

Translation of Original operating manual

pewag winner profilift

PLGWI basic pewag winner profilift gamma inox lifting point



Read this operating manual carefully before using this product, paying particular attention to the sections on safety and assembly. This product is suitable for the lifting and holding of loads, provided that the instructions of this operating manual and all the national regulations are complied with. This product may only be used once this operating manual has been read and understood in full.

This operating manual is part of the product and must be made available to users throughout the lifetime of the product.

The operating manual must be passed on to later owners or users together with the product. This product as well as the operating manual may only be sold in countries where English is the national language. This operating manual is subject to an ongoing improvement process and is therefore only valid in its most recent version, available for download at www.pewag.com.

The highlighted sections in this operating manual contain information on areas with a particularly high risk potential. Disregarding this information may cause serious injuries or death. Please pay particular attention to these sections.

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This operating manual is valid for:
PLGWI basic pewag winner profilift gamma inox
Dismountable lifting point



PLGWI basic pewag winner profilift gamma inox lifting point

Sizes (from – to)	Thread sizes (from – to)
PLGWI basic 0,5t - PLGWI basic 1t	M12-M16

For details, see table 1 at the end of the manual



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1. SAFETY INSTRUCTIONS



WARNING

An improperly mounted or damaged lifting point or improper use may cause accidents that lead to severe injuries and/or death! Damaged lifting points (see maintenance instructions) may fail even during normal conditions of use. Such lifting points may not be used.

- This product may only be operated by properly trained persons who must comply with all relevant standards and country-specific regulations.
- Users of this product must be in a good physical condition. Users of this product must not be under the influence of drugs, alcohol or medication.
- You must ensure that a plan that specifies emergency measures is available and that it covers all emergencies that may occur during use.
- The product may not be modified in any way.
- All repair and maintenance activities must be performed in accordance with the instructions given by pewag.
- Check for visible damage (deformations, cracks, damaged threads) prior to each use and ensure that the product is functioning correctly – lifting points have to be rotatable (alignable with the load direction).
- This product may not be used for the lifting or securing of persons.

2. Designated use

Purpose: The pewag PLGWI basic is a lifting point that is screwed onto loads so that lifting chain components (hooks, shackles...) may be attached to enable the load to be lifted. The rotation under load is not permitted.

Target groups: This product may only be used and serviced by properly trained personnel, provided that the instructions of this operating manual and all relevant country-specific regulations are complied with. Repairs, regular inspections and the exchange of parts may only be performed by competent personnel.

Also see point 4 of this operating manual.

Load: The lifting point may only be loaded in the direction specified (fig. 1), at the maximum load capacity according to table 1 and in accordance with the conditions use specified in this manual.



Fig. 1: Permitted directions of load that occur during correct use.

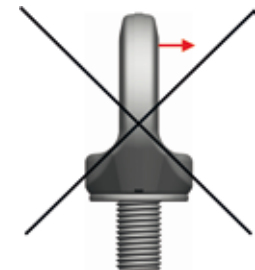


Fig. 2: Non-permitted usage

Material: The duplex steel used for ring, screw and sleeve has a high resistance to pitting corrosion, crevice and stress corrosion cracking (PRE(N) value 34).

Operating temperature: The long-term permitted ambient temperature must be between -40 °C and +280 °C.

Shock loading: Slight shocks, such as the kind that is caused by acceleration during lifting and lowering of the load, may be disregarded. Stronger shocks are not permitted.

Other information: The lifting point may only be mounted with original parts. The ring is 360° rotatable around the screw and must be aligned with the expected direction of pull prior to loading.

This product has a safety factor of 4.

For exact dimensions, refer to our website at www.pewag.com

2.1 Restrictions on use

- The lifting points are not suitable for edge- or corner-loading.
- Do not use this product for the lifting or securing of persons.
- Do not use lifting points as a choke-hitch.
- For the load capacities of pewag lifting chains to apply, it is assumed that the individual lifting points are placed under load symmetrically. When the load is lifted, this will result in the same angles of inclination of the individual chain legs.
- In case of asymmetrical loads, you must take into account the following:
 1. The load is less than 80% of the indicated load capacity.
 2. The angles of inclination of all chain strands are not lower than 15° and are very similar (i.e. only differ by a maximum of 5°).
 3. For three- and four-stranded lifting chains, it must be ensured that the corresponding plan angles are within 15° of each other. If any of these conditions are not met, only one strand may be considered load-bearing (see load capacity table).
- The lifting points may not be rotated while under load.
- PLGWI lifting points must not be used permanently for load-bearing parts in indoor swimming pools (see ISER leaflet 831).



