

## Markus Man Overboard Scramble-net /Cradle SCN10-450 to 1200R CARGO Fact sheet 1 – Technical sheet

Designed for vessels with lifting height from 3 m (12') to 10 m (35'), see data table, with suitable rescue zone midship on both sides, such as rail or bulwark at the edge of the ships side, which the deck crew can lean onto when lifting a person manually. A suitable light crane system with 2 m boom at the rescue zone may be of advance to enable secure and effective rescue swimmer operation in recovery of an unconscious person.

**Width:** 200 cm (80") **Vertical length:** Variable, see data table – **Weight:** Variable see data table .

**Lifting height:** Variable, see data table on fact sheet 2.

**Note:** Allow 150 to 200 cm (60" to 80") below waterline to enable MOBs fyrst step.

### Methods of use:

- 1) Climbing, by max 9 persons at a time equally spread over the width.
- 2) Horizontal lifting of one person at a time manually by 4 deck crew,
- 3) For hoisting two persons at a time in horizontal position up the side of the vessel, with suitable mechanical hoisting systems and short boom.

### Other Specifications:

- Fastening to ship with 11 buckle loops or with 4 ropes on an extra link pipe.
- Stowage diameter maximum: 210 x 45 x 10 cm (84 x 18 x 4 Inches).
- Packing: PVC / Polyester fabric bag, colour **orange red**. *White, Gray and Black available as special order. Available without cover bag when ordered with Upper end aluminum bar and GRP outdoor storage container. PVC cover on GRP container when stored outdoor.*
- Made of Polyester webbing, and marine grade rigid plastic and metal parts.
- Each vertical webbing tensile tested in excess of 1000 kg. (2204 lbs).
- Each mesh tensile tested in excess of 500 kg: (1102 lbs).
- Tensile tested in excess of 6 metric tonne (13227 lbs) with equal load on each vertical fastening webbing loop on the upper end.
- Mobile: When stored indoors in the SCN10 GRP container with extra Link-Pipe.
- Made to LSA / SOLAS standard as applicable. Subject for SOLAS type approval.
- Supplied with Certificate of confirmity and relevant test reports.

### Storage and fastening options:

1. Mobile with an extra Link-Pipe equipped with 4 fixed ropes and snap hooks.
2. Ready fixed outdoor inside container to a rail or inside bulwark. Recommended when the unit is over 15 kg.

### Available SCN10 accessories and extra parts:

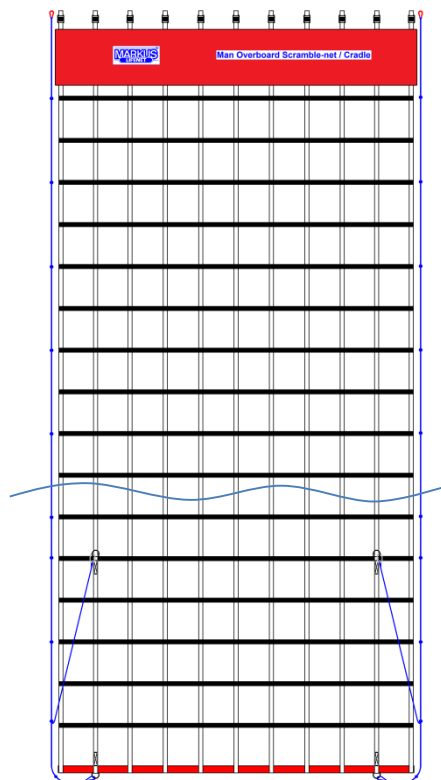
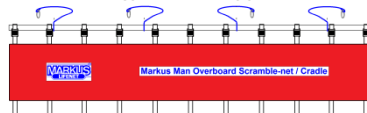
#### ML Part no. – Product name

- 7370002 - SCN10 Link pipe with 4 extension ropes, each with snap hook.
- 7370032 – SCN10 Storage box made of GRP for indoor or outdoor storage .
- 7370033 – SCN10 PVC outdoor storage box cover.
- 7370035 – SCN10 With alumiunm upper bar, (not with buckle loops and PVC fabric cover bag).

SCN10 Upper end "A" Aluminium Bar version.



SCN10 Upper end "L" Link-pipe version.



