

GETZNER PRELOADED BEARING

INSTALLATION GUIDELINE



1. Instruction

Carefully read through the instructions in this installation guideline before starting installation work. To ensure the bearing works correctly, it is essential that you observe and implement the following points.

Note: For general requirements, please refer to the Isotop® installation manual. Please read it carefully in advance.

2. Storage

- Always transport in original packaging.
- Damage to the packaging must be repaired immediately (with plastic film and adhesive tape).
- Only store in a dry place in the original packaging.
- Protect from direct sunlight.
- Protect from moisture after removing the original packaging.
- During storage, please note that pallets must not be stacked.
- The conditions (and temperature) at the storage location must correspond to those at the installation site.

If the temperature at the storage location differs significantly from that at the installation site, it is advisable to prepare/condition the Isotop® elements over a period of at least 24 hours.

- If stored properly, they can be stored for years and be used at any time.

3. Installation

3.1 Cleaning

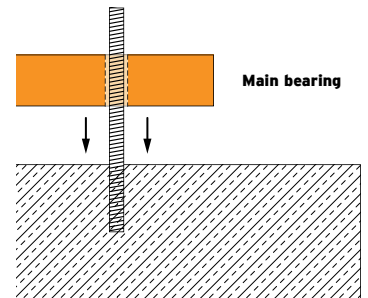
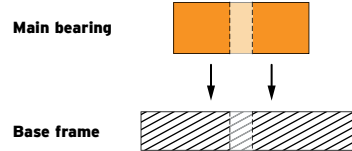
The base frame or foundation must be swept clean, free of oil, grease and other soiling and must not have any sharp edges. Loose objects, such as stones, must be removed using suitable equipment.

Installation on a base frame:

Installation on a foundation:

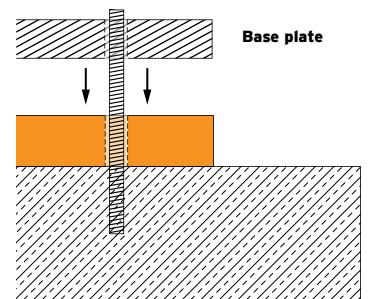
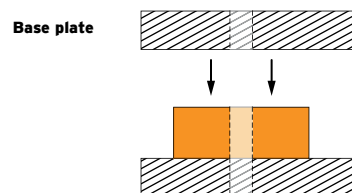
3.2 Positioning the main bearing

Position the main bearing on the prepared base frame or foundation.



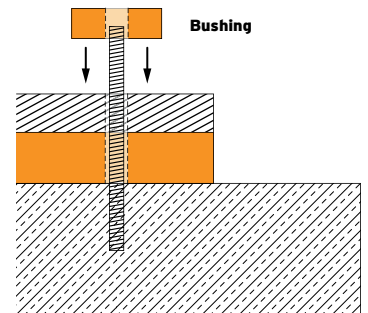
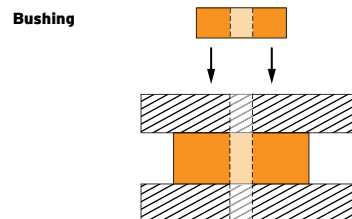
3.3 Positioning the base plate

Position the base plate on the main bearing. The main bearing must be fully covered by the base plate.



3.4 Positioning the bushing

Position the bushing.

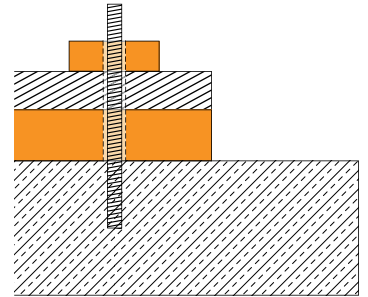
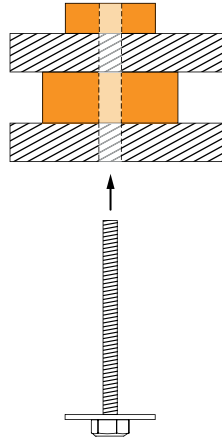


Installation on a base frame:

Installation on a foundation:

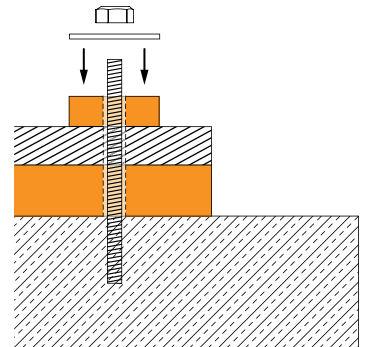
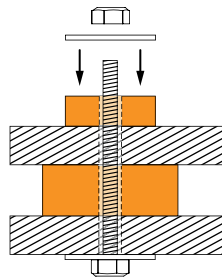
3.5 Inserting the screws

Push the screw with washer through the hole. If the threaded rods are concreted in, the individual parts will have already been slipped onto them.



