

Teledyne SeaBotix

# Grabber

For Use with Little Benthic Vehicles

## Standard and Wrist Rotate Grabbers



Grabber with three jaw attachment

The versatile SeaBotix Grabber can accommodate a multitude of attachments to fit a variety of applications, such as cutting, limb grasping, fine object retrieval, deploying a messenger line or simply to hold steady. Up to 100 kg (220 lbs) gripping capability for object retrieval with standard tether.

Intuitive open/close and rotate controls for the Grabber are located on the Operator Control Unit (OCU) and can be used at any time during the dive. For depths beyond 300 meters (1,000 ft), the grabber is oil-compensated.

The SeaBotix Wrist Rotate Grabber is able to rotate a full 360° to more easily align the tools in real time during dive operations.

Constructed from hard anodized aluminum components, this durable tool can be mounted in a variety of locations on the MiniROV and retracted or extended to the desired position.

### Grabber Attachments

Grabber attachments are easy to interchange. Simply remove 3-4 small screws and rotate the attachment off. Reverse the process with a different attachment and it's ready to be put to work.

A three jaw attachment comes standard with the grabber and is designed to grab objects of various shapes in a variety of orientations (also available in stainless steel).

For object retrieval requiring even pressure around an object, a parallel two jaw attachment is available with two pads that mechanically move parallel to each other. It also has a non-skid texture for grip.

An interlocking jaw (small or large) attachment is excellent for objects that are cylindrical in shape or have a flat surface. The larger jaw can also grab human limbs for body recovery missions and is available with a quick release pin.

A cutter tool attachment is available for cutting through most common marine debris, such as ropes, copper wire electrical cables, fishing line, nets, and seaweed.

### PRODUCT FEATURES

#### GRABBER

- Intuitive Controls
- Powerful Gripping/Cutting Force
- Easily Fitted Attachments
- Flexible Positioning Options
- Multiple Optional Attachments
- Rugged Construction
- 100 kg (220 lbs) Lifting Capacity with Standard Tether
- 360° Wrist Rotate Option
- Motorized Dropdown Positioning Grabber (For vLBV Series only)



## TECHNICAL SPECIFICATIONS

### STANDARD GRABBER

|   |                    |
|---|--------------------|
| <b>Length</b>                           | 300 mm (14.2 in)   |
| <b>Weight in Air</b>                    | 504 kg (1.11 lbs)  |
| <b>Weight in Air (oil filled)</b>       | .510 kg (1.12 lbs) |
| <b>Weight in Water</b>                  | .340 kg (0.75 lbs) |
| <b>Weight in Water (oil filled)</b>     | .368 kg (0.81 lbs) |
| <b>Depth Rating</b>                     | 300 m (1000 ft)    |
| <b>Depth (oil filled)</b>               | 1500 m (4900 ft)   |
| <i>(Above applies to actuator only)</i> |                    |

### STANDARD GRABBER (Stainless Steel)

|   |                     |
|---|---------------------|
| <b>Length</b>                           | 300 mm (14.2 in)    |
| <b>Weight in Air</b>                    | 1.028 kg (2.26 lbs) |
| <b>Weight in Air (oil filled)</b>       | 1.034 kg (2.27 lbs) |
| <b>Weight in Water</b>                  | .848 kg (1.86 lbs)  |
| <b>Weight in Water (oil filled)</b>     | .876 kg (1.93 lbs)  |
| <b>Depth Rating</b>                     | 300 m (1000 ft)     |
| <b>Depth (oil filled)</b>               | 1500 m (4900 ft)    |
| <i>(Above applies to actuator only)</i> |                     |

### WRIST ROTATE GRABBER (For vLBV Series only)

|   |                    |
|---|--------------------|
| <b>Length</b>                           | 338 mm (13.3 in)   |
| <b>Weight in Air</b>                    | .907 kg (1.99 lbs) |
| <b>Weight in Water</b>                  | .510 kg (1.24 lbs) |
| <b>Depth Rating</b>                     | 4000 m (13,000 ft) |
| <i>(Above applies to actuator only)</i> |                    |

### Attachments



**Three Jaw**



**SS Three Jaw**



**Parallel Two Jaw**



**Interlocking Jaw (Small)**



**Interlocking Jaw (Large)**



**Cutter**

|                      |                  |                  |                  |                 |                                   |                 |
|----------------------|------------------|------------------|------------------|-----------------|-----------------------------------|-----------------|
| <b>Length</b>        | 71 mm (2.8 in)   | 71 mm (2.8 in)   | 95 mm (3.7 in)   | 79 mm (3.1 in)  | 133 mm (5.2 in)                   | 71 mm (2.7 in)  |
| <b>Jaw Opening</b>   | Ø 59 mm (2.3 in) | Ø 59 mm (2.3 in) | 52 mm (2.0 in)   | 43 mm (1.6 in)  | 113 mm (4.4 in)                   | 17 mm (0.6 in)  |
| <b>Weight in Air</b> | 60 g (0.13 lbs)  | 148 g (0.32 lbs) | 135 g (0.29 lbs) | 61 g (0.13 lbs) | 247 g (0.54 lbs)/196 g (0.43 lbs) | 80 g (0.17 lbs) |



*vLBV with cutter and three jaw attachment*



*SARbot with interlocking jaw (Large) attachment*



*vLBV-10 SeaLift with 90° downward rotation grabber*



### Complete Grabber Kit Includes

- Five Attachments: Three Jaw, Parallel Two Jaw, Interlocking Jaw (Small & Large) & Cutter
- Tools
- Lubricant
- Custom Case for Easy Portability