

# Peignen

with device series

## Door control unit

## TSG

**Documentation history**

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Fordern Sie die Umbauanleitung **auf Deutsch** an, indem Sie den QR Code einscannen.

Demandez les instructions d'instruction de montage **en français**, en scannant le code QR.

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# **1 Essential information**

## ***1.1 Value of assembly instructions***

The product assembly instructions are provided by the manufacturer or supplier to provide the information required by the customer or fitter to ensure proper, safe and reliable assembly. These brief assembly instructions serve to clarify the basic steps of mechanical assembly. The electrical connection, commissioning and settings of the TSG are explicitly not part of these instructions.

## ***1.2 Copyright protection***

We reserve all rights for this technical documentation. It may not be duplicated, made accessible to third parties or otherwise used in an unauthorised manner without our prior consent. Any changes require our explicit and prior written consent.

## ***1.3 Instructions in the assembly manual***

All instructions in the assembly manual must be followed without exception.

## ***1.4 Informal activities performed by the fitter***

The system fitter is personally responsible for participating in a training course. He or she must inform the manufacturer/supplier without delay of any missing or defective parts in the delivery.

## ***1.5 Requirements for assembly personnel***



Persons responsible for installation and maintenance must be instructed regarding generally applicable safety and labour health requirements. They must be familiar with Langer&Laumann products. Installation tools must be fully functional and measuring instruments must be subject to continuous monitoring.

## 2 Activity performed

Replacement of the Peignen door operator with a  **Langer & Laumann Ing. Büro GmbH TSG door operator.**

The purpose of the conversion is to replace the existing Peignen drive with a TSG drive.

## 3 Advantages

- Very economical package.
- Quick and easy replacement of the existing door operator with a TSG from  **Langer & Laumann Ing. Büro GmbH .**
- **Just a few** mechanical attachments are required.
- All necessary parts are included with delivery.
- Conversion can be performed **very quickly** and **easily**.
- The electrical wiring can also be performed by **less experienced fitters**.
- **No hand-held** terminal is required for setting parameters. All parameters can easily be adjusted on the device.
- **Measurements can be performed very easily**.
- The conversion kit is available from  **Langer & Laumann Ing. Büro GmbH** as **warehouse inventory**.

## 4 Tools required

Metal drill bits 6, 9, and 11 mm  
 Fork wrenches size 8, 10, 13, 17  
 Screwdriver  
 Side cutter

## 5 Parts list

Item	Article number	Name	Quantity
1	1.20.31250	TSG motor support Peignen	1
2	1.20.31260	TSG support for opposite side Peignen	1
3	1.20.31270	TSG door panel carrier part 1 Peignen	1
4	1.20.31275	TSG door panel carrier part 2 Peignen	1
5	1.20.31280	TSG support for counter roller Peignen	1
6	1.20.31290	TSG clamping latch Peignen	1
7	8.20.40000/1	Motor, Large Left/Right and gearbox 24V/2.8A/1:15	1
8		Various screws, washers, nuts	1
9	8.20.00101	TSG electronics in housing	1
10	1.20.31210	Documentation for conversion to Peignen	1
11	1.20.91000	TSG manual	1

## 6 Conversion instructions



**NOTE:**

The order of assembly listed here is simply a recommendation. There is no claim of completeness.

1. Disassembly of the existing compressed air operated drive. The compressed air hoses are no longer needed. The control line for switching the valves is required after the conversion to generate commands for opening and closing on the TSG.
2. Assembly of the TSG drive in the motor support.
3. Assembly of the TSG counter roller with clamping station on support.
4. Assembly of the TSG toothed belt lock on the TSG door panel carrier.
5. Assembly of the TSG drive with support on the opening side in the door frame. Make certain the TSG drive is positioned as far out as possible.
6. Assembly of the TSG counter roller including the clamping station on the opposite side in door frame. Make certain the distance from the toothed wheel to the door frame is equal to the distance from the toothed wheel to the drive.
7. Assembly of toothed belt lock with door panel carrier on the door panel support. The toothed belt lock must be positioned at the height of the toothed belt or toothed wheels (must line up). It may be necessary to shorten the door panel carrier appropriately.
8. Set the toothed belt in place. Check the travel path.
9. Normally there are fixed end stops on the existing door on the opening side and on the closing side. The end stops must be correctly adjusted so that the door can move to the stops. If there are no fixed stops present, they must urgently be retrofitted.
10. Measure the TSG electronics unit. Make certain there is a fixed stop in both the open and closed positions. For the remainder of commissioning and electrical connection process, please refer to the TSG manual.

