



## **Rapp Marine and Triplex** Full Lifecycle Resource for Oceanographic Load Handling Systems

## Cooperative History of Rapp Marine and Triplex

- Rapp Marine and Triplex brands are market leaders in the fishing industry, having been present in the industry for decades, often on the same vessels
- Both brands focus on delivering high quality equipment designed for the lifetime of the vessel
- Rapp Marine and Triplex began providing integrated solutions for research vessels in the early 2000's.
- Both deck machinery systems compliment each other for load handling requirements
- Now that both companies are members of the MacGregor family, Rapp Marine and Triplex are presently positioned to offer complete, single source load handling solutions
- Global market leaders for Oceanographic, Fishery and Polar Research Vessels
- 26 RV's delivered since 2002



## FISHERY

- Purse Seiners
- Trawlers
- Tuna vessels
- Long Liners
- Live fish carriers



Harsen Kocan

## RESEARCH

- Oceanographic
- Fishery
- Polar



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## SPECIALIZED

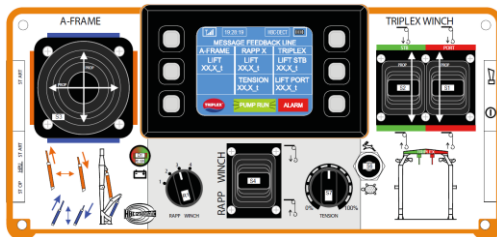
- AHTS'
- Tugs
- MPSVs
- OCVs



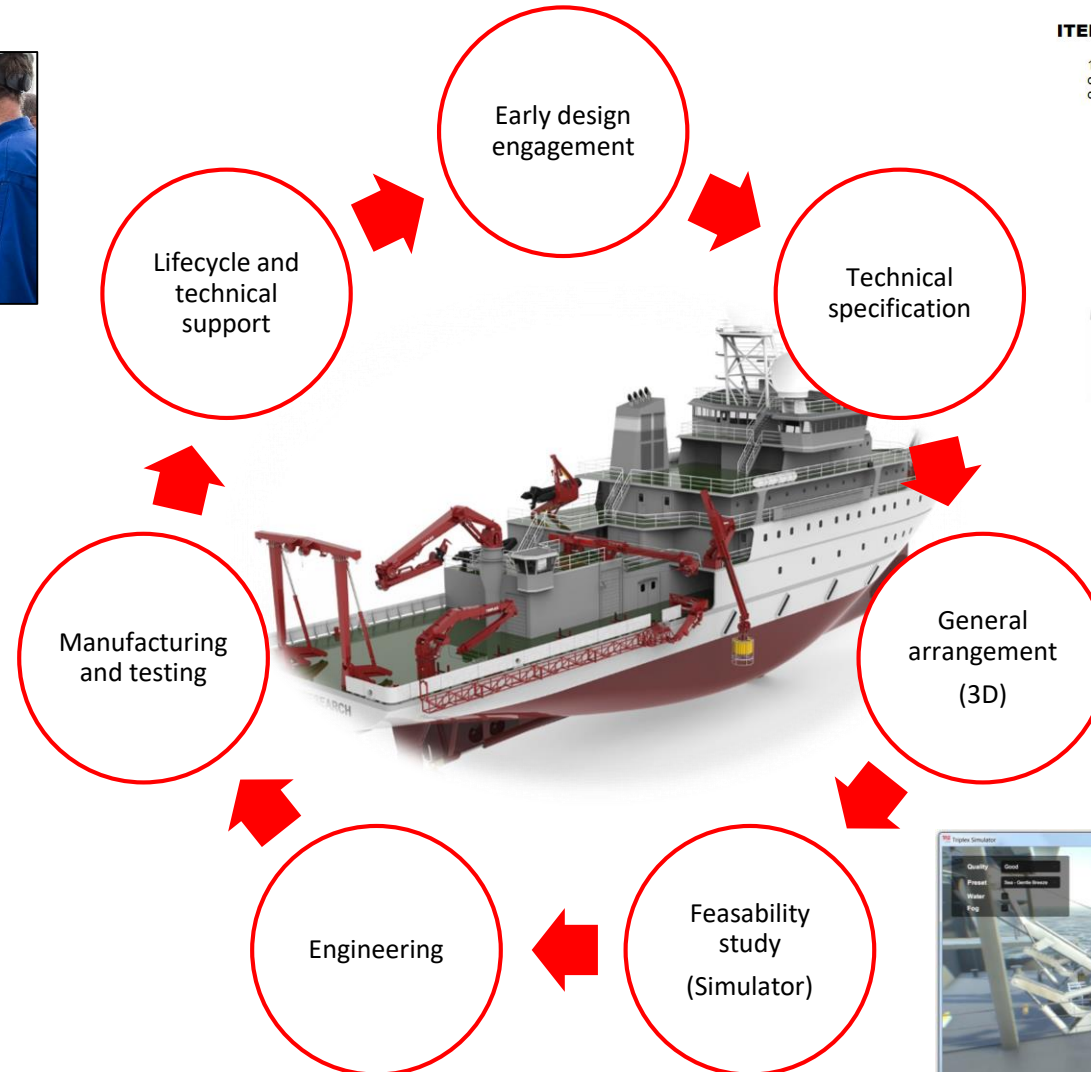
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## RAPP Marine and Triplex Integrated Solutions



