



The TRIDENT-3000 is one of the largest rotationally-molded buoys available, with a float diameter of 3 meters and lantern focal height of up to 5 meters.

The float section of the TRIDENT-3000 is built from four (4) rotationally-molded quadrants, which fasten together to form an incredibly robust 3 meter wide float section standing 1.8 meters tall. Each quadrant is molded from UV-stabilized, virgin polyethylene, and has an 18mm wall thickness. In addition, each section is filled with closed-cell polyurethane, which prevents the ingress of moisture in the unlikely event of damage.

A galvanized steel or 316-grade stainless steel mooring pole runs through the centre of the assembly, to which the tower section is fastened. Four large lifting eyes aid in buoy mooring and periodic servicing.

The enhanced poly-tower design provides a huge visual area for nav-aid recognition, and consists of two sealed, rotationally-molded tower sections. The lower section incorporates a battery access door and houses batteries, controllers and any ancillary electronic payload. The top section incorporates an internal radar reflector and solar mount facility.

Rotationally-molded paneling is fitted to the outside of the tower section to create a large colored visual area for marking. The replaceable paneling also simplifies cardinal marking and gives operators flexibility in stocking spare components. No part of the structure requires painting at any stage of the product's life span.

An integrated ladder with harness attachment points runs vertically up the tower to the top of the platform.

A large counterweight offers exceptional stability in a variety of exposed regions.

The TRIDENT-3000 can be supplied in all IALA colors.

SPECIFICATIONS

Polyethylene Tower General Characteristics

Available Colors

Focal Plane Height (mm/inches)

Total Float Volume (ltrs/US gallon)

Nominal Freeboard (mm/inches)

Nominal Draft (mm/inches)

Reserve Buoyancy (kgs/lbs)

Maximum Mooring Load (kgs/lbs)

Draft, Maximum (mm/inches)

Freeboard, Minimum (mm/inches)

Safe Working Load, 1pt (kgs/lbs)

Safe Working Load, 2pt (kgs/lbs)

Submergence (kg/cm, lb/inches)

Visual Area (m²/ft²)

Water Area (m²/ft²)

Physical Characteristics

Material

Wall Thickness (mm/inches)

Ballast (kg/lbs)

Filling

Height (mm/inches)

Width (mm/inches)

Mass (kg/lbs)

Radar Reflector

Product Life Expectancy

Certifications

IALA

Quality Assurance

Warranty

Lantern Options

Options Available

TRIDENT-3000

Red, Green, White, Yellow as per IALA Recommendations

4500 / 177.2

11000 / 2906

1240 / 48 3/4

1945 / 76 1/2

3170 / 6990

2750 / 6063

2400 / 94 1/2

800 / 31 1/2

6000 / 13228 (one lifting point)

8630 / 19025 (two lifting points)

72 / 403

7.1 / 76.4 (with daymark)

6.4 / 68.9 (without daymark)

2.1 / 22.6

Rotationally-molded UV-stabilized virgin polyethylene float section, tower assembly, top marks and panelling. 316-grade stainless steel fixtures.

18 / 3/4

765 / 1687 external steel

Closed-cell polyurethane foam (float section)

7900 / 311

3000 / 118 1/8

2580 / 5688 (depending on payload)

Echomax

>20 years

Surface colors compliant to IALA E-108

ISO9001:2008

5 years

SL-C310, SL-C410, SL-C415, SL-C420 SL-125 Series or

SL-155 Series

• Mould-in graphics

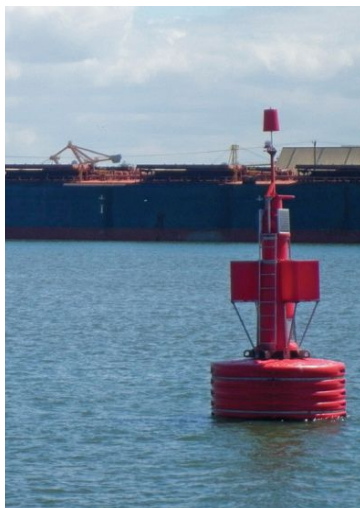
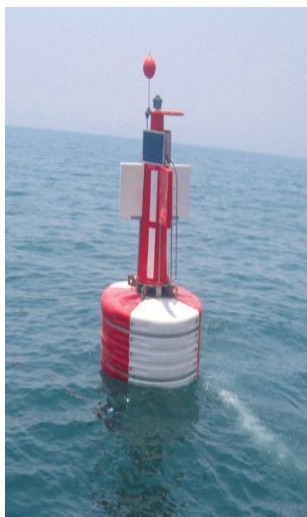
• Day marks

• Rotationally-molded side-paneling

• Monitoring Systems (AIS, GSM)

• Unfilled Float Section

• Tower Extension (Focal Plane height: 5100mm / 200 3/4 inches)



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