

# Martin® QC1™ Cleaner XHD STS

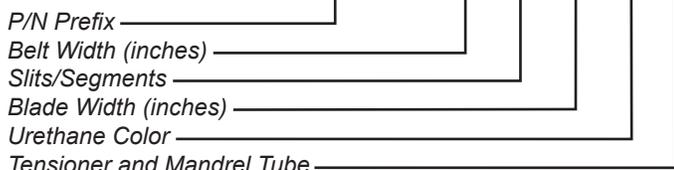


The [Martin® QC1™ Cleaner XHD STS](#) tackles the tough jobs. Designed for rugged conditions, this sturdy cleaner's stainless steel mandrel allows the blade cartridge to be serviced without confined space entry or breaking the safety plane. Changing the blade is a simple one-pin operation, making replacement of a worn blade a safe and simple procedure.

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

## NOMENCLATURE

**ST**SXHD**QC**- **XX** **XX** **XX** **XX** **X**



### SLITS/SEGMENTS

- 11:** no slits or segments
- 10:** segments only
- 01:** slits only
- 00:** slits & segments

### TENSIONER

- T:** Spring Tensioner
- A:** Air Tensioner
- Blank:** No Tensioner or Mandrel Tube

### URETHANE COLOR

- B1:** Black
- BR:** Brown
- CL:** Tan
- GR:** Green
- NB:** Navy Blue
- CY:** Yellow with Beads
- YL:** Yellow
- Blank:** Orange

## 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.*

## BENEFITS

- **Safe To Service**  
The blade can be replaced from outside the chute wall or the conveyor structure without breaking the safety plane.
- **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 STS and Martin® Spring Tensioner XHD STS 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

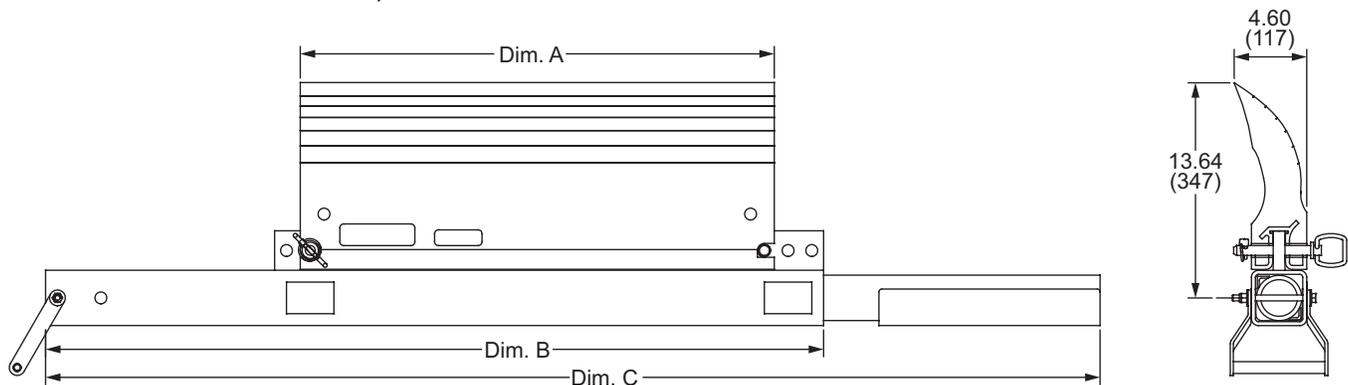
Normal blade length is belt width less 6 in. (150 mm). For belts with a 45° trough or where material is centered on belt, customer should consider a blade that is belt width less 12 in. (300 mm). This is because belt edges may not require cleaning, and blade-to-belt friction in these areas may lead to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

