

# Translation of the original operating instructions

## pewag Disposable webbing slings

### Intended use

#### Lifting operations, One-off transportation of goods - from the production to the end user

Use only by authorized and instructed persons and in compliance with DIN 60005 Appendix C and of national regulations. Austria: AM-VO; Germany: DGUV rule 109-017; DGUV-I 209-061.

### Restrictions on use

#### Restrictions on use because of environmental influences or dangerous application

- Use in chemicals: Use in alkalis (lyes) is prohibited! If higher concentrations are suspected to acids or alkalis, also through evaporation, take it out of service immediately. When in doubt, always obtain information from the manufacturer, also in case of the cleaning. Do not expose metal fittings to acid set conditions.
- Use permitted only in the temperature range of -40° up to +100°C. Use wet lifting straps not at low temperatures, as there is a risk of icing here. The temperature range when using chemicals may change.
- Disposable webbing slings are prone to cuts/tears and abrasion. For loads with sharp edges use only with suitable edge protectors. An edge is considered sharp if the radius is less than the strap thickness, e.g. edge radius < 1.8mm for usual disposable webbing slings with a strap thickness of 1.8 mm. Use protective hoses for rough surfaces.
- Avoid ultraviolet light or direct sunlight in longer use and storage.
- Disposable webbing slings must not be reused, and must be destroyed at the end of the transport chain.

### Before first use

- Make sure that the disposable webbing slings are exactly corresponding to ordered.
- Make sure that the manufacturer's certificate, the operating instructions and the EC declaration of conformity are available.
- Make sure that the marking and Working load limit (WLL) corresponds to the certificate.
- Make sure that only trained and instructed people carry out lifting operations.

### During the one-way transport process

Disposable webbing slings have to be checked during the transport process regularly by experts for defects and damage. Examples of defects and damage are: Substantial chafe, cuts, seam ruptures, softened or brittle fibers, flaking of surface fibers, glazed appearance from overheating, illegible or missing label.

Such disposable webbing slings must not be used, they must be scrapped or handed over to a competent person.

### Selection and use

- Choose the right lifting gear, taking into account the load weight (mass), center of gravity, suitable attachment points and a suitable type of attachment.
- The selected disposable webbing sling must have both a sufficient strength as well as the right length. If more than one disposable webbing sling is used, always use the same types.
- Disposable webbing slings must not be overloaded. The correct mode factor must be taken into account, as well as the max. angle of inclination  $\beta$ .
- Use only suitable and sufficiently dimensioned attachment points. Webbing slings must not be knotted, not twisted and not extended by lacing one to another. For loop straps, the length of the loop on the hook should be at least 3.5 times the maximum thickness of the hook. The opening angle of the end loops must not exceed 20°. Only use proven lifting and attachment techniques, take into account the appropriate work load limit according to the labels, e.g. lacing. The attachment process, lifting and setting down processes should be planned before starting the lifting operation.
- Attach disposable webbing slings in a way that they carry the load with full width, also in the crane hook. Exception, only for webbing slings with less than 75 mm width: The radius of curvature in the hook must be at least 0.75 times the carrying width of the lifting sling. Example: For standard disposable webbing slings with a width of 50mm the radius of curvature in the hook must be at least 37.5 mm. If in doubt, do not use loop straps type B or straps with too big width, but use metallic end fittings.

- f) Seams and labels must be placed always in the straight part, they must not lay up on the hook or the load.  
Protect sensitive loads against rubbing or pressure from disposable webbing slings. Do not drag the load with disposable webbing slings or slings themselves across the floor or rough surfaces.
- g) Secure the load against falling out, slipping or tipping.  
Attach disposable webbing slings so that the bottom of the hook is placed directly above the center of gravity of the load. When using basket hitch, the load must be secured, also that the disposable webbing sling does not slip through the bottom of the hook. For disposable webbing slings used in pairs, the use of e.g. A traverse is recommended, so that the individual strands are hanging as vertically as possible. When using a disposable webbing sling in the lacing, it must be attached in such a way that it can form a natural lacing angle (120°). The disposable webbing-sling may never be forced into a position. Do not tighten the lacing! A double lacing is more secure against slipping.
- h) Persons must leave the dangerous area when lifting.  
Keep away hands and other parts of the body when the webbing sling is tightening. For planning and management of lifting operations and safe working systems we refer to compliance with ISO 12480-1.  
Carry out a test lift at a low height, eliminate foreseeable dangers, e.g. due to tipping, repeat test lift until stability of the load is ensured. Avoid rotation or collision with other objects.
- i) Avoid impact loading by tearing or jerk loading.
- j) Set down the load in a controlled manner, the load must not be placed on the disposable webbing sling.
- k) Disposable webbing slings must be taken out of use and be scrapped after the end of the lifting process.
- l) Damaged disposable webbing slings must not be used at all. Repairs may under no circumstances be done by the user.
- m) Polyester (PES) is light- and heat stabilized, and has therefore no expiration dates.

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