

MARTIN® SHD Belt Cleaner



Form No. L3439-8/06

TECHNICAL DATA



MARTIN® SHD
Pre-Cleaner with
Spring-Link
Tensioner

Built for the widest, fastest, most heavily-loaded belts in the world, including yours....

Advanced Engineering and Formidable Construction Mean Effective Cleaning, Low Maintenance, and Long Life, Even Under the World's Most Punishing Conditions.

The MARTIN® Super Heavy-Duty Pre-Cleaner (SHD) was developed for effective belt cleaning with minimal maintenance and extended wear life. The MARTIN® SHD Pre-Cleaner has been proven on belts up to 120 in. (3000 mm) wide and speeds up to 1500 fpm (7.5 m/sec), carrying loads up to 300,000 tons per day.

For consistent cleaning and long maintenance intervals, the MARTIN® SHD Pre-Cleaner is right for your conditions.

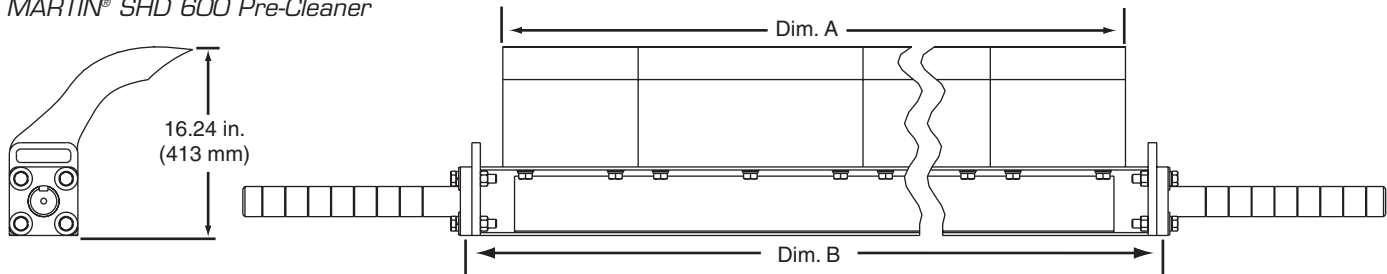
Benefits

- **Massive Blades**
Blades are thick and robust to resist abuse and dissipate heat for extended wear life. MARTIN® SHD 1200 blades provide up to 12 in. (305 mm) of wearable material; MARTIN® SHD 600 blades provide 10.5 in. (207 mm).
- **MARTIN® CARP Constant Angle Blade Design**
Means continuous effective cleaning across all stages of blade life.
- **Structural Steel Beam Construction**
No more bent mainframes, even with high tonnages and large lumps.
- **System Engineering**
Design of cleaner and tensioner as one unit means consistent, effective cleaning with reduced service requirements.
- **Reduced Maintenance**
No need for re-tensioning or cleaner adjustment for the life of the blade, which reduces labor costs and downtime.
- **Urethane Options**
Choose blades from Standard (Orange) or High-Performance (Brown) Urethane. Both materials are MSHA-accepted (IC-95/6) for use in underground mining.
- **Guaranteed Blade Life**
Martin Engineering urethane technology and manufacturing options guarantee service life. The cost of replacement blades will be prorated if guaranteed life is not achieved. To determine the Guaranteed Wear Life for a specific application, see your Martin Engineering representative.

