



# MARTIN® SHD

## Belt Cleaner

*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.*

Martin® SHD Pre-Cleaner  
with Spring Link Tensioner



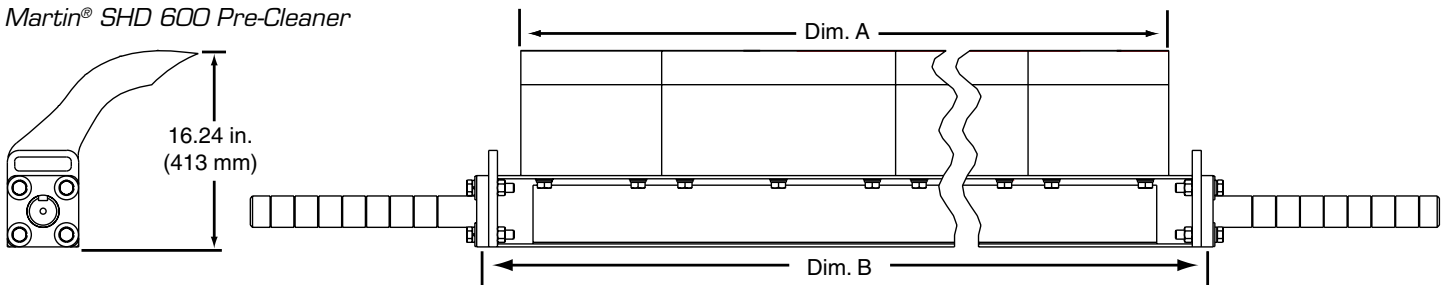
### BENEFITS

- **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.

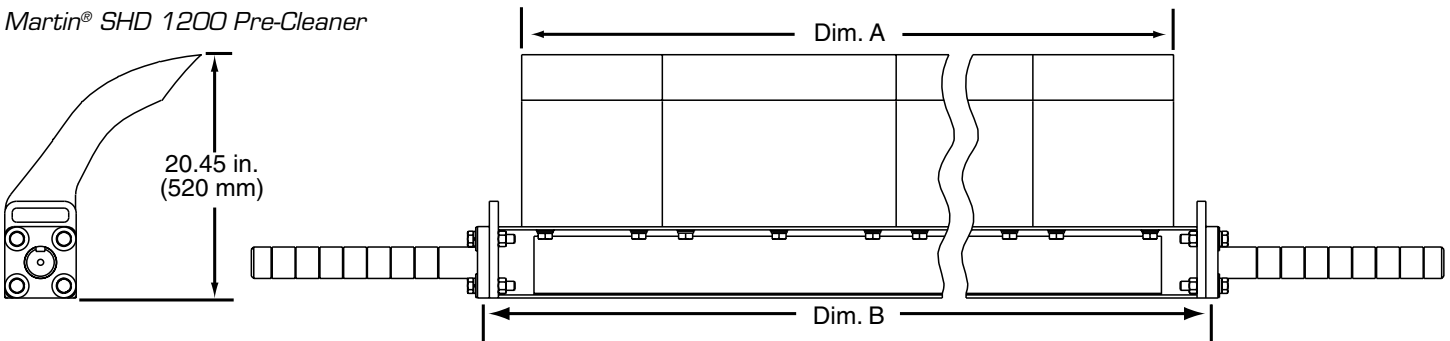
TECHNICAL DATA

Belt Width in. (mm)	Dim A in. (mm)	Dim B in. (mm)	No. of Blades		P/N	Shipping Weight	
			12 in. (300 mm)wide	20 in. (500 mm)wide		SHD 600 lb (kg)	SHD 1200 lb (kg)
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 (1200)	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	6	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



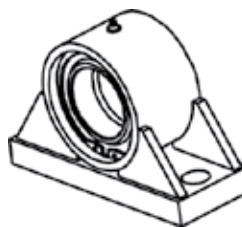
Martin® SHD 1200 Pre-Cleaner



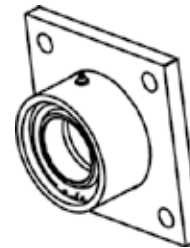
MARTIN® SHD Turnbuckle Tensioner

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	35600-1X	35600-6X
120 2800-3000	35600-1X	35600-6X

