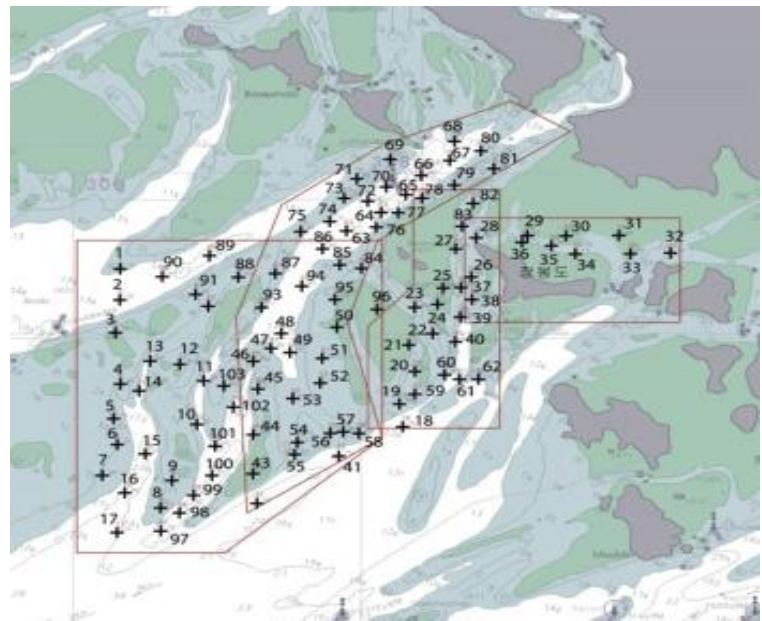




# SEDIMENT SAMPLER DAY GRAB



# Product Overview

## DAY GRAB DEEPWATER SAMPLER

### Modified Day Grabs

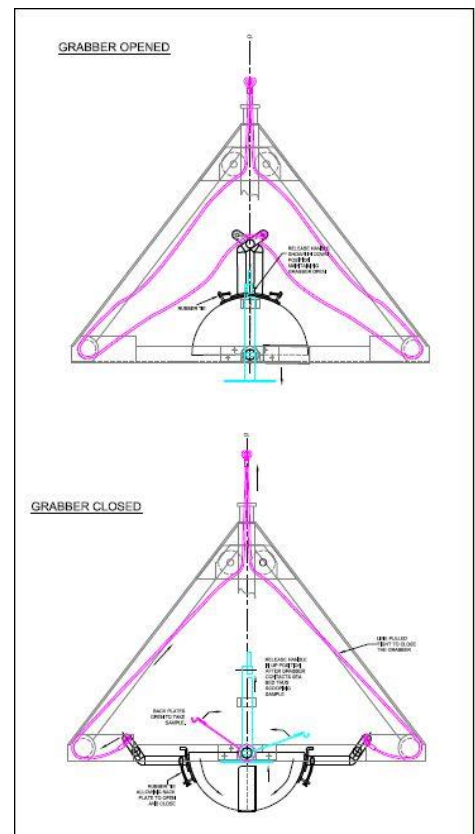
Unique Group supplies seabed sampling equipment, offshore drilling, and in situ services from shallow water to the deep ocean, complementing both our geophysical and geotechnical surveys for scientific and engineering solutions worldwide.

Grabs are traditionally used for 'ground-truthing' and can offer a cost-effective and quick solution to sample analysis. Our Day Grabs comprise of two stainless bucket sections which are mounted within a stainless-steel frame, making them ideal for accurate assessment of the chemical properties of seafloor sediments. The controlled contact and closure once on the seabed represents a great advantage over other types of sediment samplers and helps ensure sample disturbance is minimised.

Removable weights can also be added to provide a better penetration in more compacted substrates or removed to prevent over-penetration in softer sediments. The recovered samples are fully enclosed to reduce disturbance and can obtain up to 15 litres (0.1m<sup>2</sup> Sample Area) of a well-preserved sample in most silts and sandy substrates. A further extended bucket lip reduces sediment washout during retrieval. On recovery, the sample can be processed directly through two catch-closed inspection doors or by emptying the contents into a plastic tray.

### Key Features

- Depth capability < 500m
- Stainless steel, for reduced contamination
- Adjustable weight up to 200kg
- 0.1m<sup>2</sup> Sample Area
- Bucket dimension: Width 34 cm; Length 33 cm; Depth 17 cm
- Shipping details (for two Day grabs and one stand): Width 90cm, Length 165cm, Height 130cm, Weight 400Kg



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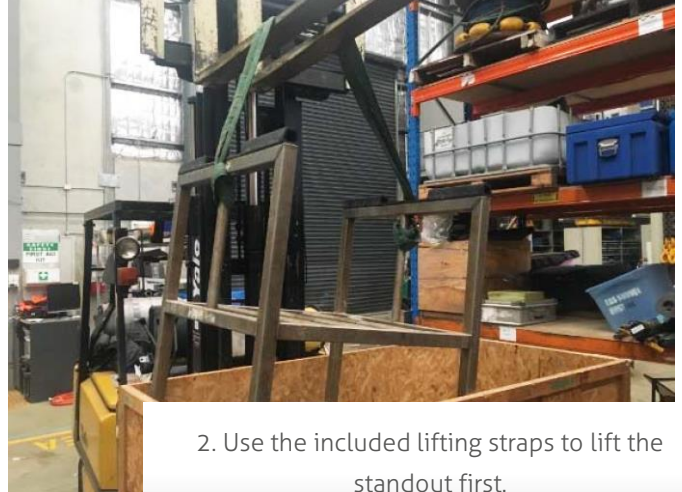


