



Martin® QC1+™ Cleaner HD



Operating Instructions Part 2

Version: 0
Language: ENG
M4124E IN 2026-05 QC1+ HD

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1 General



NOTE

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

1.1 About these operating instructions

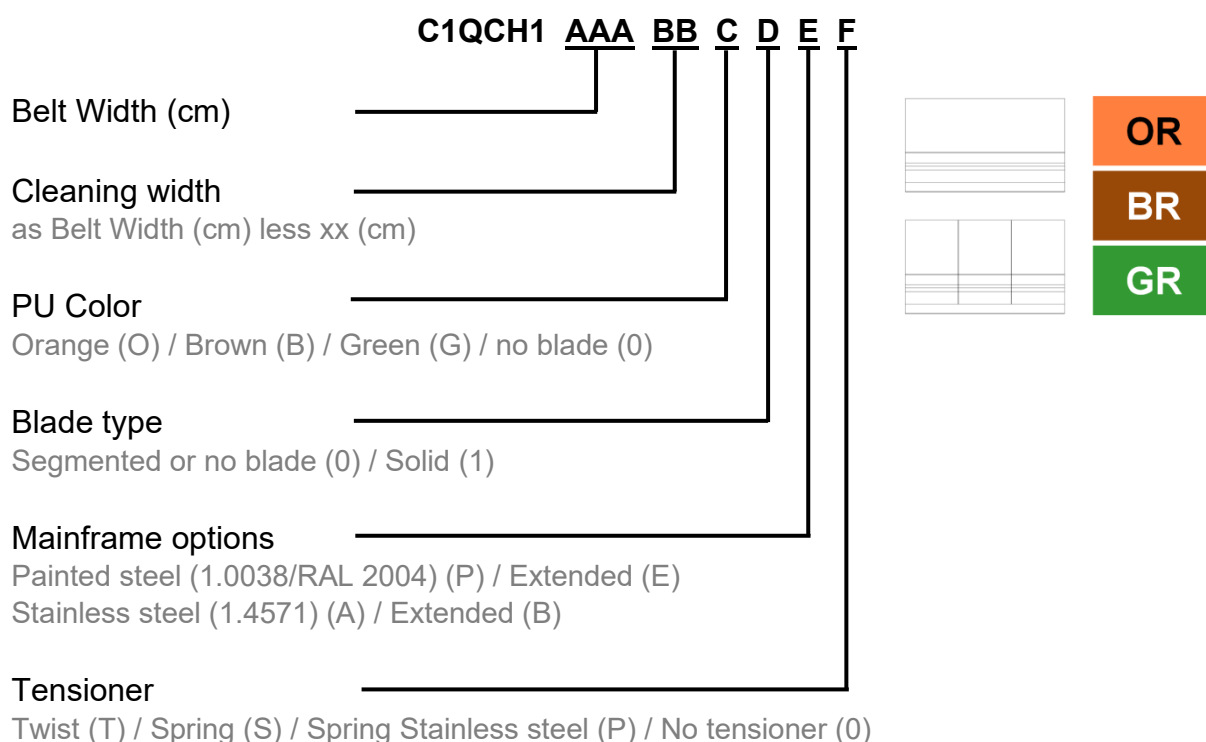
These operating instructions apply solely for cleaners and are intended for those persons who install cleaners, commission them, and monitor their usage.

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.

1.2 Accompanying documents

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

1.3 Part number



1.4 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

1.5 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.

