

# Installation instructions

## Sematic 900H - CT

with device series

door operator

TSG

**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. 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 unauthorized 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 Sematic 900H – CT door drive with a  **Langer & Laumann Ing. Büro GmbH TSG door drive.**

## 3 Advantages

- Very economical package.
- Quick and easy replacement 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  
Allen wrench set  
Screwdriver  
Side cutter

## 5 Conversion instructions



**NOTE:**

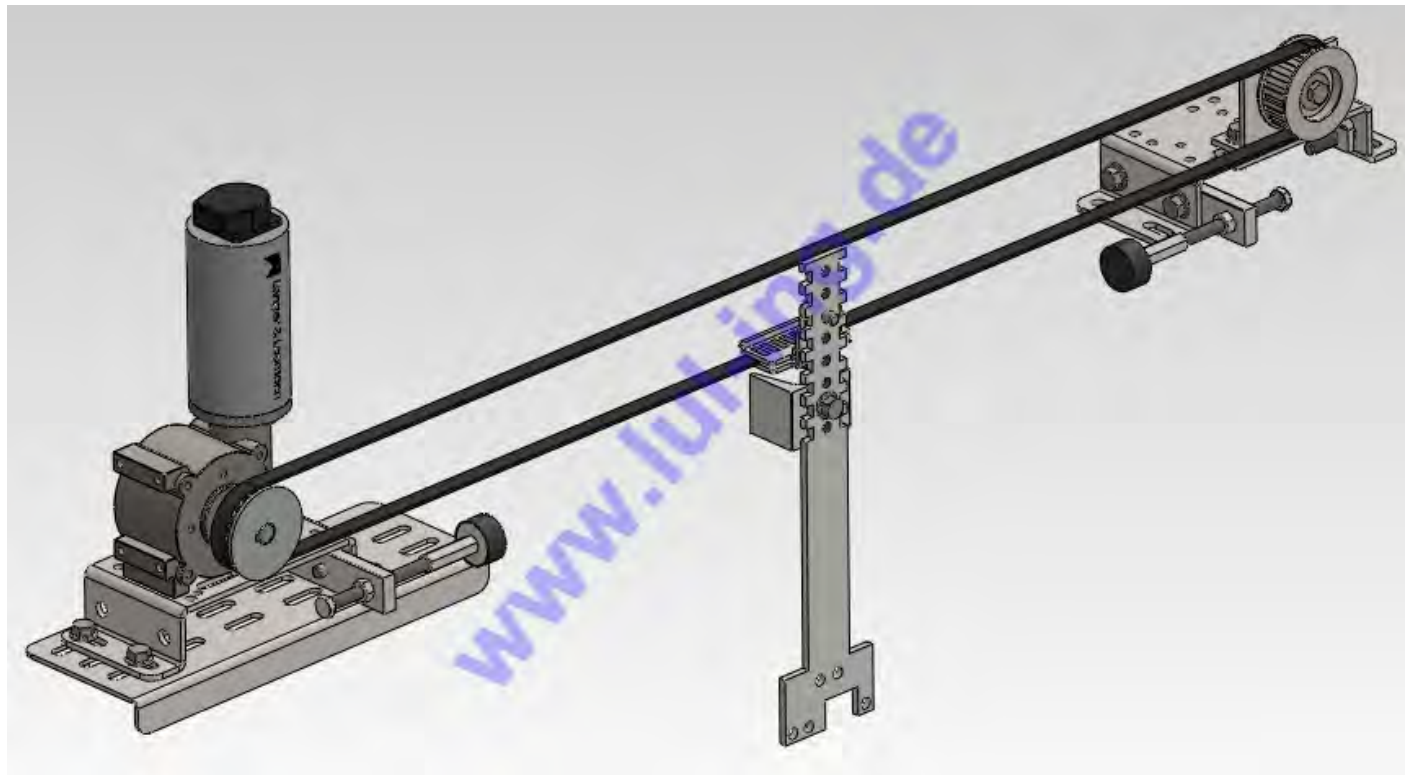
The order of assembly listed here is simply a recommendation. There is no claim of completeness.

