

PART NUMBER (2ND, 3RD, & 4TH X)	BELT WIDTH [IN]
C1CLXRS24XXX	24
C1CLXRS30XXX	30
C1CLXRS36XXX	36
C1CLXRS42XXX	42
C1CLXRS48XXX	48
C1CLXRS54XXX	54

PART NUMBER (2ND, 3RD, & 4TH X)	BELT WIDTH [MM]
C1CLXR075XXX	750
C1CLXR080XXX	800
C1CLXR090XXX	900
C1CLXR100XXX	1000
C1CLXR105XXX	1050
C1CLXR120XXX	1200
C1CLXR135XXX	1350
C1CLXR140XXX	1400

(PART NUMBER FIRST X) TENSIONER/INSTALLATION KIT REQUIREMENTS AND MATERIAL		
PART NUMBER	TENSIONER/TENSIONER SIZE/INSTALLATION KIT MATERIAL	P/N INSTALLATION KIT
C1CLBXXXXXX	NO TENSIONER/BLADE ONLY FOR SINGLE TENSIONER	-----
C1CLIRXXXXX	SINGLE 4.2KN TENSIONER WITH FIXED POINT MNT BRKT STL	C1CT4LT
C1CLSRXXXXX	SINGLE 4.2KN TENSIONER WITH FIXED POINT MNT BRKT SS	C1CT4LS

(PART NUMBER 5TH X) BLADE CARBIDE TYPE	
PART NUMBER	APPLICATION
C1CLRXXXXAX	STANDARD/MODERATE VERSION, SUITABLE FOR ABRASIVE MATERIALS AND LOW/MEDIUM BELT SPEEDS, ALLOWED FOR MECHANICAL SPLICES, HAS CHEMICAL RESISTANCE
C1CLRXXXXBX	SEVERE VERSION, SUITABLE FOR HIGHLY ABRASIVE MATERIALS AND HIGH BELT SPEEDS, ALLOWED FOR MECHANICAL SPLICES
C1CLRXXXXCX	EXTREME VERSION, SUITABLE FOR EXTREMELY ABRASIVE MATERIALS AND HIGHEST BELT SPEEDS, NOT ALLOWED FOR MECHANICAL SPLICES

ITEM	QTY.	DESCRIPTION	PART NUMBER
1	1	MARTIN CLEANSRAPE CLEANER ASSEMBLY	SEE CHARTS

NOTES:

- ALL DIMENSIONS ARE GIVEN IN MILLIMETERS [INCHES].
- ALL DIMENSIONS ARE FOR REFERENCE ONLY.
- IN THE C1C PART NUMBER:
 - THE L INDICATES A LARGE CLEANSRAPE BLADE/SYSTEM ASSEMBLY.
 - THE FIRST X INDICATES THE ASSEMBLY TYPE:
 - B = BLADE ASSEMBLY, NO TENSIONER
 - T = BLADE ASSEMBLY, TENSIONER STANDARD PAINTED STEEL
 - S = BLADE ASSEMBLY, TENSIONER STAINLESS STEEL
 - THE R INDICATES RUBBER BLADE BODY MATERIAL.
 - THE NEXT XXX INDICATES THE BELT WIDTH:
 - SXX = INCH BELT WIDTH
 - XXX = MM BELT WIDTH / 10
 - THE NEXT X INDICATES BLADE CARBIDE TYPE:
 - A = A CARBIDE GRADE
 - B = B CARBIDE GRADE
 - C = C CARBIDE GRADE
 - THE LAST XX INDICATES NUMBER OF ELEMENTS IN THE BLADE.

