Markus Rescue Cradle SCN12-250 to 400

Info Sheet - Technical Details

Document No: SCN12-250-400-TS
Revision: 2026.1

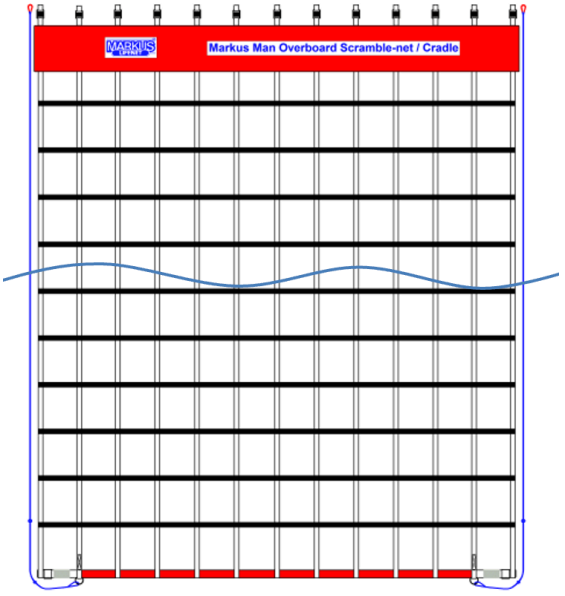
The Markus Rescue Cradle is designed for FRCs with lifting heights from 0.5 m (1.64') to 2.0 m (6.56'), with a suitable midship rescue zone. It is also suitable for Charter boats, Tourist boats, and Patrol boats.

Width: 2.4 m (7.87')
Vertical length: Variable.
Weight: Variable.
Lifting height: Variable.

Important: Add 2 m (6.56') below the waterline to enable MOBs' first step.

Methods of use:

1. Climbing,
2. Manual horizontal (parbuckle) lifting by two deck crew
3. Useable with mechanical hoisting system and short boom

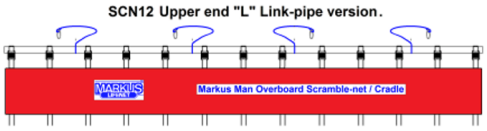


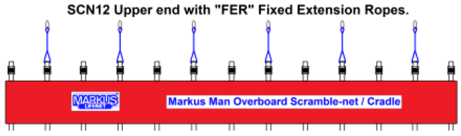
Other Specifications:

- Stowage diameter: 245 x 25 x 5 cm (98 x 10 x 4 Inches) 0.031 cubic meters.
- Weight from 10 kg to 12.4 kg (22 lbs to 27.3 lbs)
- Packing: PVC / Polyester fabric bag. Color: Orange Red. White, gray, and black are available as special order. Ordering an upper-end aluminum bar and GRP outdoor storage container is also possible.
- Made of Polyester webbing, marine grade rigid plastic and metal parts.
- Comes standard with two pull-in ropes: PP 10 mm dia. with knots at 50 cm intervals

Strength:

- Tensile strength
  - Each mesh tested in excess of **600 kg**
  - Each vertical webbing tested in excess of **1070 kg**
  - Total tensile strength of SCN12 tested in excess of **13900 kg** with equal load on each vertical fastening webbing loop on the upper end
  - Each lifting line knotted in excess of **770 kg**
- SWL
  - Each mesh is **113 kg**
  - Total SWL of SCN12 is **2548 kg** with equal load on each vertical fastening webbing loop on the upper end
  - Each lifting line knotted in excess of **129 kg**





Documentation:

- Made to LSA / SOLAS standard as applicable. Subject to SOLAS-type approval.
- Supplied with Certificate of Conformity.

Markus Rescue Cradle SCN12-250 to 400

Info Sheet - Technical Details

Storage and fastening options:

- All nets include 13 buckle loops for storage and fastening.
- Mobile Option One (Default): Fixed on an extra link pipe with 4 extension ropes and snap hooks.
- Mobile Option Two: Fixed onto rail or fastening eyes with 6 fixed extension ropes and snap hooks.
- Mobile Option Three: Stored indoors, laid flat and uncovered on a shelf, ready for use and deployment according to the methods above. This storage method minimizes repair needs.

Available SCN12 accessories and design components:

Product no. 7380002 – SCN12 Link pipe with 4 extension ropes, each with snap hook.
Product no. 7380011 – SCN12 fixed length of extension rope (FER) with snap hook. (6 pcs)
Product no. 7380012 – SCN12 100 to 200 cm (40” to 80”) adjustable extension rope (AER) (6 pcs)
Product no. 7380021 - SCN12 GRP distance profile.

Hypalon Patch with rectangle SS link for 25mm webbing



Product no. 7300002

SS Hook



Product no. 7300004

SS rectangular link, clip and two screws. To be screwed to GRP or aluminum construction.



Product no.: 7300003

The data table below shows the vertical length of the SCN12 units, the minimum freeboard it is designed for and weight of standard version.

