Translation of
Original operating manual

pewag winner profilift

PLGW-SN pewag winner profilift gamma eye nut

These lifting points are designed considering this manual as well as the national regulations for lifting and holding the load.
Read the manual carefully before using the lifting points. The user must have access to the operating manual until withdrawal of the connecting links from service. The manual is updated continuously and valid only in the latest version. The manual is available as a download under the following link: www.pewag.com

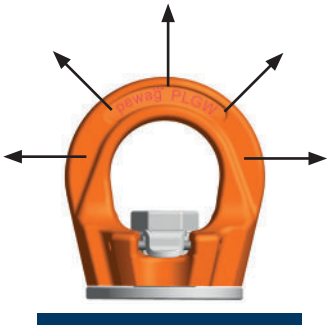


Method of lifting											
No. of legs		1	1	2	2	2	2	3+4	3+4	2	3+4
Angle of inclination		0°	90°	0°	90°	0°–45°	45°–60°	0°–45°	45°–60°	asymm.	asymm.
Code	**Thread [mm]**	**Load capacity [kg]**									
PLGW-SN 0.3 t	M8	1,000	300	2,000	600	400	300	600	400	300	300
PLGW-SN 0.5 t	M10	1,500	500	3,000	1,000	700	500	1,000	700	500	500
PLGW-SN 0.7 t	M12	2,000	700	4,000	1,400	1,000	700	1,400	1,000	700	700
PLGW-SN 1.5 t	M16	4,000	1,500	8,000	3,000	2,100	1,500	3,000	2,200	1,500	1,500
PLGW-SN 2.3 t	M20	5,000	2,300	10,000	4,600	3,200	2,300	4,800	3,400	2,300	2,300
PLGW-SN 3.5 t	M24	6,500	3,500	13,000	7,000	4,900	3,500	7,400	5,200	3,500	3,500
PLGW-SN 4.9 t	M30	12,000	4,900	24,000	9,800	6,900	4,900	10,300	7,300	4,900	4,900

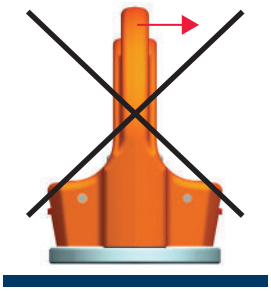
Safety factor 4
Attention: Subject to technical changes!

Intended use

Load capacity: working load limit according to test certificate or working load limit table in the given directions of tension – see picture 1.
Admissible operating temperature: -20 °C to 200 °C (please note WLL reduction at high temperature).
Impacts: impacts which occur because of e.g. acceleration during lifting and lowering can be unconsidered.
Other: Lifting points have to be mounted only with the included nut. The body is rotatable 360°, and must be aligned in the permitted direction of tension before use.



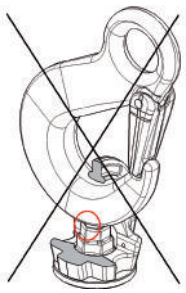
Picture 1: permitted



Picture 2: not permitted

Information for use

- Lifting points should be used by a competent authorised person
- Visual inspection before first usage (see maintenance instruction)
- Before every usage check for damages on screw and thread – lifting points must be rotatable
- Load only in the specified direction (see picture 1) with WLL acc. to table
- Make sure before each use that the lifting point is hand tight (by the lock system or a ring spanner)
- Please note restriction in application for eventually appearing difficulties in load
- Bolt must not exceed the nut height. Connected lifting gear (e.g. hook) has to be flexible in the ring (see picture 3)



Picture 3

- Lifting points must be stored in a clean and dry area
- PLGW lifting points are not designed to be rotated under load

Attention:
- Do not overload lifting points. A falling down load may lead to injuries or death!
- Do not use damaged lifting points (see maintenance instruction) – they can fail in operating conditions – load can fall down!

Limits of use

When lifting points are used under other conditions than the one mentioned in Intended use (see above), restrictions on used must be applied.
- Do not use lifting points in connection with acids, bases or their steams. For application in chemical environments, please contact our technical service
- Do not load lifting points when they come into contact with corners or sharp edges!
- Do not lift people!
- If the load distribution is asymmetrical (unequal angle of the legs of the lifting gear) only count 1-leg as bearing (see load table)

Mounting instruction

Mounting only by competent authorized person.

