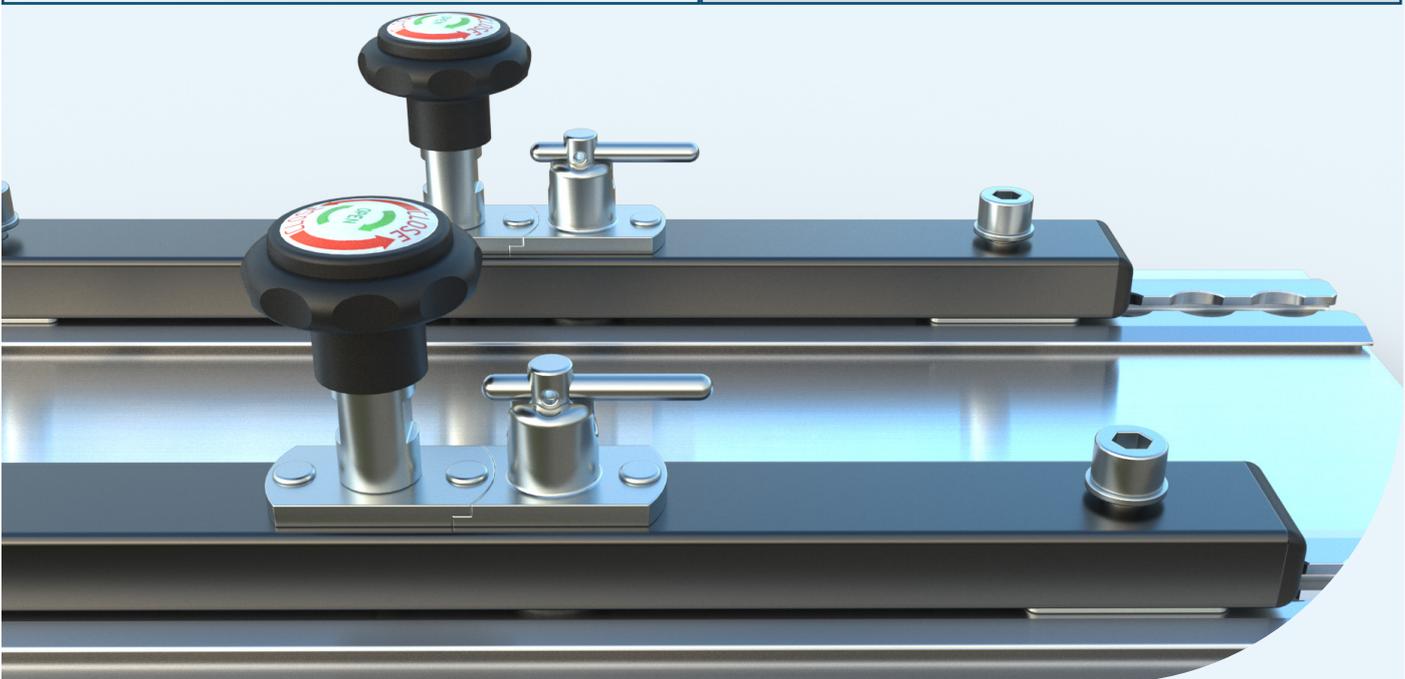
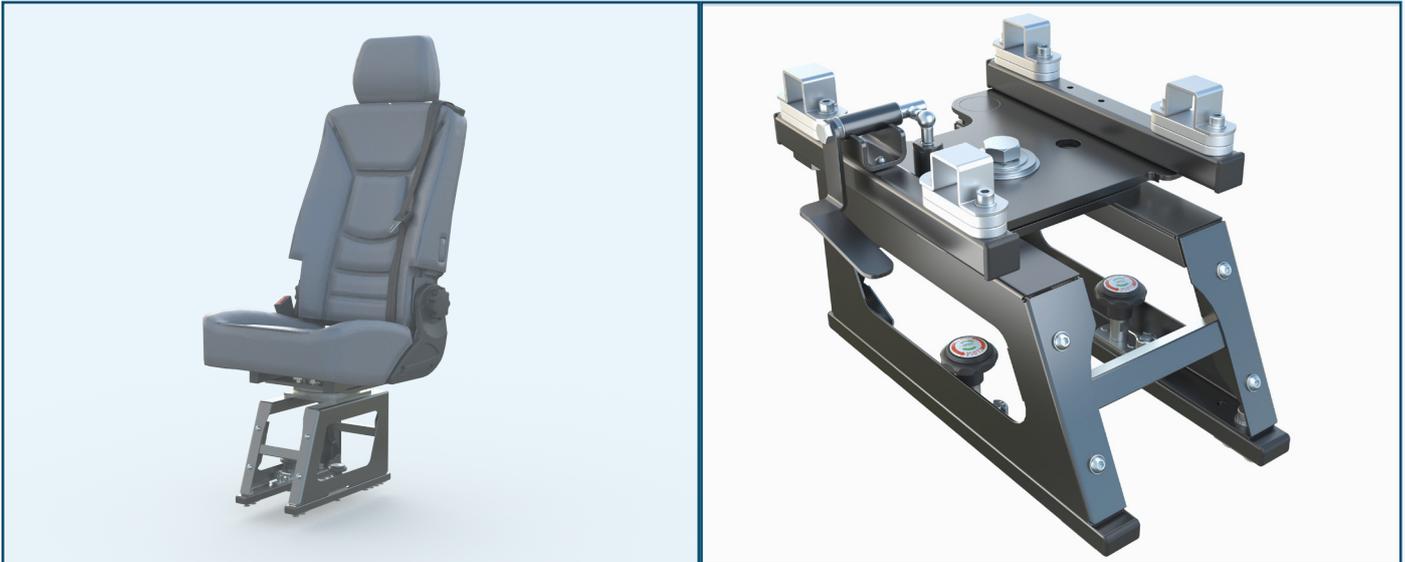


