

# Day Grab Model 12.300


## Manual

**KC** Denmark A/S

Research Equipment

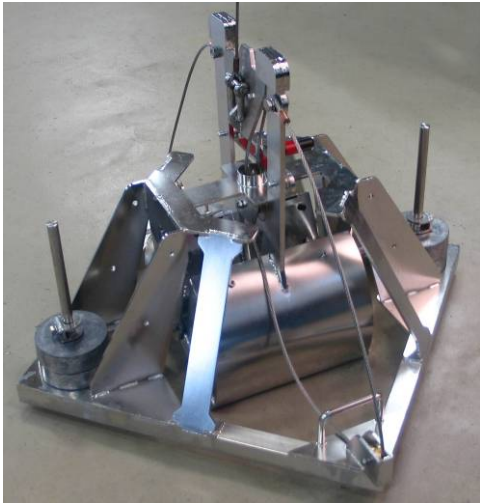
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|  | <b>Manual for<br/>Day Grab</b> | <b>Model no.<br/>12.300</b> |
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**Caution**  
 This Day Grab is very dangerous in unskilled hands and serious precautions must be taken to avoid accidents.

KC-Denmark is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse or wrong operation.

Never walk under the Day Grab, when lifted up by the winch.



**Preparation:**

  
**Caution**  
 Place the grab on a stable pallet or deck

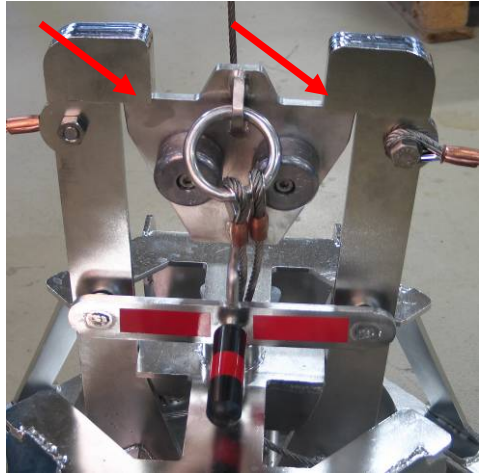
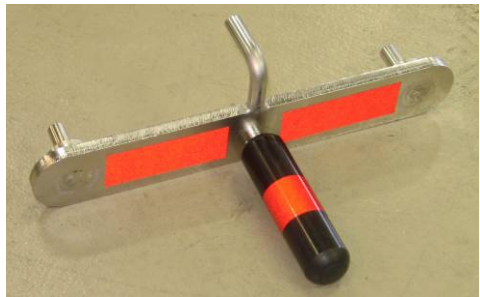
**Check up that the safety clamp is placed correctly at the top of the rack. The clamp will only fit with the arms in correct position.**

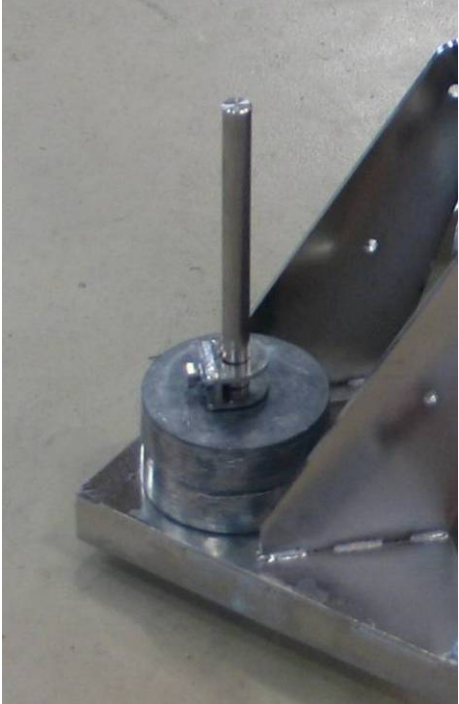
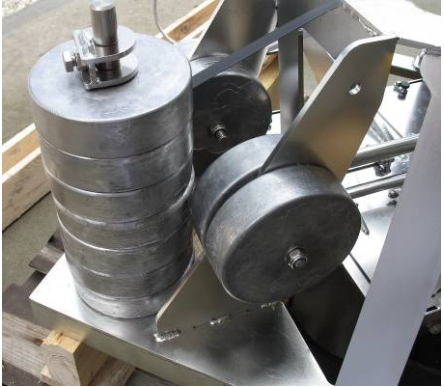

1 The arms on the shovels are forced towards the middle and you must ensure both arms are securing the releaser as shown.


