



Martin® QC1+™ Cleaner HD



Operating Instructions Part 2

Version: 0
Language: ENG
M4124E IN QC1+HD

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NOTE

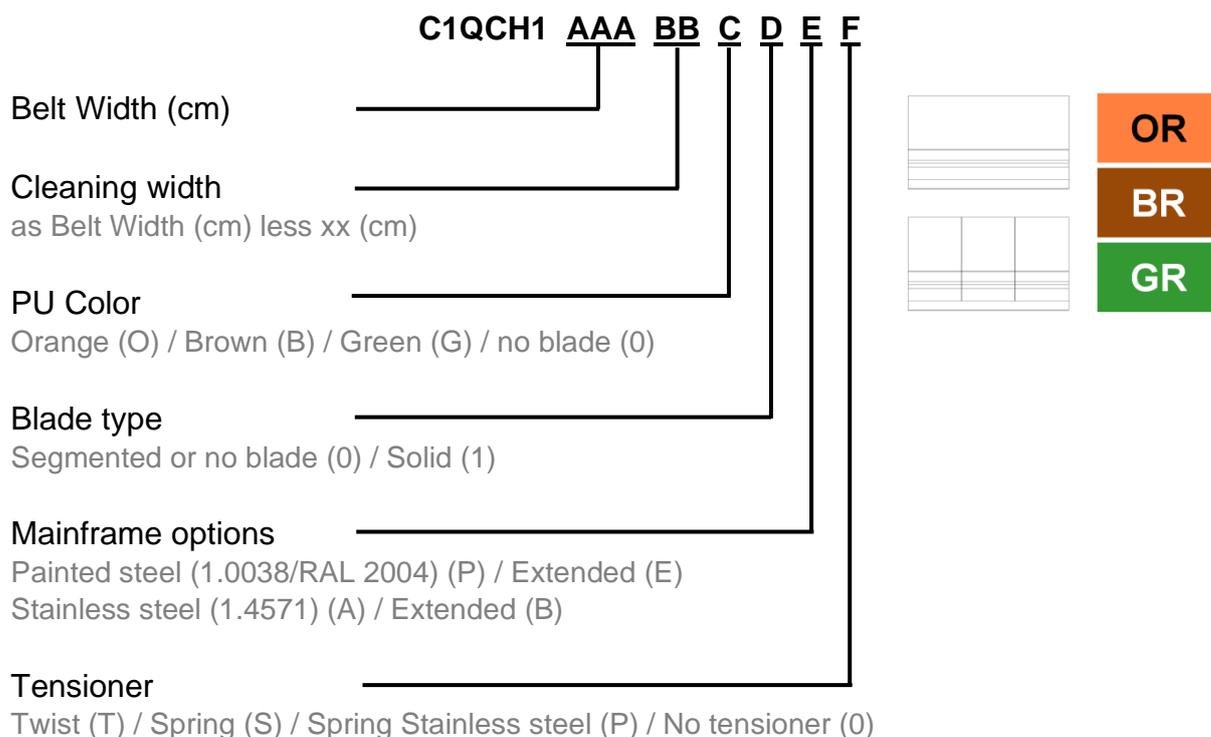
Before starting work on the cleaner or the conveyor, part 1 and 2 of these operating instructions must be read and understood completely

These operating instructions apply solely for cleaners and are intended for those persons who install cleaners, commission them, and monitor their usage.

The operating instructions must be kept for the lifetime of the cleaners and must be made available in an orderly condition to all persons entrusted with work with and on the cleaners.

Part 1 of the operating instructions, which is provided separately, is an integral part of these operating instructions.

1.1 Part number



1.2 Technical Data

The cleaner is suitable for the following operating parameters:

	Operating parameter
Belt widths:	500 – 2.400 mm
Pulley diameter:	300 - 600 mm
Belt speed:	Max. 4,6 m/s
Temperature range:	-40 - 150 °C depending on PU type
Reversing operation:	Possible but has no cleaning effect

1.3 Locally valid product variants

Herein shown are generally valid product variants. The products may show minor design deviations depending on the location of delivery.