# Installation & User Manual

## General view of The Sliding Rotating V-Leg with lockables



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## Foreword

Dear reader,

These Installation Instructions serve to provide all information required for a correct and safe installation of the Sliding Rotating V-Leg. The Sliding Rotating V-Leg is designed and constructed in accordance with state-of-the-art technology and recognised safety standards.

This document must not be reproduced or duplicated, in full or in part, without the prior, written permission of the manufacturer.

### Guarantee

Use only original spare parts, hardware or spare parts which have been approved of by the manufacturer.

If spare parts other than these are used, this can have a negative effect on the specified characteristics, the functionality and safety of the Sliding Rotating V-Leg. Using non-original or unauthorised spare parts will render the guarantee null and void.

Contact us to order spare parts or accessories.

## 1. Safety

### Explanation of symbols and signs

To improve understanding, the following conventions should be met for these instructions:



**DANGER!**

Warns of a situation of immediate danger, which will lead to severe or fatal injuries if not avoided.



**WARNING!**

Warns of a potentially dangerous situation, which will lead to severe or fatal injuries if not avoided.



**CAUTION!**

Warns of a potentially dangerous situation, which will lead to slight or minor injuries or material damage if not avoided.



**ATTENTION!**

Indicates a potentially dangerous situation, which can cause material damage if not avoided.



Gives a reference to important information in other sections and documents.



Contains general notes and useful information.

## 1. Safety

The installation company itself is responsible for adherence to the safety regulations when installing the Sliding Rotating V-Leg. Installation is carried out at the sole risk installation company.

The manufacturer will accept no liability whatsoever for damage caused during installation of the Sliding Rotating V-Leg.

Unless such damage is caused by grossly negligent or intentional breach of contract on the part of the manufacturer.

In addition to the information given in these installation instructions, local legislative regulations must be taken into consideration, in particular those regarding safety and accident prevention.

### 1.1 Intended use

The Sliding Rotating V-Leg described in this manual is only intended for seating.

Intended use also requires that:

- All data in this manual is observed and understood.
- All safety instructions are observed and understood.



*Incorrect installation of this product can lead to damage or even personal injury!*

This product may not be used when:

- Any malformation to the product or damage have been discovered.
- Product parts are incomplete.

### 1.2 Personnel requirements

The Sliding Rotating V-Leg must only be installed by trained, specialist personnel:

- Who have read and understood these installation instructions.
- Of whom it can be expected, that they will execute the job entrusted to them in a responsible and reliable manner.
- Who have been expressly assigned by the vehicle's owner to install the Sliding Rotating V-Leg.

## 2. Installation

### 2.1 Safety information for installation



**DANGER!**

Danger through use of unsuitable installation materials.  
Unsuitable installation materials are unable to withstand the traffic forces encountered during operation of the vehicle. Multiple risks of injury for passengers can arise as a result of this. Material damage can be caused. Therefore:

- Only use the installation materials provided for installation.



