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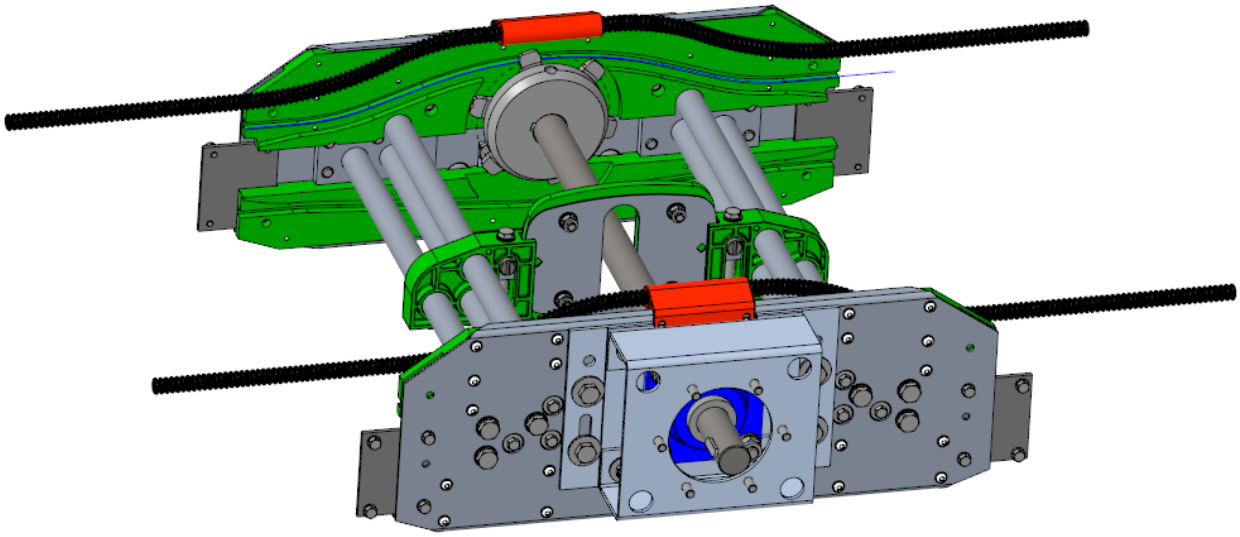
Information

LUBING Intermediate Drive 2.0

In many cases, the installation of longer conveyor systems requires the installation of intermediate drives that support the front drive in the operation of the conveyor system.
These intermediate drives have been fundamentally revised by LUBING. The objectives are an optimized transport of the conveyor chain as well as full compatibility with existing stand-alone systems. The design of the intermediate drives has been redesigned from the ground up. The result is the Intermediate Drive 2.0:



Overview Intermediate drives	
Conveyor-Type	**Art.-No.**
200	4968-11
250	4935-11
350	4868-11
500	4835-11
750	4898-11

Through optimized guidance of the conveyor chain and a new design of the sprocket, a more favourable overlap ratio could be achieved. As a result, the LUBING Intermediate Drive 2.0 ensures smoother operation of the conveyor chain.

If the intermediate drive is mounted in a horizontal section of the conveyor system with chain engagement at the top, the large deflection is used always. (see fig. 1)

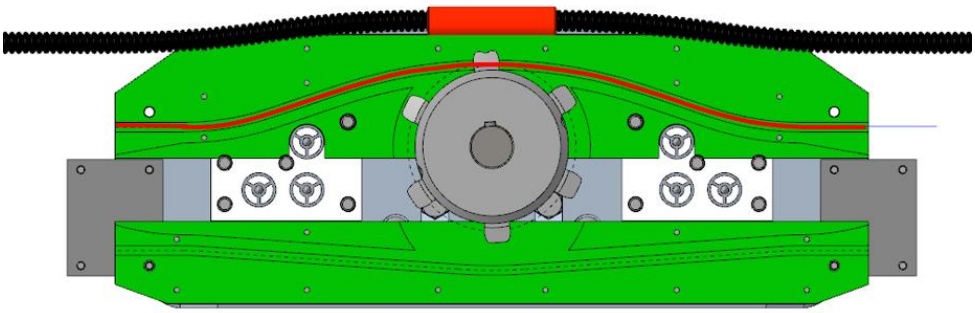


Fig. 1

In the case of installation with chain engagement at the bottom, the large deflection is used always. This applies both to horizontal installation and to installation in a rising or falling section. (see fig. 2)