When identifying part numbers for individual components and spare parts, always use the locally valid product information and drawings.

If in doubt, please contact your local Martin Engineering representative.

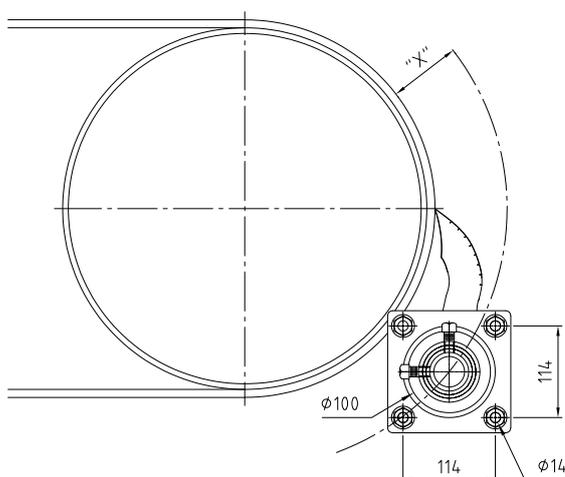
2 Installation



NOTE

For a general description of cleaner installation, refer to part 1 of these operating instructions.

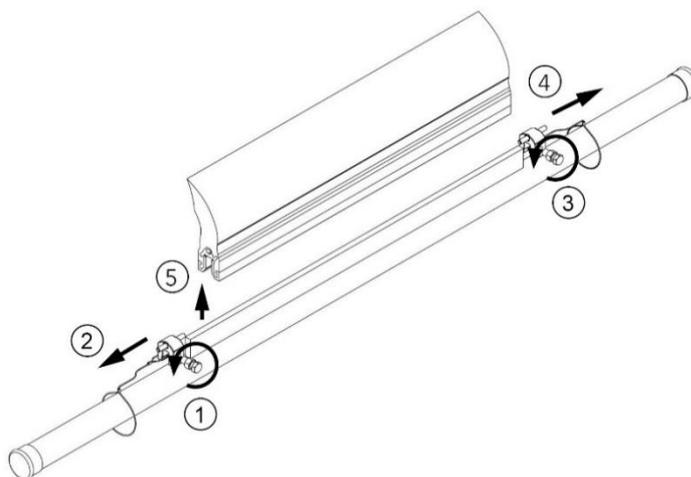
2.1 Determining the installation position



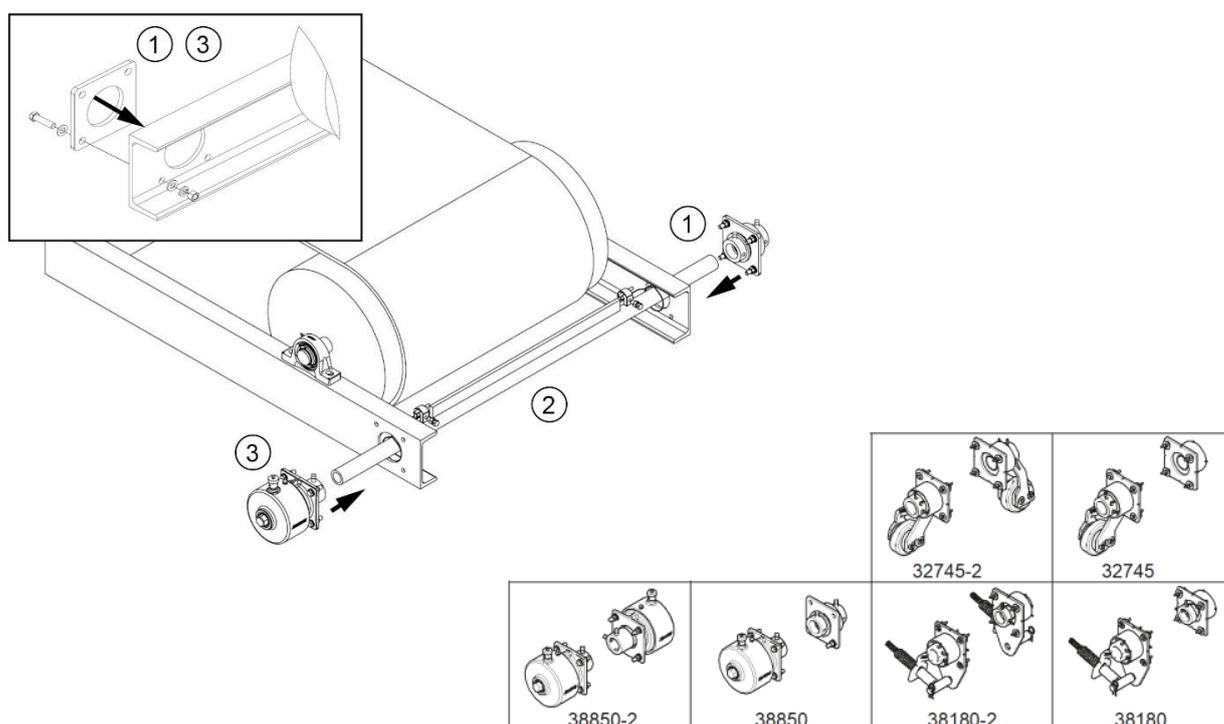
Pulley diameter* in mm	X in mm
300-375	114
376-475	102
476-600	89