## 7 Illustrations



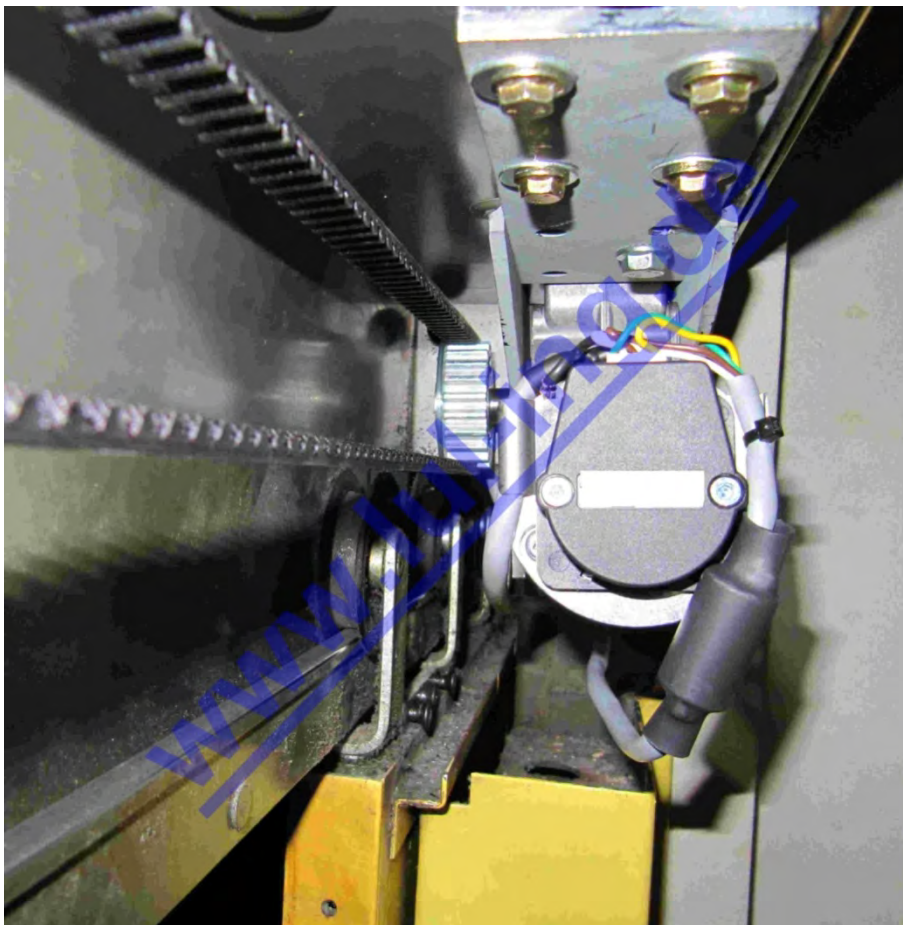
Fig. 1: Peignen shaft door - outside view