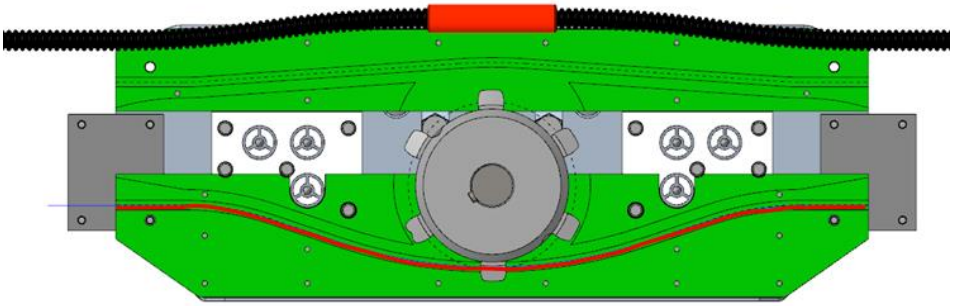


Fig. 2

The entire intermediate drive can be turned 180° to change from chain engagement at the top to chain engagement at the bottom. Only the connection plates and the cover strips need to be converted. (see fig. 3)

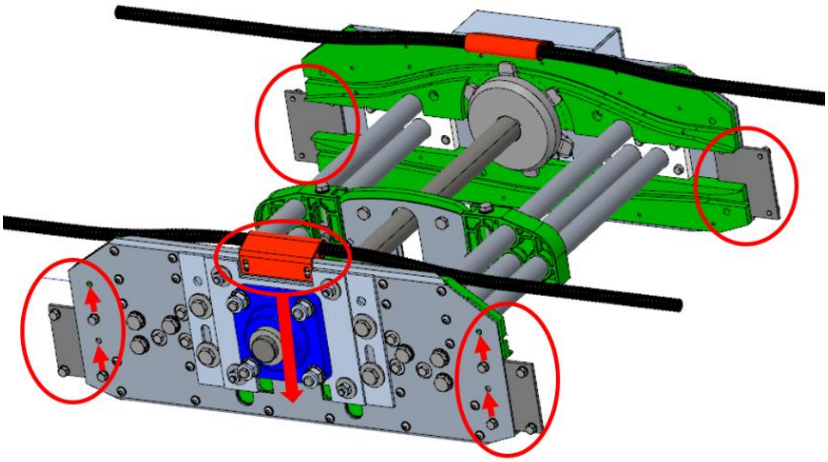


Fig. 3

To convert the holder for the corrugated hose, the torque support must be dismantled. (see fig. 4)

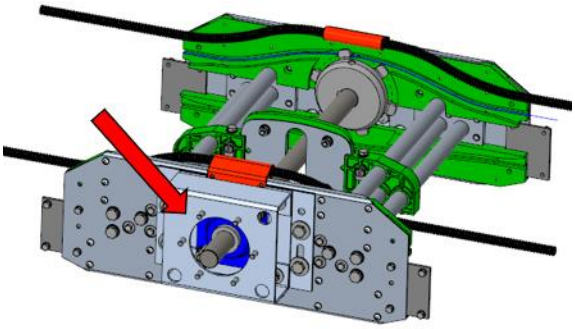


Fig. 4

This is done by loosening the four nuts marked in the picture on the right. (see fig. 5)

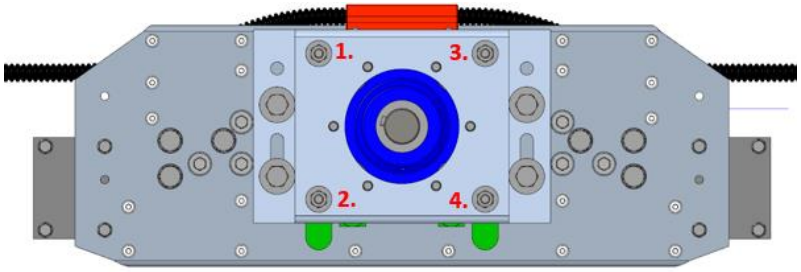


Fig. 5

Now the torque support can be pulled off. Then the two screws of the holder for the cover strip can be loosened and the holder can be converted. (see fig. 6)

