

## Markus Man Overboard Scramble-net /Cradle SCN12-450 to 1200R CARGO Fact sheet 1 – Technical sheet

Designed for vessels with freeboard 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 surface rescue swimmer operation in recovery of an unconscious (helpless) person.

**Width:** 240 cm (96") **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 4 persons on each 2 mesh row at a time equally spread.
- 2) Climbing by maximum 16 persons at a time.
- 3) Horizontal lifting of one person at a time manually by 4 deck crew,
- 4) 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 13 buckle loops or with 4 ropes on an extra link pipe.
- Stowage diameter maximum: 250 x 45 x 20 cm (100 x 18 x 6 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 aluminim 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 1500 kg. (3307 lbs).
- Each mesh tensile tested in excess of 500 kg: (1102 lbs).
- Tensile tested in excess of 10 metric tonne (22046 lbs) with equal load on each vertical fastening webbing loop on the upper end.
- Mobile: When stored indoors on a shelf ready with extra Link-Pipe.
- Made to SOLAS / LSA standard as applicable. Subject for SOLAS type approval.
- Supplied with Certificate of confirmity and Green Passport .

### 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 to 20 kg.

### Available SCN12 accessories and extra parts:

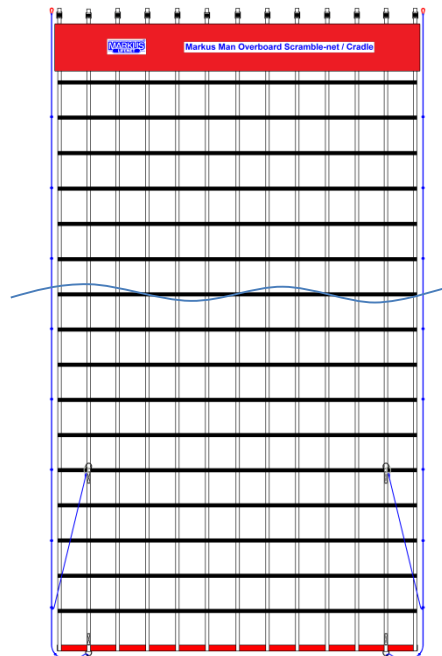
ML Part no. – Product name

- 7300005 – SCN SS hook for 30 mm diam. Pipe (deck and storage hook)
- 7380002 – SCN 12 Link pipe with 4 extension ropes, each with snap hook.
- 7380032 – SCN12 Storage box made of GRP for indoor or outdoor storage .
- 7380033 – SCN12 PVC outdoor storage box cover.
- 7380035 – SCN12 With aluminim upper bar, (not with buckle loops and PVC fabric cover bag).

SCN12 Upper end "A" Aluminium Bar version.



SCN12 Upper end "L" Link-pipe version.



## Markus Man Overboard Scramble-net /Cradle CARGO/SCN12-450 to 1200R Fact sheet 2 – Data table / Selection sheet

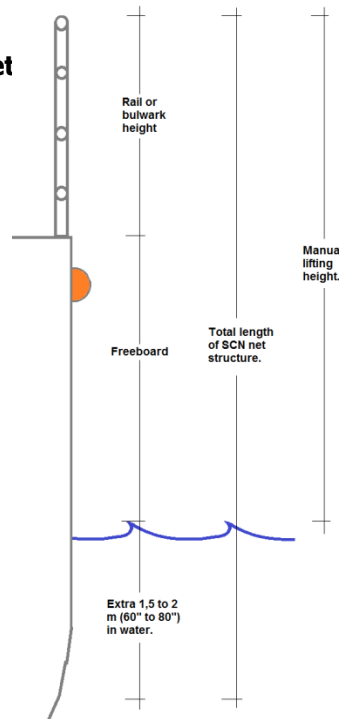
### \*Defination of :“manual lifting height“

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

Info in this form to be filled in by the manufacturer or his representative.

Type name : **SCN12-450R** Serial no.: **2536**

Date: **7.5.2018** Filled in by: \_\_\_\_\_



Size: Width 240 cm (96“) x vertical length required \_\_\_\_\_.

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

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

The data table here below shows the version of the SCN12, what lifting height it is designed for and the accessories chosen with it.

Vertical length in cm (inc)	Lifting height* max cm (inc)	Approxim. Weight kg (lbs)	With extra O-Ring strap	GRP Distance Profile	With upper-bar only	With GRP Container	With Container Cover	Selected type marked
450 (180)	300 (120)	18,3 (40,3)						<b>2536</b>
500 (200)	350 (140)	19,1 (42,0)						
550 (220)	400 (160)	19,8 (43,7)						
600 (240)	450 (180)	20,6 (45,5)						
650 (260)	500 (200)	21,4 (47,2)						
700 (280)	550 (220)	22,2 (48,9)						
750 (300)	600 (240)	23,0 (50,7)						
800 (320)	650 (260)	23,8 (52,4)						
850 (340)	700 (280)	24,6 (54,1)						
900 (360)	750 (300)	25,4 (55,9)						
950 (380)	800 (320)	26,1 (57,6)						
1000 (400)	850 (340)	26,9 (59,3)						
1050 (420)	900 (360)	27,7 (61,0)						
1100 (440)	950 (380)	28,5 (62,8)						
1150 (460)	1000 (400)	29,3 (64,5)						
1200 (480)	1050 (420)	30,0 (66,2)						