**Man overboard safety and rescue is our concern and speciality.**



## Markus Man Overboard Scramble-net /Cradle CARGO/SCN10-450 to 1200R Fact sheet 2 – Data table / Selection sheet

### \*Defination of :“manual lifting height”

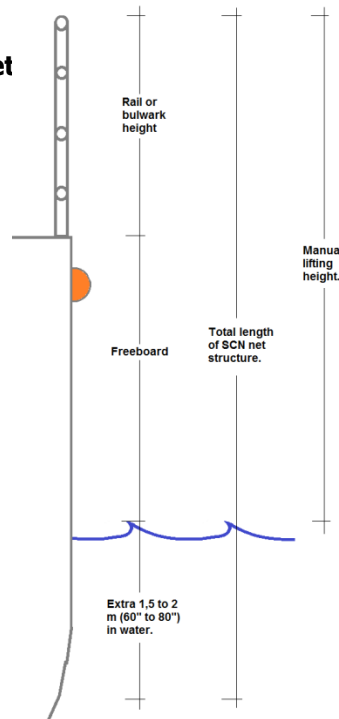
Manual lifting height is the length from water level to top of rail or bulwark.

**Size:** Width 200 cm (80“) x vertical length required \_\_\_\_\_.

**Note:** Allow 150 to 200 cm (60” to 80”) below waterline to enable MOB's fyrst step.

**Underline color selection of cover bag:** Orange Red, White, Gray, Black.

**The data table here below shows the version of the SCN10, what lifting height it is designed for and the assecories chosen with it.**



Type name and Vertical length in cm (inc)	Lifting height* max cm (inc)	Approxim. Weight kg (lbs)	GRP Distance Profile	With upper-bar only	With GRP Container	With Container Cover	Selected type marked
SCN10-450 (180)	300 (120)	15,0 (33,0)					
SCN10-500 (200)	350 (140)	15,8 (34,8)					
SCN10-550 (220)	400 (160)	16,6 (36,5)					
SCN10-600 (240)	450 (180)	17,4 (38,2)					
SCN10-650 (260)	500 (200)	18,1 (39,9)					
SCN10-700 (280)	550 (220)	18,9 (41,7)					
SCN10-750 (300)	600 (240)	19,7 (43,4)					
SCN10-800 (320)	650 (260)	12,5 (45,1)					
SCN10-850 (340)	700 (280)	21,3 (46,9)					
SCN10-900 (360)	750 (300)	22,0 (48,6)					
SCN10-950 (380)	800 (320)	22,8 (50,3)					
SCN10-1000 (400)	850 (340)	23,6 (52,0)					
SCN10-1050 (420)	900 (360)	24,4 (53,8)					
SCN10-1100 (440)	950 (380)	25,2 (55,5)					
SCN10-1150 (460)	1000 (400)	26,0 (57,2)					
SCN10-1200 (480)	1050 (420)	26,8 (59,0)					

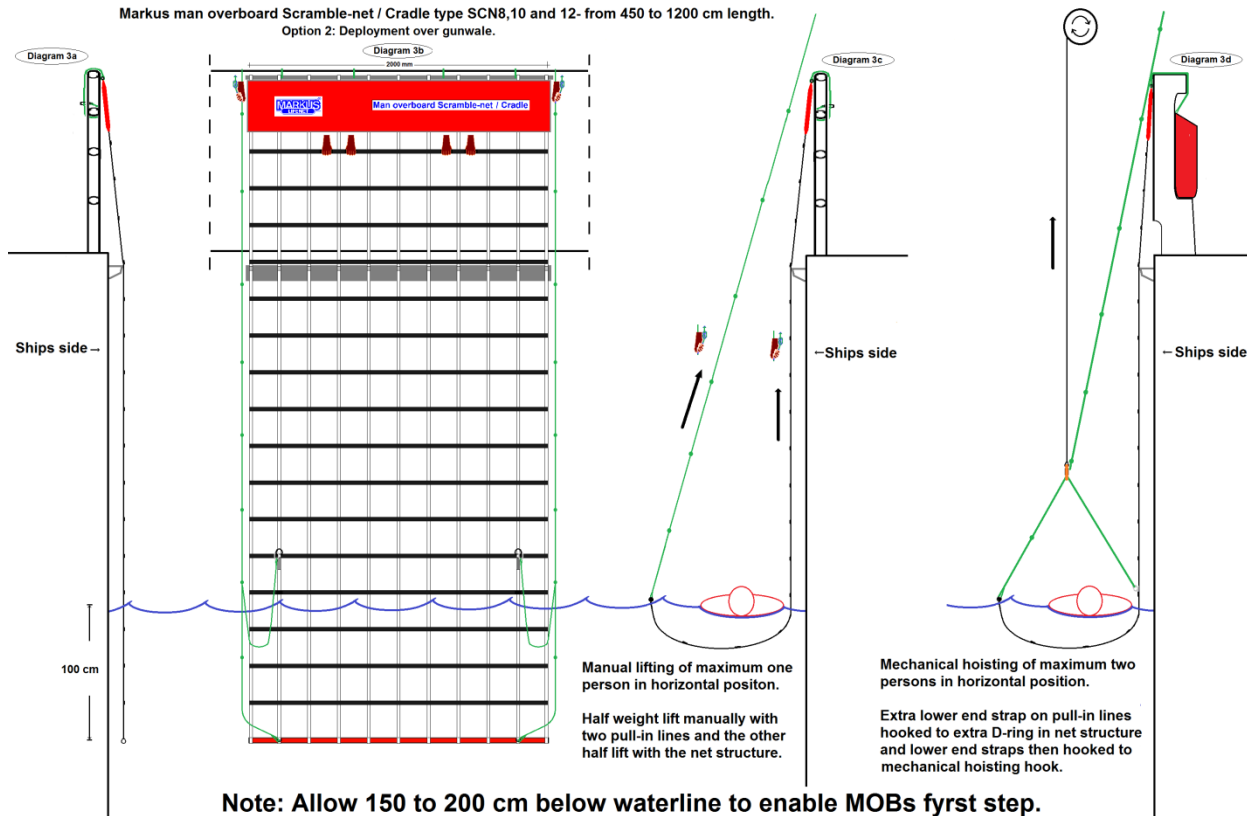
**Man overboard safety and rescue is our concern and speciality.**



