

General information



SAFETY SOLUTIONS

BRUDE MES[®] ORL

Marine Evacuation System with life rafts from



Introduction

- Brude Safety AS is a part of the Koppernæs Group that operates in 3 main sectors Marine Safety Equipment, Fish processing, and Supply chain management (fasteners and tools) The Group sales for 2005 totalled appr. EUR 70 Million. The Koppernæs Group employs 260 people on 3 continents.
- Brude Safety AS offers complete packages of safety equipment from quality producers. Our work starts with in-depth discussions with owners and naval architects as well as offshore engineering companies, ship yards, authorities and classification societies.
- From the Safety Plan and specification of the vessel or installation we work out comprehensive solutions for the overall fire, rescue and safety equipment on board, such as Marine Evacuation Systems, rescue boats, lifeboats and davits, fire-fighting systems, survival equipment, nautical equipment and other marine equipment.
- Within our main product areas we also offer consultancy services to assist owners in finding optimal solutions, and to fit these into their general arrangements as well as into their quality assurance system. We offer extensive training for crew and officers in the operation of evacuation systems and logistics. We offer owners aftermarket services for our products along the entire Norwegian coast and through our partners abroad.

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Types of Marine Evacuation Systems (MES)

- Brude Safety AS offers a variety of MES well suited for all passenger vessels.
- The KOPAS system, used on board catamarans and double ended ferries consists of a telescopic aluminium gangway with a build in raft. The system is released from the bridge, fully automated and need no crewmember for operation.
- All systems are tested in accordance with all relevant requirements under the supervision of See Berufs Genossenschaft (SBG) as the notifying body, and consequently all systems are EC-type approved. In addition the KOPAS system has obtained the USCG-approval.
- Brude Safety AS is also offering slide systems. This solution can also be used on catamarans and double ended ferries and are also EU-type approved by SBG.
- The company runs an extensive system of replacement rafts so that the vessels can continue operations uninterrupted.

Description of BRUDE MES ORL Twin pack for 300 passengers

BRUDE MES ORL 300 is developed to enable an efficient and safe evacuation of passengers on vessels in sea area up to D and evacuation heights from 3 -15 meters. All operations regarding manning of the system is manual and can be carried out by one crew member.

Components:

One complete deployment arrangement with evacuation chute and mooring system.
Two Brude twin packed life rafts of type DSB LR 97 R 150 person.

Description of Components:

Deployment arrangements consist of following components:

- Chute container, container door and launching ramp.
- All components are built in marine aluminium securing the strength and non corrosive design.
- The chute container is bolted to the vessel's deck and dimensioned to hold the launching ramp and chute in deployed position.
- The container door is released and opened by means of two gas cylinders. The launching ramp and chute are then pushed out and the chute are lowered down to the life rafts by gravity. All functions are manual.

Evacuation Chute:

The chute consists of cells in tilted position (zigzag) which enables a secure descent of personnel from the vessel to the life rafts. It is possible to climb out of the chute from each cell. There is also room in the chute for the crew to descend next to the evacuated passengers.

DSB life rafts type; Brude twin pack:

The Brude twin pack consists of two DSB 150 persons open reversible life rafts connected to each other. The twin pack life raft container is released from its rack, dropped to the sea surface and inflates simultaneously by pulling the release line. Total capacity per unit is 300 persons.

The life rafts are equipped with mooring lines which enables a safe and effective mooring of the rafts in position for the chute. The mooring lines are handled by a winch.

Spare life rafts type DSB LR 97 R.

Spare capacity life rafts may be used if one of the main life rafts by any reason is put out of function according to SOLAS. The rafts are of open reversible type. Straps are fitted which enables easy mooring of the spare rafts to the main raft. A suitable number of 51 person life rafts are used.

Releasing of twin pack life raft.

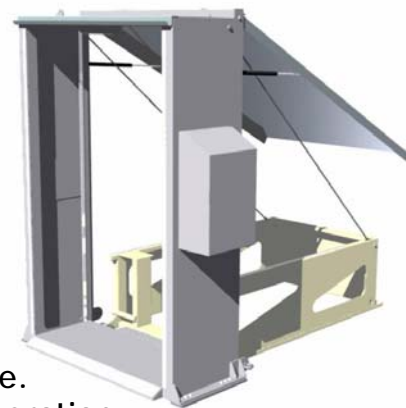
The twin pack container is released from the evacuation station where the chute container is located or locally from the container rack.

Releasing system consists of vacuum pump, vacuum pipe and vacuum trigger.

