

# CERTIFIED SHACKLES

## THE RIGHT CHOICE FOR SAFETY

With more than 90 years of manufacturing experience, we have earned our reputation as a world leading manufacturer of stainless steel rigging hardware. We have been an ISO 9001 certified company for more than 10 years.

The Blue Wave CE shackles are made from acid proof stainless steel, they are tested & certified for lifting ensuring high safety and functionality. We have been focusing on quality and properties to offer the best value for money product.

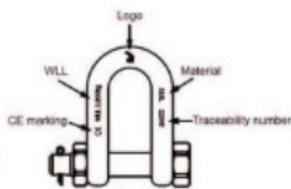
All stainless steel material come from European steel mills.

The European standard, EN 13889, specifies the requirements for forged Stainless steel "D" and "Bow" shackles for general lifting. They are tested to withstand the most demanding environments.

All shackles are batch tested with full traceability in our factory in Denmark. They are proof load tested to 2 x WLL.

Test and inspection certificate to EN 10.204 3.1 can be supplied upon request.

Kindly contact one of our sales team to learn more about the CE shackles.



Ensure that your shackle has the pictured obligatory markings.

### Instructions for safe use of CE shackles

The CE-shackles are optimal for lifting systems and connection with other elements. The shackles are according to the European directive 2006/42/EC for lifting accessories.

All shackles are manufactured out of Stainless steel AISI 316L or HR steel PH 17-4.

### The marking and identification of the Blue Wave shackle

- CE marking in accordance with directive 2006/42/EC.
- WLL Working load limit in kg.
- Blue Wave logo.
- Material AISI 316L or HR 17-4 PH.
- Traceability number.

### Operating instructions

- The user is obliged to keep a valid test certificate for any shackle being used in operation.
- Ensure following before use.
  1. All markings are apparent and readable.
  2. The body and the pin are free from dents, deformation, cracks, corrosion or unduly worn.
  3. The treads are not damaged.
  4. The pin is fully screwed.
- Ensure that the pin is safely locked.
- Never exceed the WLL stated on the shackle body.
- Never modify, repair or reshape a shackle by welding, heating or bending as this will affect the nominal WLL.
- Avoid applications where the shackle pin can rotate.

**ANY DOUBTS THE ABOVE CRITERIA BEING MET, THE SHACKLE SHOULD NOT BE USED!**

LOAD ANGLE	NEW WLL
0°	100%
45°	70%
90°	50%

Be aware for reduction of WLL in case of side loads. This should be avoided as the product is not designed for this purpose.