Tool-free assembly and disassembly
The latch in position 1 does not have any contact with the nut (picture 4).
- The latch is kept in position with a patented spring
- Eye nut is rotatable

The latch in position 2 has contact with the nut (picture 5).
- The latch is kept in position with a patented spring
- Eye nut is not rotatable i.e. the fastening torque is transmitted to the nut and thus the eye nut can be (re)assembled



Picture 4



Picture 5

- The equipment, where the lifting points are mounted on, has to meet the requirements of the Machinery Directive 2006/42/EC
- Choose adjustment of lifting points so that you have a symmetric load. Center of gravity must be under the lifting point
- The threaded bolt or the through-bolt which the lifting points are to be installed to, must have a screw strength class of at least 10.9 (according to DIN EN ISO 898-1) and they must be crack tested
- The base material must be of sufficient strength that the force induced can be absorbed without deformation
- Choose lifting points with adequate WLLs – see table. The information in the table only apply to screws and threaded bolts with grade 10.9. Using screws with lower strength also reduces the load capacity of the eye nut
- The screwing area must be flat and be provided with a diameter not smaller than the bottom part of the lifting point The threaded bolt with adequate height must be in the middle of the screwing area and perpendicular to it to ensure that the nut can be screwed on fully and the entire surface touches the load

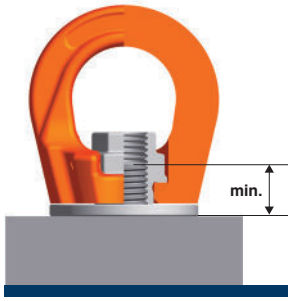
Demanding conditions

Temperature	below -40 °C	-40 °C to -20 °C	-20 °C to 200 °C	200 °C to 250 °C	250 °C to 350 °C	above 350 °C
Load factor	not permissible	0.8	1	0.8	0.75	not permissible
Shock	slight shocks		medium shocks		strong shocks	
Load factor	1		0.7		not permissible	

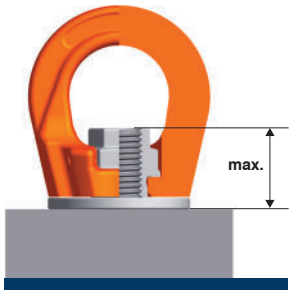
* Use at temperatures below -40 °C and above 350 °C is forbidden!

- Min./max. screw penetration:

Code	Thread	Screw penetration [mm]	
	[mm]	min.	max.
PLGW-SN 0.3 t	M8	10	21
PLGW-SN 0.5 t	M10	12	21
PLGW-SN 0.7 t	M12	15	25
PLGW-SN 1.5 t	M16	20	26
PLGW-SN 2.3 t	M20	24	27
PLGW-SN 3.5 t	M24	29	34
PLGW-SN 4.9 t	M30	36	40



Picture 6: Minimum screw penetration



Picture 7: Maximum screw penetration

- Threads must be cleaned before screwing
- PLGW-SN lifting points can also be fixed with a ring spanner
- If necessary (e.g. if vibrations occur), use liquid thread adhesives (please note manufacturer's instructions)
- Make sure that the adjustment of the lifting point will not lead to improper loading, e.g. if:
  - There is no possibility to align in the direction of tension
  - The direction of tension is not in the foreseen area acc. to picture 1
- After correct mounting of the lifting point move both latches in position 1 according to picture 4 and align the ring in the expected direction of loading.
- Use only pewag original parts – recognizable by the marking (WLL, thread)
- It is not allowed to modify the lifting point, e.g. welding, heat treatments and surface treatments (galvanising) are prohibited
- Mount only lifting points free from defects
- Check used lifting points acc. to maintenance instruction before application
- After assembling, lifting points must be able to rotate properly
- Do not use any extension when assembling

Maintenance, Checks, Repairs

- An inspection in accordance with the national standards must be carried out annually by a technical expert. If used frequently under a full load these inspections have to be implemented regularly. We also recommend a crack test every two years
- The parts must be free from oil, dirt and rust for inspection and crack test. Adequate cleaning procedures are the ones, which do not overheat, hide failures on surface and cause hydrogen embrittlement or stress crack corrosion
- During inspection check all parts which can influence safety and function, - e.g.:
  - Cracks, notches, deformation, noticeable signs of excessive heat
  - Abrasion resp. corrosion of more than 10 % of the cross section

In case of doubt, if the lifting points are damaged, stop using them and have them examined by an expert.

