

# Translation of Original operating manual

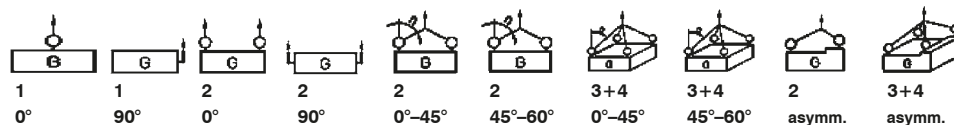
## pewag winner profilift

### PLAW pewag winner profilift alpha lifting points

These lifting points are designed for lifting and holding the load considering this manual as well as the national regulations for lifting and holding. 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](http://www.pewag.com)



Method of lifting  
Number of legs  
Angle of inclination



Code	Thread [mm]	Fastening torque [Nm]	Load capacity <sup>1</sup> [kg]									
PLAW 0.3 t	M8	35	300	300	600	600	400	300	600	400	300	300
PLAW 0.63 t	M10	70	630	630	1,250	1,250	850	630	1,300	900	630	630
PLAW 1 t	M12	120	1,000	1,000	2,000	2,000	1,400	1,000	2,100	1,500	1,000	1,000
PLAW 1.5 t	M16	150	1,500	1,500	3,000	3,000	2,100	1,500	3,100	2,200	1,500	1,500
PLAW 2.5 t	M20	170	2,500	2,500	5,000	5,000	3,500	2,500	5,300	3,700	2,500	2,500
PLAW 4 t (/13)	M24	400	4,000	4,000	8,000	8,000	5,600	4,000	8,400	6,000	4,000	4,000
PLAW 6 t	M30	500	6,000	6,000	12,000	12,000	8,500	6,000	12,700	9,000	6,000	6,000
PLAW 7 t *	M36	700	7,000	7,000	14,000	14,000	9,800	7,000	14,800	10,500	7,000	7,000
PLAW 8 t	M36	800	8,000	8,000	16,000	16,000	11,300	8,000	16,900	12,000	8,000	8,000
PLAW 10 t	M42	1,500	10,000	10,000	20,000	20,000	14,000	10,000	21,000	15,000	10,000	10,000
PLAW 15 t	M42	1,500	15,000	15,000	30,000	30,000	21,000	15,000	31,500	22,500	15,000	15,000
PLAW 20 t	M48	2,000	20,000	20,000	40,000	40,000	28,000	20,000	42,000	30,000	20,000	20,000

Code	Thread [inch]	Fastening torque [lb/ft]	Load capacity <sup>1</sup> [lbs]									
PLAW U5/16 *	5/16"-18	25.8	660	660	1,300	1,300	920	660	1,350	950	660	660
PLAW U3/8	3/8"-16	51.6	1,400	1,400	2,800	2,800	1,980	1,400	2,970	2,100	1,400	1,400
PLAW U1/2	1/2"-13	88.5	2,200	2,200	4,400	4,400	3,000	2,200	4,600	3,300	2,200	2,200
PLAW U5/8	5/8"-11	110	3,300	3,300	6,600	6,600	4,600	3,300	6,800	4,800	3,300	3,300
PLAW U3/4	3/4"-10	125	4,400	4,400	8,800	8,800	6,000	4,400	9,200	6,500	4,400	4,400
PLAW U3/4 **	3/4"-10	125	5,500	5,500	11,000	11,000	7,700	5,500	11,600	8,250	5,500	5,500
PLAW U1	1"-8	295	8,800	8,800	17,600	17,600	12,300	8,800	18,400	13,200	8,800	8,800
PLAW U1 1/4	1 1/4"-7	369	13,200	13,200	26,400	26,400	18,700	13,200	27,800	19,800	13,200	13,200
PLAW U1 1/2	1 1/2"-6	590	17,600	17,600	35,200	35,200	24,800	17,600	37,300	26,400	17,600	17,600
PLAW U1 3/4	1 3/4"-5	740	22,000	22,000	44,000	44,000	30,000	22,000	45,000	33,000	22,000	22,000

<sup>1</sup> max. transport weight (G).  
\* Available upon request only!  
\*\* Only valid for type PLAW with sleeve.

Important: Subject to technical changes!  
Safety factor 4

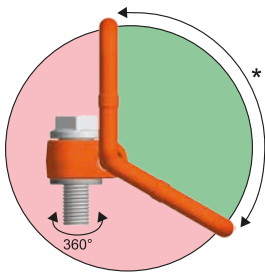
## Intended use

**Load capacity:** working load acc. to test certificate resp. working load table for various applications.

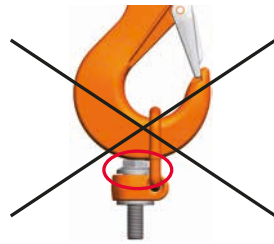
**Admissible operating temperature:** -40 °C to 100 °C (please note WLL reduction at high temperature).