# Set-up and Check Guide

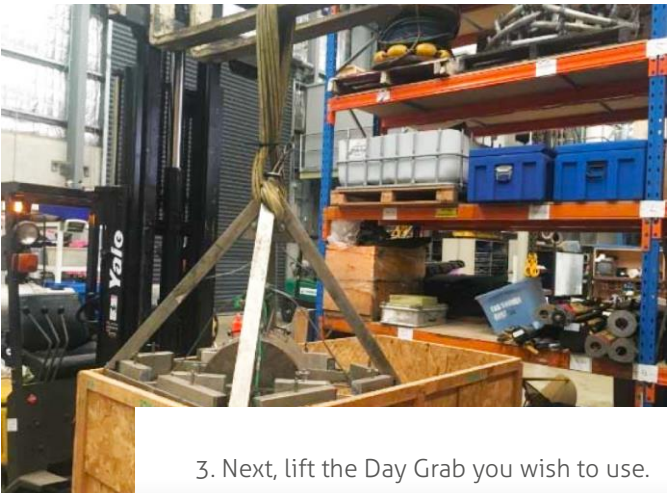
## DAY GRAB DEEPWATER SAMPLER



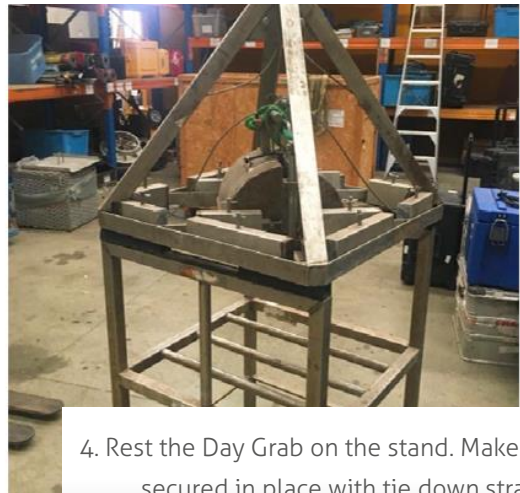
1. When you open the transport container you will see two Grabs with the Grab Stand on top.



2. Use the included lifting straps to lift the stand out first.



3. Next, lift the Day Grab you wish to use.



4. Rest the Day Grab on the stand. Make sure it is secured in place with tie down straps.

*Note: When handling, ensure limbs are free of line of fire from grab's moving parts and bucket edges. Also note the pinch points around the pulleys and areas of wire travel.*

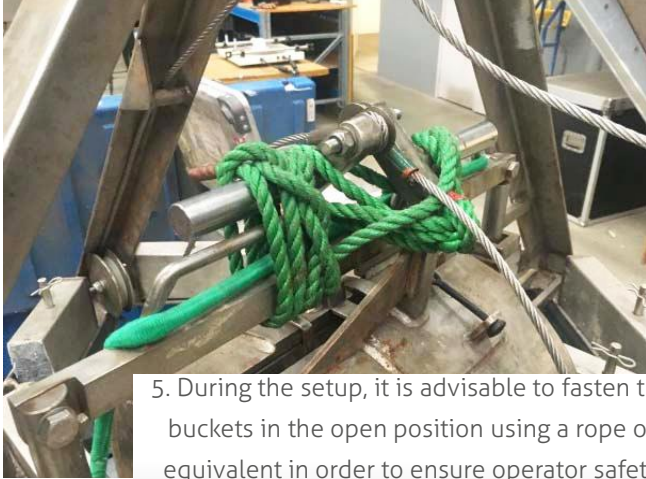


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# Set-up and Check Guide

## DAY GRAB DEEPWATER SAMPLER



5. During the setup, it is advisable to fasten the buckets in the open position using a rope or equivalent in order to ensure operator safety and sufficient wire slack.



6. Ensure the two wires are connected to the shackle and shackle is moused.



7. Remove the rope isolation whenever operating the Day Grab.



8. Ensure buckets can travel unimpeded by slowly lowering using side handles. Ensure hands clear of pinch points (especially bucket).