WARNING

The information contained in this operating manual is

based on the assumption that no particularly hazardous conditions apply. In such cases, please contact pewag to determine the permissibility of the application and the degree of danger.

2.2 Foreseeable misuse

- Use by improperly trained personnel.
- Use by personnel who is unable to fully comprehend the language of this operating manual.
- Attachment to components for which no operating manual or proof of strength exists.
- Attachment of inappropriate lifting devices.
- Attachment of lifting devices for which no operating manual or inspection report according to currently valid standards exists.

2.3 Labelling and identification

Every pewag lifting point is labelled with its maximum load capacity for adverse loading conditions as well as the manufacturer's code and batch number. The following image shows the part number and the precise identification details on the product.

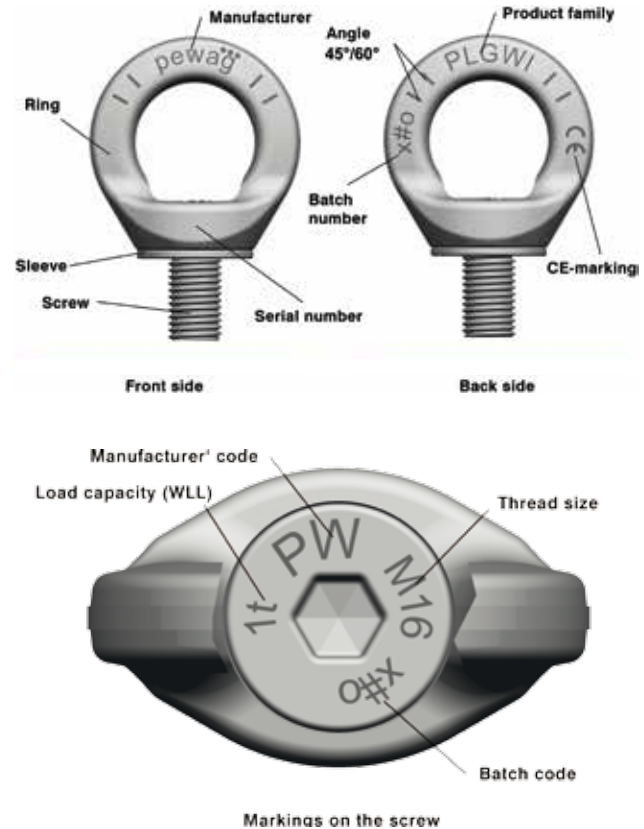


Fig. 3: Part number and location of the identification details on the product.

3. Assembly instructions

3.1 General information

- This product may only be assembled by persons who were instructed in the safe use of the product and have the required knowledge and skills.
- Only original pewag parts may be used.
 - These are recognisable from the stamp (batch number, manufacturer logo or code PW...)
- Only mount lifting points that are free from defects.
- Used lifting points must be inspected prior to each use as specified by the maintenance instructions.
- Check that the lifting point has been attached according to the assembly instructions during each use.
- Attach lifting points in such a way that they may be reached easily and without obstruction when attaching or removing the connecting element. Check that no hazardous points are created that could endanger the user or impede correct usage (risk of crushing, pinching or collision).
- The attached lifting device must be free to move in the ring.
- Keep lifting points clean and dry. Treat lifting points carefully even after use. Do not let lifting points drop to the floor as this may damage the thread or other parts.
- The base material of the object to which the lifting points are to be attached must be strong enough to absorb the forces that occur without deformations (proof of safety).
- Always choose lifting points with the correct dimension acc. to the load capacity table, depending on the size of the load and the constellation of the lifting devices.