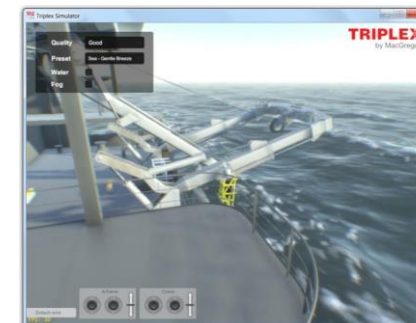
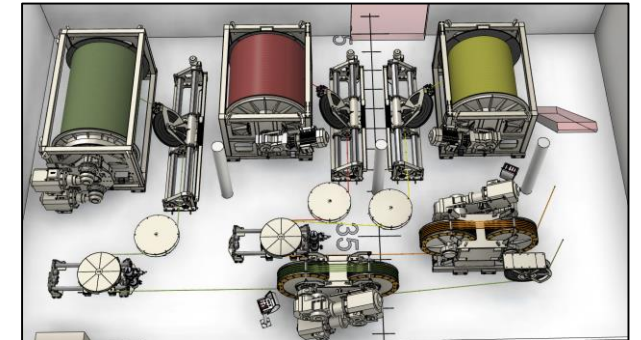
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### ITEM 1. Stern A - Frame

1 ea. 30.0 tons load capacity hydraulic operated A-frame, according to dimensional sketch no. 16988, delivered complete for installation on reinforced deck.



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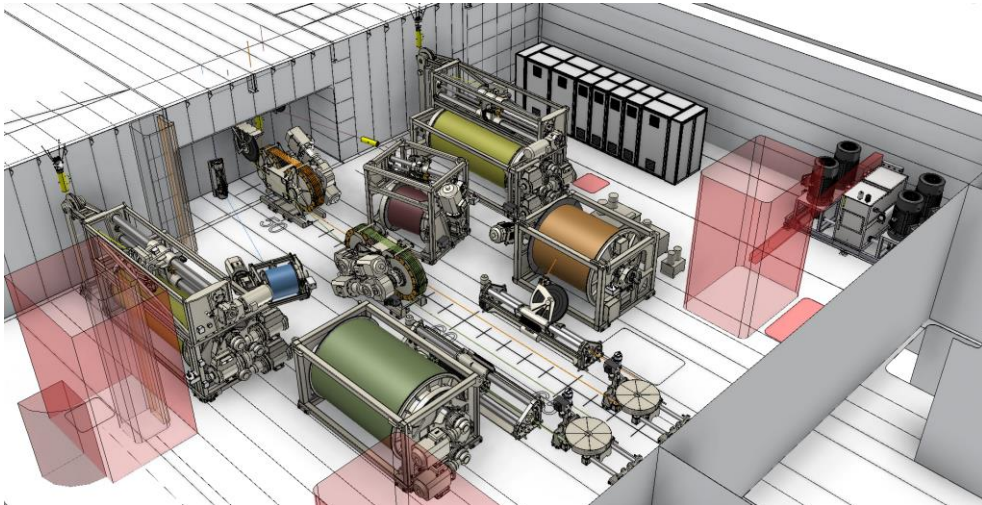
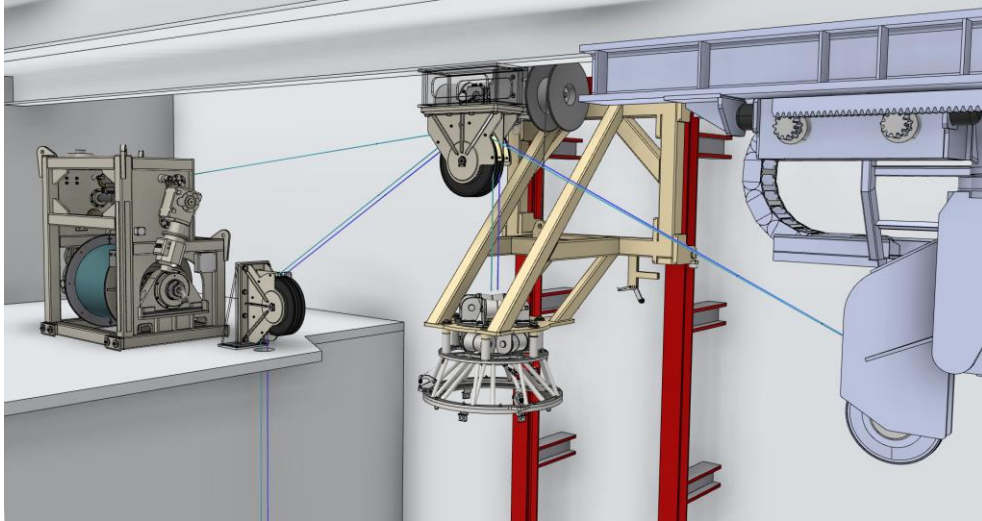
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### Scientific Profile Matrix - example

