GUMMI STRICKER

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MANUFLEX TYPE „V-PUR“

INSTALLATION INSTRUCTIONS

400 – 1,600 mm belt width

Your contact for questions:
Svenja Bergmeier
telephone: +49 251 3288-339
s.bergmeier@gummi-stricker.de
www.gummi-stricker.de

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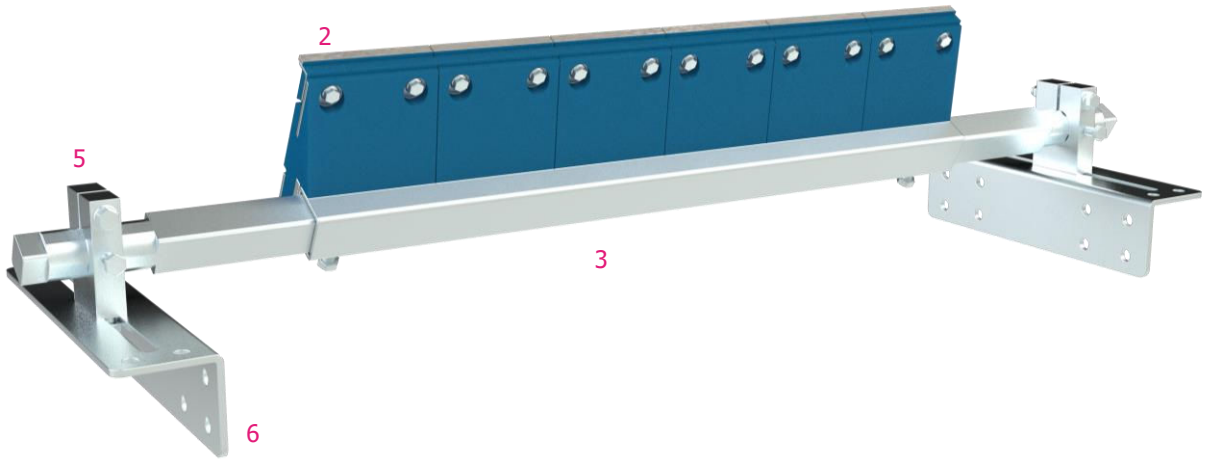
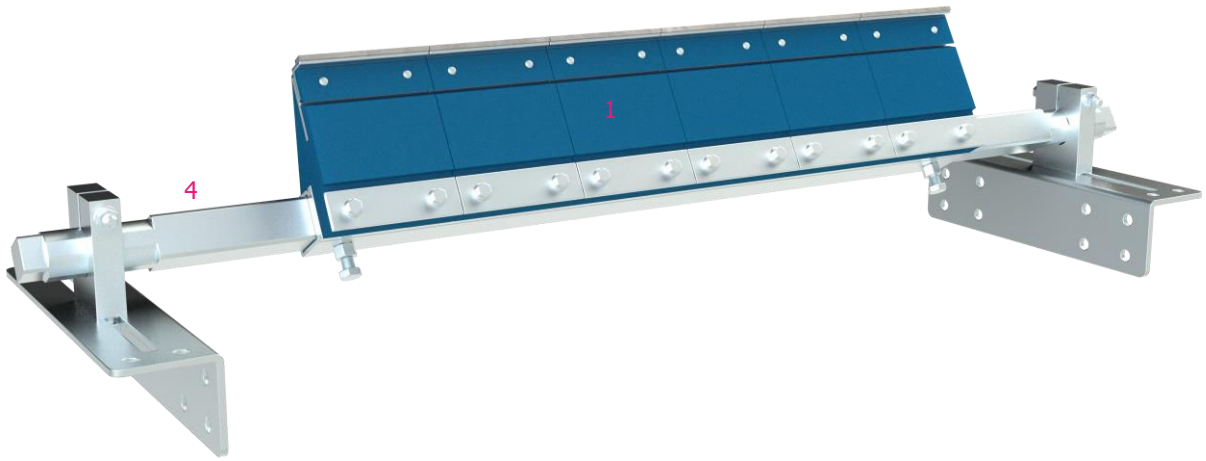
DESCRIPTION

The manuflex V-PUR drum scraper is fitted with 3 mm or 5 mm thick hard-metal blades.
It is available for belt widths from 400 mm to 1,600 mm.