Repairs:

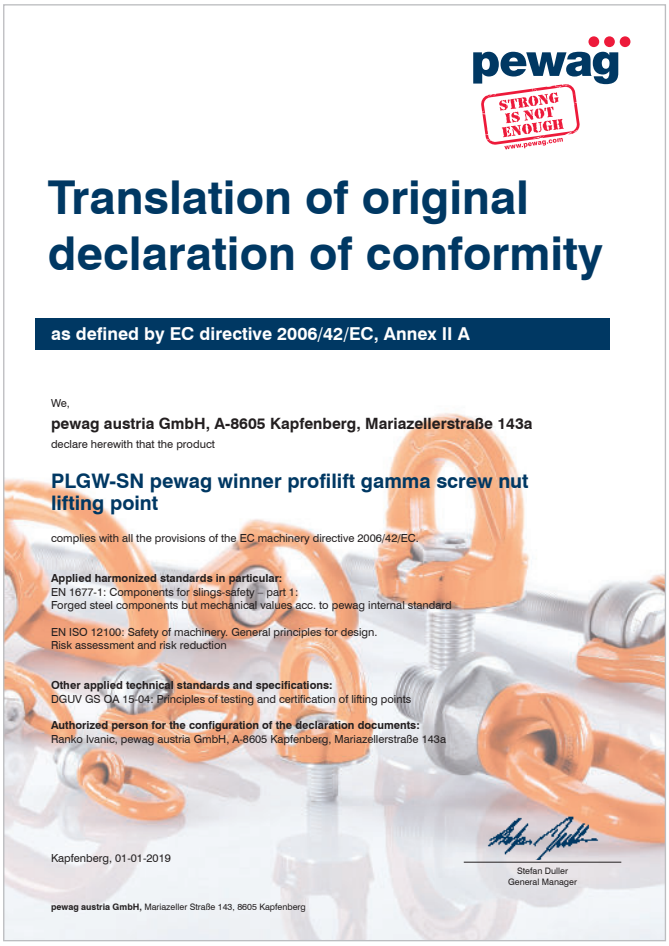
- Maintenance of the lifting points should only be carried out by technical experts
- If small defects like notches or score marks are visible, they can be carefully removed by using grinders or files. The repaired area has to merge smoothly without sudden changes of the cross-section. When repairing, the cross section must not decrease of thickness by more than 5 %
- Welding procedures and heat treatments are prohibited

Inspections and repairs need to be fully documented and remain with the product for the duration of its operating life. A documentation reference sheet can be downloaded at www.pewag.com

Each PLGW-SN lifting point is marked with a unique number.

Exact dimensions can be found on our website www.pewag.com under industrial chains/lifting points.

Declaration of conformity



pewag

STRONG IS NOT ENOUGH
www.pewag.com

Translation of original declaration of conformity

as defined by EC directive 2006/42/EC, Annex II A

We,

pewag austria GmbH, A-8605 Kapfenberg, Mariazellerstraße 143a

declare herewith that the product

PLGW-SN pewag winner profilift gamma screw nut lifting point

complies with all the provisions of the EC machinery directive 2006/42/EC.

Applied harmonized standards in particular:
EN 1677-1: Components for slings-safety – part 1:
Forged steel components but mechanical values acc. to pewag internal standard

EN ISO 12100: Safety of machinery. General principles for design.
Risk assessment and risk reduction

Other applied technical standards and specifications:
DGUV GS OA 15-04: Principles of testing and certification of lifting points

Authorized person for the configuration of the declaration documents:
Ranko Ivanic, pewag austria GmbH, A-8605 Kapfenberg, Mariazellerstraße 143a

Kapfenberg, 01-01-2019

Stefan Duller
General Manager

pewag austria GmbH, Mariazeller Straße 143, 8605 Kapfenberg

pewag austria GmbH
A-8041 Graz, Gaslaternenweg 4, Phone: +43 316 6070-0, Fax: +43 316 6070-100
office@pewag.com, **www.pewag.com**

Subject to technical modification and printing errors.