# Set-up and Check Guide

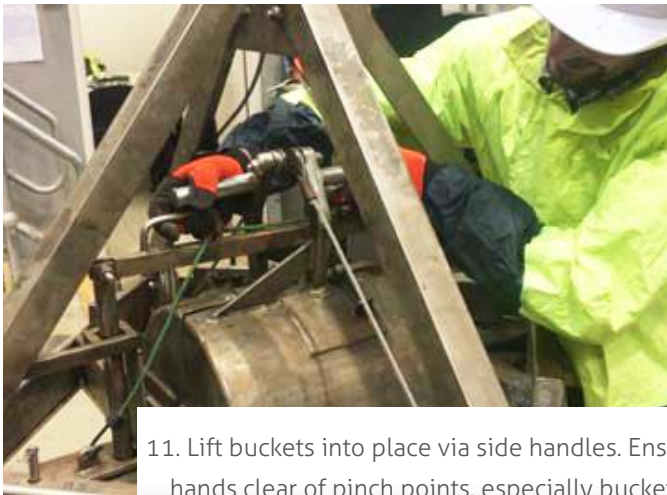
## DAY GRAB DEEPWATER SAMPLER



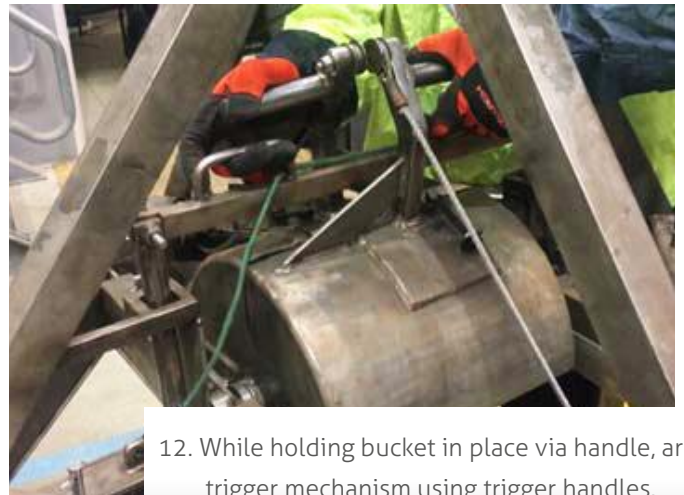
9. Ready for trigger to be loaded. Check bucket lids are secured in place.



10. Bring up slack on wire.



11. Lift buckets into place via side handles. Ensure hands clear of pinch points, especially bucket.



12. While holding bucket in place via handle, arm trigger mechanism using trigger handles.



# Set-up and Check Guide

## DAY GRAB DEEPWATER SAMPLER



13. When trigger is lowered into place, the day grab is armed.



14. Grab can be deployed.

*Note: if armed grab impacts a hard surface and trigger is released, Grab may fall ~2m. Always stay out of line of fire below grab at all times.*



15. When the grab hits the seabed, the trigger will release the buckets.



16. Release enough slack in a steady manner to avoid the grab bouncing off the seabed. (Triggering without a solid landing on the seabed)



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# Set-up and Check Guide

## DAY GRAB DEEPWATER SAMPLER



17. As the grab is raised the buckets will close, taking the sediment sample and retaining it as it is recovered to the surface.



18. Recover to deck (taglines may be attached if required).



19. Guide onto the stand, taking care not to hit the buckets on the stand (this may cause the buckets to open enough to release some sample)

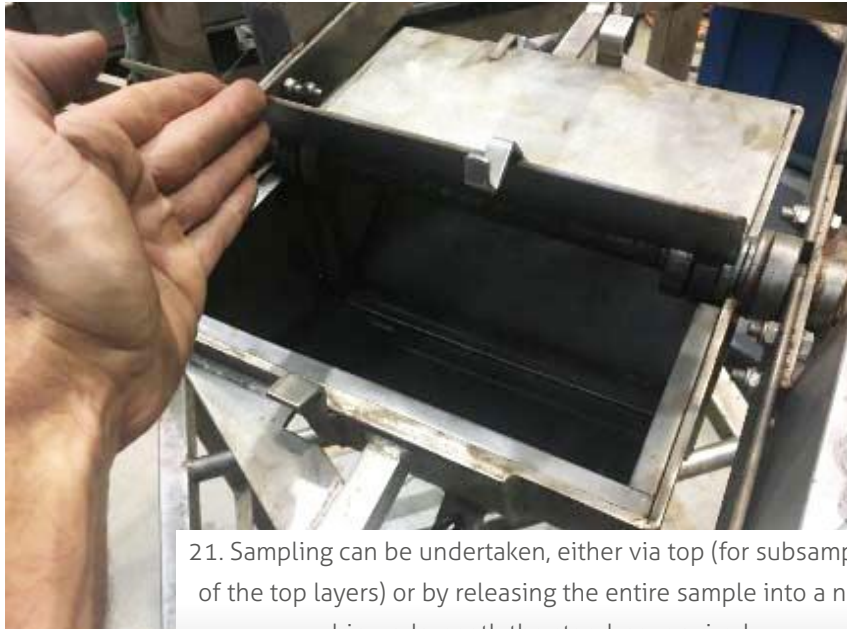


20. Bucket lids can be accessed, and sample checked.



# Set-up and Check Guide

## DAY GRAB DEEPWATER SAMPLER



21. Sampling can be undertaken, either via top (for subsampling of the top layers) or by releasing the entire sample into a nelly bin underneath the stand, as required.

If cleaning is required (e.g. Decon 90), isolate buckets in the open position with a rope as per Step No. 5. Using arming trigger only risks triggering buckets and potentially harming operator.

Reset buckets and arm for next sample starting from Step 7.



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