**DANGER!**

Danger through screws becoming loose.  
If screws are not tightened to the specified torque, they can become loose during operation of the vehicle. This can result in accidents being caused. Therefore:

- Tighten all fastening screws to the torque specified in section 2.5, page 8.



**ATTENTION!**

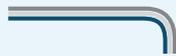
Material damage can be caused by incorrect installation. Therefore:

- Read these Installation Instructions thoroughly before installation, so that you are familiar with the entire installation procedure.

### 2.2 Checklist before installation

**Tools needed:**

1. Wrench/Torque wrench
2. Allen Key



**Installation materials:**

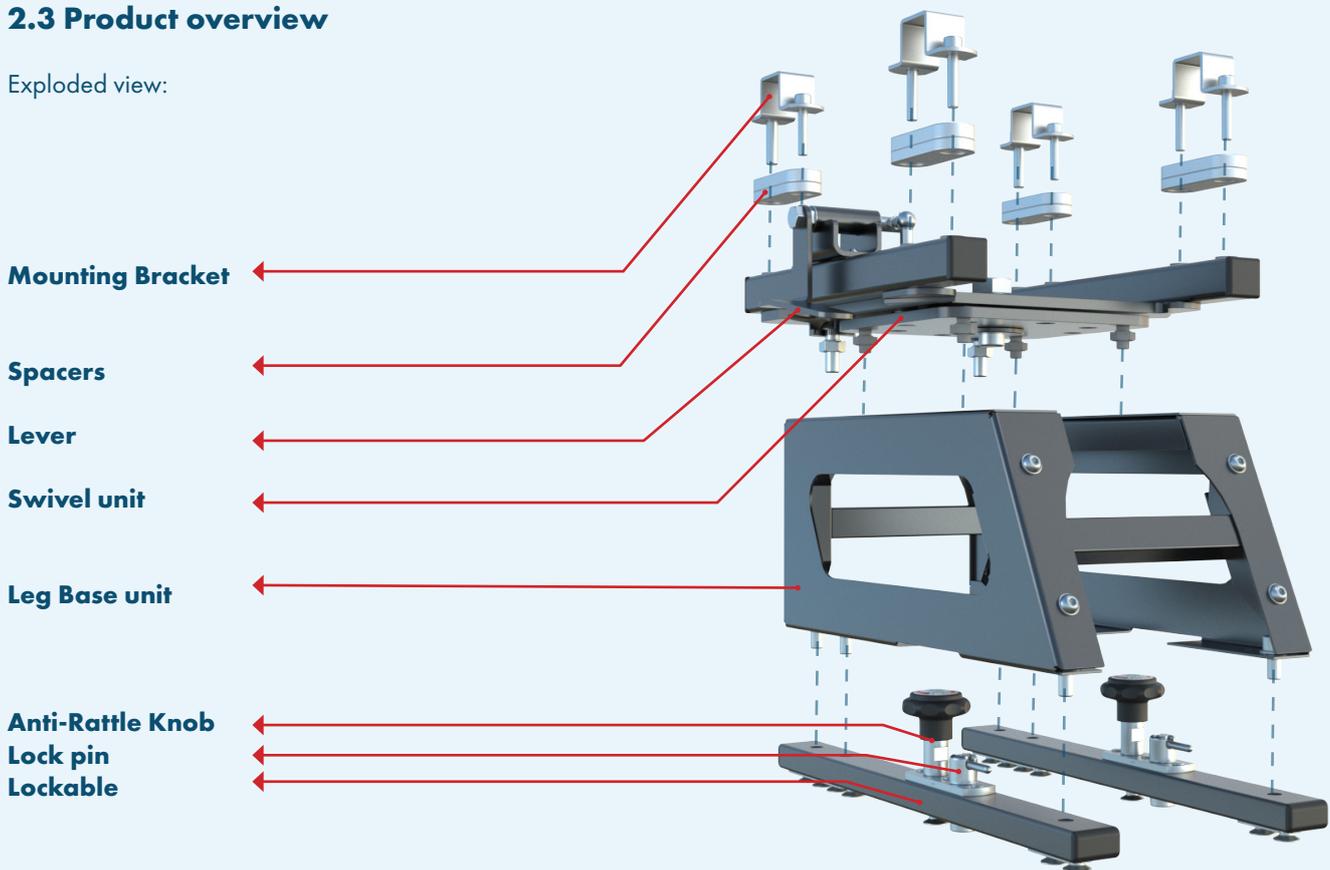
Before starting installation, check the completeness of the supplied installation materials according to the following list:

- 2 pieces of bolts M10 x 40 10.9 ( DIN 912 )
- 6 pieces of bolts M 8 x 40 10.9 ( DIN 912 )
- 4 pieces of mounting brackets
- 2 pieces of M10 washers
- 6 pieces of M8 washers
- 8 pieces of spacers ( spacer set )

**2. Installation**

**2.3 Product overview**

Exploded view:

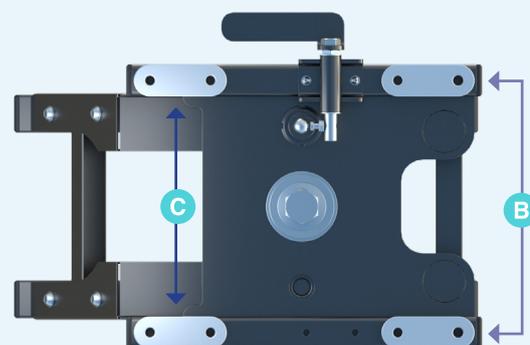
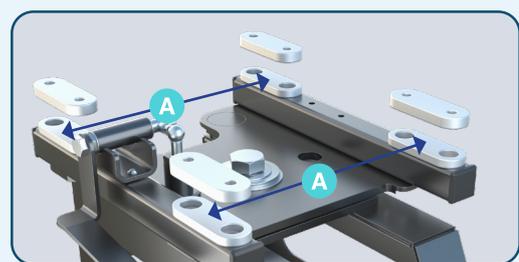


**2.4 Mounting instructions of the Sliding Rotating V-Leg**

1. Remove the seat cushion of the chair.

**Spacer placement**

2. Start by first placing the 4 spacers with the biggest hole sizes of  $\varnothing$  18mm on the 4 corners of the swivel plateau ( **A** ).
3. Place the 2 rear spacers with the uneven holes on the rear side corners and make sure that the bigger hole sizes of  $\varnothing$  10mm ( **B** ) are laying on the rear side.
4. Place the 2 remaining spacers with even  $\varnothing$  9mm hole sizes ( **C** ) on the front side.



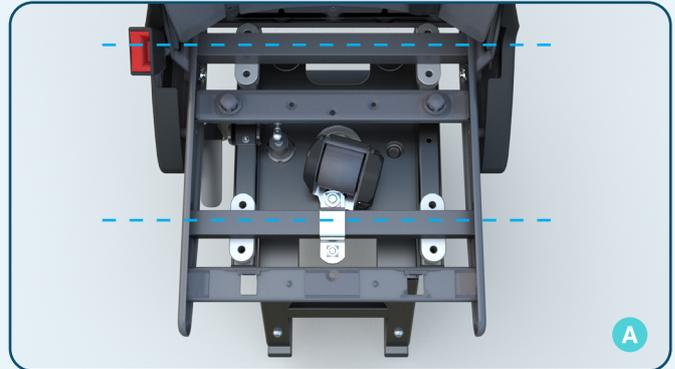
Top view swivel unit of the leg with spacers

**Seat placement**

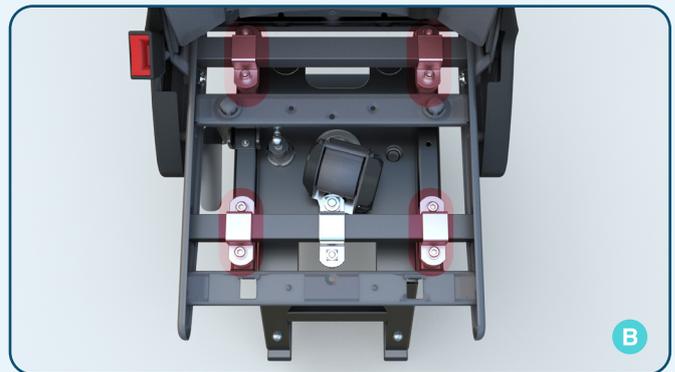
5. Place the 2 crossing bars of the seat on top of the 4 spacer positions as shown in the image on the right ( **figure A** ).
6. Place the 4 brackets over the 2 crossing bars of the seat frame on each swivel plateau corner ( **figure B** ).
7. Place all the washers and bolts on each bracket and make sure to use the 2 pieces of M10 bolts with M10 washers on the rear side.
8. Tighten all fastening screws to the torque specified in section 2.5.
9. Reassemble the seat cushion back on the chair.