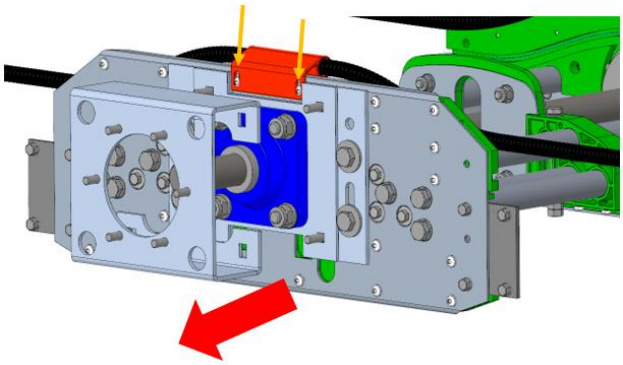


Fig. 6

The following graphic shows the Intermediate Drive 2.0 after the modification of connection plates and cover strip. (see fig. 7)

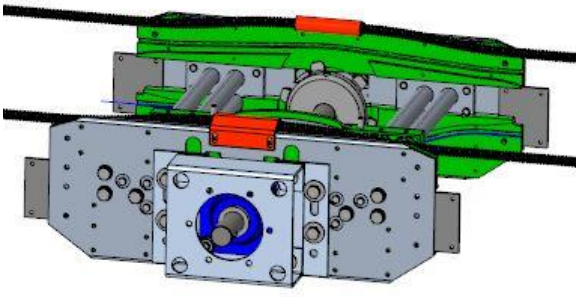


Fig. 7

The position of the central pressure piece can be adjusted by means of set screws to suit the conveyor chain used. As an aid for orientation, markings have been added to the plastic part to indicate the correct position of the pressure piece depending on the type of conveyor chain. (see fig. 8 & 9)