- Choose the constellation of lifting points in such a way that symmetrical loading is assured and the centre of the load is positioned under the lifting point(s).
- When choosing your constellation, check that there is no risk of improper loading due to any of the following factors:
 - direction of pull is obstructed
 - direction of pull is not within the indicated area (fig.1)
- Any severe conditions (see restrictions on use) must be taken into account.
- Always take into account the user and assembly instructions of the lifting devices used and, where applicable, also those of the load to be lifted.
- For custom-made designs: Take into account the additional information provided and the specifications on the customer's drawings (where applicable).
- The condition as delivered must not be altered. Surface treatments that may damage the material, welding, heat treatments etc. are not permitted.
- The length of the thread may not be shortened.
- Do not use an extension during mounting.

3.2 Protective measures to be taken by the user

Always take into account the restrictions on use and the maximum load capacity of the lifting points used. Always wear safety gloves when attaching the lifting device. Align the lifting point in the expected direction of pull and leave the hazard area before lifting the load. Slightly tension the chain sling and check that the lifting devices are correctly fitted to the lifting points and that all lifting points are correctly aligned in the direction of pull before lifting the load.



WARNING

Keep a sufficient safety distance during the lifting operation and

ensure that the load has been lowered safely before removing the lifting device. Do not overload lifting points! Falling loads may cause injury and/or death!

3.3 Remaining risks

Overloading caused by non-compliance with the maximum load capacity or adverse environmental factors (temperature...). Incorrect assembly of the lifting points may lead to failure, as may the use of non-authorised or damaged parts of the attached lifting device.

3.4 Mounting

- The screw-on surface must be level and have at least the diameter of the contact surface of the lifting point. The sufficiently deep, threaded hole must be at the centre of the contact surface, at a right angle. It must be possible to insert the screw fully (with blind holes).

- Clean the threaded hole prior to each use and check for damage.
- The minimum screw penetration values are:
 - 1 x M for steel ($R_m > 360\text{N/mm}^2$)
 - 1.25 x M for cast steel
 - 2 x M for aluminium
 (M = thread size, e.g. M20 = 20 mm)
- Additional elements (such as washers) between the lifting point and the load are not permitted.
- Prior to each use, ensure that the lifting point is fully screwed in and that the contact surface is flush with the load.
- For one-off transport, it is admissible to tighten the screw by hand using a spanner.
- If the lifting point is intended to remain permanently attached to the load, it must be tightened with an appropriate tool with a torque as listed in table 1. If necessary (i.e. in case of vibrations), the thread must be secured with a liquid threadlock (e.g. Loctite).
- After assembly, ensure that there is no risk of incorrect loading by aligning the lifting point in the expected load direction by moving the ring.

3.5 Dismounting

To remove the lifting point, unscrew it with a suitable tool. Store the lifting point as described in „Storage“. Take appropriate measures to protect the thread on the load from damage and dirt.

A suitable tool for assembly and disassembly can be found in the current catalog, resp. please contact our technical service.

4. Inspection, maintenance, repair



WARNING

The safety of the user is contingent upon the effectiveness and

durability of the equipment used. For this reason, ensure that inspections are performed regularly. Damaged lifting points may fail during normal conditions of use, causing the load to fall. Such lifting points may not be used.

- This product must be inspected by a competent person at least once a year and in accordance with the manufacturer's instructions. Depending on the conditions of use and legal stipulations, this interval may be shorter. In case of frequent use, we recommend a crack test every two years.
- During tests, all parts must be checked for damage that could impact safety and function.
- For the regular inspection and the crack test, all parts must be free from oil, dirt and rust. Appropriate cleaning processes include those that do not cause overheating, cover up surface defects or cause hydrogen embrittlement or stress crack corrosion.
- Load testing all the way up to the proof force is not permitted for these lifting points.

Competent persons are persons who are capable of assessing the operability and correct usage of this product, either based on their technical qualifications (e.g. training) or their experience with and sufficient knowledge of the use of lifting equipment, and who are familiar with the relevant standards and regulations.

If you are interested in an expert training module, please contact our technical service.