The manuflex V-PUR scraper consists of PUR segments (1), hart-metal blades (2), a substructure (3), massive plug-in axles (4), rugged axle brackets (5) and mounting brackets (6).

The telescopic plug-in axles allow the manuflex V-PUR to be adjusted to the corresponding conveyor width.

The scraper is mounted tangentially to the head pulley of the conveyor belt.

The manuflex V-PUR can be used in combination with a secondary scraper (e.g. manuflex S, see page 6) or as separate primary scraper.

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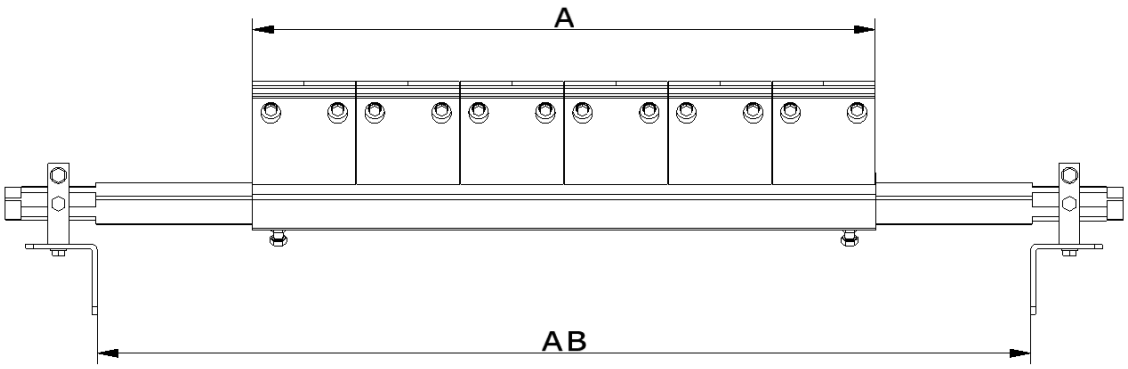
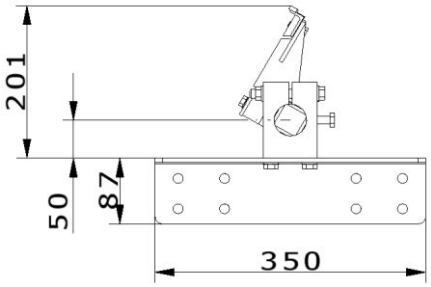
DIMENSIONS AND WEIGHTS

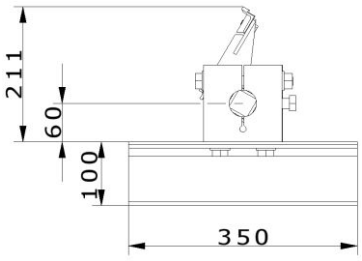


Belt width / mm	Segments	A / mm	AB / mm	Weight / kg
400	3	375	340 – 620	21.6
500	4	500	440 – 750	24.1
650	5	625	590 – 1,070	26.6
800	6	750	740 – 1,100	32.8
1,000	8	1,000	940 – 1,650	43.8
1,200	9	1,125	1,140 – 1,760	46.2
1,400	11	1,375	1,340 – 1,980	63.5
1,600	12	1,500	1,540 – 2,110	66.0

400 – 1,200 mm belt width



1,400 – 1,600 mm belt width



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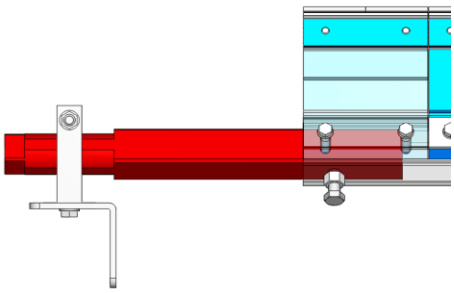
AXLE INSERTION DEPTH

The dimensions AB shown in the table require a minimum insertion depth of the axles into the square tubes of the substructure.



MINIMUM INSERTION DEPTH

400 – 650 mm belt width	=	100mm
800 mm belt width	=	150mm
1,000 – 1,600 belt width	=	200mm

INSTALLATION ANGLE

The optimum installation angle of 30° may be increased or reduced, depending on the installation situation.

It is important to minimise the amount of material dropping onto the top of the scraper, as this prevents unwanted build-ups of material on the blades.

It must also be ensured that the backs of the segments are angled as steeply as possible to prevent such build-ups of material.