*(Including pulley lining and conveyor belt)

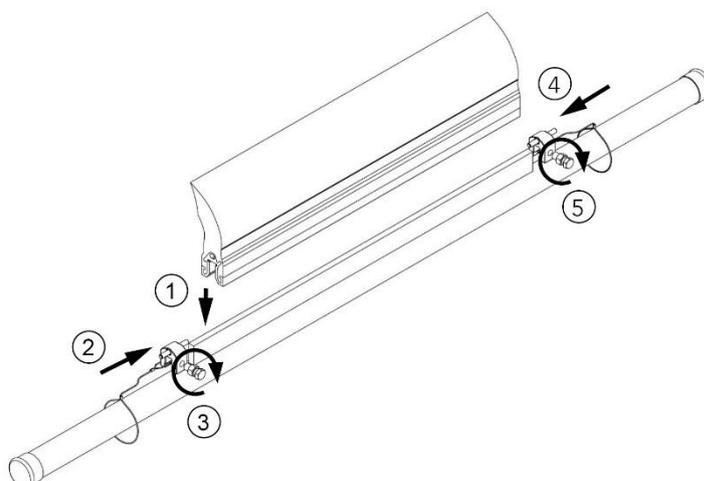
2.2 Preparing the cleaner



2.3 Installing the tensioner



2.4 Installing the cleaner

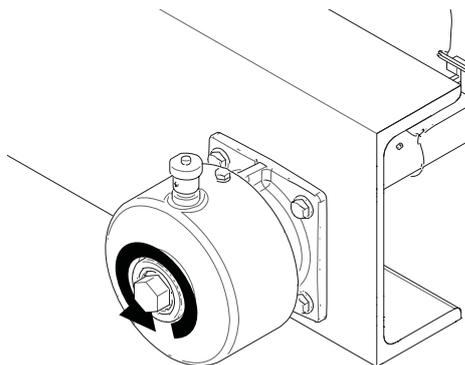


Note: The width of the blade should be adjusted to the width of the material on the belt. The QC1+ blades can be shortened to any width by cutting them off.

2.5 Tension values of twist tensioner 38850-...

Belt width mm	Number of notches (clicks)
500	2
650	3
800	3
1.000	4
1.200	5
1.400	6
1.600	3*
1.800	4*
2.000	5*
2.200	5*
2.400	6*

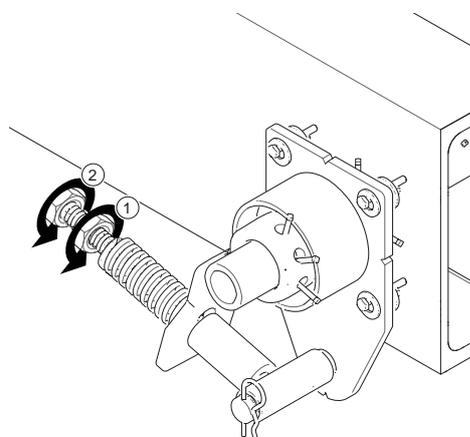
*Per tensioner; Dual tensioners are needed



