Light**Strong** 

A Lohia Aerospace Systems Company



# **Communication Systems Experience** Overview

We are a nationally-known producer of Radomes, Reflectors, and communication systems' parts that we manufacture are designed to work in each medium – submerged, naval, ground, air and space.

The radomes we manufacture vary in size and shape - from 50mm diameter to 2M\*3M\*2.3M. We have also demonstrated the capability of manufacturing 3m to 5m long radomes.

polarizer radomes and radomes with internally structured Antenna bodies. Production technologies from wet lay-up, through prepreg lay-up and infusion, and specialised materials, such as polyurethane, maritime paints and special application anti-static/ rain-erosion/ anti-chafe/ conductive paints, are used to

Our primary platforms are RF communications or acoustics for sonar-based systems.

Our pedigree in developing and designing RF-sensitive radomes and antenna covers for strategic military and aerospace programs makes us the perfect partners for all your cutting-edge composite communication requirements.

# **Communication Systems** Select Product Profile



1.6m x 1.4m x 1.0m

## Naval Radomes

#### **Raw Materials:**

- Glassfibre/epoxy prepreg
- Rohacell foam & Nomex
- honeycomb cores Conductive paint, and polyurethane top coat



Ølm x 1.2m

**Production Process:** 

Core potting

• Painting

Multi-stage layering process

Inserts embedded during process

1293 mm



### Ø30 x12 (cm)

## Airborne Radomes

#### Raw Materials:

- Quartz/Cyanate-Ester prepreg
- Nomex honeycomb core
- Aluminum connection ring
- Anti-static & rain erosion paint





25x15x12 (cm)

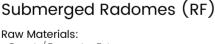
#### **Production Process:**

- Multi-stage layering process
- Bonding of connection ring
- Painting
- Protective boot installation

#### Protective boot

3317 mm





- Quartz/Cyanate-Ester prepreg
- Polarizers

#### **Production Process:**

- Multi-stage layering process
- In-process bonding of polarizers
- Autoclave curing
- Marine paint
- Tested & proofed upto 60Bar external pressure

# Submerged Sonar Dome

#### **Raw Materials:**

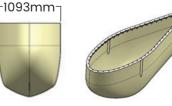
- Carbon/Epoxy
- Marine paint

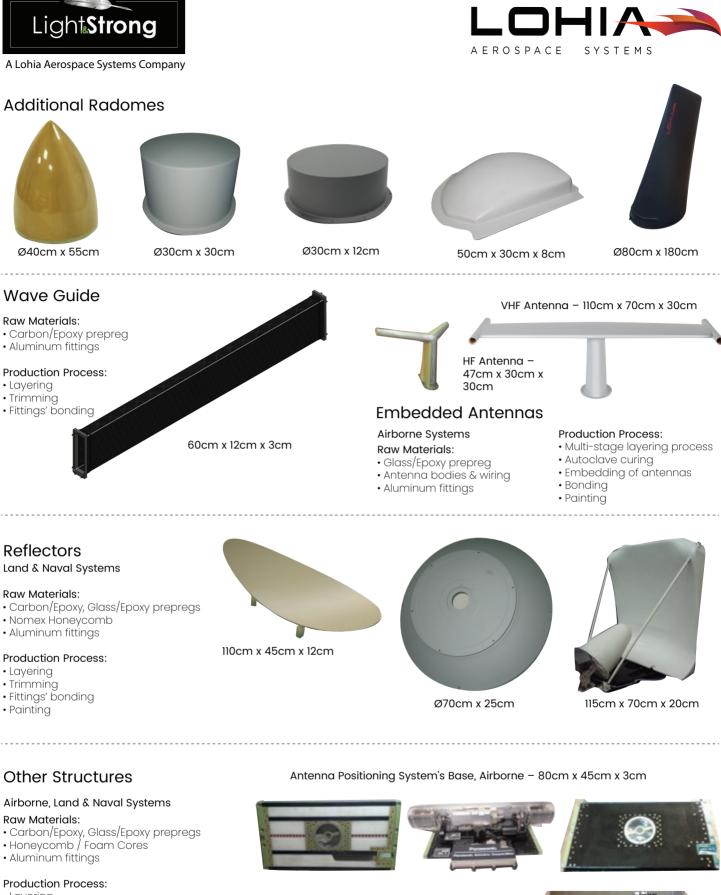
#### **Production Process:**

- Dry fabric lay-up
- Resin infused under vacuum
- Painting

# **Embedded polarizers**







- Layering
- Trimming
- Fittings' bonding & riveting
- Painting

Communication System's Nacelle, Airborne – 60cm x 15cm x 10cm

Communication System's Housing, Naval – 1.6m x 1.0m x 0.55m