

DOUBLE-BELT DRIVE

PS 120-500 M1/M2

MODIFICATION INSTRUCTIONS



PLEASE READ CAREFULLY BEFORE MODIFICATION!

Version: 2.0 EN; item number: 00602-3-431





TABLE OF CONTENTS

1 BACKGROUND.....3
1.1 Problem description3
1.2 Solutions.....3

2 REQUIRED MATERIALS.....4

3 CONVERSION5

4 NOTES.....7



1 BACKGROUND

1.1 PROBLEM DESCRIPTION

When using the agitator, especially for seed that is difficult to mix, the resistance of the agitator can become so high that the drive belt slips, meaning the agitator is no longer driven sufficiently or not at all.

Some customers remove the side belt cover to be able to detect the belt slipping, but this leads to increased dust accumulation on the belt, which in turn makes it slip more. UV radiation from the sun also has a negative effect on the rubber and makes it brittle over time. For this reason, the cover should always be left on!

1.2 SOLUTIONS

If the agitator (as described above) is not properly driven, this double-belt drive can be retrofitted on the pneumatic seeder. Installing two additional pulleys for a second drive belt will increase the friction and therefore also the torque. This makes the belts slip less.

It is also important that two new rubber belts are installed and not just one new belt alongside the old existing belt. This is because the diameter of the old belt can have already changed due to use meaning the friction force of the two belts is no longer identical.

It is equally important to ensure that the belts and pulleys are clean! Dust and dirt accumulation significantly reduces the friction force of the drive belt and must therefore be avoided. Regular cleaning, e.g. with brake cleaner, can have a very positive effect.

2 REQUIRED MATERIALS

The **double belt bearing flange conversion kit P8 PP 04000-2-003** is required for the conversion. This kit contains the following components:

CAUTION!

This kit cannot be used for fertiliser implements!

- 2x 00600-3-625 Rubber drive belt 80x8



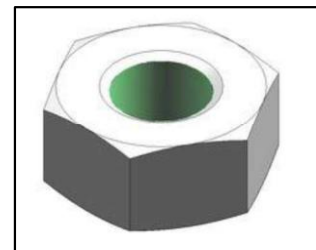
- 1x 04000-2-812 Bearing flange 2 P8 PP, installed
(already equipped with an additional pulley ex-factory)



- 3x 04000-3-103 Pulley 2
(one of these 3 pulleys is already on the bearing flange)



- 2x BN117-M10 Hexagonal nut



- 2x BN215-M6 Knurled nut



3 CONVERSION

In the first step, the bearing flange must be removed from the seeding shaft. The procedure here is the same as for changing the seeding shaft. First, the belt cover must be removed by loosening the two nuts. Then the rubber drive belt must be removed (Figure 2), so that the bearing flange can be pulled off the seeding shaft after undoing the two knurled nuts (Figure 3).