# TECHNICAL DATA SHEET

## SPECIFICATIONS & DIMENSIONS – in. (mm)

| Part Number STSXHDQC-XXXXXXX (belt width less 6 in.)   |                       |                            |                                |                              |  |
|--|-----------------------|----------------------------|--------------------------------|------------------------------|--|
| Part Number  | Belt Width<br>in (mm) | Dim. A<br>Blade<br>in (mm) | Dim. B<br>Mainframe<br>in (mm) | Dim. C<br>Mandrel<br>in (mm) |  |
| STSXHDQC-24XX18  | 24 (610)              | 18 (457)                   | 37.25 (946)                    | 54.75 (1391)                 |  |
| STSXHDQC-30XX24  | 30 (762)              | 24 (610)                   | 43.25 (1099)                   | 60.75 (1543)                 |  |
| STSXHDQC-36XX30  | 36 (915)              | 30 (762)                   | 49.25 (1251)                   | 66.75 (1695)                 |  |
| STSXHDQC-42XX36  | 42 (1067)             | 36 (915)                   | 55.25 (1403)                   | 72.75 (1848)                 |  |
| STSXHDQC-48XX42  | 48 (1219)             | 42 (1067)                  | 61.25 (1556)                   | 78.75 (2000)                 |  |
| STSXHDQC-54XX48  | 54 (1372)             | 48 (1219)                  | 67.25 (1708)                   | 84.75 (2153)                 |  |
| STSXHDQC-60XX54  | 60 (1524)             | 54 (1372)                  | 73.25 (1861)                   | 90.75 (2305)                 |  |
| STSXHDQC-66XX60  | 66 (1676)             | 60 (1524)                  | 79.25 (2013)                   | 96.75 (2457)                 |  |
| STSXHDQC-72XX66  | 72 (1829)             | 66 (1676)                  | 85.25 (2165)                   | 102.75 (2610)                |  |
| Part Number STSXHDQC-XXXXXXXX (belt width less 12 in.) |                       |                            |                                |                              |  |
| STSXHDQC-24XX12  | 24 (610)              | 12 (305)                   | 37.25 (946)                    | 54.75 (1391)                 |  |
| STSXHDQC-30XX18  | 30 (762)              | 18 (457)                   | 43.25 (1099)                   | 60.75 (1543)                 |  |
| STSXHDQC-36XX24  | 36 (915)              | 24 (610)                   | 49.25 (1251)                   | 66.75 (1695)                 |  |
| STSXHDQC-42XX30  | 42 (1067)             | 30 (762)                   | 55.25 (1403)                   | 72.75 (1848)                 |  |
| STSXHDQC-48XX36  | 48 (1219)             | 36 (915)                   | 61.25 (1556)                   | 78.75 (2000)                 |  |
| STSXHDQC-54XX42  | 54 (1372)             | 42 (1067)                  | 67.25 (1708)                   | 84.75 (2153)                 |  |
| STSXHDQC-60XX48  | 60 (1524)             | 48 (1219)                  | 73.25 (1861)                   | 90.75 (2305)                 |  |
| STSXHDQC-66XX54  | 66 (1676)             | 54 (1372)                  | 79.25 (2013)                   | 96.75 (2457)                 |  |
| STSXHDQC-72XX60  | 72 (1829)             | 60 (1524)                  | 85.25 (2165)                   | 102.75 (2610)                |  |