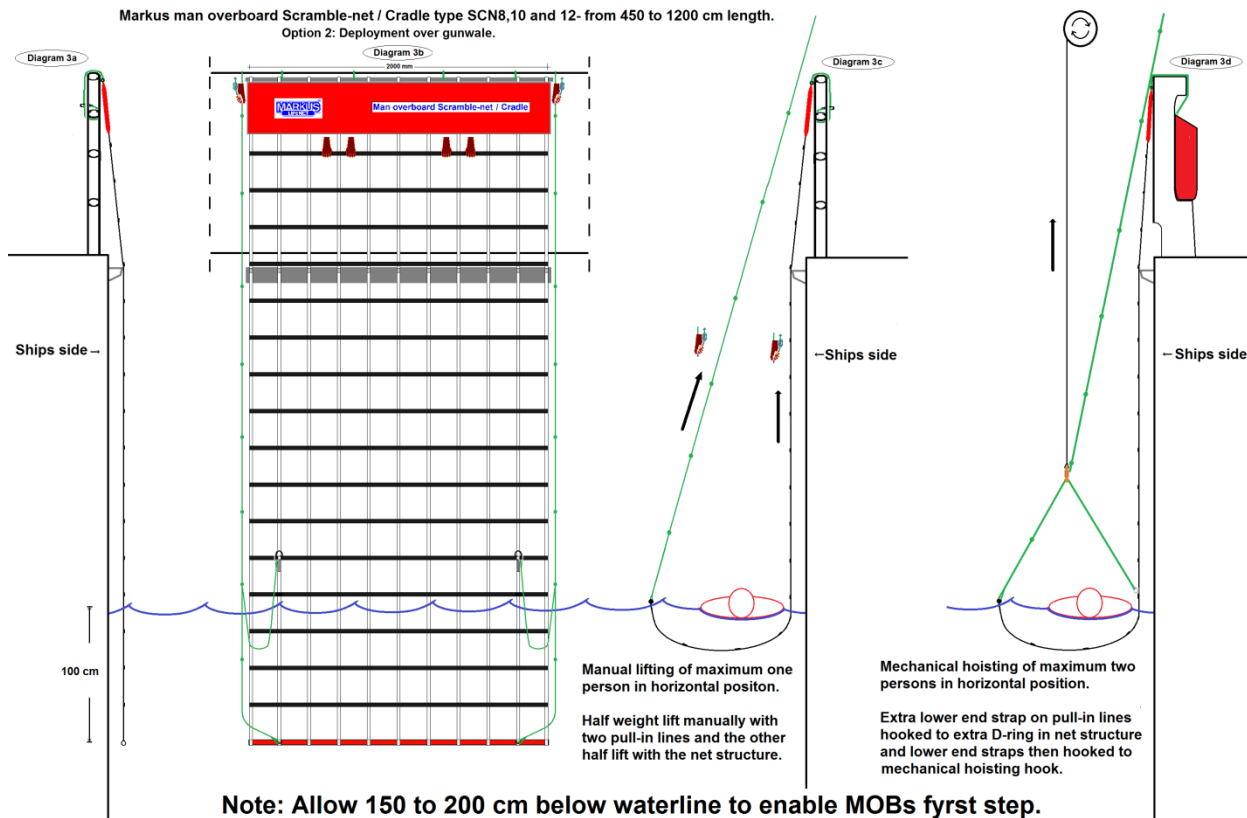
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## Markus Man Overboard Scramble-net / Cradle CARGO/SCN12-450 to 1200R Fact sheet 3 – Instruction diagrams

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.

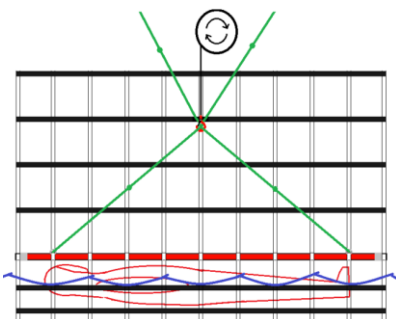


### Used manually to recover a conscious and active person.

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.

### Used manually to recover an unconscious (helpless) person in horizontal position.

Lower net into sea with snap hook on the lower end of Pull-in line hooked to the extra D-Ring on fifth step. Let vessel drift to the person or pull surface rescue swimmer (SRS) holding a helpless person to the net structure, allow him / her to place the person inside the stretcher formed at the lower end by the crew lifting the Pull-in lines and pull the Pull-in lines and the inner end of the net structure equally up with one person in it at a time.



The SRS tender person should look after the helper (SRS) while the casualty is elevated on board and the net is lowered again.

### Used with 3 m crane boom to hoist an unconscious person and SRS.

Hook light hoisting hook from 3 m crane boom to both straps formed on the lower end of the Pull-in lines. Lower net structure into sea with SRS dressed in drysuit, suitable lifejacket with rescue harness and attached to a tender line controlled during the operation by dedicated tender (deck crew). The SRS swims to the person and when he / she has secure grip on the MOB, they both are pulled into the cradle formed by lifting the lower end and both are hoisted on board.

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## Markus Lifenet Ltd.

### *Certificate of Conformity*

This certificate is a declaration from the Manufacturer that the Markus Man Overboard (MOB) Recovery products under the type name SCN are made in Iceland to the SOLAS/LSA code as applicable for man overboard recovery and is at present a subject for Certificate of Type Approval from Lloyds Register to meet the SOLAS Regulation III/17-1 and ISO/TC8/SC1 NP 19898 Standard draft on „Means of recovery of person from water“

The Markus MOB Scramble-net / Cradle / Scoop type name SCN are commercial man overboard recovery systems, 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 tested by independant test service centre, the Innovation Centre in Iceland to withstand the tensile 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.

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