**Impacts:** impacts which occur because of e.g. acceleration during lifting and lowering can be unconsidered.

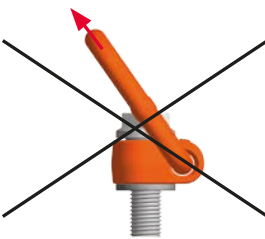
**Other:** Lifting points have to be mounted only with the included screw. The body is rotatable 360°, the ring is hinged. The ring is positioned with a spring. Before usage they have to be adjusted in the correct direction of tension.



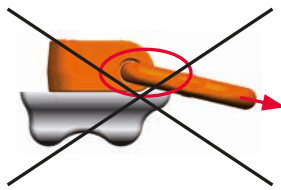
Picture 1: \* Permissible range of application (ring must not touch the load)



Picture 2: not allowed



Picture 3: not allowed



Picture 4: not allowed

## 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 and hinged easily
- Load only in the specified direction (see picture 1) with WLL acc. to table
- Please note restriction in application for eventually appearing difficulties in load
- Connected lifting gear (e.g. hook) must be flexible in the ring (see picture 2)
- Lifting points must be stored in a clean and dry area

### 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 in not normal operating conditions (see above) they are only limited applicable.

- Do not use lifting points in connection with acids or bases or their steams. If the application is in a chemical surrounding please ask our technical expert
- Do not load lifting points when links contact edges
- Do not rotate lifting points under load
- Do not lift persons
- Do not choke hitch
- 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
- The equipment, where the lifting points are mounted on, has to meet the requirements of the machinery directive 2006/42/EG
- Choose adjustment of lifting points so that you have a symmetric load. Center of gravity must be under the lifting point
- Base material must be so strong that the force induced can be absorbed without deformation
- Choose lifting point with adequate WLL – see table
- Screwing area must be flat and provide with a diameter of minimum as big as the supporting surface of the lifting point. Threaded hole with an adequate depth must be in the middle and right angled. Whole screw must be screwed in (blind hole)
- Minimum screw penetration:  
1 x M in steel (M = threadsize e.g. M20 = 20 mm)  
1,25 x M in cast iron steel  
2 x M in aluminium
- Threaded hole must be cleaned before screwing
- For a unique lifting process the screw can be tightened manually by means of a appropriate tool. If the lifting point stays on the load, mount the screw with the specified tightening torque – see table
- If necessary (e.g. if vibrations occur) use liquids for securing the thread (please note manufacturer's instructions)
- Make sure before each use that the lifting point is screwed in completely, and the support surface fully touches to the load

### Demanding conditions

Temperature	below -40 °C	-40 °C to 100 °C	100 °C to 200 °C	200 °C to 250 °C	250 °C to 350 °C	above 350 °C
Load factor	not permissible	1	0.85	0.80	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!

- Make sure that adjustment of lifting points will not lead to a wrong load, e.g. if:
  - there is no possibility to align in direction of tension
  - direction of tension is not acc. to picture 1
  - the link contacts edges or surfaces acc. to picture 4
- Use only pewag original parts – recognizable by stamping (WLL, thread)
- It is not allowed to modify the lifting point, e.g. weldings, heat treatments and surface treatments (galvanising) are prohibited
- Mount only lifting points that are without defects
- Check used lifting points acc. to service manual before application
- After mounting lifting points must be rotatable and hinged

## 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 can be implemented regularly. We also recommend a crack test every two years. The screw must be taken out from the body
- 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 in 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 you can remove them with carefully polishing or filing. After repairs, repairs area must be intergradient, without a sudden change in cross-section. Due to complete elimination of the error may be the cross-section by no more than 5 % decreases
- Welding procedures and heat treatments are prohibited

Each lifting point PLAW is marked with a unique number.

Exact dimensions can be found on our website [www.pewag.com](http://www.pewag.com) under industrial chains/lifting points.

### pewag austria GmbH

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## Declaration of conformity

According to Annex II A of the Machinery Directive 2006/42/EG and Machinery Safety Regulation 2010 for lifting device:

### Description/ Denomination:

Lifting points pewag winner profilift alpha PLAW

**Identification:** Lifting points PLAW

### Authorized person for the configuration of the declaration documents:

Ranko Ivanic, pewag austria GmbH, 8605 Kapfenberg

We declare in our sole responsibility that the product mentioned in this certificate fulfills the relevant conditions of the Machinery Directive 2006/42/EG and that the mentioned standards have been applied. In case of any not by pewag approved changes of the product this declaration gets invalid.

### The following standards were applied:

EN 1677-1, DIN ISO 9001

It is a precondition to put the product into service that the instruction for use has been read and understood.

Kapfenberg, 2013-02-01

pewag austria GmbH  
Karl Schmid

Subject to technical modification and printing errors.