2.6 Tension values of spring tensioner 38180-...

Belt width mm	Compression spring length in mm
500	92
650	90
800	86
1.000	83
1.200	79
1.400	76
1.600	86*
1.800	86*
2.000	83*
2.200	79*
2.400	76*

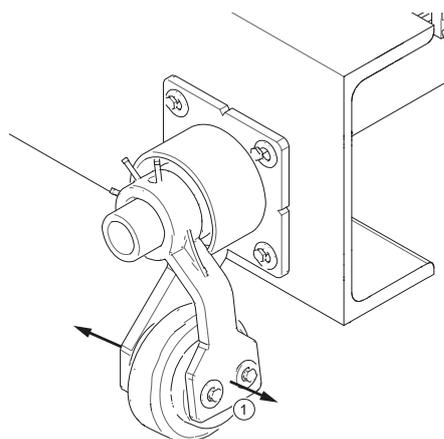
*Per tensioner; Dual tensioners are needed



2.7 Tension values of air tensioner 32745-...

Belt width mm	Compressed air pressure in bar
500	0,4
650	0,6
800	0,8
1.000	1,0
1.200	1,2
1.400	1,4
1.600	0,8*
1.800	0,9*
2.000	1,1*
2.200	1,2*
2.400	1,4*

*Per tensioner; Dual tensioners are needed



2.8 Placing labels

2.8.1 Safety label

The safety label below must be attached to the conveyor system in the immediate vicinity of the cleaner:



2.8.2 Other labels

The labels below are attached to the product:

1. Sticker showing the address of the Martin Engineering branch and the designation of the product
2. A sticker containing the tension values for the respective tensioner

