

## Accessory Data Sheet

# Rotating Manipulator Arm

The **Rotating Manipulator Arm** is one of the most valuable accessories in the VideoRay toolbox. With full 360° head rotation and five interchangeable jaws, its uses are unlimited - anything from untangling tether snags to collecting samples to recovering objects up to 45 kg (100 lb).

The Rotating Manipulator Arm lifts objects underwater by using the tether of the ROV. From the hand controller or control panel, you can retrieve items in confined or hazardous locations.

The VideoRay ROV's camera can be tilted down to focus in on the jaw to provide a close view of the operation. When not needed, the Rotating Manipulator Arm can be easily removed.

The Rotating Manipulator Arm features five interchangeable jaws: parallel jaw, V-jaw, sampler jaw, trident jaw, and cutter jaw. The jaws can be switched within minutes, saving valuable operation time.

The Rotating Manipulator Arm is delivered with a mounting kit that will attach to standard Pro 4 ballast skirts and all 5 interchangeable heads. It can be used in conjunction with most other VideoRay attachments.

### BASIC SPECIFICATIONS

Depth Rating	305 m (1,000 ft)
Breaking Strength	45 kg (100 lb)
Head Rotation	360°



Parallel Jaw



V-Jaw



Sampler Jaw



Trident Jaw



Cutter Jaw

### Parallel

Depth Rating 300m (1,000 ft)  
 Head Rotation 360° / 12 RPM  
 Size (w/ mount) 47 x 10.2 x 5.0 cm  
 (18.5 x 4.0 x 2.0 in)  
 Weight in Air 2.4 kg (5.25 lbs)  
 - w/ Submersible 7.3 kg (16 lbs)  
 Weight in Water 0.97 kg (2.1 lbs)  
 - w/ Submersible 0 kg (0 lbs)  
 Breaking Strength 45kg (100 lbs)  
 Maximum Opening 5.7 cm (2.25 in)  
 Closing Force 25 PSI



### Trident

Depth Rating 300m (1,000 ft)  
 Head Rotation 360° / 12 RPM  
 Size (w/ mount) 47 x 10.2 x 5.0 cm  
 (18.5 x 4.0 x 2.0 in)  
 Weight in Air 2.4 kg (5.25 lbs)  
 - w/ Submersible 7.3 kg (16 lbs)  
 Weight in Water 0.97 kg (2.1 lbs)  
 - w/ Submersible 0 kg (0 lbs)  
 Breaking Strength 45kg (100 lbs)  
 Maximum Opening 15.2 cm (6 in)  
 Closing Force 18 PSI



### V-Jaw

Depth Rating 300m (1,000 ft)  
 Head Rotation 360° / 12 RPM  
 Size (w/ mount) 47 x 10.2 x 5.0 cm  
 (18.5 x 4.0 x 2.0 in)  
 Weight in Air 2.4 kg (5.25 lbs)  
 - w/ Submersible 7.3 kg (16 lbs)  
 Weight in Water 0.97 kg (2.1 lbs)  
 - w/ Submersible 0 kg (0 lbs)  
 Breaking Strength 45kg (100 lbs)  
 Maximum Opening 17.5 cm (6.875 in)  
 Closing Force 22 PSI



### Cutter

Depth Rating 300m (1,000 ft)  
 Head Rotation 360° / 12 RPM  
 Size (w/ mount) 47 x 10.2 x 5.0 cm  
 (18.5 x 4.0 x 2.0 in)  
 Weight in Air 2.4 kg (5.25 lbs)  
 - w/ Submersible 7.3 kg (16 lbs)  
 Weight in Water 0.97 kg (2.1 lbs)  
 - w/ Submersible 0 kg (0 lbs)  
 Breaking Strength 45kg (100 lbs)  
 Maximum Opening 2.3 cm (0.91 in)  
 Closing Force 30+ PSI  
 Max. Cut Diameter 1.9 cm (0.75 in)



### Sampler

Depth Rating 300m (1,000 ft)  
 Head Rotation 360° / 12 RPM  
 Size (w/ mount) 47 x 10.2 x 5.0 cm  
 (18.5 x 4.0 x 2.0 in)  
 Weight in Air 2.4 kg (5.25 lbs)  
 - w/ Submersible 7.3 kg (16 lbs)  
 Weight in Water 0.97 kg (2.1 lbs)  
 - w/ Submersible 0 kg (0 lbs)  
 Breaking Strength 45kg (100 lbs)  
 Maximum Opening 16.5 cm (6.5 in)  
 Closing Force 10 PSI  
 Max. Sample Size 45 mL (1.5 oz)