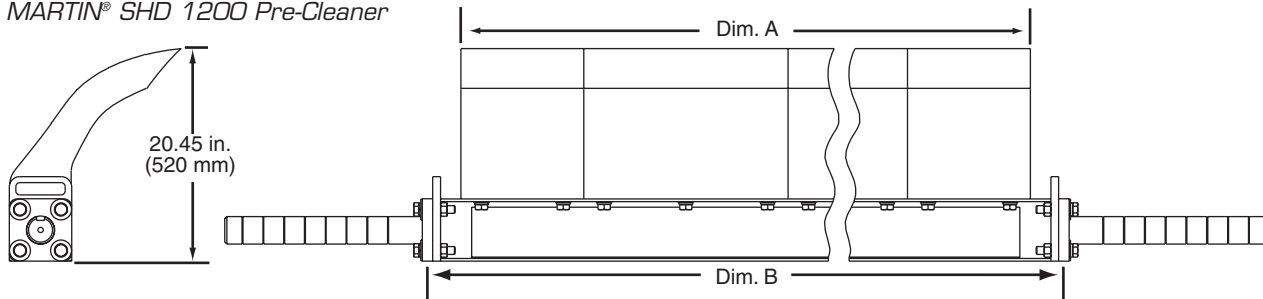
Technical Data

BELT WIDTH <i>in. mm</i>	DIM A <i>in. mm</i>	DIM B <i>in. mm</i>	# BLADES		P/N	SHIPPING WEIGHT			
			12 in. 300 mm <i>wide</i>	20 in. 500 mm <i>wide</i>		SHD 600		SHD 1200	
						<i>lb kg</i>		<i>lb kg</i>	
42 (1000-1200)	39.38 (1000)	44.81 (1138)	0	2	SH1X-42X39XXXXX	268 (122)		289 (131)	
48 (1200-1400)	43.31 (1100)	48.75 (1238)	2	1	SH1X-48X43XXXXX	301 (137)		329 (149)	
54 (1400-1600)	51.19 (1300)	56.63 (1438)	1	2	SH1X-54X51XXXXX	335 (152)		369 (167)	
60 (1600-1800)	59.06 (1500)	64.50 (1638)	0	3	SH1X-60X59XXXXX	370 (168)		409 (186)	
72 (1800-2000)	70.88 (1800)	76.31 (1938)	1	3	SH1X-72X71XXXXX	423 (192)		470 (213)	
84 (2000-2200)	78.75 (2000)	84.19 (2138)	0	4	SH1X-84X79XXXXX	458 (208)		510 (231)	
96 (2200-2400)	82.69 (2100)	88.13 (2238)	2	3	SH1X-96X83XXXXX	476 (216)		531 (241)	
108 (2600-2800)	98.44 (2500)	103.88 (2638)	0	5	SH1X-A8X98XXXXX	546 (247)		611 (277)	
120 (2800-3000)	102.38 (2600)	107.81 (2738)	2	4	SH1X-C0XA2XXXXX	564 (256)		632 (287)	

MARTIN® SHD 600 Pre-Cleaner



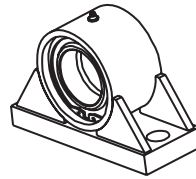
MARTIN® SHD 1200 Pre-Cleaner



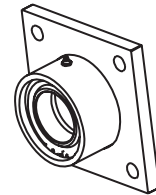
MARTIN® SHD Turnbuckle Tensioner

Belt Widths in. (mm)	SHD 600 Tensioner P/N*	SHD 1200 Tensioner P/N*
42 (1000-1200)	35600-1X	35600-1X
48 (1200-1400)	35600-1X	35600-1X
54 (1400-1600)	35600-1X	35600-1X
60 (1600-1800)	35600-1X	35600-5X
72 (1800-2000)	35600-5X	35600-5X
84 (2000-2200)	35600-5X	35600-6X
96 (2200-2400)	35600-5X	35600-6X
108 (2600-2800)	35600-5X	35600-6X
120 (2800-3000)	35600-5X	35600-6X