Fig. 2: Peignen: Old door drive after removal



**Fig. 3: TSG in Peignen shaft door - motor support**



**Fig. 4: TSG in Peignen shaft door - motor support**





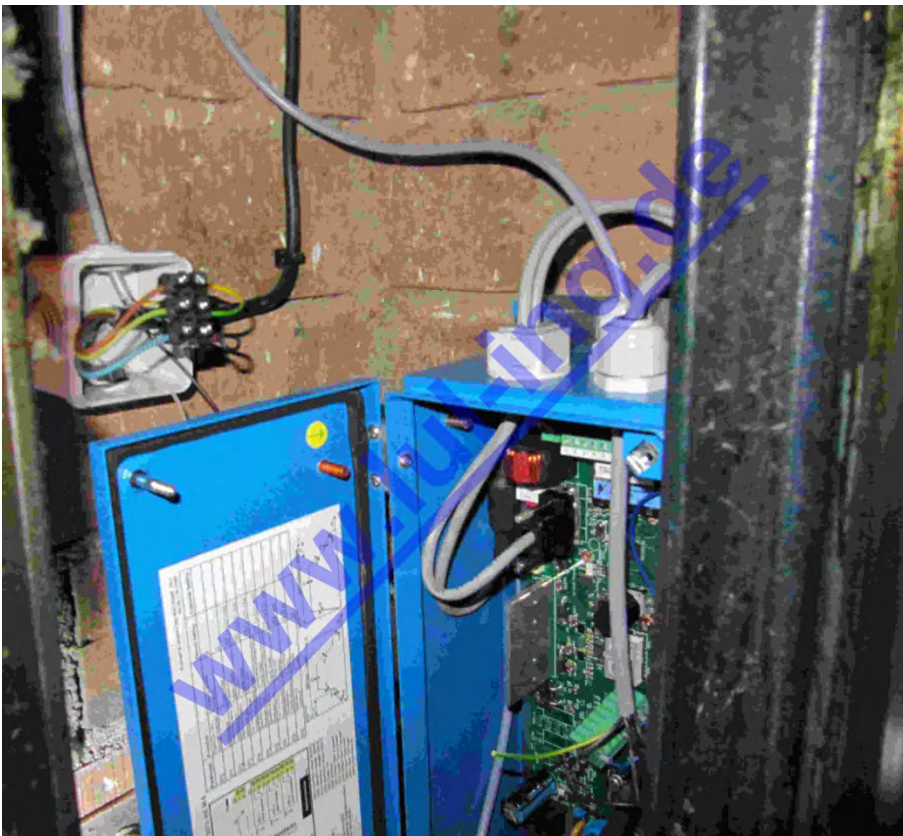
Fig. 5: TSG in Peignen shaft door - counter roller support with clamping station



Fig. 6: TSG in Peignen shaft door - door panel carrier



**Fig. 7: TSG in Peignen shaft door - fastening for TSG electronics in the shaft**



**Fig. 8: TSG in Peignen shaft door - fastening for TSG electronics in the shaft**



**Fig. 9: TSG in Peignen car door - motor support**

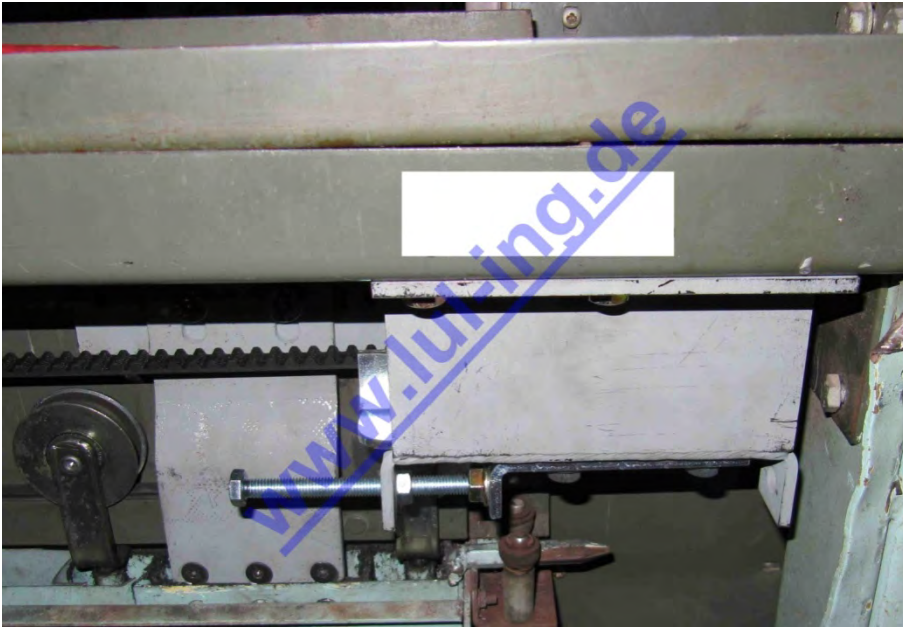


Fig. 10: TSG in Peignen car door - counter roller support



Fig. 11: TSG in Peignen car door - door panel carrier

## 8 Contact

If you have questions or are not certain about something, we can be reached at the following address:

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