

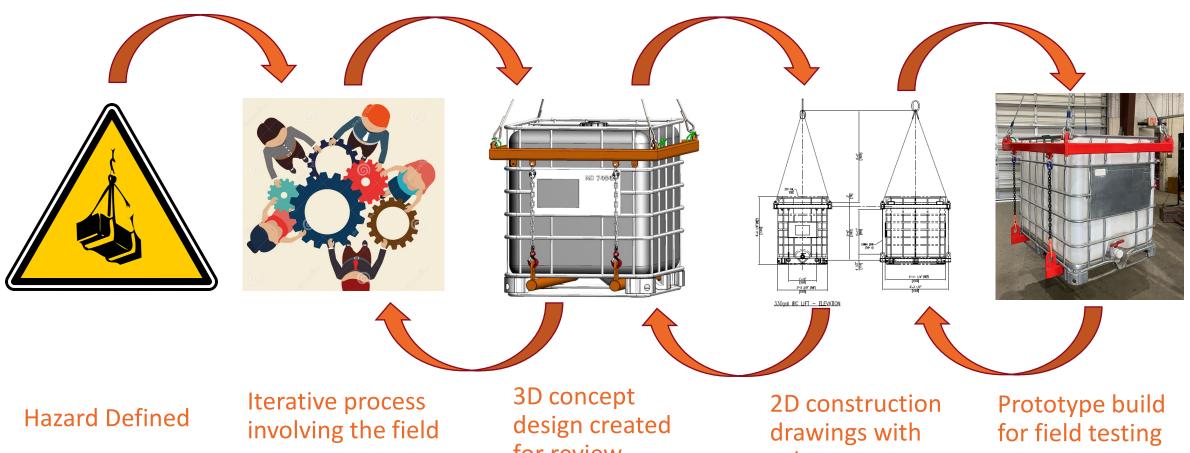
The offshore workforce is our R&D team.

Leveraging years of friendships in the industry to partner in product development.



DESIGN PROCESS EMPLOYED

How do we get from a problem to a product?



for review

calcs

INDUSTRY CHALLENGES

IBC Containers are gaining popularity offshore without safe lifters



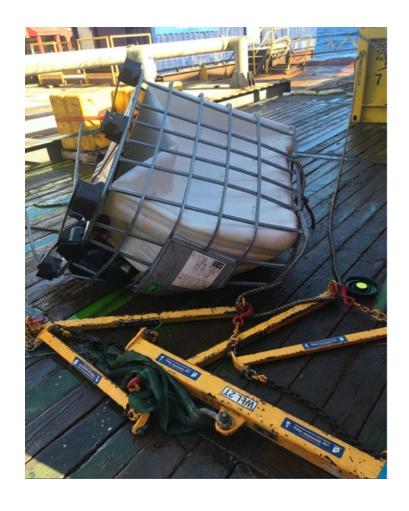
Intermediate Bulk Container "IBC"



Flexible Intermediate Bulk Container "FIBC"

INDUSTRY CHALLENGES

IBC Containers are gaining popularity offshore without safe lifters





INDUSTRY CHALLENGES

Super Sacks / Big Bags are being dropped too often!

Photos:



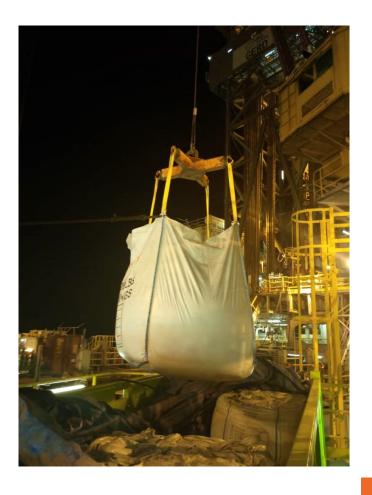
Figure 1: Lifting Arrangement



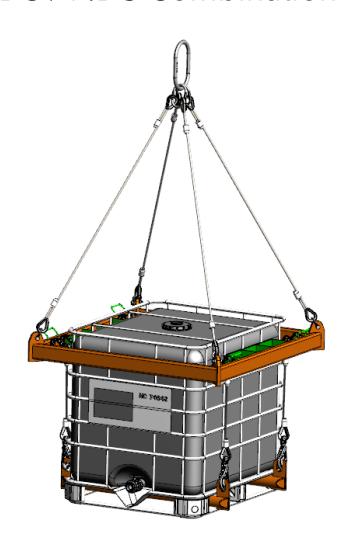
Figure 2: Failed Lifting Point



Figure 3: Damage to ACU



IBC / FIBC Combination Offshore Lifter





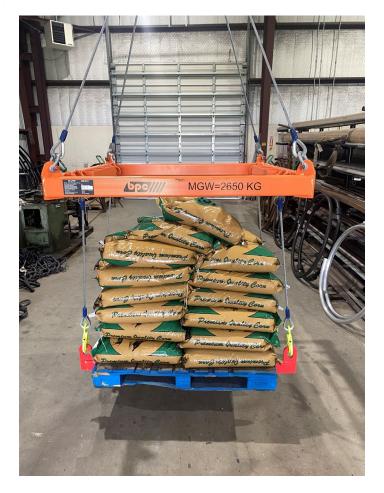
Safety Features:

- Two designs available:
 - DNV 2.7-3
 - AMSE B30.20
- Lateral load protection
- 4-leg sling to engineered padeyes
- Safe hand placement
- Easy hooks to attach lift bars
- Full load containment

Multi-Purpose Offshore Bulk Lifter (Patent Pending)





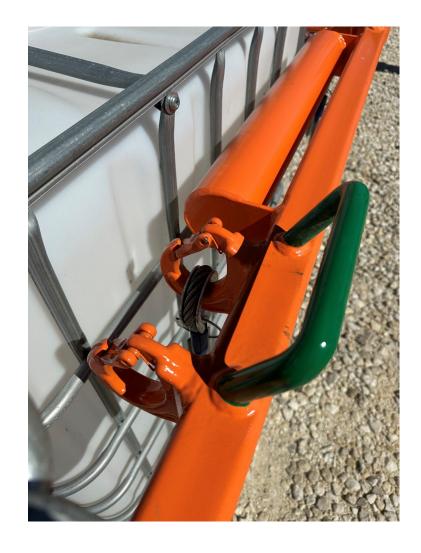


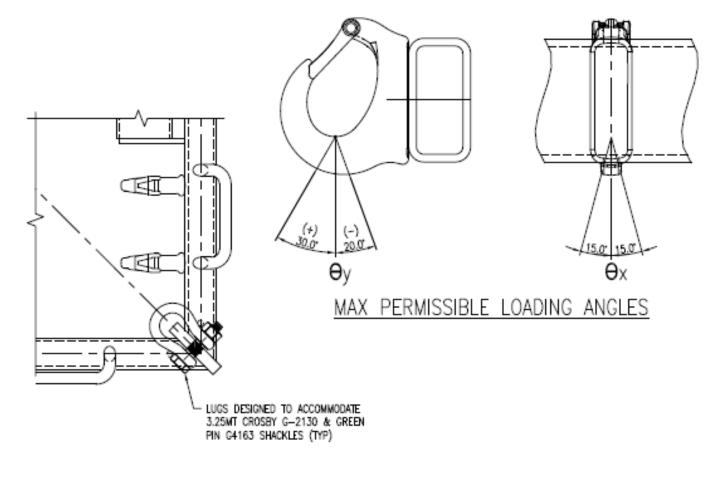
IBC "Tote" Mode

FIBC Mode

Pallet Mode

3MT Weld-on Excavator Hooks provide maximum versatility





IBC Lifting Options (Patent Pending)



IBC Lifting with Pallet Bars



IBC Lifting with Polyester Slings

IBC LIFTER FIELD TRAILS

IBC Lifting: Key Takeaways

- During field testing rig preferred use of the Soft Slings over the Pallet Bar for IBC lifts
- It became very clear many IBCs were damaged and could not accommodate the pallet bars
- Soft Slings proved easy to insert and enabled lifts in tight spaces
- Soft Slings also eliminated majority of basket entries when backloading as slings could be removed from outside the basket



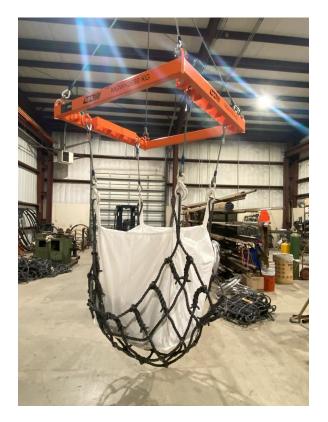


Cargo Net protecting Super Sack (vimeo.com)

BPC PRODUCTS

Muli-purpose Offshore Bulk Lifter

FIBC Mode with Cargo Net:







FIBC Lifting with Cargo Net for Dropped Object Protection







IBC LIFTER FIELD TRAILS

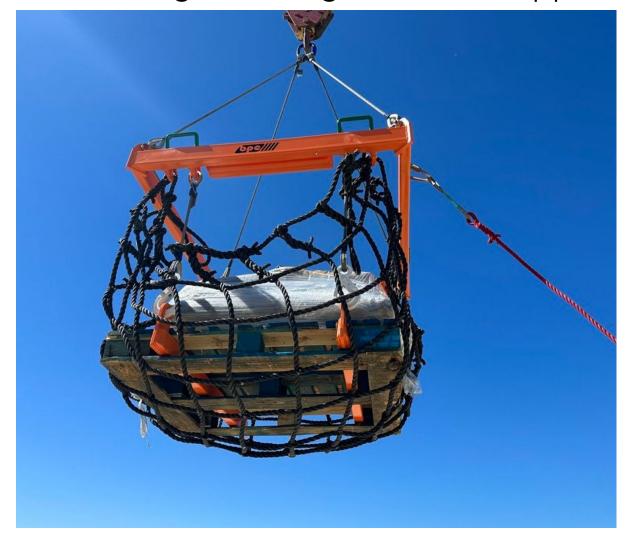
FIBC Lifting: Cargo Net designed for Mixing Hopper

- A recent bag drop incident is forcing the rig to examine use of a net while lifting the FIBC over a mixing hopper
- This has resulted in the drilling contractor and BPC swapping details of various nets and hopper designs
- 18" square opening for sack slitters in hoppers
- This should enable the net to remain on the bag/lifter when lowered onto the hopper without damaging the net





Pallet Lifting with Cargo Net for Dropped Object Protection





In the field since May 2023