3 Scope of delivery and spare parts

3.1 Pre-cleaner

Part number	Belt width	DIM "A"	DIM "B"	DIM "C"	DIM "D"	Part number item 1	Part number item 2
mm	mm	mm	mm	mm	mm		
C1QCH10500000X	500	300	1700	500	-	C1QCH1M05010X	C1QCHB050200X
C1QCH10501000X	500	400	1300	1700	-	C1QCH1M05010X	C1QCHB050100X
C1QCH10502000X	500	400	1400	1800	-	C1QCH1M05010X	C1QCHB050200X
C1QCH10503000X	500	400	1500	1800	-	C1QCH1M05010X	C1QCHB050300X
C1QCH10504000X	500	450	1450	1850	-	C1QCH1M05010X	C1QCHB050400X
C1QCH10505000X	500	550	1450	1850	-	C1QCH1M05010X	C1QCHB050500X
C1QCH10750000X	750	550	1550	1850	-	C1QCH1M07510X	C1QCHB075000X
C1QCH10751000X	750	650	1550	1850	-	C1QCH1M07510X	C1QCHB075100X
C1QCH10800000X	800	600	1600	2000	-	C1QCH1M08010X	C1QCHB080000X
C1QCH10801000X	800	700	1600	2000	-	C1QCH1M08010X	C1QCHB080100X
C1QCH10802000X	800	600	1700	2100	-	C1QCH1M08010X	C1QCHB080200X
C1QCH10803000X	800	700	1700	2100	-	C1QCH1M08010X	C1QCHB080300X
C1QCH10804000X	800	700	1800	2200	-	C1QCH1M08010X	C1QCHB080400X
C1QCH11020000X	1000	800	1800	2200	-	C1QCH1M10200X	C1QCHB102000X
C1QCH11050000X	1050	750	1850	2250	-	C1QCH1M10500X	C1QCHB105000X
C1QCH11050100X	1050	850	1850	2250	-	C1QCH1M10500X	C1QCHB105010X
C1QCH11204000X	1200	800	2000	2400	-	C1QCH1M12020X	C1QCHB120400X
C1QCH11202000X	1200	1000	2000	2400	-	C1QCH1M12020X	C1QCHB120200X
C1QCH11354000X	1350	950	2150	2550	-	C1QCH1M1350X	C1QCHB135400X
C1QCH11350000X	1350	1150	2150	2550	-	C1QCH1M1350X	C1QCHB135000X
C1QCH11400000X	1400	1000	2200	2600	-	C1QCH1M14000X	C1QCHB140000X
C1QCH11505000X	1500	1200	2300	2700	-	C1QCH1M15020X	C1QCHB150500X
C1QCH11502000X	1500	1300	2300	2700	-	C1QCH1M15020X	C1QCHB150200X
C1QCH11605000X	1600	1100	2400	2800	-	C1QCH1M16020X	C1QCHB160500X
C1QCH11602000X	1600	1400	2400	2800	-	C1QCH1M16020X	C1QCHB160200X
C1QCH11850000X	1850	1150	2450	2850	-	C1QCH1M1850X	C1QCHB185000X
C1QCH11852000X	1850	1450	2450	2850	-	C1QCH1M1850X	C1QCHB185200X
C1QCH11800000X	1800	1500	2500	2900	-	C1QCH1M1800X	C1QCHB180000X
C1QCH12006000X	2000	1400	2600	3200	-	C1QCH1M20020X	C1QCHB200600X
C1QCH12020000X	2000	1800	2600	3200	-	C1QCH1M20020X	C1QCHB200200X
C1QCH12106000X	2100	1500	2600	3300	-	C1QCH1M21020X	C1QCHB210600X
C1QCH12102000X	2100	1900	2600	3300	-	C1QCH1M21020X	C1QCHB210200X
C1QCH12206000X	2200	1600	3000	3400	-	C1QCH1M22020X	C1QCHB220600X
C1QCH12202000X	2200	2000	3000	3400	-	C1QCH1M22020X	C1QCHB220200X
C1QCH12406000X	2400	1800	3200	3600	-	C1QCH1M24020X	C1QCHB240600X
C1QCH12402000X	2400	2200	3200	3600	-	C1QCH1M24020X	C1QCHB240200X

Item / Pos	Qty / Auz	Description / Beschreibung	PN / Teil-Nr
1	1	QC1+ HD Mainframe	s. C.
2	1	QC1+ HD Blade	s. C.
3	2	QC1+ HD Blade Clamp	C1QCA100200H
4	1	Tensioner Assembly	s. C.

Part number item	Part number item	Part number item	Part number item
Tens. Tensioner	Spring	Tens. Tensioner	Steel
38180	38180	38180	38180.SS
38650-2	38650-2	38180-2	38180-2.SS

a	C1QCH1aabbodef
b	Belt width in cm
c	Belt width less cleaning width in cm
d	Blade type
e	Mainframe options
f	Tensioner

