Gunnebo Industries HDG shackles are designed to meet the specific demands from the global aquaculture industry. The shackles are produced from a grade of steel that has been developed to comply with the industry standards. Our modern manufacturing facilities in Norway are self-sufficient, from the initial tooling design and manufacture, through the component production facilities. All aspects of production are continually monitored at all stages: including forging, heat treatment, machining, hot dip galvanizing and final quality inspection. We have an extensive experience of shackle production using modern manufacturing methods.

Our Mooring shackle no. 852 has been developed specifically for the Aquaculture industry, with its unique feature of a counter sunk bolt which locks the shackle, and with increased material thickness in the bow we have improved the fatigue resistance. With all our mooring shackles we are able to offer several securing options; standard or tailored. For many years our unique no. 852 mooring shackle has been used extensively in the Aquaculture industry.

Gunnebo Industries have improved this type of shackle through continuous improvement to satisfy the exacting demands of the Aquaculture industry. To fulfil one of these demands we have added countersunk shackle type A0830 to our portfolio of aquaculture products. We offer countersunk shackles both in Dee and Bow form.

**Mooring Shackle No 852**

Standard: Third party approved acc. to relevant Norwegian aquaculture standards

Material: High Tensile Steel. Quenched and Tempered, Grade 6

Finish: All parts hot dip galvanized + brown colour marking

Plastic clip provided as standard safety pin for 28T - 90T, Stainless steel A4 split pins provided as standard for 110T and 150T

<table>
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<th>Art.no</th>
<th>D Trade size</th>
<th>MBL (tonnes)</th>
<th>A</th>
<th>C</th>
<th>E</th>
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<td>48</td>
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<tr>
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* These sizes come with a sunken hexagon bolt head that will greatly reduce the risk of the bolt unscrewing during use as well as making the fitting easier for the user.

**Customized securing options**

- Plastic covered seizing wire
- Plastic covered steel wire
- Stainless steel cotter pin
- Clips (28T to 40T) – Yellow
- Clips (60T to 90 T) – Green

**Mooring shackle No. 852**

- Sunken bolt locks into the shackle to prevent rotation (unintentional loosening of the nut).
- The sunken bolt also reduces the risk of the shackle interacting with the net.
- Fatigue resistance is increased by the addition of 25% extra material in the bow (increased life span and safety).
- Spacious bow for connecting thimbles, rope and mooring/connecting plates.
- Easy to operate; Only one tool needed to assemble/disassemble.
- Hot dip galvanized pins (normally zinc plated) C/W grade 8 nuts.

Dimensions in mm