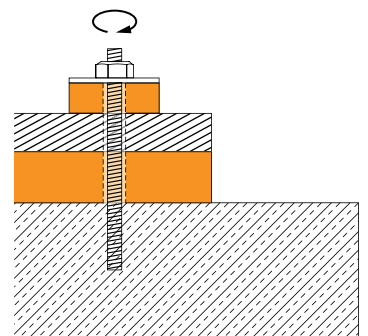
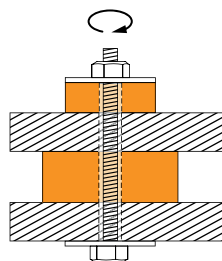
3.6 Establishing the screw-fixing

Thread the washer and the self-locking (!) nut onto the screw or threaded rod. When doing so, make sure the washer fully covers the bushing.



3.7 Preloading the screw-fixing

Tighten the screw-fixing up to the bushing. However, do not compress this yet.

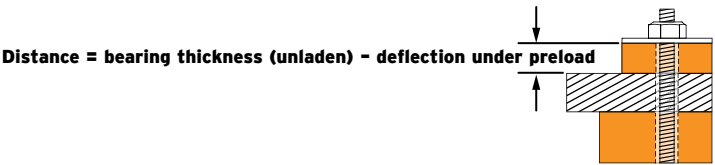


Installation on a base frame:

Installation on a foundation:

3.8 Applying a preload

Tighten the bushings while observing the deflection under preload specified in the calculation.

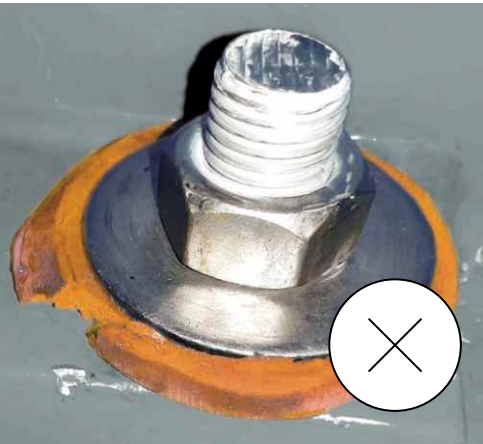


If no measuring equipment is available, the preload displacement can be determined using this table.

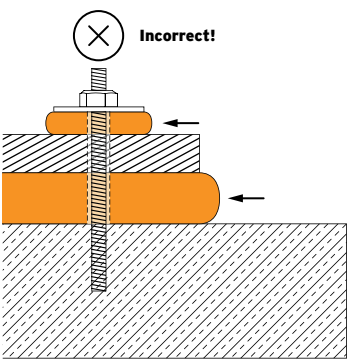
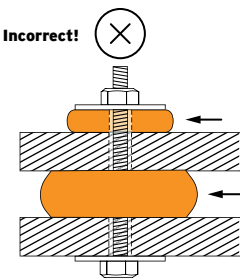
Thread	Preload travel per rotation in mm			
	1 Rotation	1/2 Rotation	1/4 Rotation	1/8 Rotation
M 6	1.00	0.50	0.25	0.13
M 8	1.25	0.63	0.31	0.16
M 10	1.50	0.75	0.38	0.19
M 12	1.75	0.88	0.44	0.22
1/4"	1.27	0.64	0.32	0.16
5/16"	1.41	0.71	0.35	0.18
3/8"	1.59	0.79	0.40	0.20
1/2"	2.12	1.06	0.53	0.26

3.9 Important!

Avoid excessive preload due to overtightening! It is essential to observe the deflection under preload specified in the calculation for functional decoupling.



Note: avoid crushing the material.



4. Maintenance

Settlement losses may occur as a result of creepage. Roughly two weeks after installing the preloaded bearing or applying the full load, check the screw preload and correct it if necessary.

Following this, an annual check is sufficient.

5. Lifetime and recycling

Isotop® elements are products made of durable elastomers and refined steel parts. At the end of the service life of the stored machine, the elastomers can be mechanically detached from the metal parts and disposed of accordingly.

None of our materials pose any environmental hazards.

6. Disclaimer

This installation guideline is only intended to support and advise customers and their contractors during the installation of Getzner Preloaded bearings. Getzner Werkstoffe outlines therein known requirements and challenges. These installation guidelines have been prepared with the utmost care.

However, due to the wide range of different construction methods and requirements, Getzner Werkstoffe cannot assume any liability for the completeness of the installation guideline. In particular, Getzner Werkstoffe is not responsible for the correct installation of Getzner's Preloaded bearings. In the event of an incorrect installation, Getzner Werkstoffe is not liable for any negative effects on the properties/quality of Getzner's Preloaded bearings or their performance.

It is strongly recommended that the installation be carried out by a professional/expert. All other rights are reserved. Disclosure to third parties is expressly prohibited.