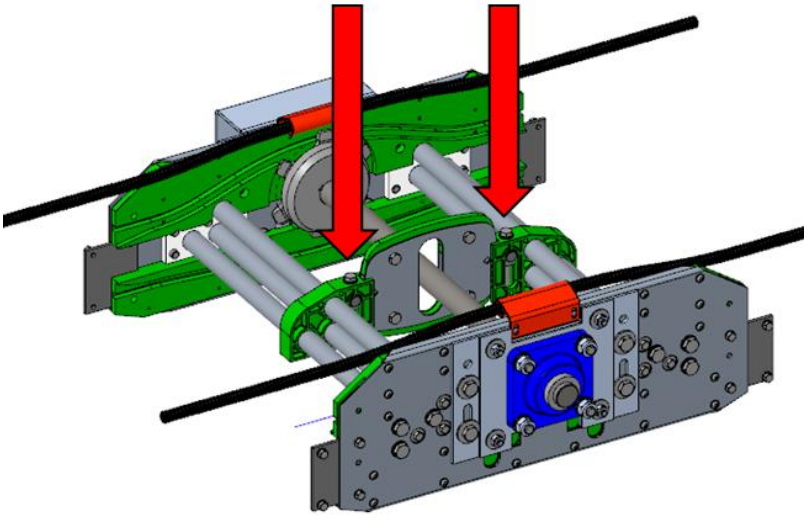


Fig. 8

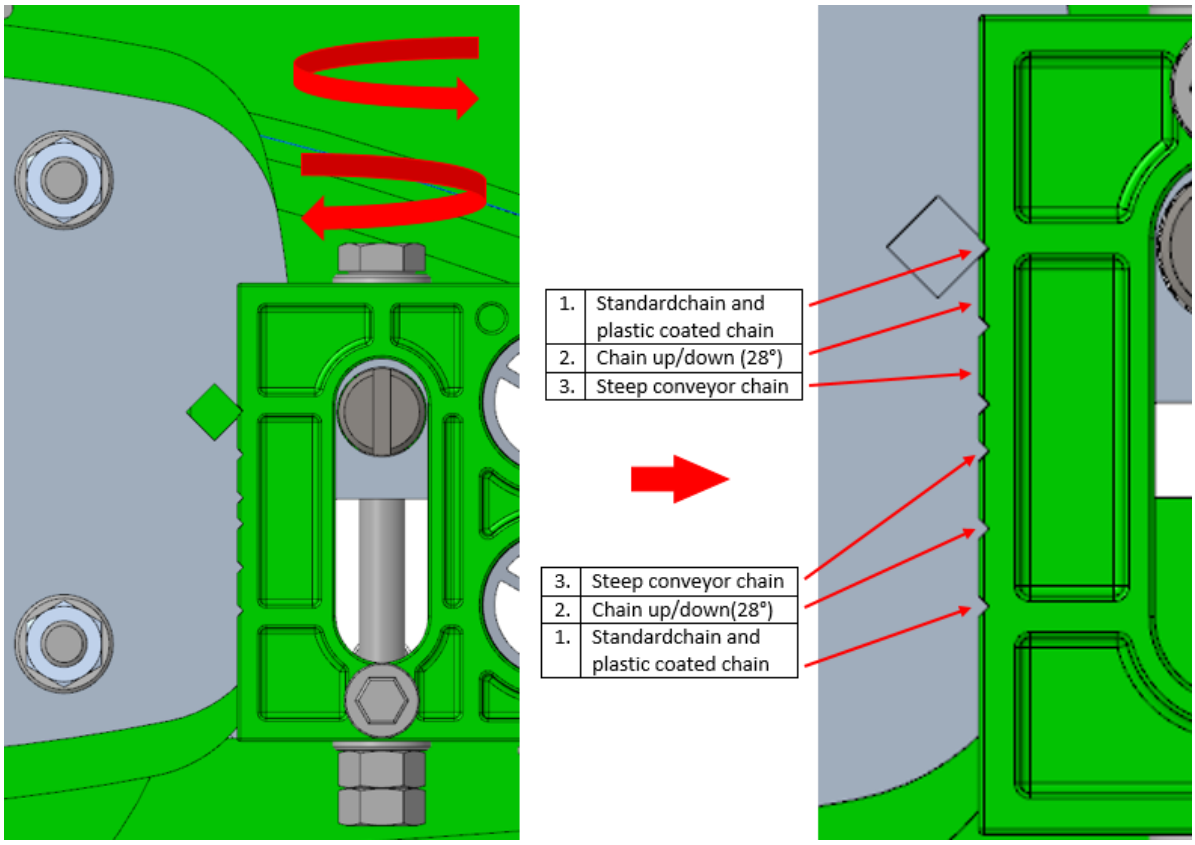


Fig. 9

The scale which is closer to the upper chain is always decisive. The upper chain is always the chain which picks up and transports the eggs.

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Important information!
The screws for adjusting the pressure piece are also accessible when the chain is already pulled in.
The rods should be in contact with the pressure piece but should not press on the plastic part. The pressure piece is not a chain tensioner!

Intermediate Drive 2.0 in a rising or falling section - Chain engagement at the top

If the Intermediate Drive 2.0 is used in a rising or falling section with chain engagement at the top, the small deflection must be used. (see fig. 10)