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



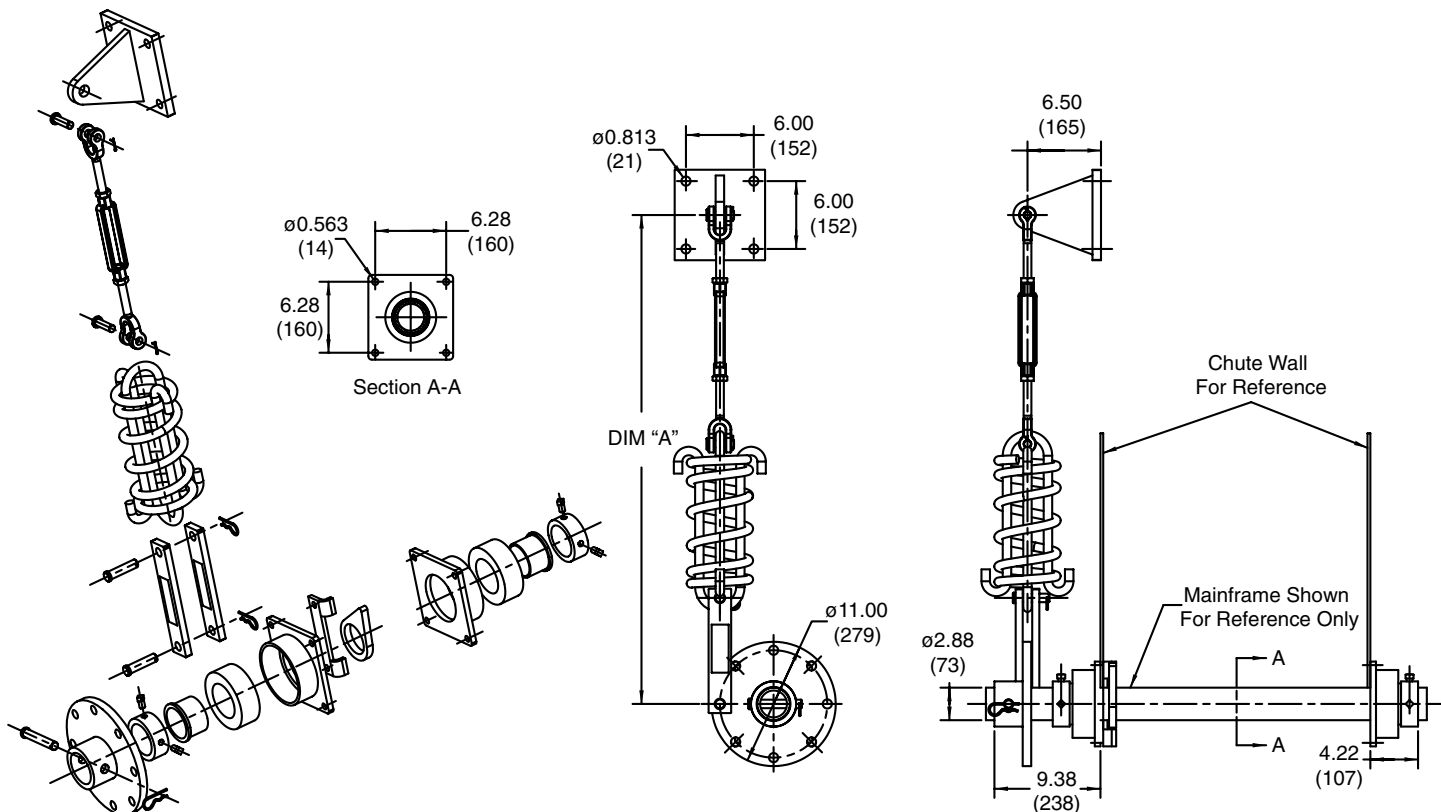
Pillow Block Mount



Flange Mount

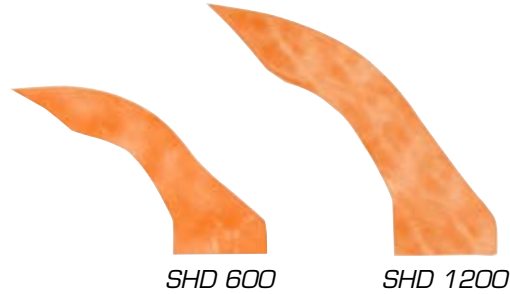
MARTIN® SHD Spring-Link Tensioner

P/N	Description	Dim "A" (Mounting Height) in. (mm)
35978-S90X	Spring Link Tensioner ASM 90#	41.25 (1048)
35978-S150X	Spring Link Tensioner ASM 150#	42.25 (1073)
35978-S500X	Spring Link Tensioner ASM 500#	45.59 (1158)
35978-S750X	Spring Link Tensioner 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**

