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The damping rods are used to damp vibrations and lower the sound level produced by the unit.

1.0 General information:
Carefully read through this installation manual before installing the damping rods. Pay particular attention to the safety instructions! The installation manual is part of your product. Store it carefully and in the vicinity of the damping rods. The copyright for this installation manual shall remain with Raja-Lovejoy GmbH.

1.1 Safety and information symbols:

- **Danger**: Risk of injury to personnel
- **Caution**: Damage could occur to the machine
- **Note**: Note regarding important information

1.2 General hazard warnings:

During installation and removal of the damping rods, make sure that the entire drive train is secured to prevent accidental activation, and that the system is depressurised. Improper handling of the damping rods can cause serious injury. For this reason, the following safety instructions should be read and followed without exception.

- All work on the damping rods should be performed from the perspective of “Safety First”
- Secure the drive unit to prevent unintentional activation, e.g. by attaching information signs to the switch-on points or removing the fuse at the power supply.
- Secure the unit before tipping it. Attach the relevant protective devices and supports.
2.0 Intended use:

You may only install and maintain the damping rods if you:

- have carefully read and understood the installation manual
- are authorised and trained to do so

The damping rods may only be used in accordance with the technical specifications. Unauthorised structural changes to the damping rods are prohibited. We will not accept any liability for damage occurring as a result of this. In the interest of further development, we reserve the right to make technical changes. The damping rods described here correspond with the latest technical standards at the time of publication of this installation manual. The damping rods are usually delivered ready for installation.

3.0 Dimensions:

Figure 1: Diagram of the damping rods
Table 1: Damping rail dimensions

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</table>

3.1 Purpose of the different versions

MDL = motor damping rods, for installation with IEC electric motors, type IMB 35
PTFLDL = bell housing damping rods – light model, for installation with Raja-Lovejoy PTFL foot bracket
PTFS SDL = bell housing damping rods – heavy model, for installation with Raja-Lovejoy PTFS foot bracket
4.0 Assembly

The screws should normally be secured with Loctite, Omnifit 230M or a comparable thread adhesive.

Please note that serious injury may be caused by tipping the unit (crushing). Secure the unit using suitable supports.

4.1 Loads

The standard damping rods are designed to withstand the loads generated during their intended use. Any deviation from this must be approved by Raja-Lovejoy before installation.

The motor feet or bell housing feet must be resting fully on the damping rods.

Shear loads are prohibited and must be avoided at all costs.

All damping rods should only be loaded to their rated pressure. Slight tensile loads, which occur due to the bending moment experienced with horizontal installation, which is caused by uneven weight distribution, are permissible to a low extent.

### Table 2: Tightening torques

<table>
<thead>
<tr>
<th>Cheese head screw with hexagonal socket acc. to DIN 912 - 8.8</th>
<th>M8</th>
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<th>M12</th>
<th>M16</th>
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<td>49</td>
<td>86</td>
<td>210</td>
<td>410</td>
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</table>

4.2 Fitting the MDL damping rods to the electric motor

- Screw the damping rods to the floor / base plate by inserting the screws from above into the countersunk holes, and tightening them to a suitable tightening torque.

- The screw tightening torque is dependent on the material from which the floor / base plate is made. This information can be found in the manufacturer's technical documentation.

- Place the feet of the electric motor on the damping rods.

- Insert the screws with washers through the through-holes of the electric motor feet and screw them into the threaded holes in the damping rods. Preferably, a screw length should be selected which enables the entire thread depth of the threaded holes to be used in the damping rods.

- Please see Table 2 for the screw tightening torques for this.
4.3 Fitting the PTFL / PTFS damping rods to the foot bracket

- Screw the damping rods to the floor / base plate by inserting the screws from above into the countersunk holes, and tightening them to a suitable tightening torque.

- The screw tightening torque is dependent on the material from which the floor / base plate is made. This information can be found in the manufacturer's technical documentation.

- Place the bell housing base on the damping rods.

- Insert the screws with washers through the through-holes of the bell housing base and screw them into the threaded holes in the damping rods. Preferably, a screw length should be selected which enables the entire thread depth of the threaded holes to be used in the damping rods.

- Please see Table 2 for the screw tightening torques for this.
5.0 Additional information:

- The damping rods can only be used for horizontal installation!