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# DOER Company Profile

**DOER** was founded in **1992** by Oceanographer, Dr. Sylvia Earle, focusing on the support and development of technology and innovative solutions for **Deep Ocean Exploration and Research**. Highlights from past years include:

**1997:** DOER provides submersible support and ROVs for the National Geographic Society Sustainable Seas Expeditions – a five year study of Marine Protected Areas.

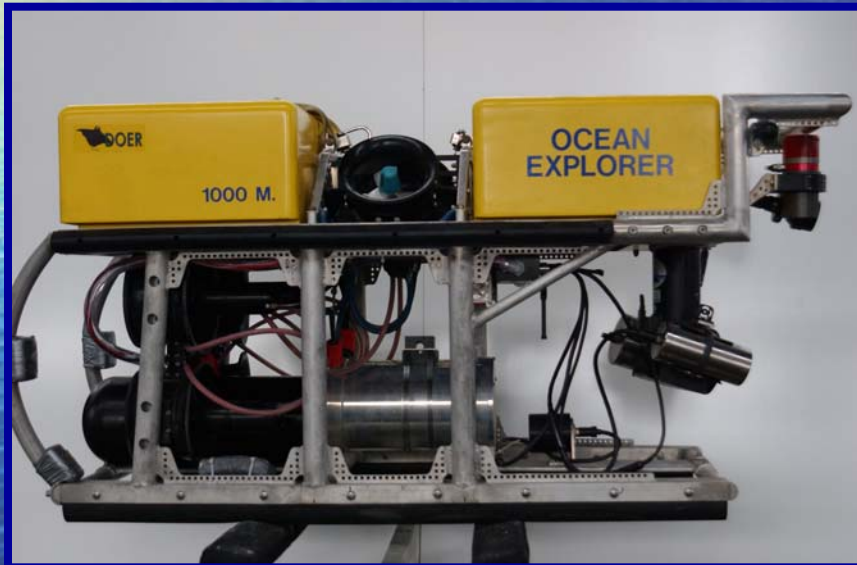
**1999:** DOER begins design and build of fiber optic extreme tunnel penetration system and expands ROV development with a number of custom built systems.

**2002:** DOER begins development of the Ocean Explorer Series ROV to produce a portable remotely operated vehicle with work class vehicle features.

**2003:** DOER completes a multi year project with real time data, life support, voice, gas monitoring and related data through more than 8 miles of buried tunnels. DOER provides submarine and ROV support to the USCG for oil spill response efforts

**2004:** DOER completes move into 50,000 sq. ft. facility in the historic Alameda Marina allowing expansion of the Deep Machine Division, streamlining production of the Ocean Explorer Series ROVs, Thrusters, Submersible Service Capacity and enhancing customer support capability. DOER receives recognition from the State of California Governor's Environmental and Economic Leadership Awards for meritorious contributions to environmental protection and resource conservation.

# DOER Ocean Explorer Series ROV



- 1000 meter/3300 feet standard depth
- Ethernet on Board
- Single Mode fiber optic data/video transmission
- Powerful DOER BLADE DC Brushless Thrusters
- HD Camera/HMI Lighting Ready
- Flexible Architecture

## APPLICATIONS INCLUDE:

- Military/Defense
- Science and Film
- Inspection
- Port Security
- Search and Recovery
- Tunnel and Pipeline Inspection
- Manned Submersible Support/Rescue

# THRUSTERS



DOER Offers a variety of standard brushed and DC Brushless thruster modules from ¼ hp to 5 hp. While the majority are used on our own DOER Ocean Explorer Series of **remotely operated vehicles**, other applications are fully supported including:

- Manned Submersible
- AUV/UUV
- Atmospheric Diving Suits

DOER "**Blade**" DC Brushless Thrusters are engineered with an optimized prop and duct design providing maximum thrust for its size.

Whether you need a rugged, reliable Blade unit or a small disposable, DOER provides cost effective solutions.

# DOER Spectre ROV



Spectre is a hard wired open frame system engineered to be easily maintained and upgraded as technology changes.

The optional Spectre Hybrid provides real solutions for clients with an existing investment in Phantom® ROVs that are limited by age or structural problems.