ANGLE OF ATTACK

The angle may be adjusted to more than, but never less than, 90°.

If the angle is set to less than 90°, there is a danger of the scraper segments being pulled into the belt.

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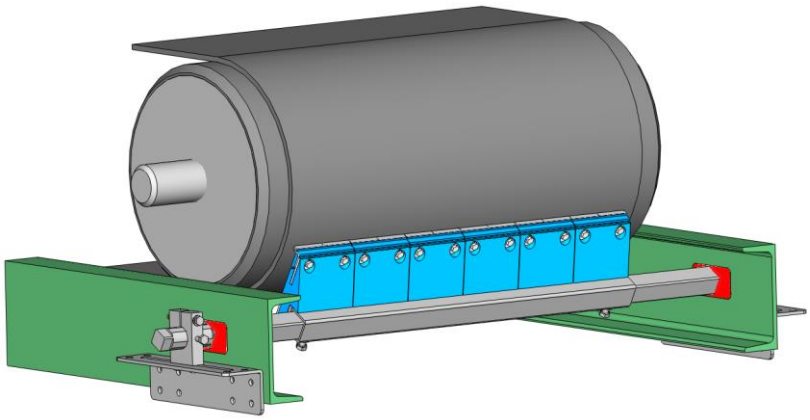
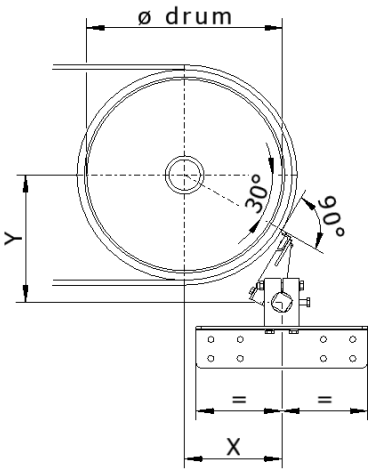
AXLE CONFIGURATION

Openings (marked in red) are sometimes required in the sidewalls or supports of conveyor lines to allow the fitting of mounting brackets outside the transfer area.





The positions of the openings for the axle penetrations can be defined with the dimensions X and Y. Guiding values can be taken from the table and depend on the respective drum diameter. The exact position must be determined on the system.

When fitting the mounting brackets, note that the axle brackets must be centred up as accurately as possible relative to the slots.

Drum diameter*	X	Y
200	103	211
250	125	224
315	153	240
400	190	261
500	233	286
630	289	319
800	363	361
1,000	450	411
*** + 10 mm friction lining and 10 mm belt**		

When fitting the mounting brackets, note that the axle brackets must be centred up as accurately as possible relative to the slots.

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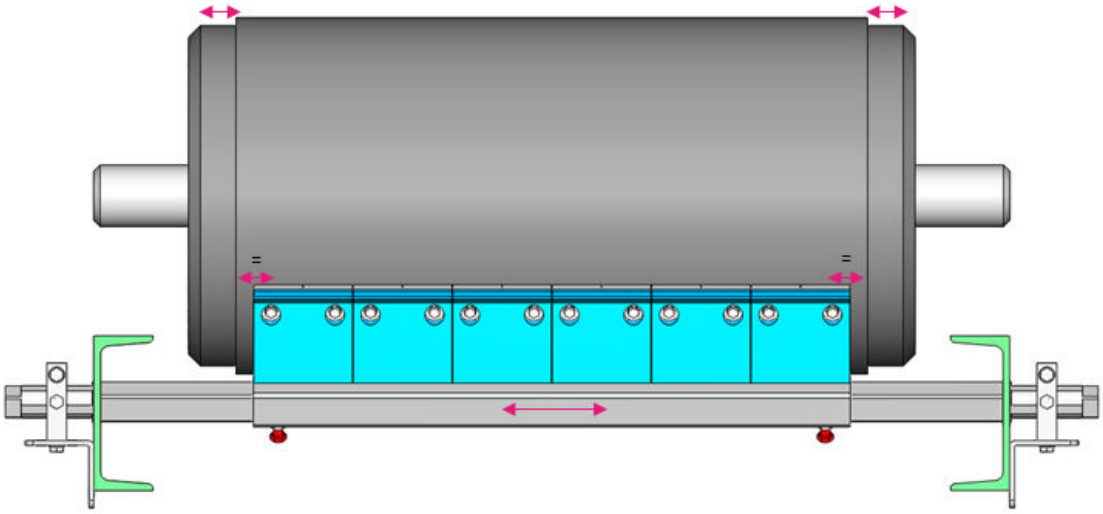
POSITION RELATIVE TO THE BELT

The telescopic axles allow the manuflex V-PUR to be centred up relative to the belt. Ensure when doing this that the belt is running centrally with respect to the drum.