* Replace X with B for Pillow Block Mount or F for Flange Mount



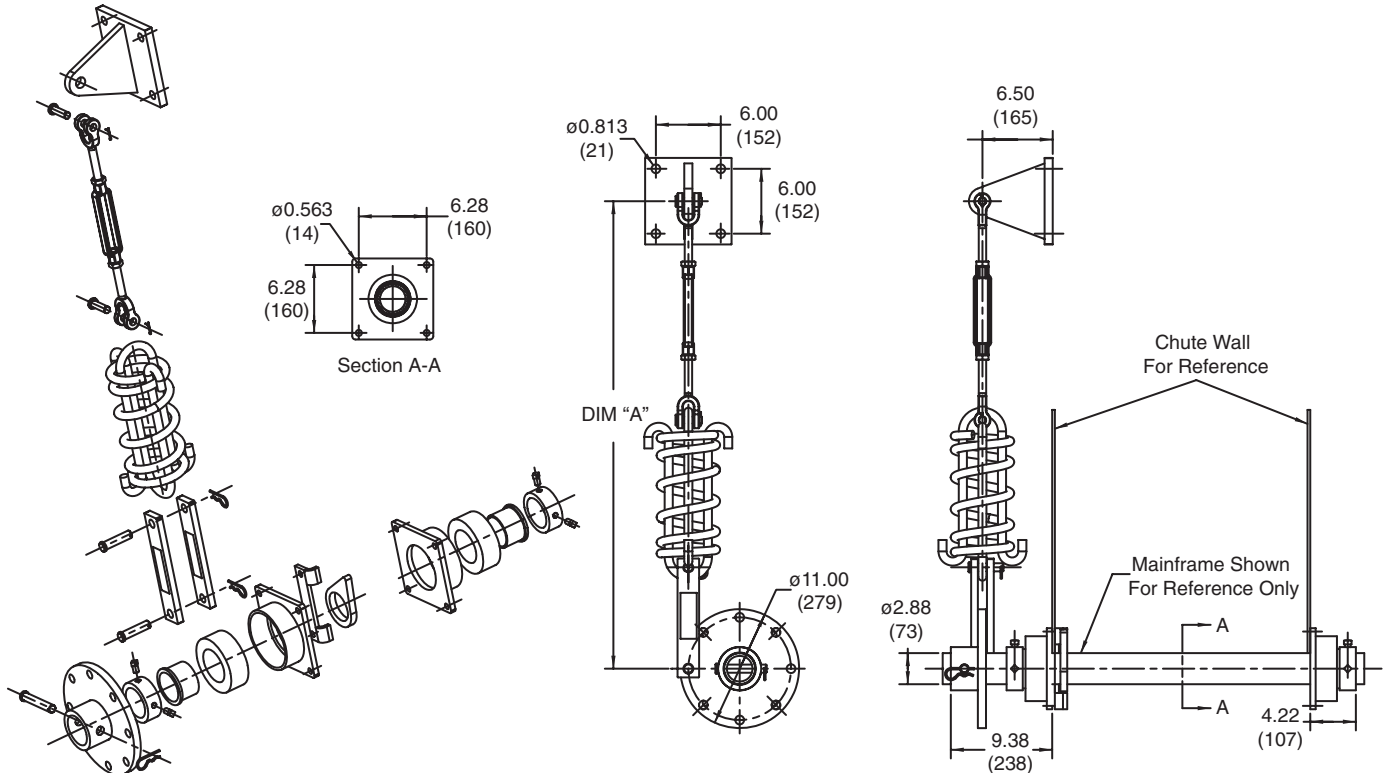
Pillow Block Mount



Flange Mount

MARTIN® SHD Spring-Link Tensioner

P/N	DESCRIPTION	DIM "A" (Mounting Ht.)
35978-S90X	SPRING LINK TENS ASM 90#	41.25 (1048)
35978-S150X	SPRING LINK TENS ASM 150#	42.25 (1073)
35978-S500X	SPRING LINK TENS ASM 500#	45.59 (1158)
35978-S750X	SPRING LINK TENS ASM 750#	47.00 (1194)



Replacement Blades

Blade Width	12 in. (300 mm) P/N	20 in. (500 mm) P/N
SHD 600	35568-12XX	35568-20XX
SHD 1200	35569-12XX	35569-20XX



Application Guidelines

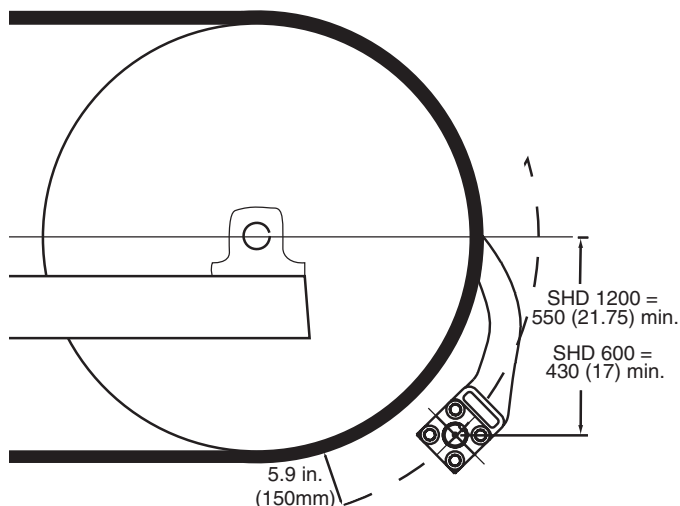
The MARTIN® SHD Belt Cleaner is designed for high-speed, high-tonnage conveyors with large diameter head pulleys. It can be applied on any conveyor with a head pulley larger than 24 in. (600 mm) in diameter with sufficient room in the chute to mount the cleaner.

Blade Height

To achieve constant angle geometry to match pulley diameter, blades are available in two heights. Use 1200 Series MARTIN® SHD Blades for pulleys 48 in. (1200 mm) in diameter and larger. Specify 600 Series MARTIN® SHD Blades for pulleys smaller than 48 in. (1200 mm) in diameter.

Tensioning Systems

The MARTIN® SHD Belt Cleaner is available with Turnbuckle Tensioners to be installed on both sides of the head pulley.



Nomenclature

BLADE PROFILE

1 for SHD-1200
6 for SHD-600

BLADE TYPE

U for Urethane
C for Urethane with Ceramic Beads

URETHANE COLOR

B for Brown
O for Orange
G for Green
Y for Ceramic/Yellow
Ø for No Blades

MAINFRAME OPTIONS

P for Painted Orange
C for Corrosion Resistant

END WELDMENTS

2 for 20"
3 for 30"
4 for 40"
Ø for No End Weldments

TENSIONER

L for painted link tensioner
E for painted link tensioner with link expansion kit
C for corrosion resistant link tensioner
F for corrosion resistant link tensioner with link expansion kit

P/N: **SH1X-XXXXXXXXXX**

P/N Prefix

Belt Width (inches)

Blade Type

Blade Width (inches)

Blade Profile

Urethane Color

Mainframe Options

End Weldment Length (inches)

Tensioner/Accessory Options

QUALITY MANAGEMENT SYSTEM

CERTIFIED BY DNV

== **ISO 9001:2000** ==

Form No. L3439-8/06

© Martin Engineering Company 1998, 2005, 2006

MARTIN® SHD Belt Cleaner is protected
by U.S. Patent No. 6,439,373; 4,917,231; 4,658,949.

MARTIN
ENGINEERING

MARTIN ENGINEERING USA

One Martin Place

Neponset, IL 61345-9766 USA

800-544-2947 or 309-594-2384

FAX: 309-594-2432

www.martin-eng.com