1. Removal of the existing drive motor. **The 2:1 transmission ratio between the door panels must remain intact.** Previously installed limit switches can be eliminated and replaced by our simulated limit switches (floating changeover contacts).
2. Assembly of the "hat" combination bracket with the motor and buffer-type stop on the door machine (see Fig. 4: TSG drive side / page 9). The TSG drive can be mounted on the left or right side of the door machine.
3. Assembly of the "hat" combination bracket with the counter roller and buffer-type stop on the door machine (see Fig. 2: Sematic 900H – CT overview / page 7).
4. Set the TSG toothed belt in place, connect it with the TSG toothed belt lock and clamp it. The bottom of the toothed belt must be parallel to the running rail.
5. Assembly of the door panel coupler at the fast panel (see Fig. 10: TSG door panel coupler / page 12, Fig. 11: TSG door panel coupler / page 13).
6. For electrical commissioning see the TSG operating instructions.

## 6 Illustrations

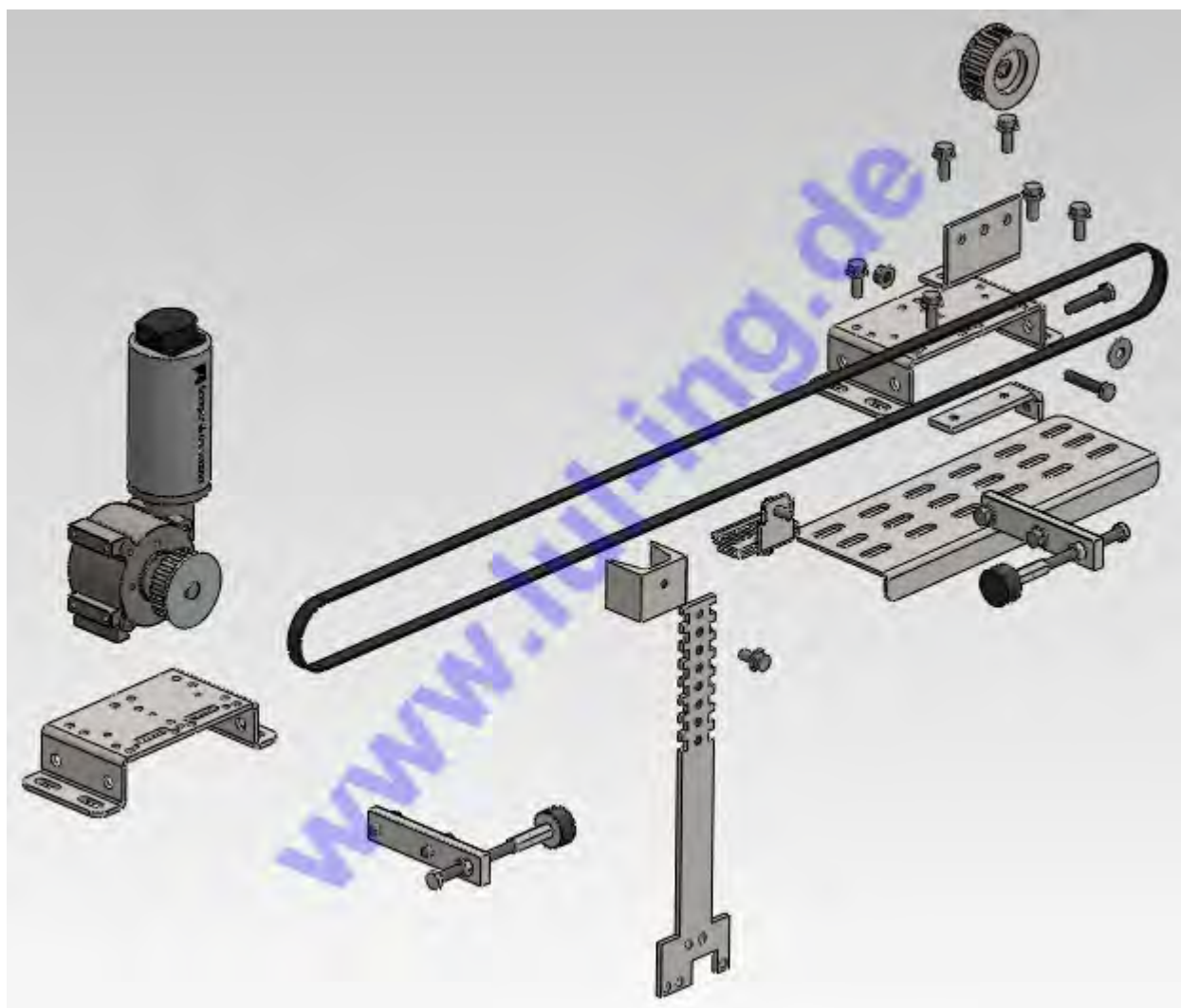


