

IMENCO Combined Weak Link

X-Mas Tree emergency release device - Combines Safe Lifting and Overload Protection in one unit.

A 100Te Combined Weak Link (CWL) has been developed and delivered by Imenco for use in the lifting line during subsea lifting operations of X-mas Trees and other subsea equipment.



Operation

The CWL combines 2 operational modes:

- 1) Safe Lifting Mode and
- 2) Weak Mode

When in Weak Mode, an emergency release breaking point at a desired value is included in the lifting line.

Switching between the two modes can be simply performed by work class ROV.

Design

The CWL has been subject to DNVGL design verification approval and has obtained Product Certification according to the DNVGL-OS-101 Drilling Facilities standard (Cat.1 equipm.). It is delivered certified and tested inclusive full documentation and user manual.

The CWL can be supplied with the desired lifting load capacity- as well as shear pin break value- according to client requirements.

For further information email commercial@imenco.com

SUBSEA PRODUCTS

Contact us for additional information or to get a quotation. Send an email to commercial@imenco.com or find personal contact info on our website.

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Features

- Ensures that the crane, winch or other components in the lifting line are protected against accidental overloading when the equipment is locked to seabed, thus preventing unforeseen breakage with possible severe consequences.
- Combines safe lifting and overload protection in one unit, thus avoiding line disconnection/ reconnection operations or other complex arrangements.
- The shear pin function is based on Imenco's wide experience of design, fabrication and calibration testing of shear pins.
- Standard Shackle interface for easy hook up.

Specifications

Design data, Lifting Mode

Static load capacity (WLL):	100Te
Dynamic factor ψ :	1,7
Design temperature:	+45/ -20 deg C

Design data, Weak Mode

Shear pin break load:	100Te +10Te/-3Te
Maximum shear/ break load:	110Te
Minimum shear/ break load:	97Te

L x W x D (with ROV handle)	860 x 330 x 630
Length C-C pad eyes	610mm
Diameter of pad eye holes	85mm
Thickness of pad eyes	118mm
Mating shackle size	120Te Green Pin Super Shackle/ 85Te Shackle
Proof load	176Te
Dry weight	260 kgs
Submerged weight	230 kgs

For further information visit www.imenco.com