## Markus Man Overboard Scramble-net / Cradle CARGO/SCN10-450 to 1200R Fact sheet 3 – Instruction diagrams

Diagrams of deployment possibilities and use of Markus Man overboard Scramble-net / Cradle applicable for SCN8, SCN10 and SCN12 of vertical length over 4 m (160")

Markus man overboard Scramble-net / Cradle type SCN8,10 and 12- from 450 to 1200 cm length.  
Option 2: Deployment over gunwale.



### Use manually to recover a conscious and active MOB.

Throw or shoot out line to MOB. Other crew members bring a mobile unit to the rescue platform and fasten to fastening eyes inside bulwark or to a rail. Release unit over the side. Pull the MOB to the unit and as the MOB has managed to step onto the net structure and secure his hands to it, lift him simultaneously on board.

### SCN10 with two knotlines at the sides equipped with extra lower end rope and snap hook used manually and/or by crane to secure rescue swimmer boarding and to recover an unconscious MOB in horizontal position.

Hook extra rope at the lower end of pull-in lines to the D-rings on the 5th horizontal webben from the lower end, and lower the unit either with the pull-in lines or by hooking the straps to crane hook. When the freeboard height is more than 3 m (12') the rescue swimmer should be lowered in the cradle dressed in drysuit, suitable lifejacket with rescue harness and attached to a lifeline, controlled during the operation by dedicated deck crew.

When the rescue swimmer has secure grip on the MOB, they both are pulled to the cradle and one at a time lifted manually or both hoisted to gether by the crane.

**Man overboard safety and rescue is our concern and speciality.**





## Markus Lifenet Ltd.

### *Certificate of Conformity*

This certificate provides assurance that the Markus Man Overboard (MOB) Recovery products are made in Iceland to the SOLAS/LSA code as applicable for man overboard recovery and is at present a subject for SOLAS Certificate of Type Approval.

The Markus MOB Scramble-net / Cradle / Scoop type SCN, former names MEL2, LBR4, MBR6 and SCN6, 8 or 10, is a commercial man overboard recovery system, mainly constructed from polyester webbing, polypropelen rope and PVC and PU fabric. Standard metal parts are made of marine grade material.

The Markus SCN material and joints have been tensile tested by independant test service centre, the Innovation Centre in Iceland to withstand the tencile strength listed in the technical sheet for each product and performance tested in rough sea conditions on the Icelandic Coastguard ships Thor and Ægir.

The Markus MOB Scramble-net / Cradle products type SCN do not contain either Asbestos or PCB.

Issued 1st January 2015 by

A handwritten signature in blue ink, appearing to read "Petur Th Petursson".

Petur Th Petursson, Managing Director.

**Man overboard safety and rescue is our concern and speciality.**