**Fig. 1: Sematic 900H – CT before conversion**



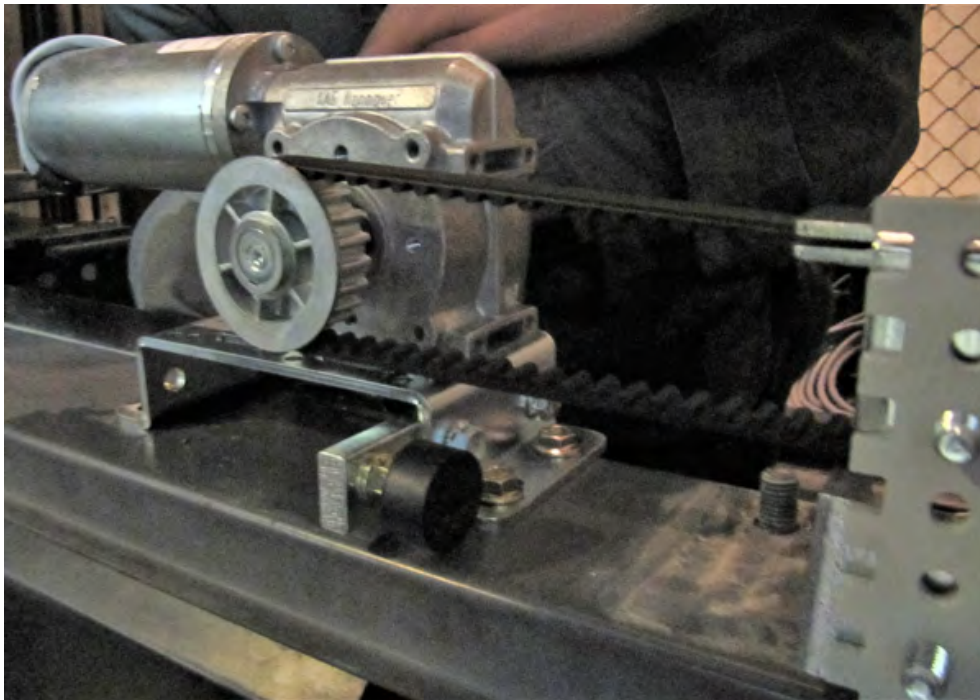
**Fig. 2: Sematic 900H – CT overview**



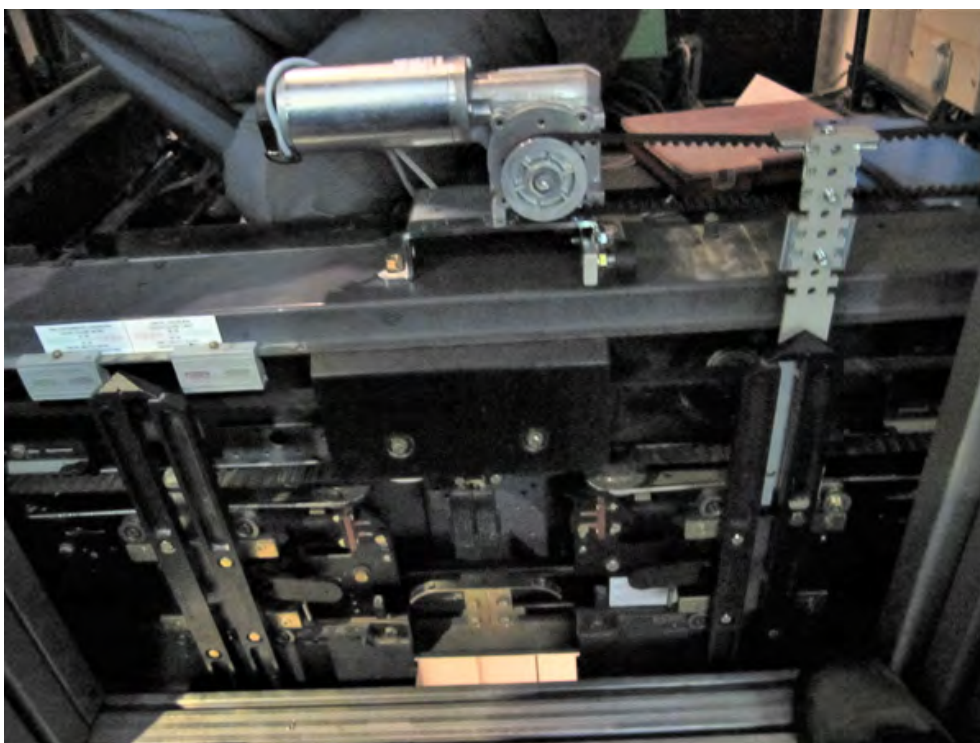


**Fig. 3: Sematic 900H – CT exploded drawing**

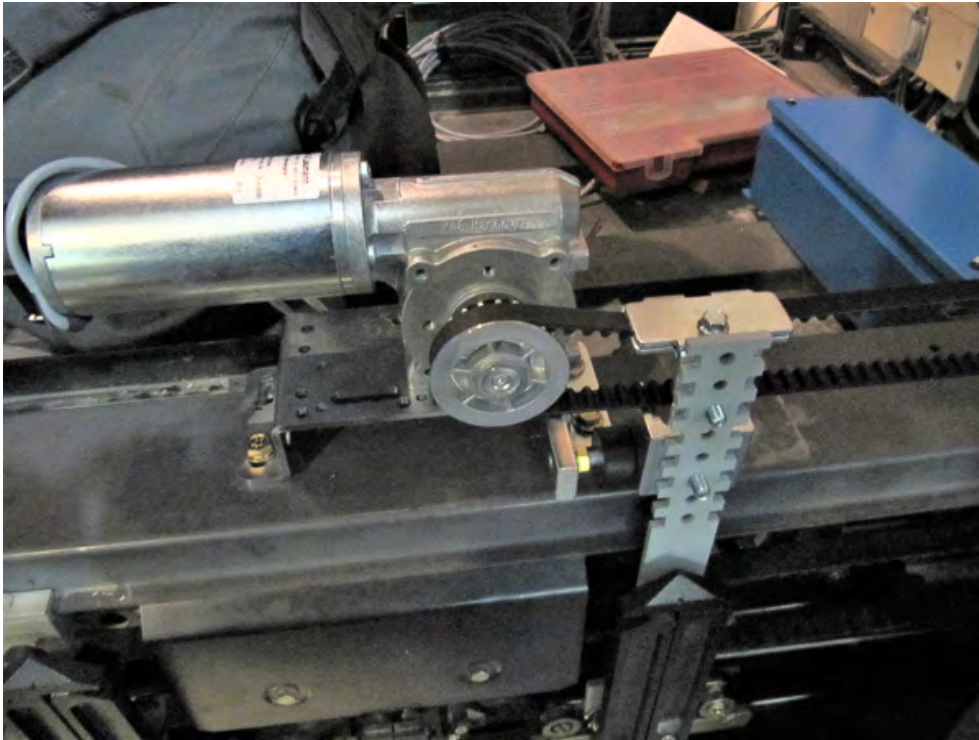




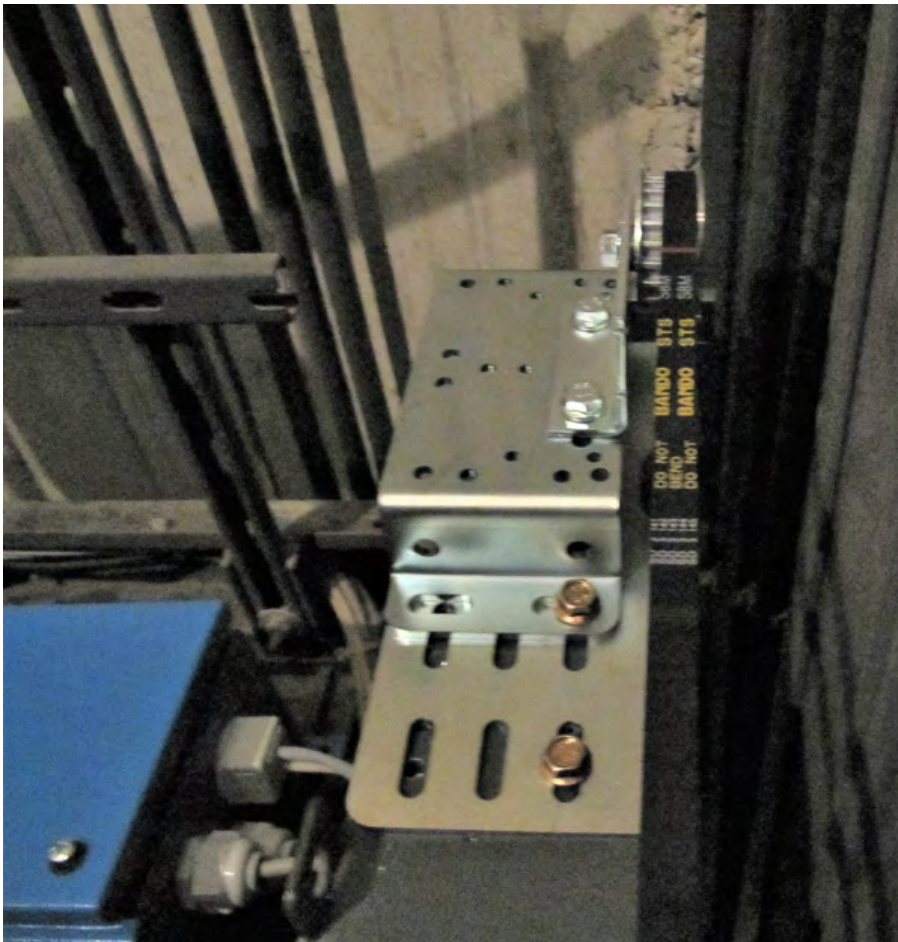
**Fig. 4: TSG drive side**



**Fig. 5: TSG drive side**

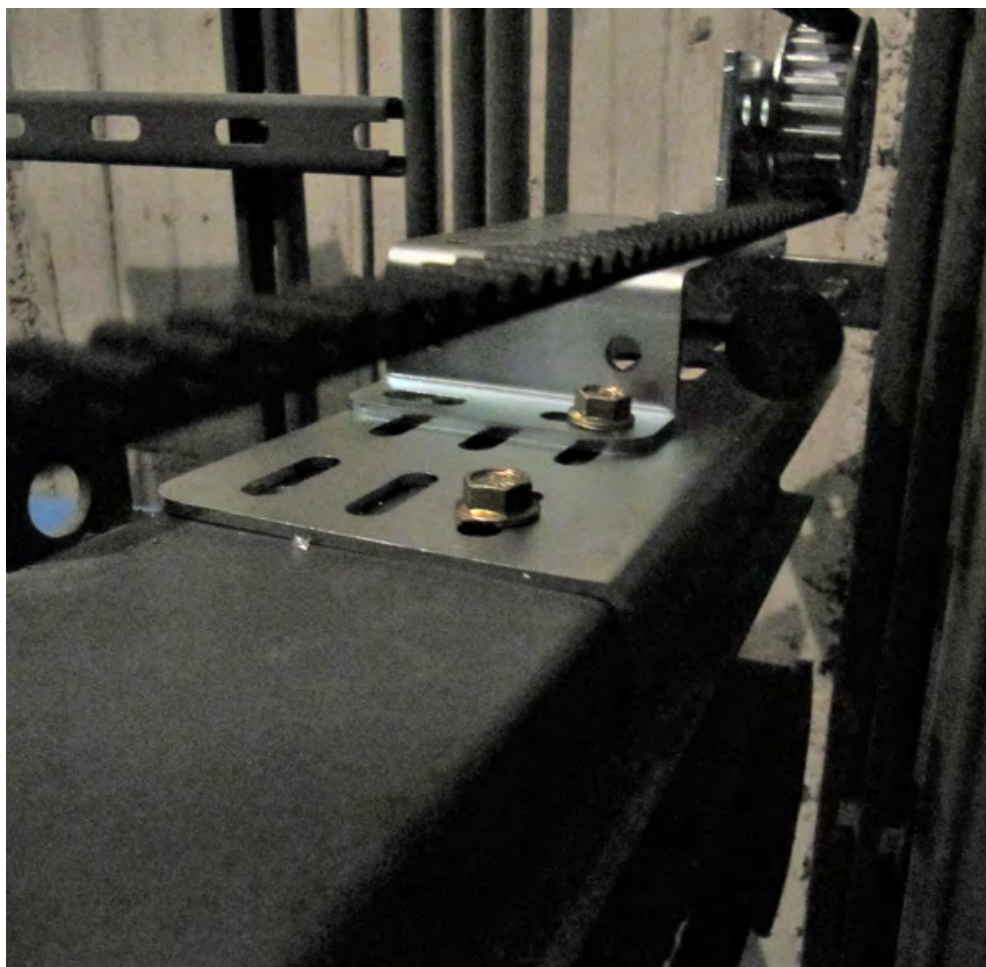


