

PART NUMBER (2ND, 3RD, & 4TH X)	BELT WIDTH [IN]
C1CMXRS18XXX	18
C1CMXRS24XXX	24
C1CMXRS30XXX	30
C1CMXRS36XXX	36
C1CMXRS42XXX	42
C1CMXRS48XXX	48
C1CMXRS54XXX	54

PART NUMBER (2ND, 3RD, & 4TH X)	BELT WIDTH [MM]
C1CMXR040XXX	400
C1CMXR050XXX	500
C1CMXR060XXX	600
C1CMXR750XXX	750
C1CMXR080XXX	800
C1CMXR090XXX	900
C1CMXR100XXX	1000
C1CMXR105XXX	1050
C1CMXR120XXX	1200
C1CMXR135XXX	1350
C1CMXR140XXX	1400
C1CMXR150XXX	1500
C1CMXR160XXX	1600
C1CMXR165XXX	1650
C1CMXR180XXX	1800

NOTES:

1) ALL DIMENSIONS ARE GIVEN IN MILLIMETERS [INCHES].

2) ALL DIMENSIONS ARE FOR REFERENCE ONLY.

3) IN THE C1C PART NUMBER:

THE M INDICATES A MEDIUM 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:

1) 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 18° 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.

2) BELT WIDTH MUST NOT EXCEED A RATIO OF 3:1 TO THE HEAD PULLEY DIAMETER. HEAD PULLEY RANGE IS 559 [22.00] MIN. TO 864 [34.00] MAX.

3) 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.

4) 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 VERTICAL CENTERLINE (AT THE 6:00 O'CLOCK POSITION), AND THE INSIDE OF THE CUTOUT ON THE BELT EDGE. THIS POINT MAY BE ROTATED UP TO RAISE THE CLEANER AS LONG AS THE TOP OF THE CLEANER IS OUT OF THE MATERIAL FLOW. THIS POINT MAY BE ADJUSTED (ROTATED) TO ENSURE IT DOES NOT GO PAST THE BELT EXIT POINT ON THE HEAD PULLEY. SEE THE CUTOUT DETAIL.

5) 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 HORIZONTAL CENTERLINE (AT THE 3:00 O'CLOCK POSITION). ADJUST THE FIXED POINT BRACKET AS REQUIRED TO KEEP THE TOP OF 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. MARK THE FIXED POINT BRACKET 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. BOLT OR WELD THE TENSIONER MOUNT BRACKETS TO THE OUTSIDE OF THE OPERATORS SIDE CHUTE WALL POSITIONED OVER THE CUTOUTS. BOLT THE TENSIONERS TO THE TENSIONER MOUNT BRACKETS. LEAVE THE ADJUSTMENT BOLTS LOOSE AT THIS TIME.

6) 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 [.13] AWAY FROM THE BELT. INCREASE THE RELIEF AS NECESSARY TO ENSURE MECHANICAL SPLICES WILL PASS. TIGHTEN ALL BOLTS.

7) TENSION THE CLEANER PER THE RECOMMENDED TENSION IN THE MANUAL.

8) 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.

(PART NUMBER FIRST X) TENSIONER/INSTALLATION KIT REQUIREMENTS AND MATERIAL

PART NUMBER	TENSIONER/TENSIONER SIZE/INSTALLATION KIT MATERIAL	P/N INSTALLATION KIT
C1CMBRXXXXXX	NO TENSIONER/BLADE ONLY FOR SINGLE TENSIONER	-----
C1CMTXXXXXX	SINGLE 4.2KN TENSIONER WITH FIXED POINT MNT BRKT STL	C1CT4MT
C1CMSXXXXXX	SINGLE 4.2KN TENSIONER WITH FIXED POINT MNT BRKT SS	C1CT4MS

(PART NUMBER 5TH X) BLADE CARBIDE TYPE

PART NUMBER	APPLICATION
C1CMRXXXXXX	STANDARD/MODERATE VERSION, SUITABLE FOR ABRASIVE MATERIALS AND LOW/MEDIUM BELT SPEEDS, ALLOWED FOR MECHANICAL SPLICES, HAS CHEMICAL RESISTANCE
C1CMRXXXXBX	SEVERE VERSION, SUITABLE FOR HIGHLY ABRASIVE MATERIALS AND HIGH BELT SPEEDS, ALLOWED FOR MECHANICAL SPLICES
C1CMRXXXXCX	EXTREME VERSION, SUITABLE FOR EXTREMELY ABRASIVE MATERIALS AND HIGHEST BELT SPEEDS, NOT ALLOWED FOR MECHANICAL SPLICES

CHUTE WALL
SEE INSTALLATION
NOTE 3

BELT WIDTH

SEE C1CP30000X FOR
BLADE EXTENSION KIT
ALSO SEE INSTALLATION
NOTE 8

SEE INSTALLATION NOTE 1

SEE INSTALLATION NOTE 1

SEE INSTALLATION NOTE 8

CLEANER ASSEMBLY
SHOWN FLEXED AROUND
THE HEAD PULLEY

523.0
[20.59]

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

ROTATE TENSIONERS
AS DESIRED TO
CLEAR OBSTRUCTIONS
75° MAX

CLEANER ASSEMBLY WITH THE TENSIONER
AT THE BOTTOM IS NOT THE PREFERRED
INSTALLATION POSITION. USE ONLY WHEN
NO OTHER OPTIONS ARE AVAILABLE.

102.0
[4.02]
TYP

110.0
[4.33]
TYP

NOTE BLADE
ELEMENT
ORIENTATION

DETAIL B
SCALE 3 : 8

DETAIL A
SCALE 3 : 8

CHUTE WALL
SEE INSTALLATION
NOTE 3

FIXED POINT
MOUNT BRACKET

Ø HEAD PULLEY
SEE INSTALLATION
NOTE 3

25.0
[.98]

60.0
[2.36]

12.7
[.50]
SEE NOTE 5

181.6
[7.15]

77.0
[3.03]
TYP

60.0
[2.36]
TYP

TENSIONER CUTOUT
TANGENT TO BELT EDGE

FIXED POINT BRACKET LOCATION
ON NEAR SIDE OF CHUTE WALL
(ON INSIDE OF THE CHUTEWALL)
V-NOTCH ON THE HORIZONTAL
CENTERLINE. SEE INSTALLATION NOTE 5

TENSIONER CUTOUT
WITH BOTTOM OF
CUTOUT ON THE
VERTICAL CENTERLINE
AND ON THE 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.

TENSIONER CHUTE CUTOUTS AND FIXED POINT BRACKET LOCATION
SCALE 3:16

LENGTH = 50.0 [1.97] X NUMBER OF ELEMENTS

50.0
[1.97]
TYP
ELEMENT
LENGTH

762 [30.00]
LONG CHAIN
TYP

214.3
[8.44]

BLADE DETAIL
SCALE 5:16

MARTIN ENGINEERING—USA
NEPONSET, IL USA

TITLE
CLEANSRAPE
MEDIUM CLEANER ASM'S
WITH SINGLE 4.2kN TENS
AT LOWER END OF BLD

SALES DRAWING

REVISION

PR13941

S50137-MLT

SCALE 3:16