4.1 Inspection

Before each use, the following checks should be performed:

- The lifting points were selected correctly, based on the size of the load and the lifting devices used (chain sling, angle of inclination, etc.).
- The lifting point is functioning correctly (ring is rotatable and/or foldable) and none of the parts look damaged, (this is particularly relevant for the threads).
- The contact surface must fully rest on the load after the lifting point has been screwed in.
- The ring of the lifting point used must be aligned with the expected load direction.

Regular inspection:

Regular inspections must be performed by the manufacturer or a competent person, in strict accordance with the manufacturer's instructions.

4.2 Discard criteria

- Breakage, deformations, sharp notches or cracks of any kind.
- Signs of excessive heat exposure (e.g. black discolouration, burn marks in the coating).
- Visible damage to the thread that could impair the correct functioning of the product.
- Any doubt on the correct functioning/safety of the lifting point.
- Illegible markings.
- Wear or excessive corrosion, if the admissible cross-sectional reduction of 10 % is exceeded.
- If it is not possible to freely rotate and/or fold the ring after assembly.



If there is any doubt on the correct functioning/safety of the lifting point, it must be discarded!

4.3 Procedure in case of accidents or faults

If the lifting device gets jammed in the ring of the lifting point, do not use force to release it as this may cause damage. If the lifting point shows signs of deformation (e.g. due to overloading or other unusual events), the product must be removed from service and handed to a competent person for inspection or repair.

4.4 Maintenance

- If necessary, clean all the parts using a damp cloth. Leave the lifting point to air-dry.
- The thread may be cleaned using a wire brush.

4.5 Repairs

- Records must be kept of all inspections and repairs for the entire lifespan of the product. A sample documentation sheet is available for download at www.pewag.com.
- Repairs may only be performed by the manufacturer or a competent person.
- Refer to the latest catalogue for spare parts such as screws. Alternatively, contact our technical service.
- Small cuts, notches and grooves may be removed by careful grinding or filing. After the repair, the treated area must merge smoothly with the surrounding area, without the cross-section changing abruptly. By fully removing the defect, the dimension of the area must not be reduced by more than 5 %.
- Welding and heat treatment is not permitted.

This product is labelled with an individual number in the format „YY/xxxx“. „YY“ is the year (e.g. 18 for 2018) and „xxxx“ is the continuous number that clearly identifies each lifting point of a certain type (e.g. type PLGWI basic 0,5t M12).

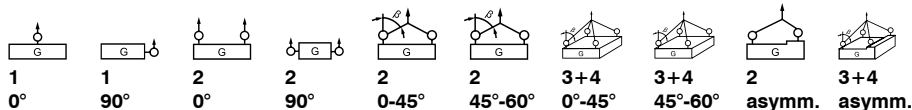
5. Storage

This product must be stored in a clean and dry condition and protected against corrosion (e.g. lightly oiled). The lifting point must not be exposed to corrosive, thermal or mechanical influences during storage or transport. The thread should be protected by an appropriate protective cap or net.

6. Removal from service

The product has a high metal content and is fully recyclable. At the end of its lifespan, the product must be recycled in accordance with local regulations. Prior to using this product for the first time, the operating manual must have been read and understood in full.

Method of lifting
Number of legs
Angle of inclination



Code	Thread [mm]	Fastening torque [Nm]	Load capacity [kg]									
PLGWI 0,5 t	M12	25	1,500	500	3,000	1,000	700	500	1,060	750	500	500
PLGWI 1 t	M16	50	3,000	1,000	6,000	2,000	1,400	1,000	2,100	1,500	1,000	1,000

Table 1

Straight pull 0°			Lateral load direction permitted (ring is aligned) 90°		Lateral load direction not permitted (ring is not aligned)
Higher load capacities for loading along the screw axis (column „0°“ in the load capacity table)			Nominal load capacity for loading vertically to the screw axis (column „90°“ in the load capacity table)		Application not permitted due to unstable conditions. The ring could turn suddenly while under load - high risk for load and/or persons!

Reduction factors

Operating temperature	below -40 °C	-40 °C to 280 °C	above 280 °C
Reduction factor	Not permissible	1	Not permissible
Shock loading	Slight shocks	Medium shocks	Strong shocks
Reduction factor	1	0.7	Not permissible

Use at temperatures below -40 °C and above 280 °C is not permitted!

Table 2

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Technical changes and misprints excepted.