Model Name	Vertical Length in cm (ft)	Suitable for Fixing Length Below	Approximate Weight in kg (lbs)	Number of persons fit for climbing
SCN12-250	250 (8.2)	0.5 m –1 m	15.5 (34.2)	4
SCN12-300	300 (9.84)	1 m –1.5 m	16 (35.3)	4
SCN12-350	350 (11.48)	1.5 m – 2 m	17.5 (38.6)	4
SCN12-400	400 (13)	2 m – 2.5 m	18 (29.7)	8

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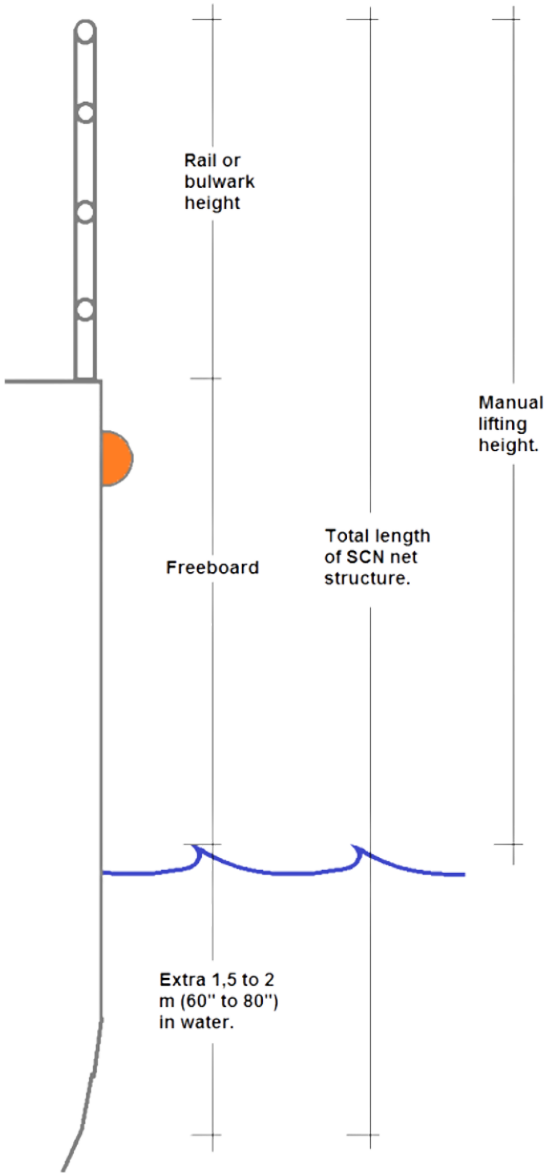
Info Sheet - Technical Details

Properly Sizing your Net

Properly sizing your rescue net is crucial for safe and effective vertical climbing and horizontal lifting during an emergency.

- **Vertical Length:** Measure the distance from the fastening point (e.g., deck or railing) down to the waterline, then add 1.5 to 2 meters.
  - Important: This ensures the net extends below the waterline by the recommended amount, allowing a MOB to place their foot securely on the lowest rung and climb to safety.

- **Width:** Select a minimum width of 1.2 meters (4 feet) to provide full spinal support when lifting a person horizontally.
  - Important: This width is crucial for safe and effective rescue operations.



Click Here for Our Net Sizing & Model Guidance

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Info Sheet - Technical Details

Possibilities and variations in use:

Markus MOB Rescue Cradle types SCN12-200, 250, 300, 350 and 400

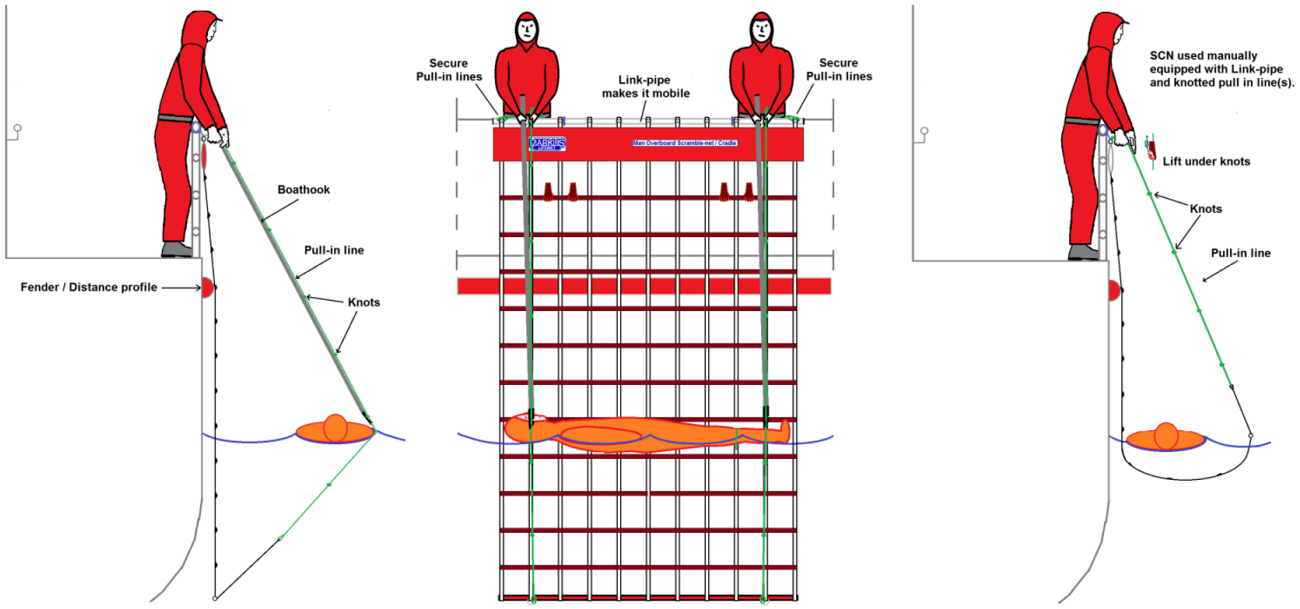


Image Above: Markus MOB Rescue Cradle types SCN12-250, 300, 350 and 400 **used manually at rail or bulwark.**

Applicable for: Pilot boats and FRCs with rail and minimum two deck crew.

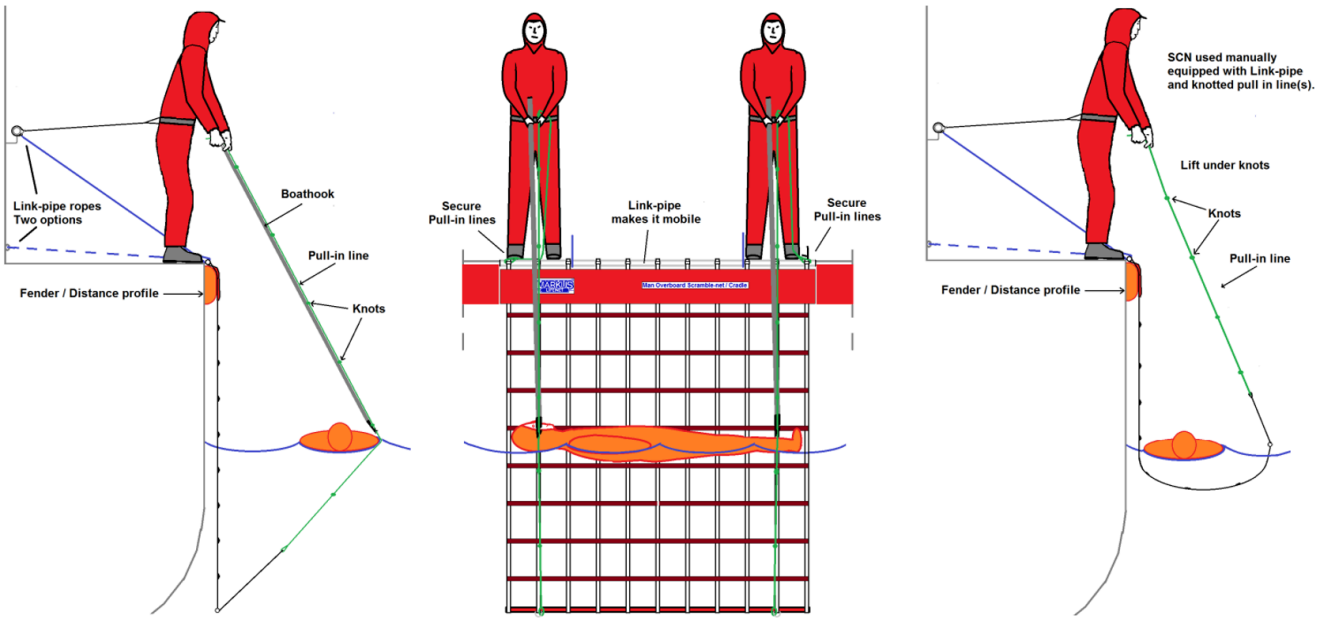


Image Above: Markus MOB Rescue Cradle types SCN12-250, 300, 350 and 400 **used manually on FRCs without rail midship and minimum two deck crew.**

Applicable for: FRCs without rail and minimum two deck crew.

Markus Rescue Cradle SCN12-250 to 400

Info Sheet - Technical Details

Important Notes:

Distance profile is a wooden plank or plastic profile to have just below deck level to hold the net structure from the vessel side. It can be built into the SCN12 unit, made of GRP material.

It is recommended that the unit is stored indoors when not in use and brought by two deck crew out and clipped onto a rail just before use on either side of the vessel at a preselected location. To make the maximum use of it the vertical length, add 2 meters (6.56') to the the freeboard height + any rail or bulwark height.

USE

- **Preparation:** Bring unit and boat hooks out and clip link pipe onto rail and preselected location. Open velcro and lower net over the side ready for climbing from water.

Basic use when person in water (PIW) is unable to help:

- **Approach:** Once in position, the net structure is lowered into the water. The vessel can then apply either side force or forward motion to guide the net beneath the PIW. Once the individual is secure within the net, crew members should pull both pull-in lines simultaneously to gently lift the PIW up to the deck, rail, or gunwale, ensuring a controlled and safe recovery.

- **Maintenance**: Wash the unit after use with fresh water, and allow to dry. Prior to repacking, ensure to inspect the net for any damage.

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