GUMMI STRICKER

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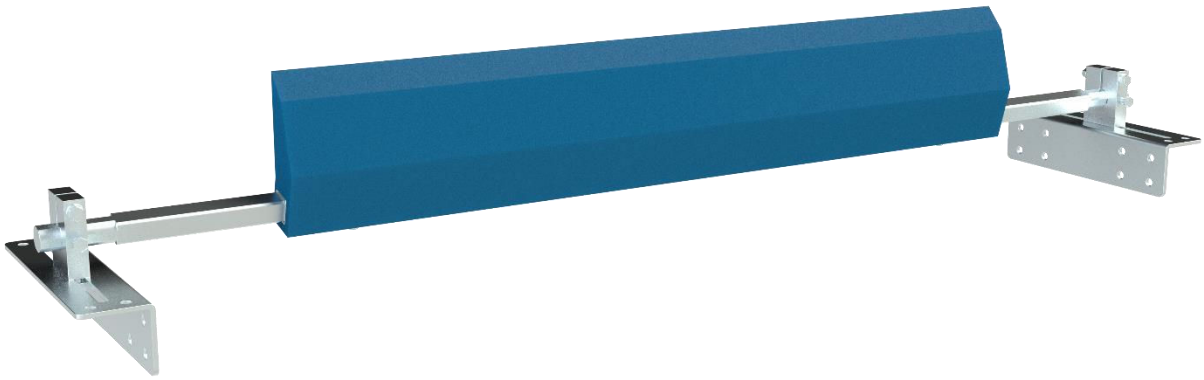
April 2020

MANUFLEX TYPE „PTL“

INSTALLATION INSTRUCTIONS

400 – 1,200 mm belt width



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DESCRIPTION

The manuflex PTL is a drum scraper fitted with a scraper strip made of polyurethane.
The scraper is mounted tangentially to the head pulley of the conveyor belt.
The manuflex PTL can be used in combination with a secondary scraper (e. g. manuflex SFR) or as separate primary scraper.
It is available for belt widths from 400 mm to 1,200 mm.

The 35 x 35 mm rectangular supporting tube (1) is made of injection-moulded polyurethane (2). The polyurethane bar is shaped to come to a point at the top, where it comes into contact with the conveyor belt.
The manuflex PTL is also equipped with solid plug-in axles (3) sitting on robust supporting brackets (4), along with mounting brackets (5).
The telescopic plug-in axles allow the manuflex PTL to be adjusted to the corresponding conveyor width.

The scraper strip is 1,200 mm wide.

The bar can be cut to size to match narrower belts.

The manuflex PTL is available in various design configurations:

- As an alternative to standard blue polyurethane, it can also be supplied in white, FDA-approved polyurethane or a conductive compound material.
- The axle tubes, axles, axle supports and mounting brackets can be supplied in stainless steel.

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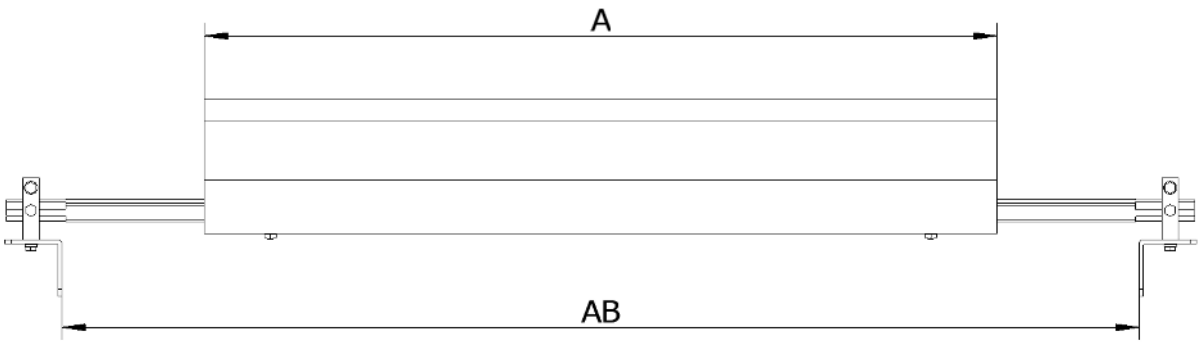
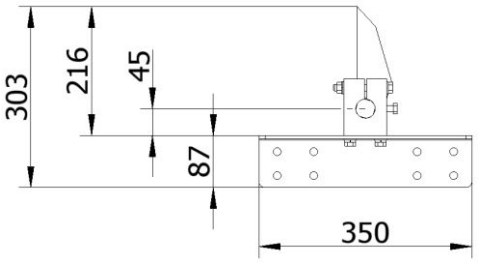
DIMENSIONS AND WEIGHTS