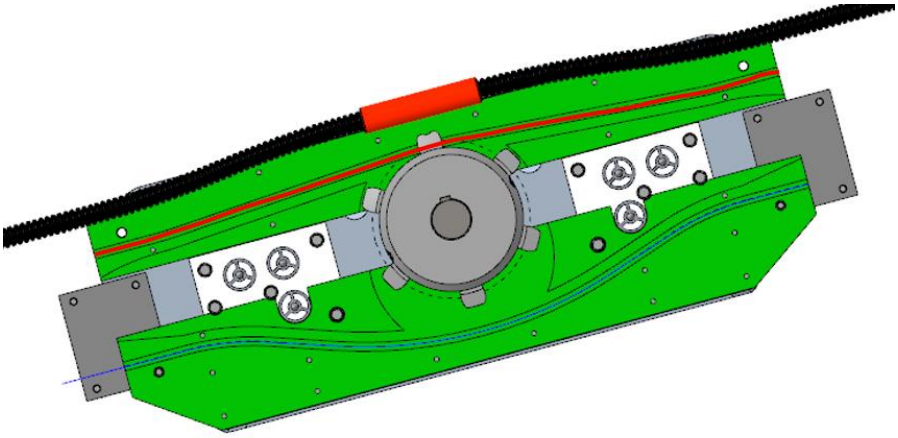


Fig. 10

In this case, a conversion of the drive shaft is required, since all intermediate drives are preassembled at the factory with engagement in the large deflection. The position of the drive shaft is changed by means of four screws. Screws 1 and 2 must be loosened, screws 3 and 4 must be completely dismantled. (see fig. 11)

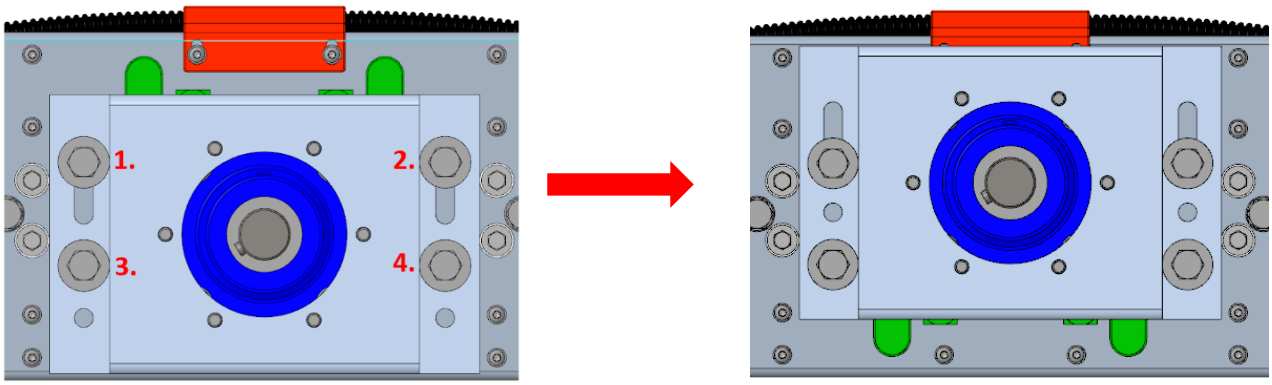
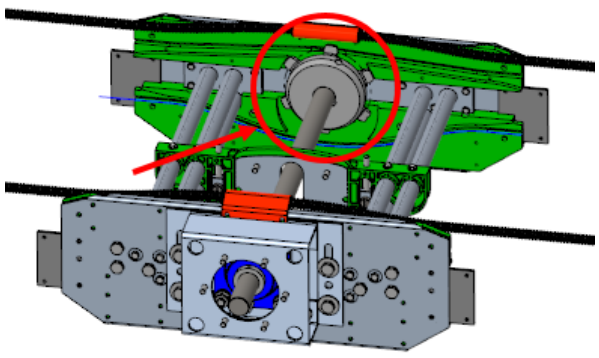
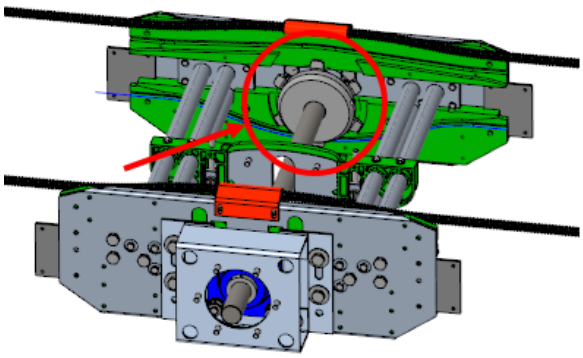


Fig. 11

Figure 11 shows an example of the process for one side of the drive. The process needs to be repeated analogously on the opposite side. The slotted hole serves as a guide when lowering the drive shaft. The result of the conversion is shown in figure 12.