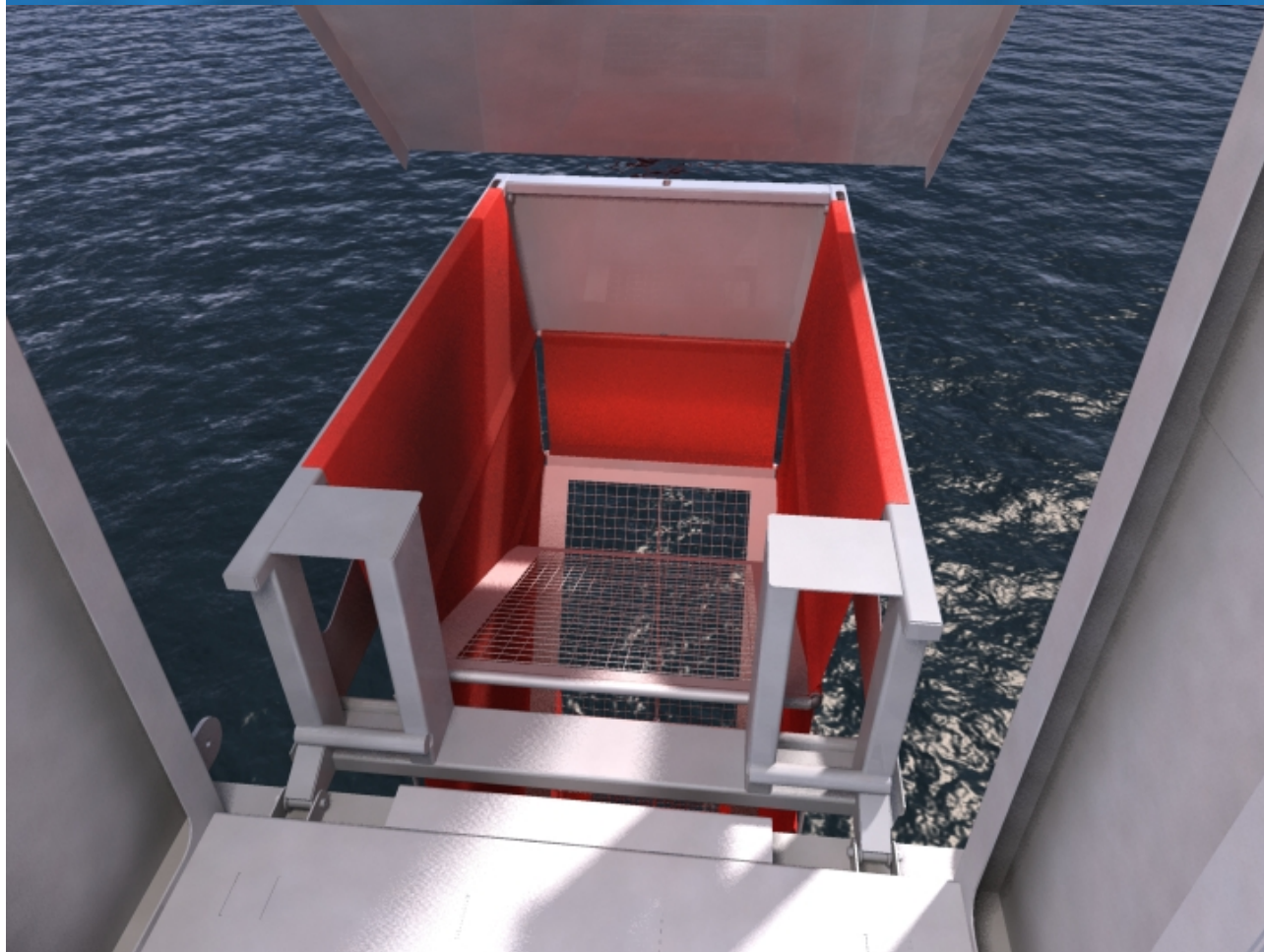
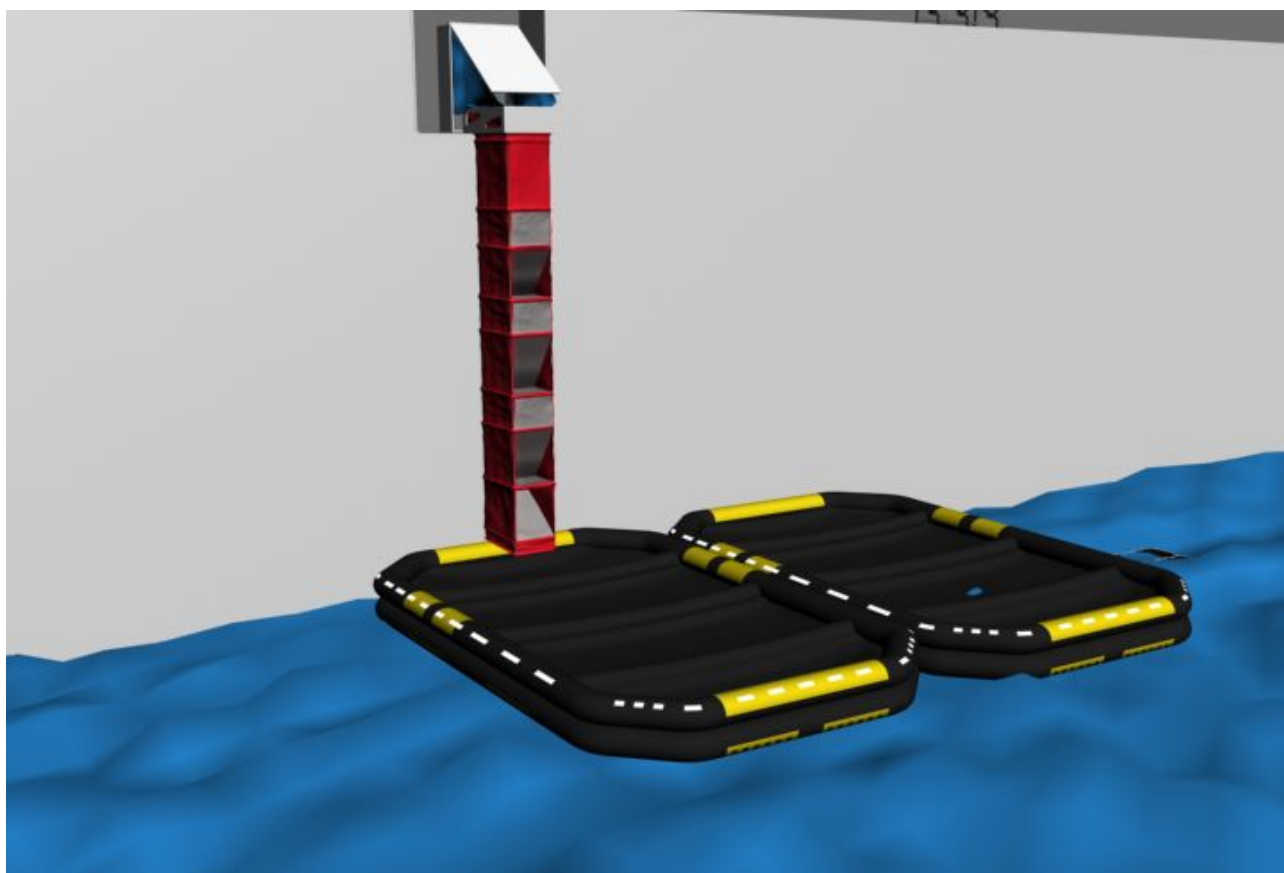
By operating the vacuum pump the vacuum trigger releases the container to drop into the sea. A hydrostatic release unit is also fitted to accommodate the free float requirement if the vessel sinks.

Advantages Brude MES 300







- Reduced area on deck. Footprint of chute container:
L=1,67m B=0,68m H=2,37
- Reduced number of functions might reduce number of crewmembers needed in handling evacuation equipment.
- Service costs are minimized due to onsite inspection of the chute.
An exchange system for rafts allows the shipowner continuous operation.
- Refits on vessels are easily made due to a minimum of work by contractor;
Only mounting of foundation on deck for chute container, liferaft rack and fixing details on shipside for mooring lines.
- Room in the chute for a crewmember to descend next to evacuating passengers.







Overview Brude MES

Description	Liferafttype	Evac. height
BRUDE MES KOPAS V	 50-150 ORL	1,5 - 4 m
BRUDE MES KOPAS V-AL	 50-150 ORL	1,5 - 4 m
BRUDE MES CHUTE	 100-300 ORL  150-450 SRL	3 - 15 m 3 - 15 m
BRUDE MES SLIDE	 50-300 ORL  100-450 SRL	1,5 - 3 m 1,5 - 3 m



BRUDE MES

• DSB ORL = Open Reversible Liferaft

• DSB SRL = Selfrightning Liferaft with canopy