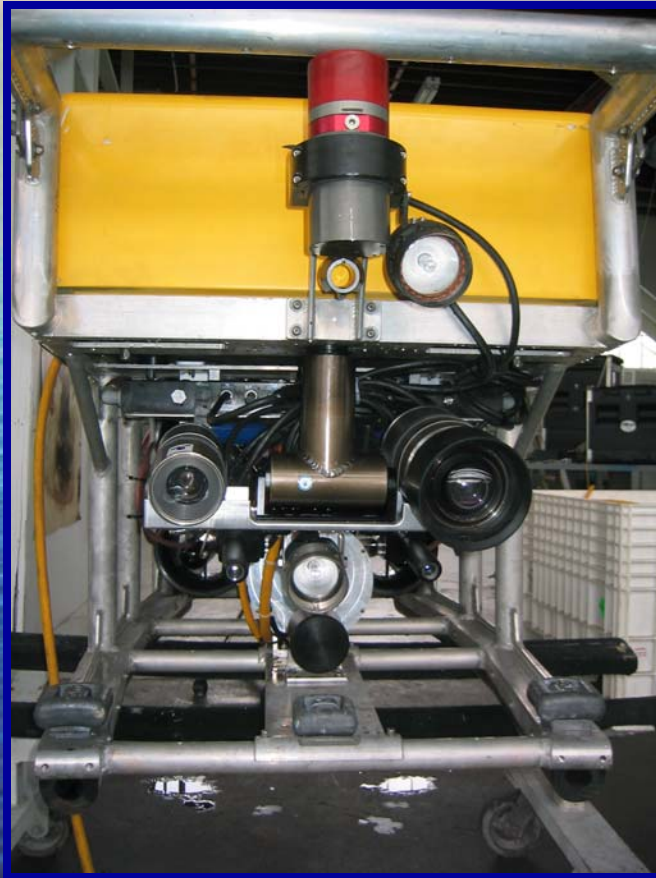
Utilizing existing viable parts, DOER creates a retro-fit hybrid, allowing clients to build towards a full Spectre System, adding modules over time.

Key Features Include:

- 2000 ft. depth rating
- Plug & Play for HMI lights, sonar, manip
- Plenty of useable payload

Spectre's hard wired simplicity gives you the rugged versatility of your favorite pickup truck.

# Homeland Security



A critical job coupled with a challenging environment demands reliable performance from a variety of tools. DOER has the right tools for the job.

**DOER** Ocean Explorer – Powerful, stable multi-mission platform for open water and strong currents. Ethernet on board.

**DOER** OE250- “ROSIE” Remotely Operated Sensor Intensive. A mid size ROV both agile and capable of supporting advanced sensors including **DIDSON** sonar. Ethernet on board.

**DOER** OE Mini- Submersible Ship Hull Inspector. “SUSHI” Lightweight, portable, & RHIB deployable.

# Tunnel & Infrastructure Inspection



People depend on these structures for water delivery, flood control, and waste water management. DOER provides innovative solutions for inspection of these vital yet aging structures.

- Linear Penetrations of 11.25 KM/7 miles
- Real time image/data fiber optic transmission
- Robotic Intervention with DOER Tunnel Explorer
- Manned Systems for extreme penetrations
- Compatible with GIS for geo-referencing
- Custom tools and sampling devices

**DOER Tunnel Explorer** is an advanced flooded member inspection system. With 45Kg of payload, it supports multiple sensors. High bandwidth for sonar, Doppler distance, Ethernet, 4 video, and 8 data channels

# Deep Machine Division



The DOER Deep Machine Division allows DOER to be lean and cost effective in building parts. Our services and expertise also benefit clients needing prototyping and small quantity, high quality productions runs. We are pleased to offer:

- Engineering, R&D, and Design
- Solid Modeling and FEA Analysis
- Complete CNC Machine Shop Services
- Custom Fabrication
- Pressure Testing
- Housings for instruments, cameras, & electronics
- Rapid turn around
- 24/7 support for time sensitive projects
- Knowledgeable, field experienced staff

# DOER Submersibles

DOER provides a variety of support services for small manned submarines including:



- Systems Integration
- ABS/Lloyds Certification Assistance
- Maintenance and Repair
- Field Support
- Custom parts and penetrators
- Launch and Recovery Protocols
- Training of personnel
- Documentation
- Submersible Support/Rescue ROV systems
- Consulting for clients considering purchase of submersibles
- Custom built craft for extreme depth or applications specific purposes

# DOER Logistics



The devil is in the details. A missing O-ring or lamp bulb, a misplaced part or forgotten connector quickly becomes a show stopper.

Widely known as **"The Sub Sea Concierge"** DOER offers a full range of logistics support.

- Same Day Shipping
- Document preparation
- Location of critical parts and components
- Custom Conex Boxes & containers
- Field Personnel
- Field Supplies (Rite in the Rain paper etc..)
- Consumables (tapes, splicing kits etc...)
- Airport/Dockside Delivery

DOER is available 24/7, so that time can again be on your side.