Check the table below in [section 2.5](#) for the correct mounting adjustments.



Top view leg with spacers and seat on top



Top view leg with mounting brackets with seat

**2.5 Standard Threaded Steel Screws**

| Property Class   | 8.8            |                    | 10.9           |
|------------------|----------------|--------------------|----------------|
|                  | Steel in steel | Steel in aluminium | Steel in steel |
| Screw connection |                |                    |                |
| M6               | 10 Nm          | 7 Nm               | 15 Nm          |
| M8               | 25 Nm          | 18 Nm              | 36 Nm          |
| M10              | 50 Nm          | 30 Nm              | 72 Nm          |
| M12              | 85 Nm          | 50 Nm              | 125 Nm         |
| M14              | 135 Nm         |                    | 200 Nm         |
| M16              | 210 Nm         |                    | 310 Nm         |



The tightening torques specified here do not apply to the original vehicle-specific screws. All screws must be tightened to the standard tightening torques ( +/- 15% ).

If deviating tightening torques and tolerances are required for individual screws, a note to this effect will be included in the respective installation steps.

The specified tightening torques are recommendations. The company responsible for the conversion is also responsible for making certain that all screws are tightened to the correct tightening torque.

### 3. Operating instructions

#### 3.1 How to operate the Sliding Rotating V-Leg

##### Preparations & status check before placement

Check the status of all the operational parts if they are in proper position before installing the leg on the smartfloor.

1. Make sure that the Lockables are in unlocked position by turning both knobs clockwise ( **figure A** ) and pull up and turn both lock pin handles 90° degree inwards ( **figure B** ).
2. Check if the swivel unit is in locked position and if the seat does not turn.



Now the leg is ready for placement on the floor.

##### How to lock & secure the leg on the floor

1. Make sure that all the bolts underneath the lockables are in alignment with the openings of the airline rail ( **figure A** ).
2. Lower the leg into the rail through the openings of the rail.
3. Determine your position by sliding the leg along the rail.
4. Turn the handles of the lock pins 90° degree outwards in alignment with the lockables ( **figure B** ).
5. Slide the whole leg with seat forwards or backwards, until the lock pins fall down into one of the openings of the rail.



Now the leg is in locked position.

6. Secure and add more tension on the position by turning both knobs counter clockwise ( **figure C** ).



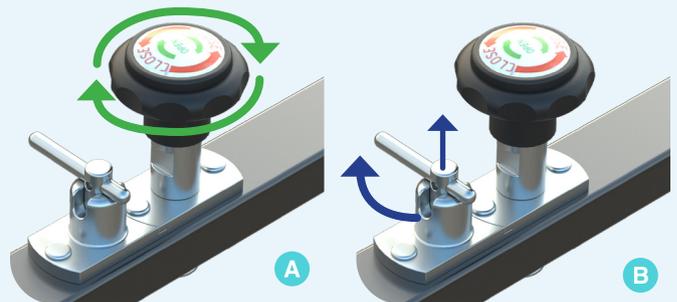
Now the leg is in locked and secure position and ready for operational use.

##### How to operate the leg with seat

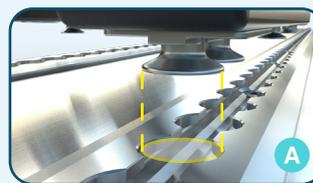
1. Pull the handle up to turn the seat 90° degree or more.
2. Start to turn and let go the handle until it locks.

##### How to detach the leg with seat from the floor

1. Unlock the anti-rattle knobs by turning it clockwise.
2. Lift up the lock pins and turn the handles 90° to the side.
3. Make a short movement with the chair along the rail, until the bolts underneath the lockables and the openings of the rails are corresponding.
4. Detach the chair from the floor by pulling up the whole chair out of the rails.

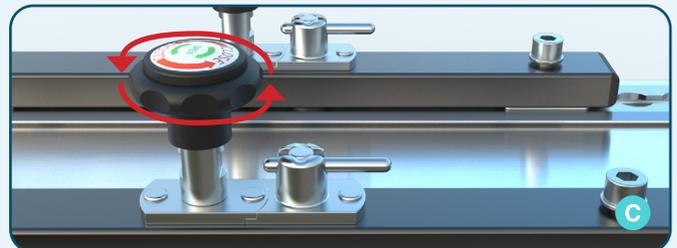


Lock & secure system of the Sliding Rotating V-Leg lockables



Floor with airline rail

Top view of the lockables



Side view of the Lockables