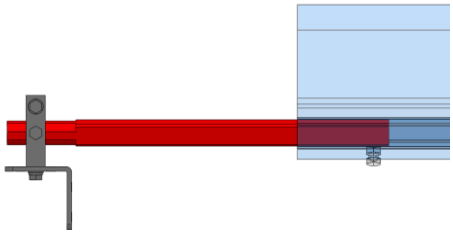
Belt width / mm	Strip width A / mm	Tube length TL / mm	Weight / kg
400	400	1,000	23.3
500	500	1,100	24.4
650	650	1,250	26.0
800	800	1,400	27.6
1,000	1,000	1,600	29.8
1,200	1,200	1,800	31.9



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.

The manuflex PTL requires a minimum insertion depth of 120 mm.



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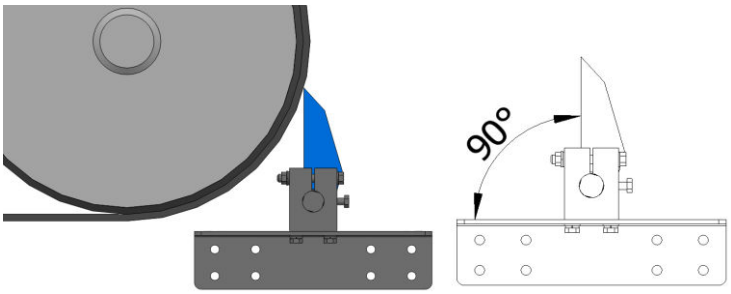
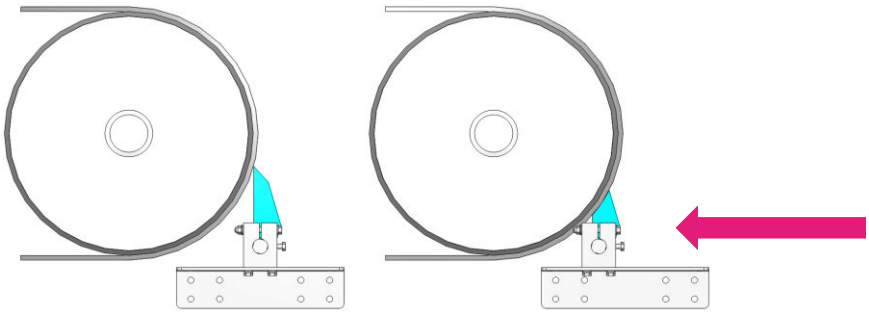
POSITIONING

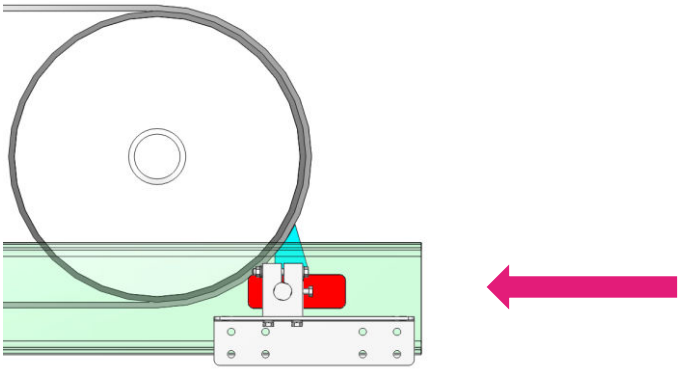
The manuflex PTL should be positioned relative to the drum in such a way that the back of the polyurethane blade lies at right angles to the mounting brackets.



When positioning the scraper, note that as the scraper strip wears down, the scraper can be pushed more tightly onto the drum via the slots in the mounting brackets.



It is therefore also important to ensure that the axle slots in the conveyor structure allow the scraper to be pushed towards the drum.



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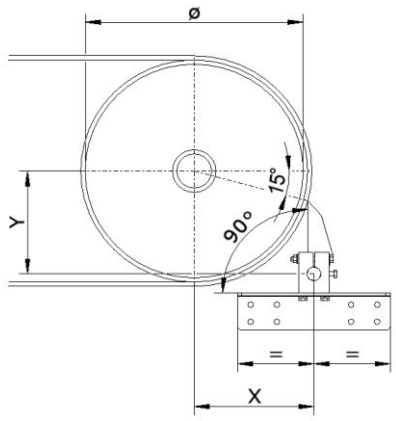
Axle configuration: Openings (marked in red) are sometimes required in the sidewalls or supports of conveyor lines to allow the fitting of mounting brackets outside the transfer area.