**Always mount the clamp when possible to avoid any accident.**

**Inspect all (4) talurit ferrules and thimbles very carefully and replace if any damage or corrosion is visible.**


**Damage might cause injury to people and by loosing 2 of the thimbles during operation; the grab will remain on the seabed!**




|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <p>2</p> | <p>Mount the necessary amount of lead weights on the platform and do not forget to secure the position by fastening the bolt on each bracket.</p> <p>The amount of weights must be equal to both weight stations to ensure a properly lowering and penetration of the seabed.</p> <p>Maximum mounting: 110 kg. (22 weights, each 5 kg distributed on 2 weight stations capable of holding 2 x 7 pcs, and a maximum of 8 weights mounted on the sloping frame, see next photo).</p> <p>Standard delivery includes 4 pcs lead weights.</p> |    |
| <p>3</p> | <p>The 4 frames can hold a maximum of 8 pcs weights. (2 on each frame).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
| <p>4</p> | <p>The wire for the winch is attached to the shackle and must be secured. Recommended wire: <math>\varnothing 6</math> mm</p>                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <p>5</p> | <p>Before lowering the grab to the sea, the 4 lids of the grab must be closed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |

|   |                                                                                                                                                                                                                                                   |  |
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| 6 | <br><b>Caution</b><br><b>Before lowering the grab to the sea, you must remove the safety clamp. For maximum safety remove when the grab is outside the rail.</b> |  |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|   |                                                                                                                                                                                                                                     |  |
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| 7 | <b>Brief characteristic of the function:</b><br><br>When the grab reaches the sea floor the wire and reloser will loosen, allowing the arms to fall down. As soon as the grab is raised the shovels will close and keep the sample. |  |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|   |                                                                                                                                                                                                                                                                                                                                                                                     |  |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 8 | <br><b>Caution</b><br><b>When the sample has been taken and you raise the Day Grab, the arms will be wide open. The grab can be emptied by pressing the arms towards the middle.</b><br><br><b>It is very important to mount the safety clamp as soon as possible after removing the sample.</b> |  |
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|   |                                                                                                                                                                                                   |  |
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| 9 | <br><b>Caution</b><br>Always remember to mount the safety clamp during transport or working with the Day Grab. |  |
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| <b>Maintenance</b>                                                                                                                                                                                               |  |
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| All parts of the Day Grab can be rinsed using salt water or fresh water. Regular cleaning with fresh water is recommended and all moveable parts must be moved individually to ensure all dirt has been removed. |  |

| <b>Technical information</b>                                 |                                                      |
|--------------------------------------------------------------|------------------------------------------------------|
| <b>Materials:</b>                                            |                                                      |
| All metal parts:                                             | AISI 316 stainless steel.<br>Finish: Electro polish. |
| <b>Measurements:</b>                                         |                                                      |
| Length x width x height:                                     | 70 x 70 x 70 cm                                      |
| Weight, standard delivery: (Inclusive 4 weights, each 5 kg). | 106 kg                                               |
| Weight, maximum, inclusive 14 pcs of weights, each 5 kg:     | 196 kg                                               |
| <b>Sample:</b>                                               |                                                      |
| Sample area:                                                 | 1000 cm <sup>2</sup>                                 |
| Sample volume                                                | Approx. 15 litres                                    |
| Lids for examining the sample                                | 4 pcs, each 120 x 120 mm                             |
| <b>Operational depth:</b>                                    |                                                      |
| Full oceanographic depth,                                    | >6000 m (No limits).                                 |

| <b>Other parts recommended</b> |      |                                                                                          |             |  |  |
|--------------------------------|------|------------------------------------------------------------------------------------------|-------------|--|--|
| Order no.                      | Pcs. | Product                                                                                  | Net. weight |  |  |
| 80.407                         | 1    | Lead weight, 5 kg each, maximum mounting 22 pcs. (Standard delivery includes 4 weights). | 5 kg        |  |  |

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