Revision	Date	By	Check

Title	EMEA - Version
QC1+ HD Assembly J4+ Mainframe	C1QCH10000000X

3.2 Blades

Part number	Belt width		DIM "A"		DIM "B"		150mm Segments Qty.
	mm	mm	mm	mm	mm	mm	
C1QCHB05020XX	500	300	150	150	150	150	—
C1QCHB05010XX	500	400	125	125	125	125	1
C1QCHB06020XX	600	400	175	175	175	175	1
C1QCHB06010XX	600	500	125	125	125	125	1
C1QCHB06520XX	650	450	150	150	150	150	1
C1QCHB06510XX	650	550	125	125	125	125	2
C1QCHB07520XX	750	550	125	125	125	125	2
C1QCHB07510XX	750	650	175	175	175	175	2
C1QCHB08020XX	800	600	150	150	150	150	2
C1QCHB08010XX	800	700	125	125	125	125	3
C1QCHB09030XX	900	600	150	150	150	150	2
C1QCHB09020XX	900	700	125	125	125	125	3
C1QCHB10030XX	1000	700	125	125	125	125	3
C1QCHB10020XX	1000	800	175	175	175	175	3
C1QCHB10530XX	1050	750	150	150	150	150	3
C1QCHB10520XX	1050	850	125	125	125	125	4
C1QCHB12040XX	1200	800	175	175	175	175	3
C1QCHB12020XX	1200	1000	125	125	125	125	5
C1QCHB13540XX	1350	950	175	175	175	175	4
C1QCHB13520XX	1350	1150	125	125	125	125	6
C1QCHB14040XX	1400	1000	125	125	125	125	5
C1QCHB14020XX	1400	1200	150	150	150	150	6
C1QCHB15050XX	1500	1000	125	125	125	125	5
C1QCHB15020XX	1500	1300	125	125	125	125	7
C1QCHB16050XX	1600	1100	175	175	175	175	5
C1QCHB16020XX	1600	1400	175	175	175	175	7
C1QCHB16550XX	1650	1150	125	125	125	125	6
C1QCHB16520XX	1650	1450	125	125	125	125	8
C1QCHB18050XX	1800	1300	125	125	125	125	7
C1QCHB18020XX	1800	1600	125	125	125	125	9
C1QCHB20060XX	2000	1400	175	175	175	175	7
C1QCHB20020XX	2000	1800	150	150	150	150	10
C1QCHB21060XX	2100	1500	150	150	150	150	8
C1QCHB21020XX	2100	1900	125	125	125	125	11
C1QCHB22060XX	2200	1600	125	125	125	125	9
C1QCHB22020XX	2200	2000	175	175	175	175	11
C1QCHB24060XX	2400	1800	150	150	150	150	10
C1QCHB24020XX	2400	2200	125	125	125	125	13

C1QCHBaaabbd	
a	Belt width in cm
b	Belt width less Cleaning width in cm
c	Blade color
O:	Orange
B:	Brown
G:	Green
d	Blade type
O:	Segmented
I:	Solid