**Fig. 6: TSG drive side**



**Fig. 7: TSG counter side**





**Fig. 8: TSG counter side**

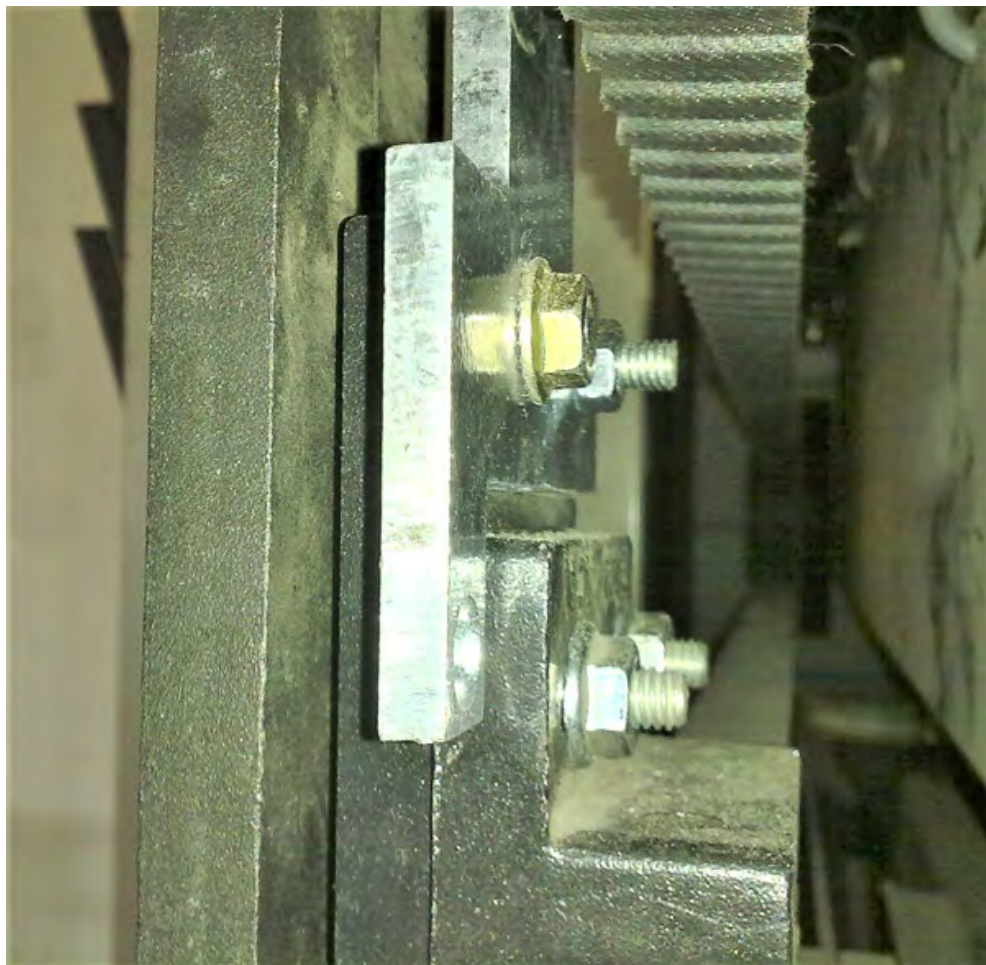


**Fig. 9: TSG counter side**



**Fig. 10: TSG door panel coupler**





**Fig. 11: TSG door panel coupler**

## 7 Contact

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

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