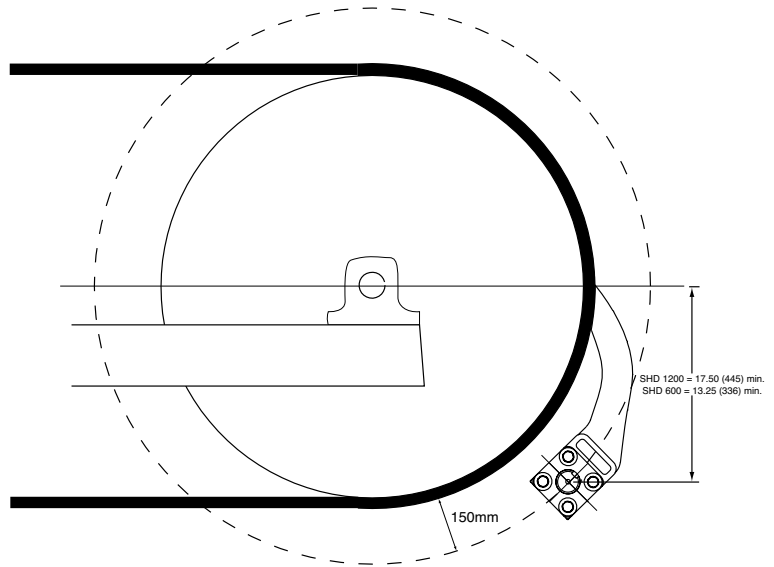
The MARTIN® SHD Belt Cleaner is designed for high-speed, high-tonnage conveyors with large diameter head pulleys. It can be applied on any conveyor with a head pulley larger than 24 in. (600 mm) in diameter with sufficient room in the chute to mount the cleaner.

**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.

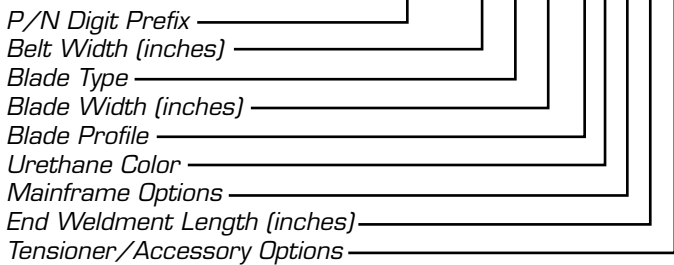
**Tensioning Systems**

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



**NOMENCLATURE**

**SH1X-XXXXXXXXXX**



**BLADE TYPE**

- U:** Urethane
- C:** Urethane w/ Ceramic Beads

**BLADE PROFILE**

- 1:** SHD-1200
- 6:** SHD-600

**URETHANE COLOR**

- B:** Brown
- O:** Orange
- G:** Green
- Y:** Ceramic/Yellow
- Ø:** No Blades

**TENSIONER**

- L:** Painted Link Tensioner
- E:** Painted Link Tensioner with Link Expansion Kit
- C:** Corrosion Resistant Link Tensioner
- F:** Corrosion Resistant Link Tensioner with Link Expansion Kit

**MAINFRAME OPTIONS**

- P:** Painted Orange
- C:** Corrosion Resistant

**END WELDMENTS**

- 2:** 20°
- 3:** 30°
- 4:** 40°
- Ø:** No End Weldments



**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](http://www.martin-eng.com)

U.S. patent 6,439,373 and 4,917,231 corresponding foreign patents and patents pending.  
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Additional information can be obtained at [www.martin-eng.com/trademarks](http://www.martin-eng.com/trademarks).

**QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001**