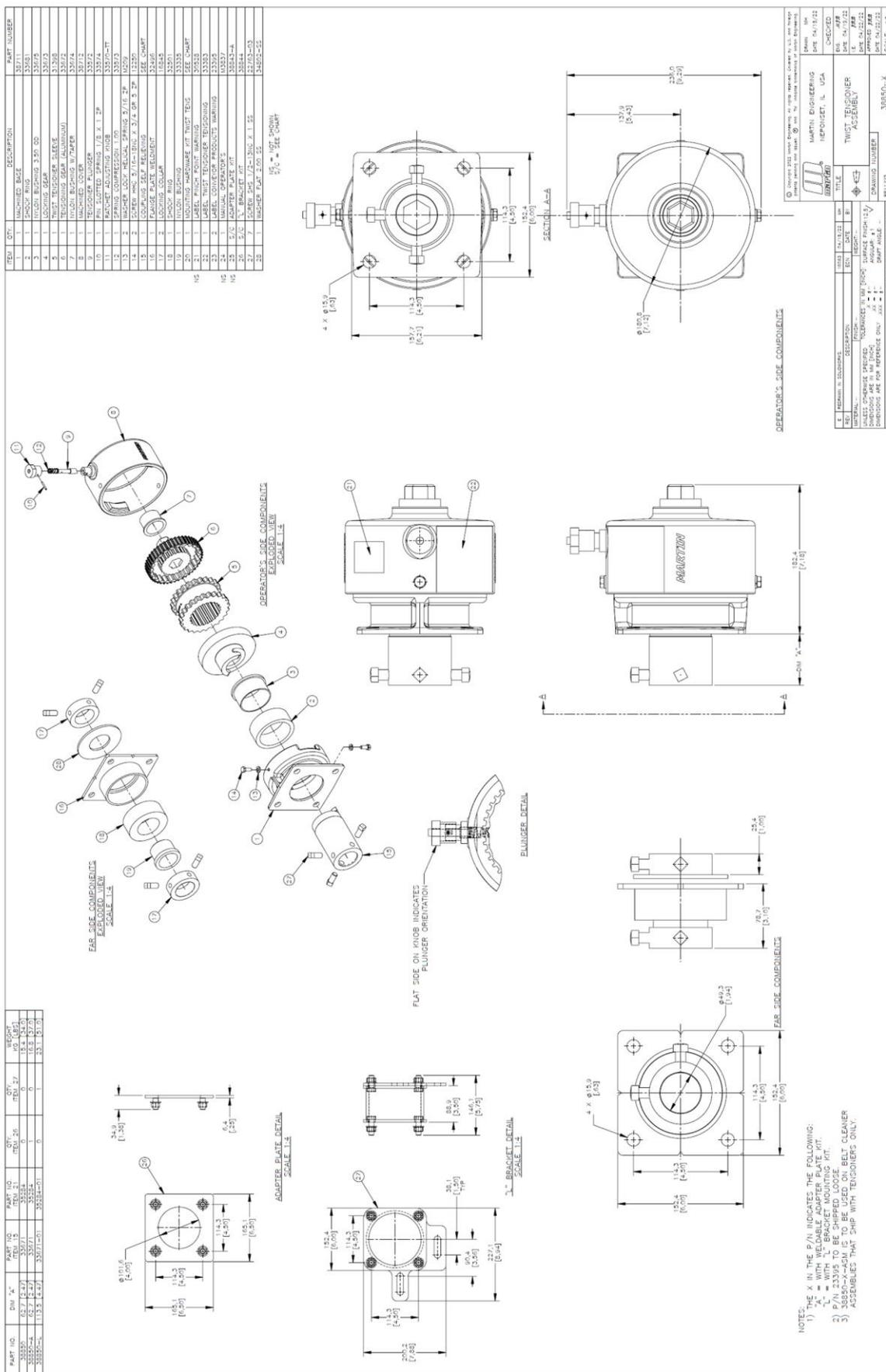
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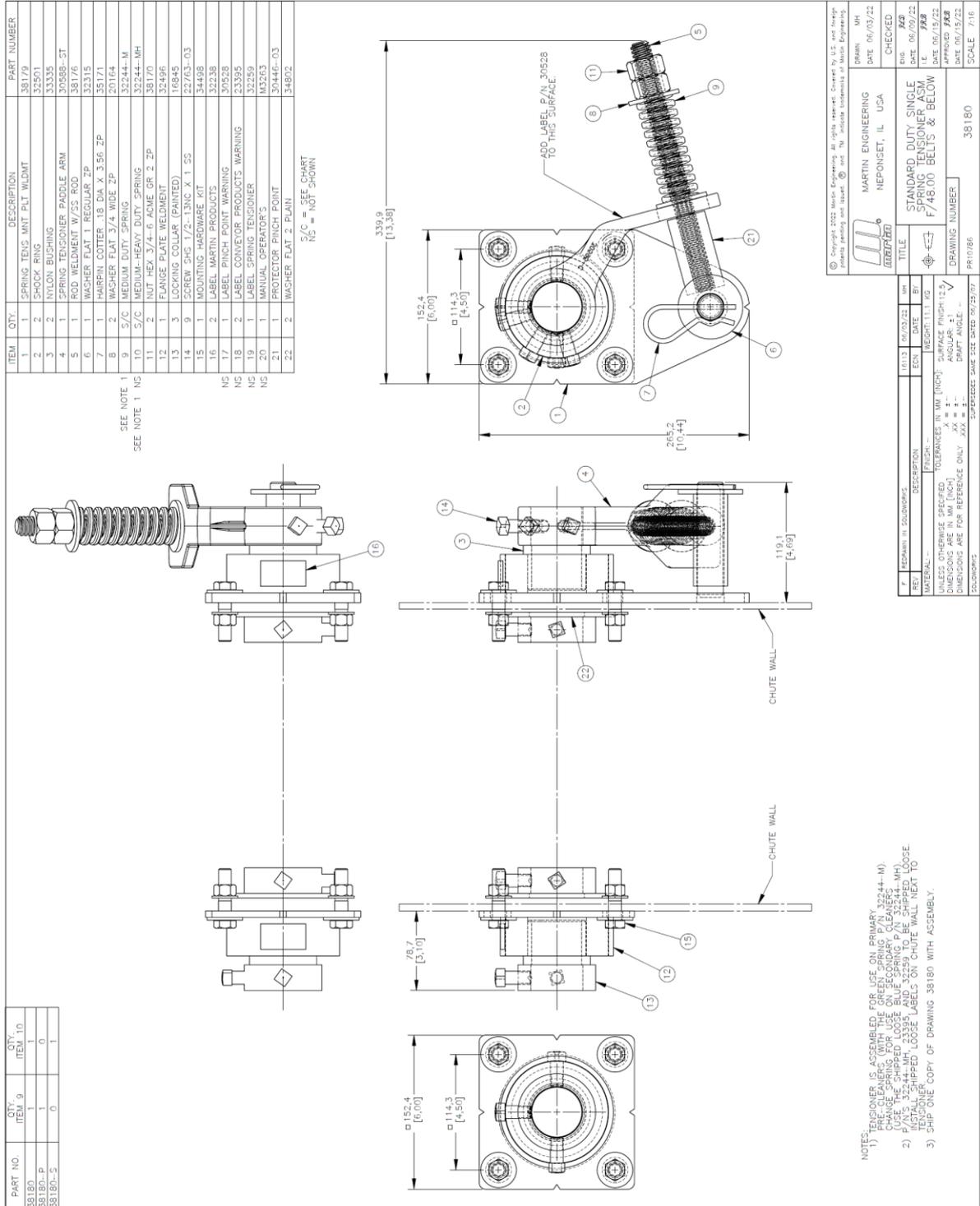
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Drawing No.		C1QCHBXXXXXX		Scale		1:1		1.5	