INSTALLATION NOTES:

- BLADE CARBIDE SCRAPPERS ARE MOLDED INTO THE RUBBER BODY AT AN ANGLE CREATING A SERRATED CLEANING EDGE. CLEANER MUST BE MOUNTED AT AN ANGLE AS SHOWN. THE IDEAL INSTALLATION ANGLE IS BETWEEN 17° AND 19°. ANGLES FROM 15° TO 21° ARE ACCEPTABLE BUT TENSIONER TENSION NEEDS TO BE ADJUSTED AS THE ANGLE CHANGES FROM THE IDEAL ANGLE. CLEANER MUST NOT LIE IN THE MATERIAL PATH.
- BELT WIDTH MUST NOT EXCEED A RATIO OF 3:1 TO THE HEAD PULLEY DIAMETER. HEAD PULLEY RANGE IS 915 [36.00] MIN. TO 1270 [50.00] MAX.
- CHUTE WALLS MUST BE STRONG ENOUGH TO NOT FLEX WHEN THE CLEANER IS TENSIONED. ADDITIONAL CHUTE WALL STRUCTURE MAY BE REQUIRED TO PREVENT CHUTE WALL FROM FLEXING.
- LOCATE AND INSTALL THE FIXED POINT MOUNT BRACKET ON THE INSIDE OF THE FAR SIDE CHUTE WALL. MEASURE THE HEAD PULLEY RADIUS PLUS THE LAGGING, BELT THICKNESS, AND ADD THE 12.7 [50]. THIS IS THE RADIUS ARC THAT THE FIXED POINT BRACKET WILL BE LOCATED ON. LOCATE THE FIXED POINT BRACKET V-NOTCH ON THE VERTICAL CENTERLINE OF THE HEAD PULLEY (AT THE 6:00 O'CLOCK POSITION). THIS POINT MAY BE ADJUSTED (ROTATED) TO ENSURE IT DOES NOT GO PAST THE BELT EXIT POINT ON THE HEAD PULLEY. MARK THE HOLE LOCATIONS FROM THE FIXED POINT BRACKET AND DRILL THE MOUNTING HOLES (IF NOT WELDING IN PLACE). BOLT OR WELD THE FIXED POINT BRACKET TO THE INSIDE OF THE CHUTE WALL.
- ON THE OPERATORS SIDE OF THE CHUTE WALL MARK THE LOCATION OF THE TENSIONER CUTOUTS. LOCATE THE TOP TENSIONER CUTOUT WITH THE BOTTOM OF THE CUTOUT ON THE HORIZONTAL CENTERLINE (AT THE 3:00 O'CLOCK POSITION), AND THE INSIDE OF THE CUTOUT ON THE BELT EDGE. ADJUST THE TENSIONER CUTOUTS AS REQUIRED TO KEEP THE CLEANER BELOW THE PRODUCT DISCHARGE POINT AND AT THE SPECIFIED INSTALLATION ANGLE. THE TOP OF THE CLEANER SHOULD NOT BE ABOVE THE 2:00 O'CLOCK POSITION. SEE THE CUTOUT DETAIL. BOLT OR WELD THE TENSIONER MOUNT BRACKETS TO THE CHUTE WALL POSITIONED OVER THE CUTOUTS. BOLT THE TENSIONERS TO THE TENSIONER MOUNT BRACKETS. LEAVE THE ADJUSTMENT BOLTS LOOSE AT THIS TIME.
- ASSEMBLE THE CHAIN AND THE CHAIN LINKS TO THE TENSIONER END OF THE BLADE. INSTALL THE CLEANER TO THE FIXED POINT BRACKET. LEAVE THE ADJUSTMENT BOLTS LOOSE AT THIS TIME. HOLD THE CLEANER TO THE HEAD PULLEY AND ROUTE THE CHAINS THROUGH THE CHUTE WALL AND HOOK ONTO THE TENSIONERS. MAKE SURE THE TENSIONER ADJUSTMENT NUTS ARE AT THE END OF THE TENSIONER THREADED ROD. TIGHTEN THE TENSIONER ADJUSTMENT NUT UNTIL THE CLEANER IS HELD FIRMLY AGAINST THE HEAD PULLEY. ADJUST THE FIXED POINT BRACKET AND TENSIONER BRACKETS SO THE OUTER TWO ELEMENTS ON EACH SIDE OF THE CLEANER ARE APPROXIMATELY 3.3 [1.31] AWAY FROM THE BELT. INCREASE THE RELIEF AS NECESSARY TO ENSURE MECHANICAL SPLICES WILL PASS. TIGHTEN ALL BOLTS.
- TENSION THE CLEANER PER THE RECOMMENDED TENSION IN THE MANUAL.
- THE LENGTH OF THE CHAIN OR CABLE MUST NOT EXCEED 125 [5.00] ON EITHER SIDE OF THE CLEANER. EXCESS CHAIN OR CABLE COULD RESULT IN VIBRATION THAT COULD DAMAGE THE BELT OR THE CLEANER.