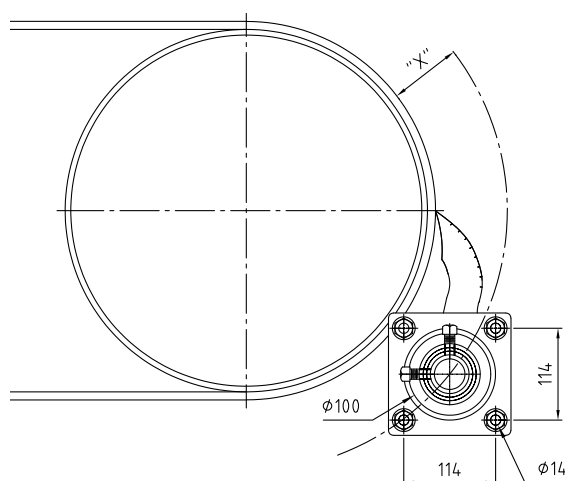
2 Installation



NOTE

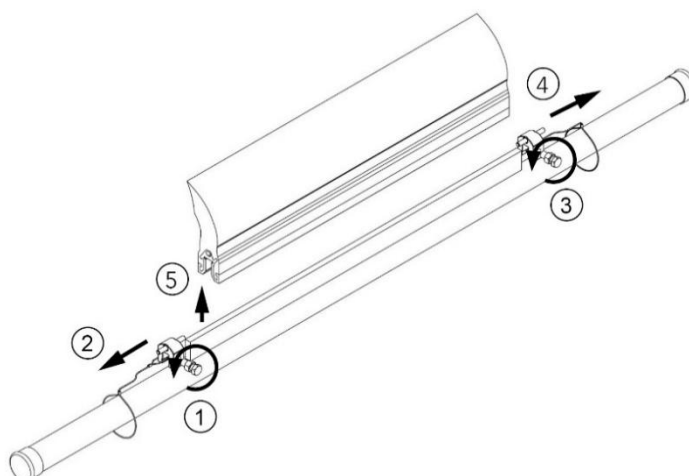
For a general description of cleaner installation, refer to part 1 of these operating instructions.

2.1 Determining the installation position

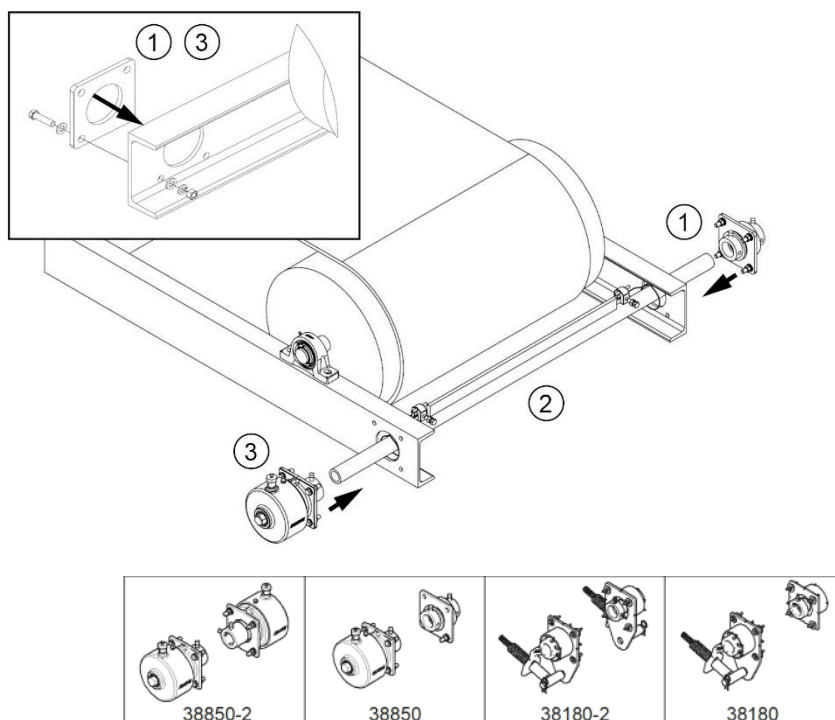


Pulley diameter* in mm	X in mm
300-375	114
376-475	102
476-600	89
*(Including pulley lining and conveyor belt)	