### MARTIN® QC1™ CLEANER XHD STS, P/N STSXHDQC-XXXXXXXX



### REPLACEMENT BLADE

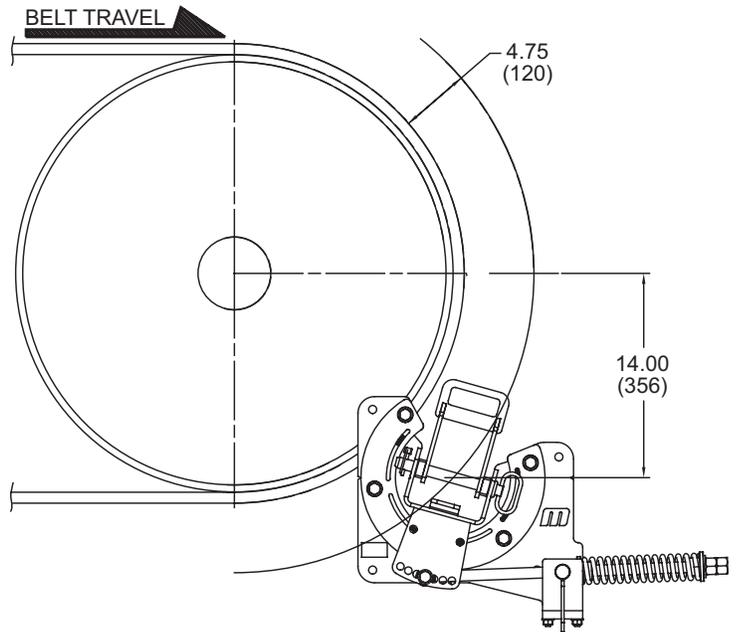
| P/N              | P/N Nomenclature              | Urethane Options |
|------------------|-------------------------------|------------------|
| 35897-XX X XX XX | XX = belt width in inches     | OR = Orange      |
|                  | X = option for slits          | CL = Tan         |
|                  | X = option for segments       | NB = Navy Blue   |
|                  | XX = blade width in inches    | BR = Brown       |
|                  | XX = blade color and material | GR = Green       |
|                  |                               | YL = Yellow      |

# TECHNICAL DATA SHEET

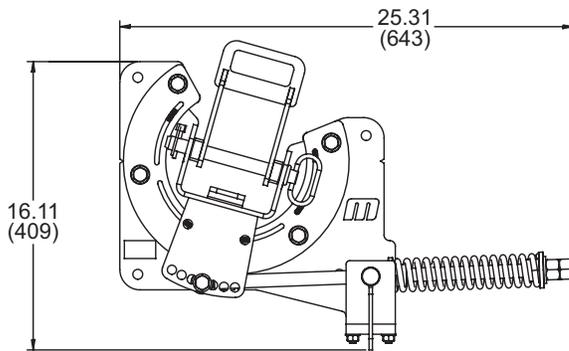
## INSTALLATION AND MOUNTING

### Installation Recommendations:

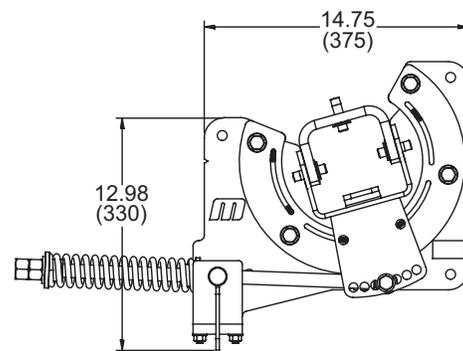
|                      |                                     |
|----------------------|-------------------------------------|
| Head Pulley Diameter | 24 in. – 30 in.<br>(609.6 – 762 mm) |
| Maximum Belt Speed   | 1200 fpm (6 m/s)                    |



### MARTIN® SPRING TENSIONER XHD STS, P/N 39100-XHDSX

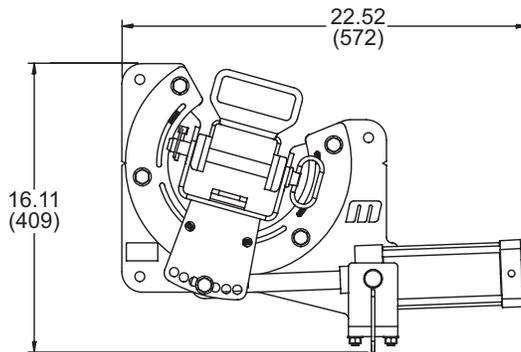


Operator Side

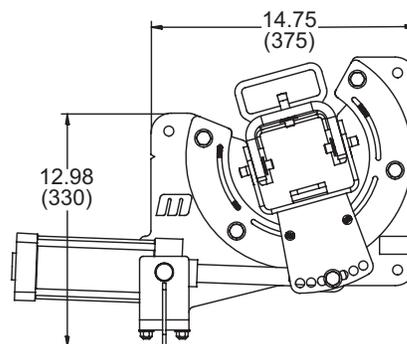


Far Side

### MARTIN® AIR TENSIONER XHD STS, P/N 39100-A



Operator Side



Far Side



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Form No. L3997-09/18  
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