

Acoustic 10t Release Frame



Key features

- 10 tonne release capability
- Commanded by 3510 PAM or 2520 PAM, Easytrak Lite or Nexus USBL
- Positive lever drive off with load assist release
- Upgrade option for existing 529P beacons

Applications

- Cable work operations
- Crane and winch wire detachment
- Submerged buoy recovery
- Complementary to lift bag operations

Acoustic 10t Release Frame Overview

The 10t Release Frame offers a new method of wirelessly separating an underwater load from its crane. By using acoustics, rather than divers or ROVs with cutting equipment, this method has the potential to both reduce risk and save time.

The Release Frame consists of a heavy duty strong back and lever system that amplifies the load capability of an Applied Acoustics' 529P Release beacon, and a standard AAE surface control unit, typically a 3510 PAM Portable. Once the load is in position a remote acoustic signal received from the surface

unit triggers the hinged hook to open releasing the load, allowing the frame unit itself to be recovered in its entirety for re-use.

Useful for bight release applications in the cable laying and repair industry, this acoustic release frame is also suited for coastal construction operations on wind farm sites, lowering work baskets or other subsea structures, separating lift bags from their loads or as method of marking subsea infrastructures that are at risk of damage from surface activity.

Technical Specification

HOOK SPECIFICATION

SWL	10t (including 4 x factor of safety)
Operating depth	1000m
Weight in air	60kg
Weight in water	40kg
Overall length	112cm
Maximum height (inc cage)	120cm
Material	Weldox 700
Master link part number	Gunnebo M-1613-10

529P Acoustic Release Beacon

Housing material; hard anodised aluminium

BATTERY

Battery type	Alkaline (Set of 3; Rx, Tx, Motor)
Listening life	4 months
Releases	70

TWO-WAY COMMUNICATION

Frequency	MF, 17 to 32kHz
Status telemetry	Acknowledge arm, Acknowledge release, Battery
Commands	Arm, Release, Battery Status, ID Commands, Tilt

COMPATIBILITY AND CONFIGURATION

Internally configured

Command/Control	16 identities
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Topside Control, 3510 PAM Portable

Case size	390 x 310 x 170mm
Weight	5kg
Temperature	Storage: -20°C to +60°C Operation: 0°C to +40°C
External power supply	Input: 100-240Vac, 50-60Hz Output: 24Vdc
Battery life	6 hours

3190 Dunking Transducer

Robust stainless steel transducer with integral cable and transducer protection cage. Operation subsea with ranging, relocation, acoustic release and telemetry.

Size	100mm Ø x 276.5mm excluding cable relief
Weight	8.5kg
Cable length (attached)	30m standard
Depth rating	50m

Compatibility

- 3510 PAM Portable, 2520 PAM
- Easytrak Lite
- Easytrak Nexus

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