Drawing No.		C1QCHBXXXXXX		Scale		1:1		1.5	

3.3 Tensioners







India

Martin Engineering India
Plot 191, 192, 193, Vadu Khurd Alandi-Markal Road,
Phulgaon, Pune 412216, India
Tel. +91 20 66788270
salesindia@martin-eng.com
www.martin-eng.in

Germany

Martin Engineering GmbH
In der Rehbach 14, 65396 Walluf, Germany
Tel. +49 (0)6123 97820; Fax +49 (0)6123 75533
info@martin-eng.de; www.martin-eng.de

France

Martin Engineering SARL 50 Avenue d'Alsace, 68025
Colmar Cedex, France Tel +33 389 20 63204; Fax +33
389 20 4379
info@martin-eng.fr; www.martin-eng.fr

Italy

Martin Engineering Italy Srl
Via Buonarroti, 43/A, 20064 Gorgonzola (MI), Italy
Tel +39 295 3838 51; Fax +39 295 3838 15
info@martin-eng.it; www.martin-eng.it

Russia

OOO Martin Engineering
Bolshaya Kalitnikovskaya str, 42, office 508,
Municipal district Tagansky, Moscow, 109029 Russia
Tel +7 495 181 33 43; Fax +7 499 720 62 12
info@martin-eng.ru; www.martin-eng.ru

South Africa

Martin Engineering South Africa
Antwerpen Street and Arnhemsingel, Die Heuwel,
Witbank, Emalaheni, Mpumalanga, South Africa 1042
Tel. +27 13 656 5135
feedback@martin-eng.com; www.martin-eng.co.za

Spain

Martin Engineering Spain
c/Balmes 297 3° 1ª b 08006 Barcelona, Spain
Tel. +34 (0)876 245114; Fax +34 (0)966 719371
info@martin-eng.es; www.martin-eng.es

Turkey

Martin Engineering Türkiye
Yukarı Dudullu İmes Sanayi Sitesi, B Blok 205 Sokak
No.6
34775 Ümraniye İstanbul, Turkey
Tel +90 216 499 34 91; Fax +90 216 499 34 90
info@martin-eng.com.tr; www.martin-eng.com.tr

United Kingdom

Martin Engineering Ltd.
8, Experian Way, NG2 Business Park,
Nottingham NG2 1EP, Nottinghamshire,
United Kingdom
Tel +44 115 946 4746
info@martin-eng.co.uk; www.martin-eng.co.uk