

Conversion instructions

Otis Vertica

with device series

Door control unit

TSG

Documentation history

No.	Ver.	Date	Processed by
1	1.0	15.02.13	RAU
2	1.1	15.05.13	RAU
3	1.2	03.12.15	JE
4	1.3.	30.12.19	CSA



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.

Langer & Laumann Ing.-Büro GmbH
Wilmsberger Weg 8
48565 Steinfurt
Germany

Phone: +49 (2552) 92 7 91 0

E-mail: info@LuL-Ing.de

Web: www.LuL-Ing.de

© 2019 Langer & Laumann Ingenieurbüro GmbH All rights reserved

All rights for these operating instructions and the product described therein are reserved for **Langer & Laumann Ingenieurbüro GmbH** or their suppliers. In accordance with the laws of copyright protection, these operating instructions may not be copied in whole or in part without written approval of **Langer & Laumann Ingenieurbüro GmbH**, except as part of normal use of the product or to create a back-up copy. However, this exceptional provision does not extend to copies created for third parties or that are sold or transferred to third parties in any other manner. The whole of the material acquired (including all back-up copies) may, however, be transferred to third parties or made available on loan. According to the provisions of the law, preparing a translation also falls under the definition of copying.

Langer & Laumann Ingenieurbüro GmbH assumes no warranty or guaranty for the content of these operating instructions. It declines any legal guaranty regarding the marketability or suitability for a specific purpose. Langer & Laumann Ingenieurbüro GmbH is not responsible for errors in these operating instructions or for direct or indirect damages associated with delivering, performing or using these operating instructions. Langer & Laumann Ingenieurbüro GmbH reserves the right to revise these operating instructions from time to time without advance notification and to make changes to the content.

File: 1.20.91916_Umbauanleitung_Otis_Vertica_auf_TSG_V1.3_en.docx
 Printing date: 12/30/2019 11:33:00 AM

Table of contents

1	Essential information _____	4
1.1	Value of assembly instructions _____	4
1.2	Copyright protection _____	4
1.3	Instructions in the assembly manual _____	4
1.4	Informal activities performed by the fitter _____	4
1.5	Requirements for assembly personnel _____	4
2	Activity performed _____	5
3	Advantages _____	5
4	Tools required _____	5
5	Conversion instructions _____	6
6	Illustrations _____	7
7	Contact _____	11

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 Otis Vertica door drive with a  **Langer & Laumann Ing. Büro GmbH TSG door drive.**

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

3 Advantages

- Very economical package.
- Quick and easy replacement of the existing door drive 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 Conversion instructions



NOTE:

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

1. Disassembly of the existing drive.
2. Dismantling the present gear of the drive shaft
3. Assembly of the new belt pulley on the drive shaft.
4. Assembly of the TSG drive on the motor mount.
5. Assembly of the TSG drive unit on the door machine.
6. Set the TSG toothed belt in place. Use the clamping station to tension the toothed belt.
7. Position the end stops or buffer stops.
8. Check the travel path.
9. 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.

6 Illustrations



Fig. 1: OtisVertica before conversion



Fig. 2: OtisVertica before conversion



Fig. 3: counterweight

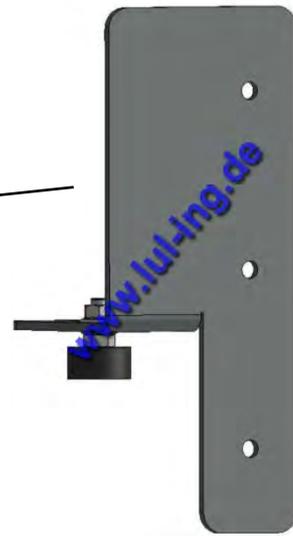


Fig. 4: Buffer door "open"



Fig. 5: TSG drive unit from the rear

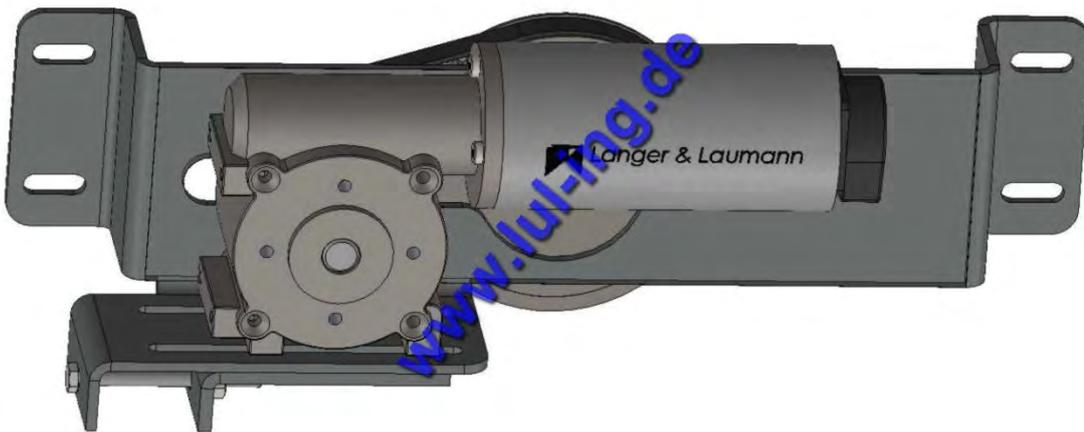


Fig. 6: TSG drive unit from the front



Fig. 7: TSG drive unit from the top



Fig. 8: overall view

7 Contact

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

Langer & Laumann Ing.-Büro GmbH
Wilmsberger Weg 8
48565 Steinfurt
Germany

Phone: +49 (2552) 92 7 91 0

E-mail: info@LuL-Ing.de

Web: www.LuL-Ing.de