Dimensions X and Y indicate the positions of the openings for axle configuration purposes. Dimensions X and Y can be taken from the table.

They depend on the diameter of the drum in each case and respect an angle of attack of 15°.

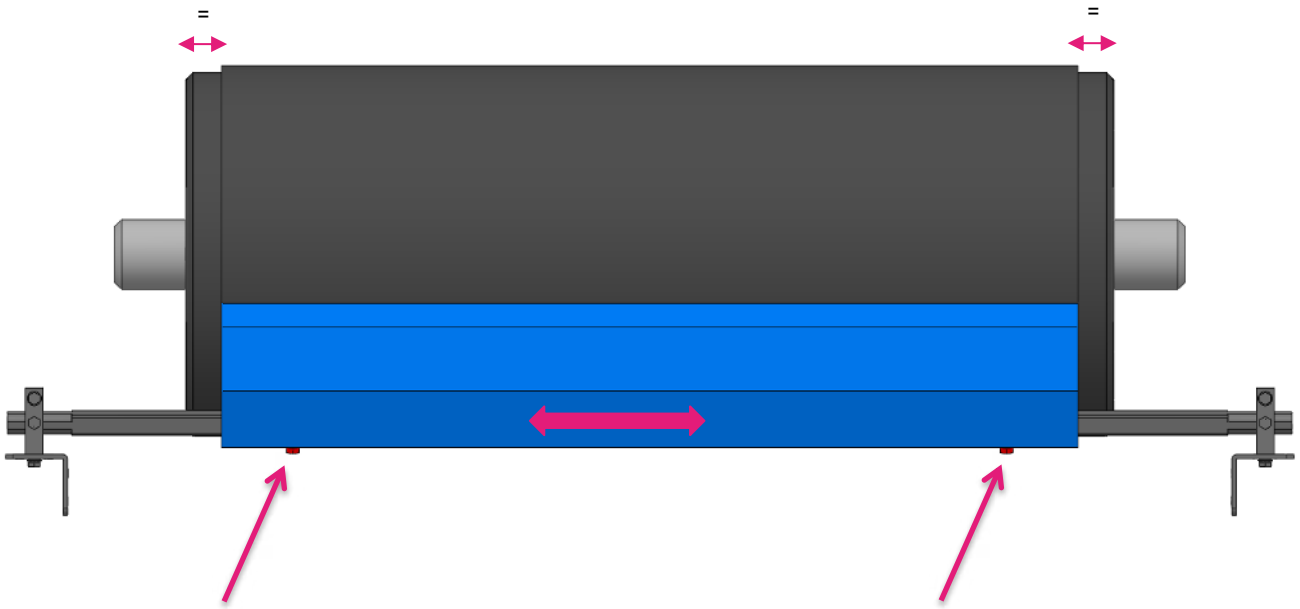


Drum diameter*	X	Y
200	130	202
250	154	208
315	185	217
400	226	228
500	275	241
630	337	258
800	419	280
1,000	516	305

* + 10 mm friction lining and 10 mm belt

Position relative to the belt: If the scraper is mounted as described, its position can be adjusted relative to the width of the belt.

To do this, loosen the clamping screws on the axle bracket and push the scraper strip towards the bottom centre of the belt.



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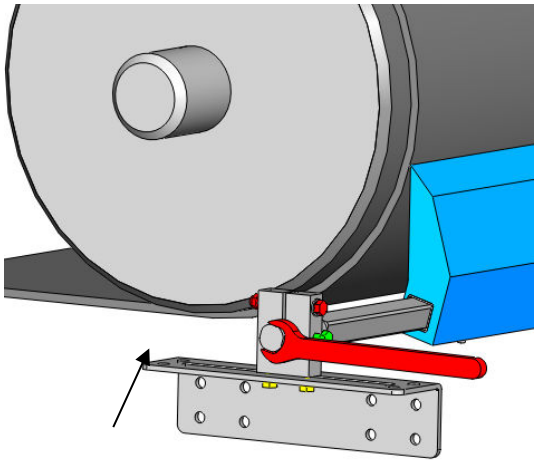
PRE-TENSIONING

