



ROD NETWORK BELT -

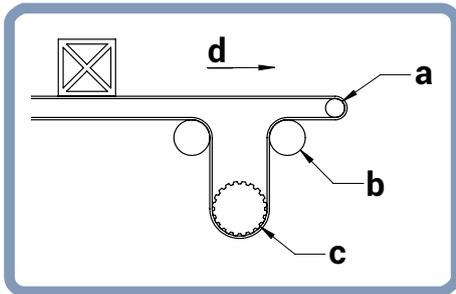
POSSIBLE CAUSES FOR INSUFFICIENT SERVICE LIFE



1 Has the manufacturing process changed?

Have other ingredients been used in the product recently, e.g., fruit acids? Has the load been increased or has the speed been increased?

2 Are the deflection diameters too small?



a Min. Roller- \emptyset c Sprockets
b Smallest Negative- \emptyset d Direction of running

Each rod network belt needs a different minimum deflection diameter, depending on the pitch and wire diameter, in order to keep the mechanical stress as low as possible.

PITCH x \emptyset (mm)	MIN. ROLLER- \emptyset (mm)	SMALLEST NEGATIVE- \emptyset (mm)
4,24 x 1,00	12	25
4,24 x 1,25	12	25
5,50 x 1,00	12	35
6,00 x 1,25	16	35
6,35 x 1,25	16	40
6,40 x 1,40	20	40
7,26 x 1,25	16	45
7,26 x 1,60	20	50
12,70 x 1,80	30	80
12,70 x 2,35	30	90
17,00 x 2,00	40	100
19,05 x 2,80	50	100
20,00 x 2,35	40	120

3 Are the deflection elements and/or sprockets worn out?

Worn sprockets put additional stress on the rod network belt. Please check the condition of the installed drive elements regularly.

4 Is the belt tension too high?

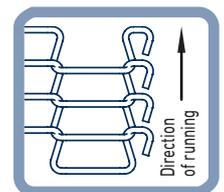
Rod network belts do not need great tension. The pretension should be just big enough that the tooth of the sprockets engages well with the meshes and does not skip.

5 Have new detergents been used?

Some detergents can negatively affect the mechanical properties of the steel used and possibly even lead to embrittlement in the material structure.

6 Is the running direction of the rod network belt correct?

The closed side of the end loop must point to the running direction.



7 Did you pay attention to the correct installation position during installation?

The flat surface, which is not interrupted by braided knots, must face upwards. The easiest way to know the belt is fitted correctly is to run your hand across the belt and it should feel smooth to touch.

8 Are the sprockets mounted in the correct drive meshes?

The sprockets are always arranged in the "uneven" meshes (1, 3, 5, 7, ...). The gear wheel edge is not counted.

9 Are the sprockets arranged exactly in the middle of the drive meshes?

In order to avoid premature wear, it is essential to ensure that the sprockets do not touch the braided knots.





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10 Are the teeth of the sprockets all aligned?

If one of these deviates by a fraction this will impart stress on this area of the belt. We generally recommend the use of grooved MÄRTENS sprockets to achieve optimal running behavior of the rod network belt.



11 Do the braided knots of the rod network belt have the correct distance to the contact points within the system?

The distance must be ensured laterally and downwards.

PITCH X Ø (mm)	GROOVE WIDTH (mm)	GROOVE DEPTH (mm)
4,24 x 0,90	4	3
4,24 x 1,25	5,5	3,5
5,50 x 1,00	4,5	3,5
6,00 x 1,25	5,5	3,5
6,35 x 1,25	5,5	3,5
6,40 x 1,40	6	4
7,26 x 1,25	5,5	4
7,26 x 1,60	7	4,5
12,70 x 1,80	8	6,5
12,70 x 2,35	10,5	6,5
17,00 x 2,00	9	10
19,05 x 2,80	12,5	12
20,00 x 2,35	10,5	12

12 Is the system regularly cleaned of product residues?

Deposits can cause the rod network belt to run sideways, which in turn leads to increased wear.

13 Is the system serviced regularly?

Worn out shaft bearings or worn guides can lead to a sideways running of the rod network belt, which in turn leads to increased wear.

14 How was the endless connection of the rod network belt carried out?

If strong deformations can be seen here, this can also lead to incorrect running in the sprocket and lead to premature breakage. Alternatively, we also offer our ECO clips or tube connectors for endless connections.



15 Has it been ensured that the rod network belt does not come into contact with the upstream and downstream systems?

Should the rod network belt collide with other systems, mechanical breakage is inevitable.

16 Do you have a spare belt in stock for an unexpected belt failure?

Even if we always strive to deliver the best quality, our rod network belts have a finite service life. In this case it is important to have a replacement belt in stock in order to keep downtimes as short as possible. Call-off orders reduce the delivery time to the shipping time – contact us for your individual offer.