

# Installation Instructions

Thyssen F9

door operator

conversion

**Documentation history**

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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 and to highlight the main differences in door cross-bar for door variants with 2 panels, telescoping and 2 panels central. 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 Thyssen F9 door drive with a  **Langer & Laumann Ing. Büro GmbH TSG 400 door drive with toothed belt drive.**

## 3 Advantages

- Very **economical** package
- Replacement of faulty electronics or motor with TSG400 from  **Langer & Laumann Ing. Büro GmbH**
- **Just a few** mechanical attachments are required
- All materials required are included with the conversion package
- The conversion is **very quick** and **easy** to perform
- 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 generally available as **warehouse inventory**

## 4 Conversion instructions

1. Remove the old drive.
2. Solve the existing belt.
3. The complete drive unit with pulleys to the new exchange.
4. The old toothed belt tension again and mount the motor brackets Langer & Laumann.
5. Endless toothed belt and motor mounting and clamping.
6. Track control.
7. TSG calibrate electronics. It should be noted that both in the open and in the closed position, a fixed stop is present. For further commissioning and electrical connection is made at this point to the manual of the TSG.

## 5 Illustrations



Fig. 1: ThyssenF9 before conversion

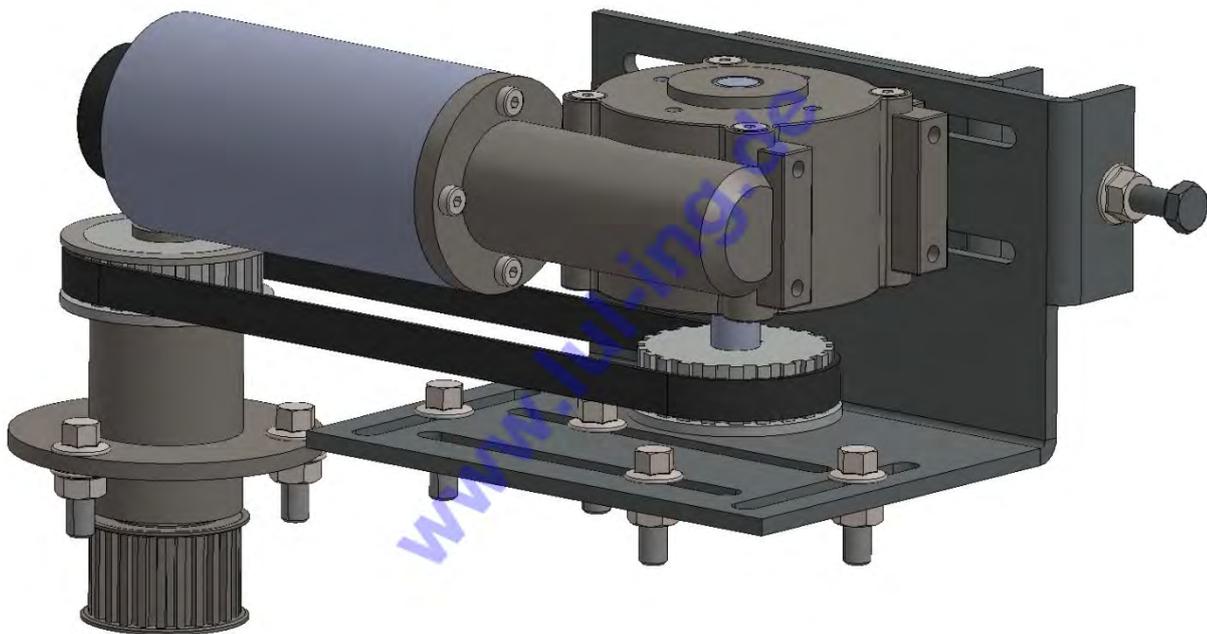
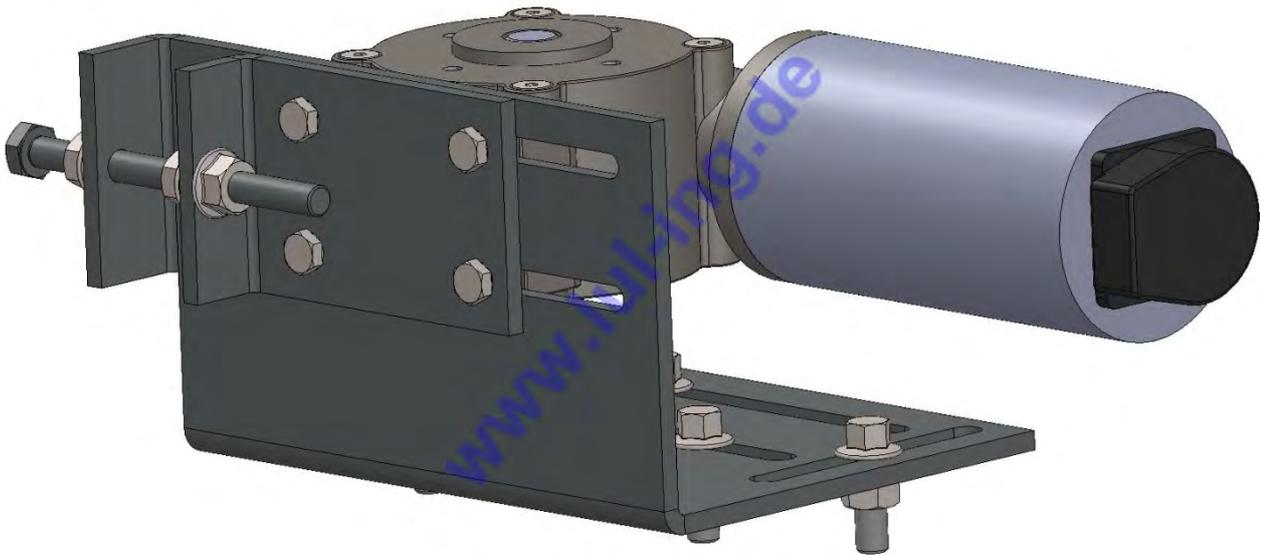


Fig. 2: Thyssen F9 after conversion with TSG



**Fig. 3: Thyssen F9 after conversion with TSG**

## Contact

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

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