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



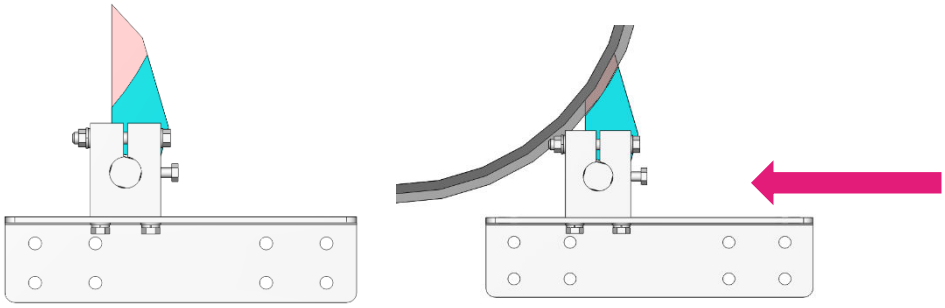
You can now use an open-ended SW32 spanner (for example) to adjust the correct tension.
As you adjust the tension with the spanner, tighten the clamping screws (red). Now tighten the fixing screws (green). Repeat the same procedure on the other side.

TEST RUN

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

REPLACING A WORN SCRAPER STRIP

The amount and rate of wear on the scraper strip depend on the abrasiveness of the material being handled, the operating speed of the belt and the length of operating times. As the scraper strip wears down, the manuflex PTL can be pushed into closer contact with the head pulley via the slots in the mounting brackets and its pretension can be re-adjusted in its new position.



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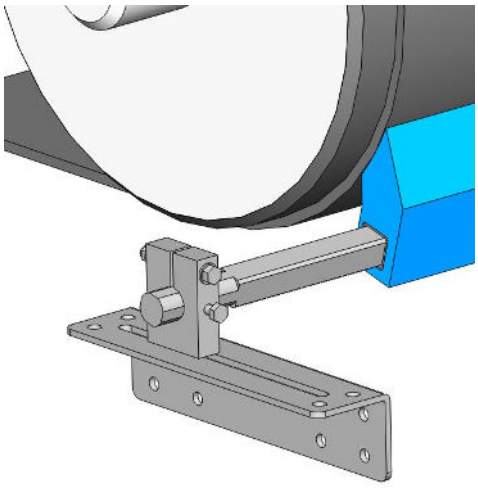
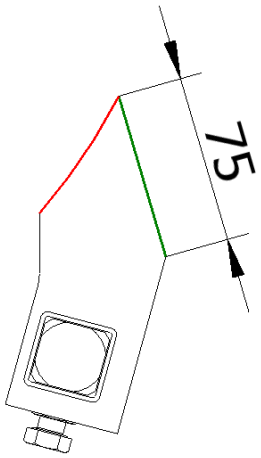
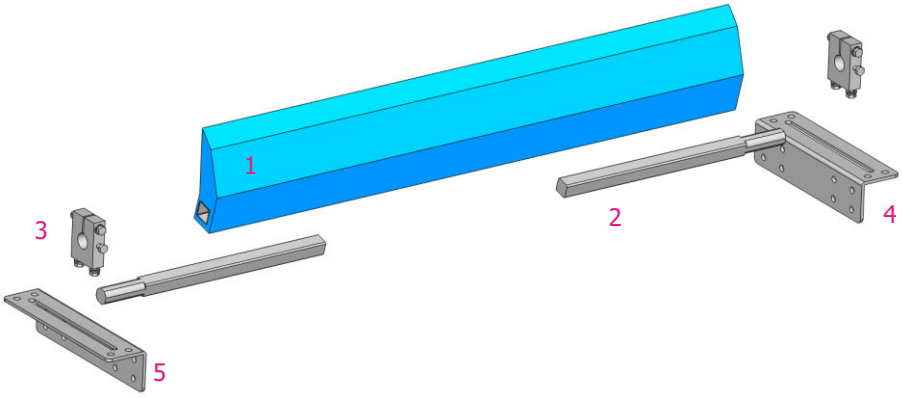
If the scraper strip of the manuflex PTL has worn down to a point where its (green) rear surface only measures about 75 mm in length, the strip should be replaced. It is also important to avoid a situation where the (red) contact surface of the scraper strip is so large that it creates extra friction wear on the conveying surface of the belt.





INDIVIDUAL COMPONENTS



Item	Designation	Belt width / mm	Art. no.
1	PTL scraper strip	400 - 1,200	14411
2	PTL axle		13463
3	Axle bracket		13464
4	Mounting bracket		14198

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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 PTL.
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 PTL relative to the centre of the belt.
6. Adjust the pretension.
7. Tighten all screw fittings.
8. Apply suitable protection to welded joints.
9. Remove all tools and items of equipment.
10. Carry out a test run.

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