This involves loosening the clamping screws on the axles (marked in red).

The scraper can now be centred up relative to the belt.

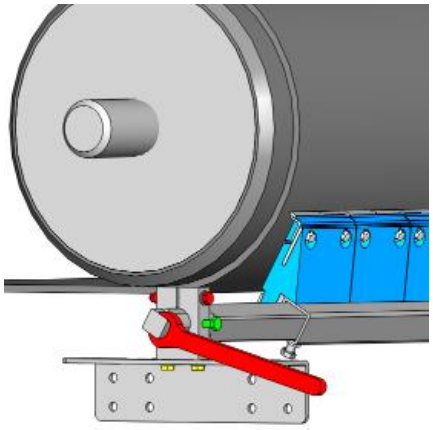
Retighten the clamping screws.

PRE-TENSIONING

To allow pretension to be applied, loosen the clamping screws (red) and fixing screws (green) on the axle brackets. The axle-bracket fixing screws (yellow) are tightened and keep each axle bracket in centre position relative to the slots in the mounting brackets.

You can now use an open-ended SW32 spanner (for example) to adjust the correct tension.

As you adjust the tension with the spanner, tighten the clamping screws (red). Now tighten the fixing screws (green). Repeat the same procedure on the other side.



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TENSION FORCE

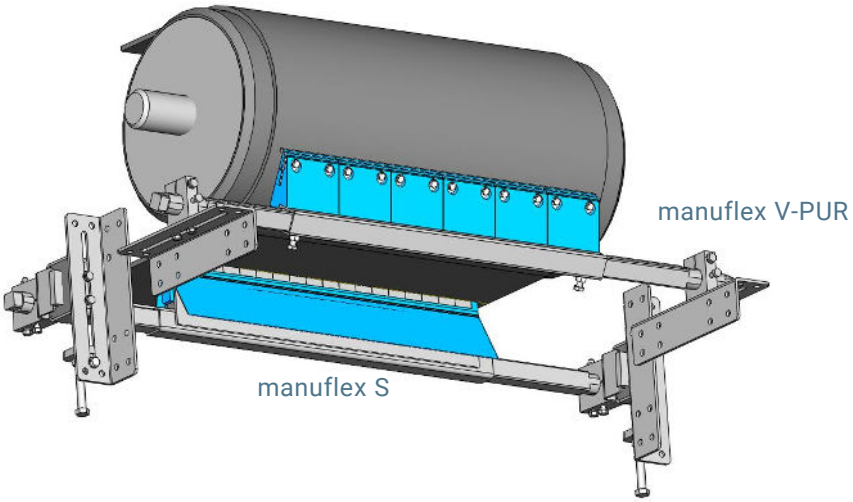
The fitter responsible for adjusting tension by either method should ensure that the proper amount of force is applied. It is recommendable to adjust the tension carefully, and then to check it after a suitable running-in period and readjust as required.

TEST RUN

Once all the screws, nuts and bolts have been tightened, a test run can be started.
The manuflex V-PUR should run quietly and without vibration as it thoroughly cleans the belt.

CLEANING PERFORMANCE

You may have to use an additional scraper on the underside of the belt if you are handling highly adhesive bulk materials. Suitable items from the manuflex range include the manuflex S.



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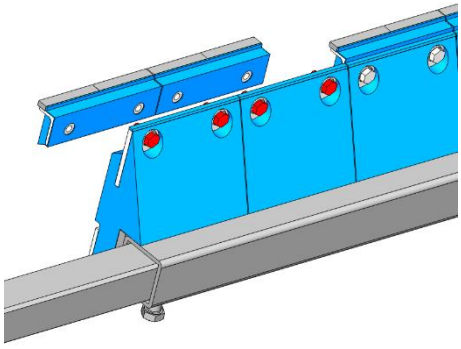
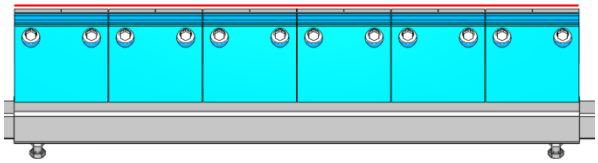
REPLACING OF BLADES

When replacing the hard-metal blades, remove the M8 screws (red) from the backs of the PUR segments.