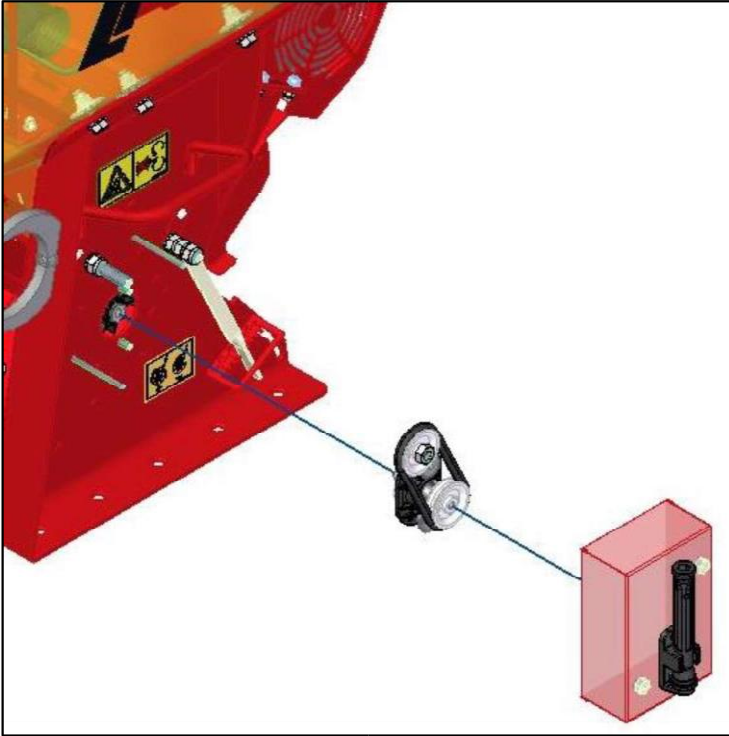


Figure 1: Removing the belt cover



Figure 2: Removing the belt

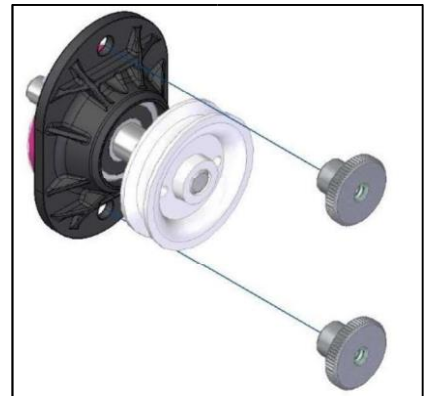


Figure 3 : Undoing the knurled nuts

Once the old bearing flange has been removed, the new bearing flange with the two pulleys can be installed and fixed with the two knurled nuts.

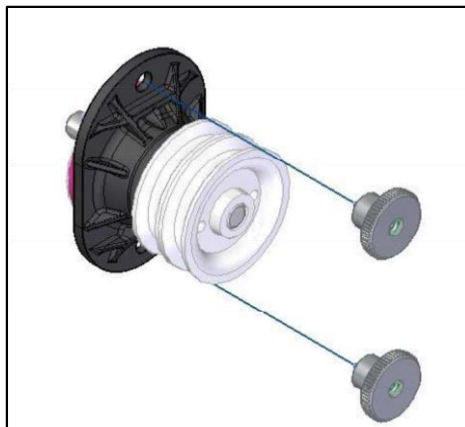


Figure 4: Installing the new bearing flange



Next, you must loosen the nut on the upper pulley on the agitator shaft, and take off the pulley as well as the nut behind it.

Now place the two new pulleys between two nuts on the agitator shaft, this is shown schematically in Figure 7.



Figure 5: Loosening the nuts



Figure 6: Pulley removed

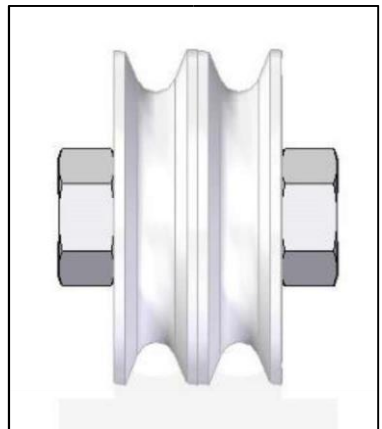


Figure 7: Putting on the new pulleys and nuts

Make sure that the pulleys of the bearing flange and the pulleys of the agitator shaft are aligned, so that the rubber drive belts can run straight. When the pulleys are properly adjusted, fix the position by tightening the two nuts (as shown in Figure 9).

Then install the two new rubber belts on the pulleys and reinstall the belt cover that was removed in Figure 1.

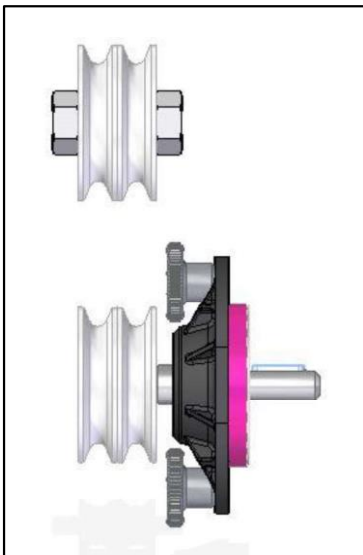


Figure 8: Aligning the pulleys



Figure 9: Tightening the nuts

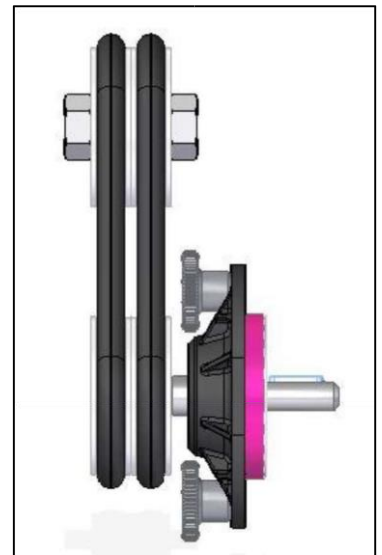


Figure 10: Putting on the belts



APV – Technische Produkte GmbH
Zentrale: Dallein 15
AT - 3753 Hötzelndorf

Tel.: +43 2913 8001
office@apv.at
www.apv.at

