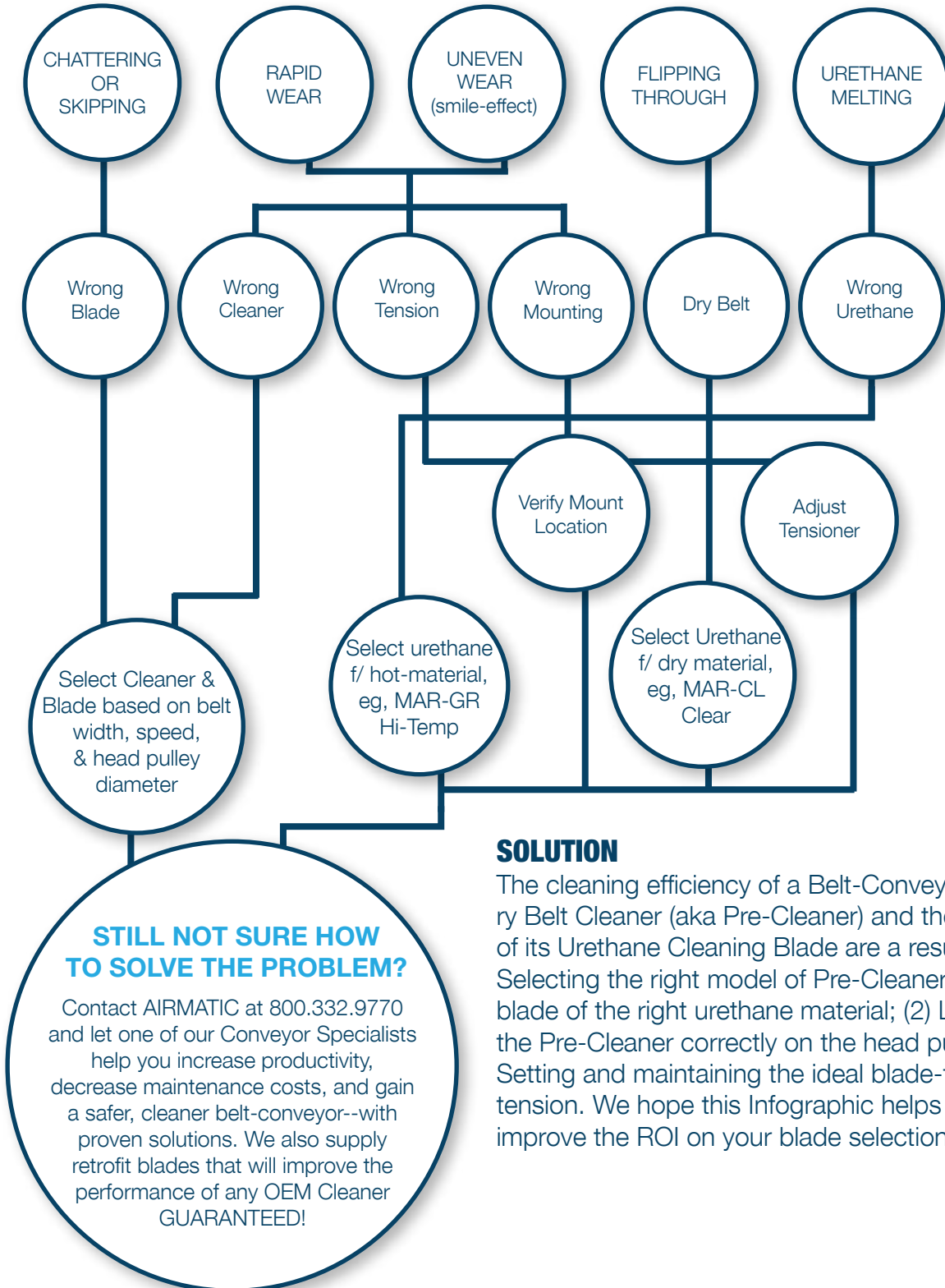
Check the work of the cleaning system. Carryback remaining on the belt could indicate worn out blades or improper tension.

✓ Check Tensioner Adjustment

The most critical element in maintaining cleaner performance is keeping the cleaning edge tensioned against the belt. As blades wear, the tensioner may need to be adjusted to accommodate the blade's shorter length.

This information was taken from a recent Martin Foundations Workshop entitled "The Practical Resource for Cleaner, Safer, More Productive Dust & Material Control." Airmatic hosts workshops throughout the year. Contact customer service to learn more about educational opportunities.

TROUBLESHOOTING GUIDE TO REDUCE BLADE WEAR



SOLUTION

The cleaning efficiency of a Belt-Conveyor's Primary Belt Cleaner (aka Pre-Cleaner) and the wear life of its Urethane Cleaning Blade are a result of: (1) Selecting the right model of Pre-Cleaner with a blade of the right urethane material; (2) Locating the Pre-Cleaner correctly on the head pulley; (3) Setting and maintaining the ideal blade-to-belt tension. We hope this Infographic helps you improve the ROI on your blade selection.



AIRMATIC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications. Our Customers tell us that by choosing **AIRMATIC** to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.

The logo for MARTIN features the word "martin" in a bold, orange, italicized sans-serif font with a registered trademark symbol (®).

MARTIN ENGINEERING is the leading global supplier of system to make the handling of bulk materials cleaner, safer, and more productive. Since its founding in 1944, the company has grown dramatically through the development of solutions to help the solids-handling industries around the world. MARTIN ENGINEERING's success can be attributed to the development of practical, field-proven, cost-effective answers for "real life" problems. MARTIN Products are designed for tough industrial conditions; they are built to allow easy maintenance; they are engineered for simplicity, cleanliness, safety, and efficiency; they are personalized to meet each customer's unique requirements.

AIRMATIC

284 Three Tun Rd. Malvern, PA 19355

215.333.5600

infocenter@airmatic.com

airmatic.com