When fitting the new segments, adjust their positions relative to the slots in the PUR segments to create a continuous alignment.



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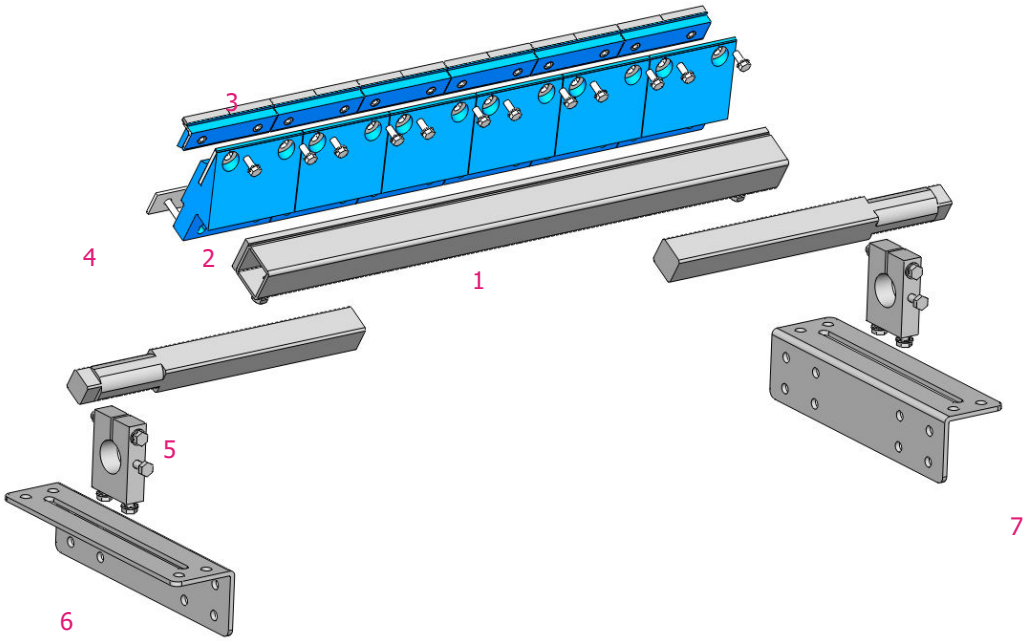
INDIVIDUAL COMPONENTS



Item	Designation	Art. no. / Qty
1	Substructure	Belt width 400 –1,600 14711; 14712; 14713; 14714; 14715; 14716; 14717; 14718
2	PUR segment V-PUR	14632 / 3; 4; 5; 6; 8; 9; 11; 12
3	V-PUR blade 3 mm	14630 / 3; 4; 5; 6; 8; 9; 11; 12
3	V-PUR blade 5 mm	14631 / 3; 4; 5; 6; 8; 9, 11; 12
4	V-PUR clamp strip	11237 / 3; 4; 5; 6; 8; 9; 11; 12
5	Axle up to 650 mm belt width	11555 / 2
5	Axle for 800 mm belt width	13378 / 2
5	Axle for belt widths ≥ 1,000 mm	11556 / 2
6	Axle bracket up to 800 mm belt width	11552 / 2
6	Axle bracket for 1,000 and 1,200 mm belt width	11553 / 2
6	Axle bracket for belt widths ≥ 1,400 mm	11554 / 2
7	Mounting bracket	14198 / 2 (Belt width 400 – 1,200)
7	Mounting bracket	12165 / 2 (Belt width 1,400 – 2,000)

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INSTALLATION SEQUENCE

1. Ensure that the belt conveyor is switched off and blocked to prevent accidental operation.
2. Establish the position of the manuflex V-PUR behind the drum. Use “XY” dimensions where necessary.
3. Weld or bolt the mounting bracket to the system structure.
4. Check the belt for straight running over the drum.
5. Adjust the manuflex V-PUR relative to the centre of the belt.
6. Adjust the scraper to an installation angle of 30° and an angle of attack of 90°.
7. Adjust the pretension.
8. Tighten all screw fittings.
9. Apply suitable protection to welded joints.
10. Remove all tools and items of equipment.
11. Carry out a test run.
12. Readjust the pretension as required.

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