Ø HEAD PULLEY
SEE INSTALLATION
NOTE 2

FIXED POINT
MOUNT BRACKET

TENSIONER ASSEMBLY
TYPICAL BLADE TOP/BOTTOM.
SEE S50137-TD FOR OPTIONAL
TENSIONER DIVERTER ARMS

CHUTE WALL
SEE INSTALLATION
NOTE 3

CHUTE WALL
SEE INSTALLATION
NOTE 3

ROTATE TENSIONERS
AS DESIRED
TO CLEAR
OBSTRUCTIONS
75° MAX

SEE INSTALLATION NOTE 8

BELT WIDTH

SEE INSTALLATION NOTE 1

SEE INSTALLATION NOTE 1

SEE C1CP30000X FOR
BLADE EXTENSION KIT
ALSO SEE INSTALLATION
NOTE 8

CLEANER ASSEMBLY
SHOWN FLEXED AROUND
THE HEAD PULLEY

110.0
[4.33]
TYP

102.0
[4.02]
TYP

DETAIL B
SCALE 1 : 4

NOTE BLADE
ELEMENT
ORIENTATION

DETAIL A
SCALE 3 : 8

60.0
[2.36]
TYP

77.0
[3.03]
TYP

297.9
[11.73]

12.7
[.50]
SEE NOTE 4

60.0
[2.36]

25.0
[.98]

TENSIONER CUTOUT
WITH BOTTOM OF
CUTOUT ON THE
HORIZONTAL
CENTERLINE AND
ON THE BELT EDGE

TENSIONER CUTOUT
TANGENT TO BELT EDGE

DRILL 1/2" HOLES FOR MOUNTING.
LOCATE HOLES BY PLACING THE BRACKET
ON THE CHUTE WALL AND MARKING THE
HOLE LOCATIONS FROM IT. BRACKET MAY
BE WELDED TO THE CHUTE WALL INSTEAD
OF BOLTING. WELD COMPLETELY AROUND
THE BRACKET. SIZE THE WELD PER THE
MINIMUM MATERIAL THICKNESS.

FIXED POINT BRACKET LOCATION
ON FAR SIDE OF CHUTE WALL
(ON INSIDE OF THE CHUTEWALL)
V-NOTCH ON THE VERTICAL
CENTERLINE SEE INSTALLATION NOTE 4

TENSIONER CHUTE CUTOUTS AND FIXED POINT BRACKET LOCATION
SCALE 5:32

LENGTH = 50.0 [1.97] X NUMBER OF ELEMENTS

50.0
[1.97]
TYP
ELEMENT
LENGTH

762 [30.00]
LONG CHAIN
TYP

320.5
[12.62]

BLADE DETAIL
SCALE 1:4

TITLE		DRAWN RND	
CHECKED		DATE	
CLEANSRAPE LARGE CLEANER ASM'S WITH SINGLE 4.2kN TENS		03/09/20	
SALES DRAWING		1.1.11	
NO.		DATE	
DESCRIPTION		BY	
ECN		DATE	
REVISION		DATE	
SOLIDWORKS		PR13491	

SALES DRAWING		S50137-L	
REVISION		SCALE	
16228		5:32	
11/18/22		5:32	
MH		5:32	
DATE		DATE	
DATE		DATE	
DATE		DATE	

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