Equipment	Cable/Wire	Package Load (in seawater) (kg)	Package Load (in air) (kg)	Rope weight in seawater (kg/m)	Deployed length of cable (m)	Maximum Pull Force (kg)	Rope Braking Strength (kN)	Rope Recommended Working Load (kN)	Drum Rope Length (m)	Package Dimensions (WxHxL in m)	Winch Speed (m/min)	Sea State	Vessel Speed (knots)	Location of deployment	Handling Equip	Additional Equipment	Winch
Towed bodies Mechanical (stern)	9mm Synthetic rope	?	1 000	Approx. 0,0	400	4 000	60	40	2 000	2 x 1 x 2	60	5	12,0	Stern	Stern A-Frame	Sheave Block	GPW 2T or TRW
Towed bodies Mechanical (stern side)	9mm Synthetic rope	?	1 000	Approx. 0,0	400	2 500	60	40	2 000	2 x 1 x 2	60	5	12,0	Stern Side	Towing booms	Sheave Block	GPW 2T or TRW
1&2 wire heavy trawl - EO	22mm Wire 35x7	?	5 000	2,0	5 000	2 x 28.000	375		8 800	2 x 2 x 5	40 - 108	5	1,5 - 5	Stern	Trawl Gallows	NA	Trawl Winch(es)
1 wire light trawl - EO (stern)	17,35mm (A306100) 21,21mm (A307403)	?	1 000	0.874 1.299	7 500	8.000 8.000	191 206	45 57	10 000	4 x 4 x 10	60 - 99	5	0 - 12	Stern	Stern A-Frame	NA	Deep Sea Towing Winch
1 wire light trawl - EO (midship)	11.43mm (A308262)	?	1 000	0,353	6 500	5 000	72	17	7 500	3,2 wide	60 - 130	5	1,5 - 5	Midship moonpool	Cursor System	GFE	CTD
ROV (Stern)	TBC	?	2 500	?	0	?				1,5 x 1,5 x 2,3		5	1,5	Stern	Stern A-Frame	GFE	Tugger winch, or Stern A-Frame Aux Winch, or GFE?
ROV (midship)	12mm wire (Powerform 35 - 2160)	?	2 500	?	0	?				1,5 x 1,5 x 2,3		3	0,0	Midship Overside	CTD Overhead Crane	GFE	GPW 8T



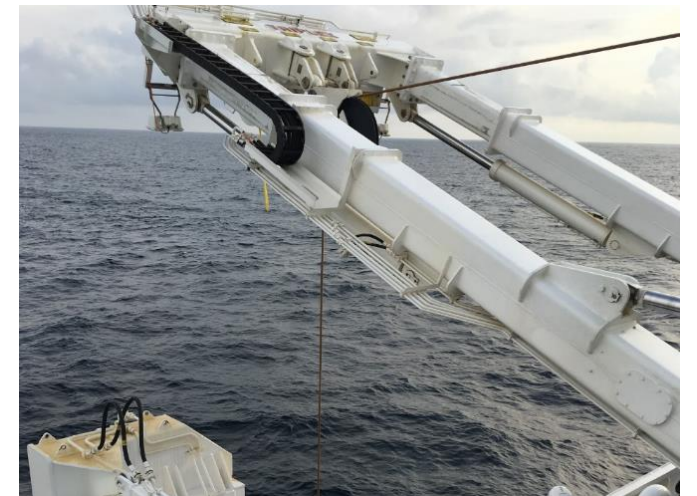
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**Thank you for your attention!**