

Strength in Protection



Bore Casings Repack into Open Top Sea Container

Axis Packaging were required to restrain bundles of bore casings in an open top sea container for exportation to China by sea. The repack was carried out at the client's premises.

Client Requirements

- To adequately restrain bore casings in the sea container to minimise movement.
- Ensure the restraint system employed complies with marine surveyor's requirements.

Our Challenges

- To develop a system that would adequately restrain the bore casings.
- The small size of the bull-rings in the sea container, meant the ratchet straps would not draw due to pinching.
- Due to the dynamics of the load, the ratchet mechanism needed to be relocated higher in the sea container to allow for access.

Our Solution

- We developed a combination shackle system with the use of a 2 tonne bow shackle in conjunction with a 4.75 tonne bow shackle, to eliminate pinching and allow the straps to adequately draw.
- In conjunction with the bow shackle system, the ratchet mechanism was cable tied to the top bull-ring allowing ease of loading without fouling on the straps.



Left: The ratchet strap cable tied to the top bull-ring.
Right: The shackle combination used to eliminate pinching.



The ratchets straps are being secured in the empty sea container so the bore casings can be loaded.



A crane is used to lift a bore casings into the sea container.



The bore casings secured with the ratchet straps and dunnage inside the sea container.