

Instructions for the safe use of Blue Wave Lifting Shackles

In accordance with Directive 2006/42/EC Machine Directive

The Information in this leaflet should be passed to the user of the equipment

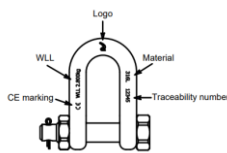
1. Introduction

All Blue Wave CE Shackles have been manufactured and tested in accordance with the instructions within directive 2006/42/EC Machine Directive

All Shackles are manufactured AISI 316L Stainless Steel and proof load tested to 2 x WLL, break load teste with the safety factor 6:1. Using equipment calibrated to DS/EN ISO 7500-1

2. Product Description & Application

Blue Wave CE Shackles are manufactured as a closed body shackle with a screw pin locking mechanism. Each CE shackle is marked with size, batch number, CE mark and Working Load Limit (WLL).



All Blue Wave shackles have a specific design for a specific application. Blue Wave CE shackles are manufactured for general lifting applications. **Blue Wave CE shackles must not be used for lifting people or used on other equipment to lift people.**

3. Safety Instructions

To prevent accidents and ensure safe operation:

- Always inspect shackles before use.
- Never exceed the Working Load Limit (WLL) indicated on the shackle.
- Only use shackles that are clearly marked with identification and load capacity.
- Ensure the pin is fully inserted and secured.
- Do not use shackles that are cracked, bent, or show signs of wear.
- Never replace a shackle pin with an unauthorized component.

4. Correct Usage

To use shackles safely and correctly:

- The screw pin must be fully engaged, with the of the pin in contact
- Any replacement cotter pin must meet the or exceed the original manufacturer's specification

- Contact with sharp edges that could cause damage to the shackle should be avoided
- Avoid shock loading
- The load applied to the shackle should be centered in the bow of the shackle
- Always use the shackles as shown in fig. 2
- Avoid side loading; shackles are designed for straight-line tension. See fig. 1
- In case of sideload be aware of the reduction In WLL see table. 1
- Dee Shackles must only be loaded in line no element of side loading
- The screw pin must not be used in a manner that would cause the pin to unscrew.
- Shackles should not be dragged on an abrasive surface
- Dee shackles should not be used with multiple slings for that application a bow shackle should be used instead.
- For long-term installations the safety pin shackles the cutter pin should be used. The pin should be secured from rotation or loosening.

Load angel	New WLL
0°	100%
45°	70%
90°	50%

Table 1

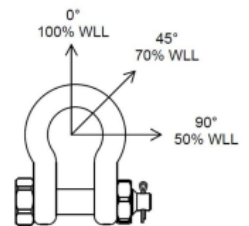


Figure 1

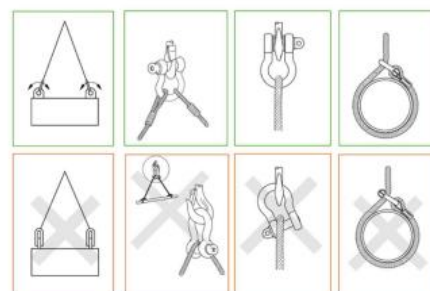


Figure 2

Instructions for the safe use of Blue Wave Lifting Shackles

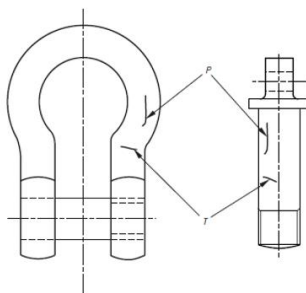
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6. Maintenance and Inspection

Before Each Use:

- Visually inspect for deformation, wear, corrosion, and cracks. See fig 3.
- Check that the pin threads are intact and not damaged.
- All markings are legible
- The shackle is not exposed to extreme heat, chemicals and corrosion



Key:
P Contour of the body or pin
T Transverse contour of the body or pin

Figure 3

Periodic Inspection:

It is required that shackles are regularly inspected and that the inspection should take place in accordance with the safety standards given in the country of use.

It is required because the products in use may be affected by wear, misuse or overloading etc. with a consequence of deformation and alteration of the material structure.

The inspection should take place at least every 12 months and even more frequently when the shackles are used in severe operating conditions

7.Retirement Criteria:

Replace shackles immediately if any of the following is observed:

- A crack or deformation
- Excessive wear
- Missing or damaged components
- If it is known that the shackle has been used for excessive load

8. Storage

- Store in a clean, dry place away from moisture and corrosive chemicals.
- Keep shackles off the ground and avoid stacking under heavy loads.
- Ensure the shackles are not exposed to extreme temperatures or direct sunlight for long periods.

10. Contact Information

For further information, or replacement parts, please contact the equipment supplier or manufacturer.

By following this manual, users contribute to compliance with these EU directives and ensure safe operations in the workplace.