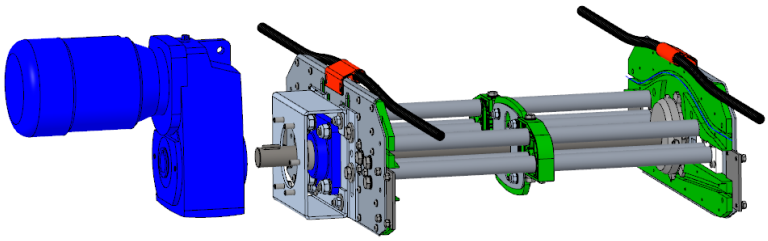
Chain engagement small deflection (top)



Chain engagement large deflection (bottom)

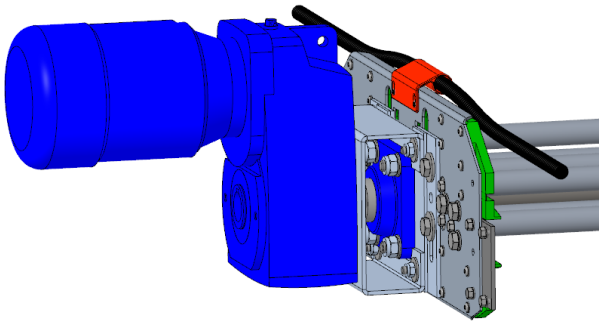
Fig. 12

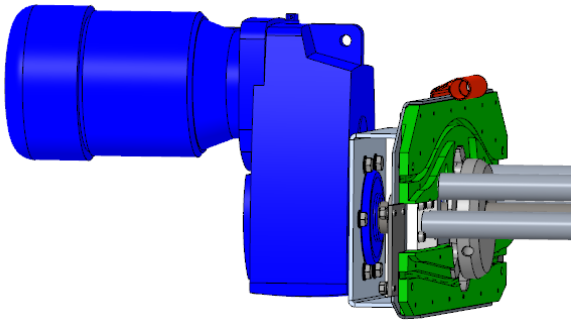
In the following, the mounting of the geared motor on the Intermediate Drive 2.0 is described. Please make sure that the parallel key has been inserted correctly into the drive shaft.



Step 1

Place the motor on the drive shaft. Ensure that the key and keyway are aligned.



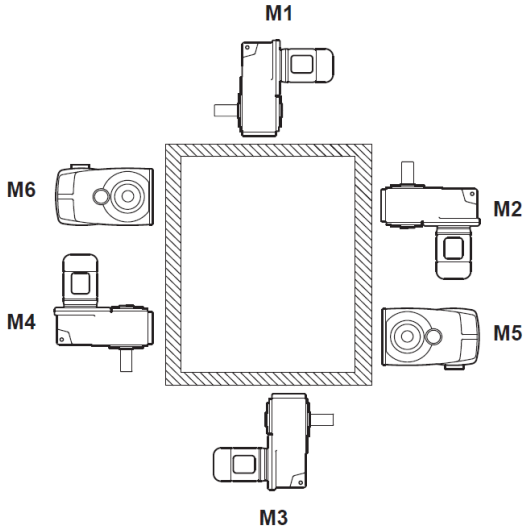


Step 2

Mount the motor to the torque support using the six hexagon head bolts.
Required tool: Open-end wrench SW13

HINT

Please pay attention to the correct installation position of the flat gear motor (M1) as shown in this instruction. From the technical point of view, it is possible to use different types of installation positions. In this case the position of ventilation screw as well as the amount of lubricant has to be adjusted. Please contact us if you need advice regarding this issue.



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⚠ ATTENTION

The flat gear motor is equipped with a ventilation screw. This ventilation screw grants pressure adjusting during operation. When delivered the ventilation screw is closed by a plug. This plastic plug has to be removed after installation and before starting the conveyor line. If the plug is not removed this can cause leakages. Leakages result from the fact of warming during operation. This causes an overpressure inside the flat gear motor. Oil loss can irreversibly damage the flat gear motor.

Ventilation screw with plug

Ventilation screw without plug