CUSTOM SUPERYACHT HARDWARE SOLUTIONS

Others may make the “concept to completion” claim, but we provide it all—design, manufacturing, finishing—any process you require. Our engineers, expert purchasing staff, skilled machinists, and technicians will take your idea, drawing, or part, and deliver a higher-quality finished product, fully backed by the Harken Worldwide Warranty.

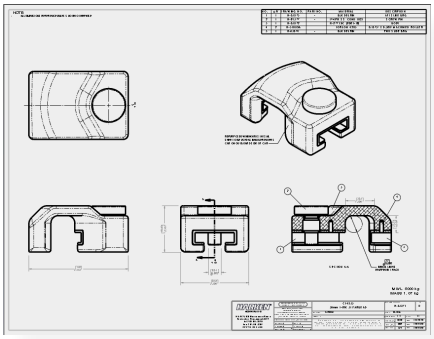
With an office in Palma, we can offer ‘on the ground’ support with personal world-class technical advice and professional service. Whether you are looking to upgrade your hardware due to increased loads from a new sail plan or looking to gain that extra bit of performance, we are here to make the process as efficient as possible.

Over the last year, Harken ProCare Palma has been involved in many custom hardware solutions for our customers below are few examples of customised traveller cars that we would like to share with you.

Malcolm McKeon 33m

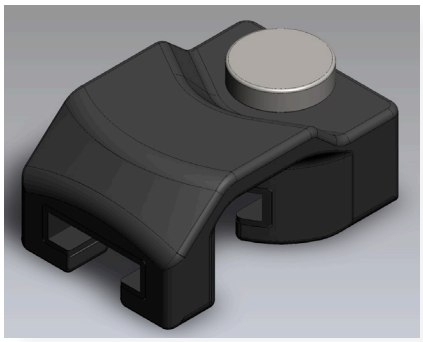
Design Brief: Design a headsail In-hauler fairlead that could be a ‘plug &play’ solution utilising the existing hardware layout without having to modify the deck or other fittings

Solution: With input from the Captain and crew, we developed a simple but elegant solution. The In-hauler is routed from the clew up to the existing weather headsail track. It then passes through the custom-designed fairlead with integrated pin stop and under - deck to the cockpit winches. This solution negates the need for a jury rig with snatch blocks leading the line on the weather rail near the crew.



Detailed drawings

3D Printed Mock-Up for concept verification



3D Concept

“It was clear from our first couple of regatta’s that we needed something to sort out a sheeting issue for our race setup. After a brief chat with Simon Botes from Harken ProCare Palma we had a good idea of what was needed and a couple of weeks later Harken came back with designs for a custom in-hauler car.

There was never going to be an off the shelf solution to this sheeting problem, so it was great to be able to sit down with Simon and discuss what was needed and how we were going to do it.

The In-hauler car looks the part and most importantly, works just as we had intended.”

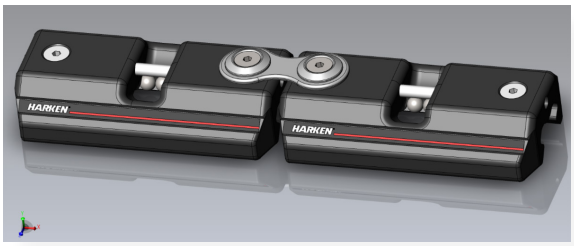
Captain S/Y Missy

Wally 77

Design Brief: Supply a replacement self-tacking jib car

Solution: Although the boat was launched in 1997, Harken Palmas access to the Factory archives and files lead to locating the original drawings and details very quickly.

We then looked in detail at the specific sheeting geometry required for the headsail and finalised the solution. This ball bearing car is specifically engineered to run on a curved track, lengthening the life of the ball bearings and increasing the car's efficiency.



Luca Brenta 37m

Design Brief: Design Brief: Since the launch of this yacht in 2005, she has undergone several upgrades and modifications to her sail plan. Harken Palma was asked to verify the existing Titanium main traveller car's ongoing suitability due to increased loads seen with the new sail plan.

Solution: An upgraded Titanium coupler was designed along with an option to convert from ball bearings to slide rods. Utilising the existing car bodies this upgrade sees the car Maximum Working Load increase from 8,045 kg to over 10,000 kg.
Apart from retaining the existing car bodies, this solution also utilised the existing main traveller track, negating the need for boat building and possible painting of the track area.
The car can be converted between Torlon slide rods and Torlon Ball bearings as required.