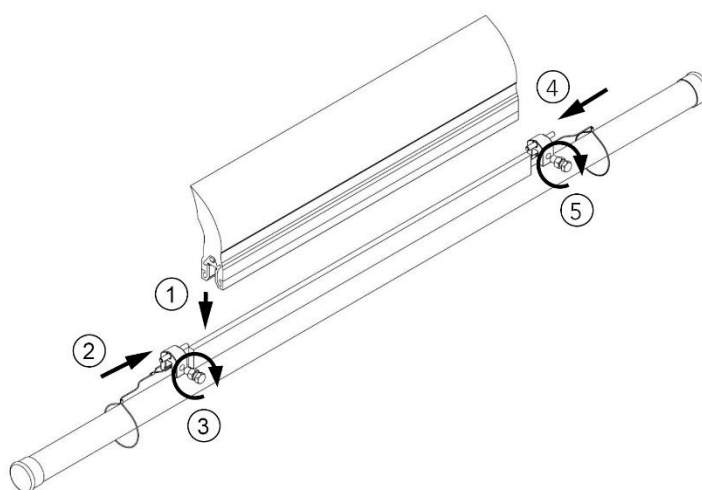
2.2 Preparing the cleaner



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.

QC1+™ Blade clamps are supplied with specific M12 Stainless Steel ring-cutting screws. The **tightening torque** of the screws must be at least **65 Nm**.

To prevent galling or seizure, the screw should be lightly lubricated before tightening.

Only the **designated ring-cutting screws** are permitted. Using any other type of screw may compromise the secure retention of the blade.

Lubricant requirement

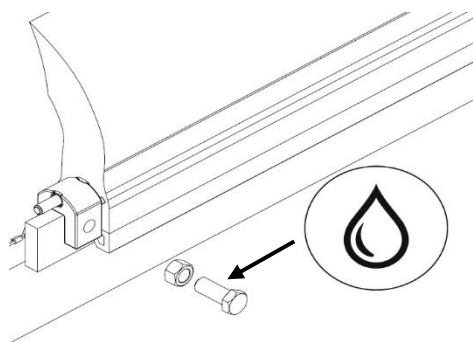
MoS₂

Operational range up to min. 121°C

Good chemical stability

Long-term resistance to UV and humidity

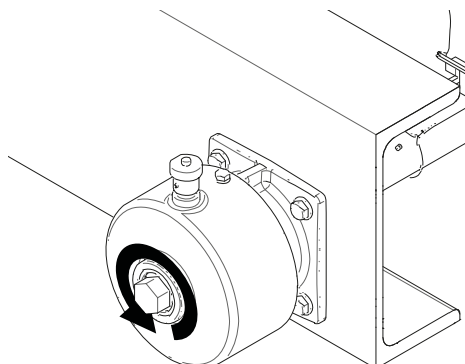
Very low coefficient of friction



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*

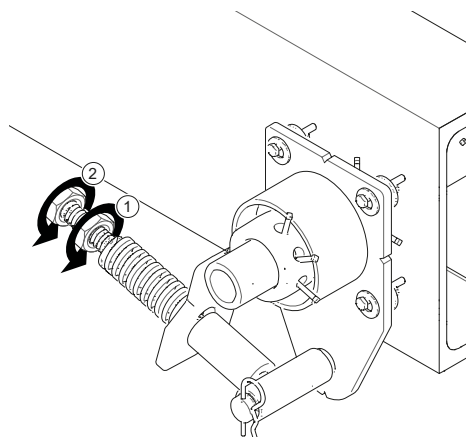
*Per tensioner; Dual tensioners are needed



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*

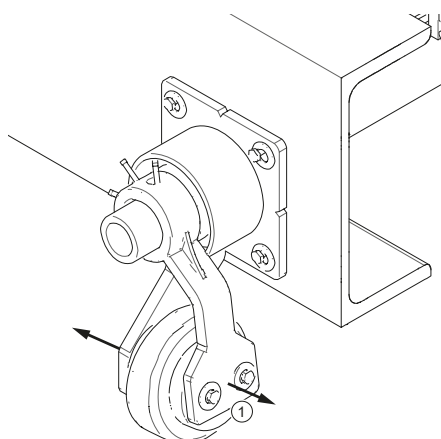
*Per tensioner; Dual tensioners are needed



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:



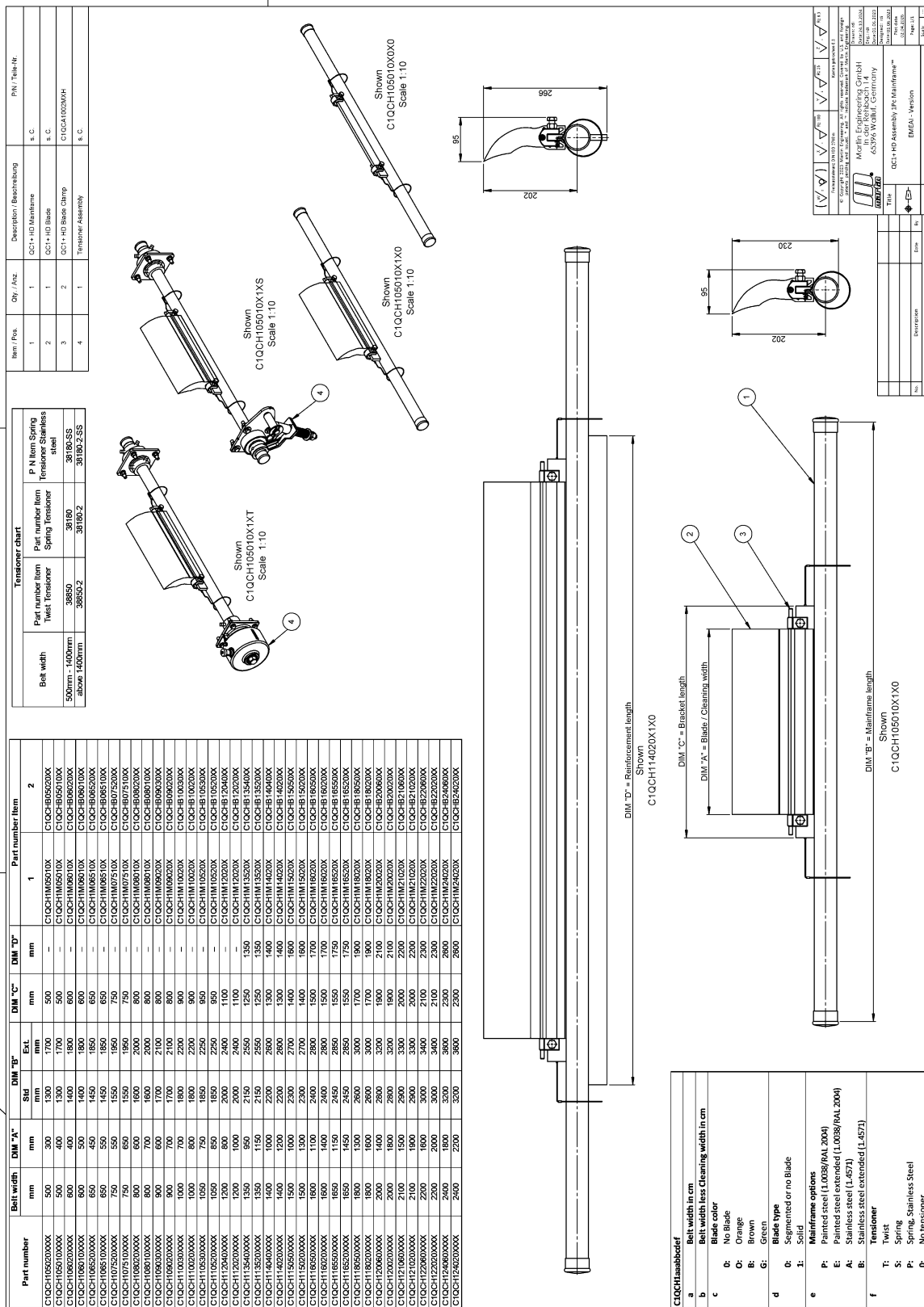
2.8.2 Other labels

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

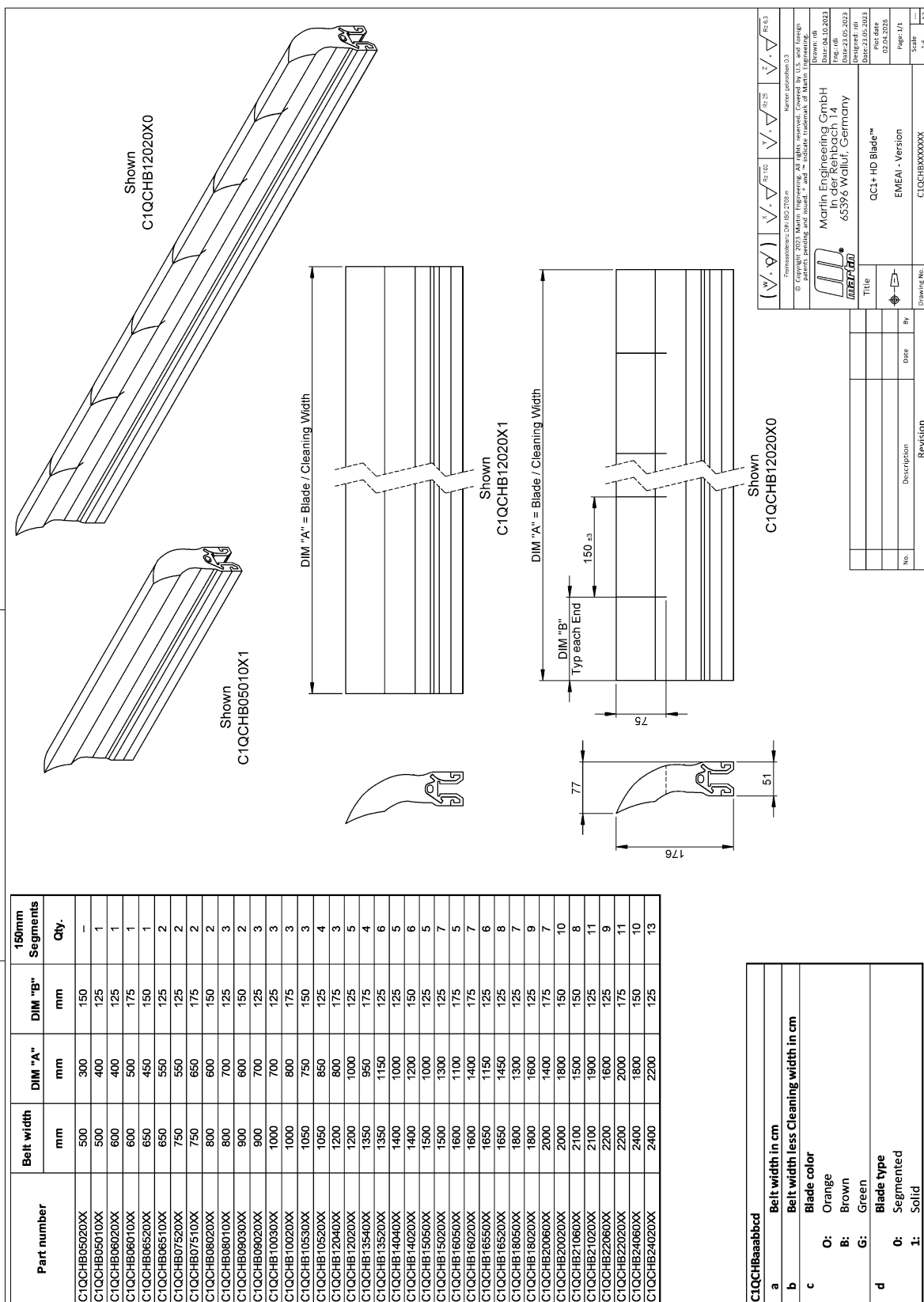
3 Scope of delivery and spare parts

3.1 Pre-cleaner



This drawing is the confidential information of Martin Engineering Company and cannot be shared with any third party without Martin Engineering Company's express prior written consent.

3.2 Blades



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