

KPM - RETROFIT
Description and mounting instruction

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1 Introduction

The Kollmorgen Positioning System Mechanic Kit (KPM) type <<RETROFIT>> is used for replacement of faulty belt drives from other manufacturers.

Mechanic-Kit construction:



Exchange system for:

Mechanik kit
type 10 / type 12
W+W Aufzugskomponenten

Toothed belt- mounting:

cabin

Encoder type:

absolute value

Encoder assembly:

cabin - guide rail in the headroom and schaft - pit

Assembly works by:

1 person

2 Safety Instructions

2.1 General Explanations



HAZARD

designates an immediately threatening danger for people's life and health.



WARNING

designates a possibly hazardous situation. There could be very serious injuries or death if this warning is ignored. It also warns about dangers to machines, materials or the environment.

2.2 Start up and Service



HAZARD

You are exposed to the dangers of getting crushed or caught in machines, the dangers from clothing and body parts getting drawn into rotating equipment components and dangers from falling off of objects during start-up and service work. Please comply with all safety regulations for installing lifts and take the appropriate safety precautions.



WARNING

Start-up work may only be done by persons who have acquired the capability due to the expertise they have acquired by vocational education, professional experience and recent work in this area.

Only use original parts from the mechanic kit.

Please follow all of the steps listed on start-up work.

3 Start-Up

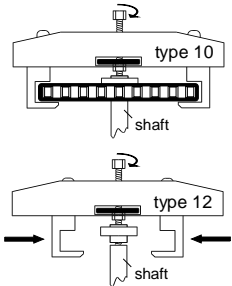
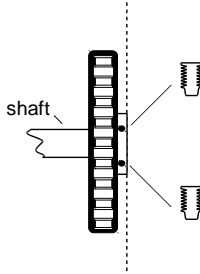
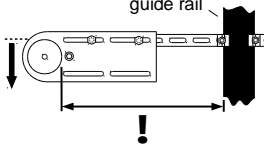
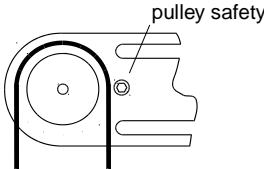
3.1 KPM RETROFIT Version



INSTRUCTIONS

The following steps describe how to install and start up the mechanic kit at the end of the car guide rail in the shaft headroom.

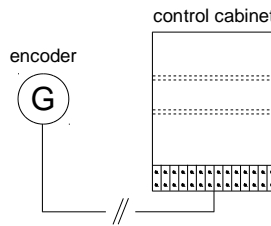
steps for start up	remarks	
<p>1 Compare the materials supplied with the attached parts list.</p>		
<p>2 Measure the distance between the pulley of the transmitter and guide rail. Note this value.</p>		
<p>3 Remove the jump protective of the toothed belt pulley of the transmitter and remove the belt from the pulley.</p>		<p>Installation instruction: Make sure that the belt can not jump out from the pulley in the shaft pit during the exchange of the encoder.</p>
<p>4 Fasten the belt at a suitable location so that it does not fall into the elevator shaft.</p>		

steps for start up	remarks	
<p>5 Disconnect the data cable from the transmitter and unscrew the bracket of the encoder of the C-rail.</p>		
<p>6 Loosen the two grub screws on the belt pulley.</p>		
<p>7 Pull the belt pulley from the shaft of the encoder. To do this, center the included puller over the pulley and turn the hex screw clockwise against the shaft of the encoder.</p>		<p>Installation Instruction: Place the appropriate diameter for the belt pulley by moving the two holding jaws of the puller.</p> <p>Encoder pulley diameter:</p> <ul style="list-style-type: none"> • type 10: 150 mm • type 12: 80 mm
<p>8 Install the belt pulley on the encoder and tighten the two grub screws with 1,5 Nm.</p>		<p>Note that:</p> <ul style="list-style-type: none"> • the belt pulley is flush with the encoder shaft. • the screws are tightened into the center holes.
<p>9 Install the Bracket plate of the new encoder to the C-profile rail.</p>		<p>Installation Instruction: Make sure that the transmitter is located below the C-profile rail. Position the bracket so that the distance between the pulley of the transmitter and the guide rail, has the same distance from step 2.</p>
<p>10 Remove the fixing of the toothed belt from Step 4 and you put the belt on the belt pulley.</p>		
<p>11 Mount the bounce protection of the belt pulley.</p>		

steps for start up

remarks

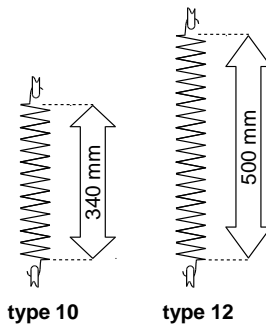
12 Replace the data cable of the old encoder against the supplied data cable.



Installation Instruction: Do not use the old data cable. Always replace the complete data cable. Connect the new data cable according to the attached sheet of the encoder.

13 Check the tension of the spring. Correct, if necessary, the spring tension to a value of:

- type 10: 340 mm
- type 12: 500 mm



Installation Instruction: When installing the sensor in the shaft pit, the spring tension has the value of:

- type 10: 370 mm
- type 12: 550 mm

14 Follow instructions of commissioning the APS System and make a new learning travel and set the leveling.

Check before test travel, that:

- the toothed belt is on both pulleys.
- the toothed belt is not twisted and does not touch any part of the elevator.
- the spring is stretched to the correct length.