

Test report: 5mm Oval Wire Rope Clamps

Test report no.: 200701-1

Client: Drahtseile24 GmbH

Task: Tensile tests on egg-shaped clamps
shaped clamps on both sides, nominal size 5mm

Test period: July 1, 2020

Inspector: Ingo Witthuhn

Test object: 5mm wire rope with egg-

Experimental setup

This series of tests describes tensile tests on wire ropes that have secured end connections on both sides with egg-shaped wire rope clamps.

The aim is to investigate which breaking forces the egg-shaped clamps described here achieve.
Tensile tests are carried out with three wire ropes described in the series.

These products were not developed and manufactured as slings or load-carrying devices. Use as lifting equipment, slings or load-carrying equipment, particularly within the scope of the Machinery Directive 2006/42/EC, is therefore not permitted.

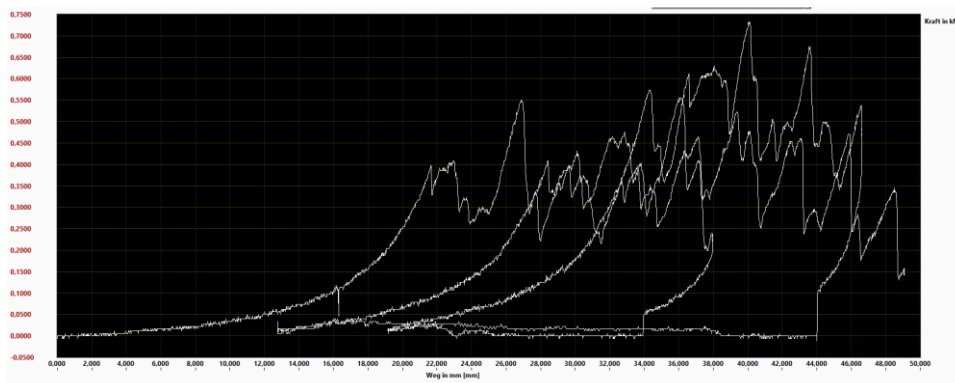
The egg-shaped wire rope clamps are used to easily assemble wire ropes and connect detachable rope end connections.

Note: Duplex clamps must not be used for lifting loads.

The tensile tests were carried out using a universal testing machine type
Zwick 1478, max. load 100kN, accuracy class 1, equipped with 100kN force sensor
Measuring rate : 50Hz

Tensile test No. 1-3: on July 1st, 2020: Wire rope 5mm 6x19+FE, batch 09220, with egg-shaped clamp NG 5mm on both sides, tightened with bit PH2 to 6Nm.

Clamping length approx. 0.47m Test speed: Fast translation, $\frac{1}{4}$ = 62.5mm / min. Rope holder: Bolt 12mm.



Result: Wire rope slipping through 5mm egg-shaped clamp at 0.39kN, max. payload with 3 times the safety factor for 5mm egg-shaped clamp = 40kg.

Ingo Witthuhn, Managing Director