

## Overview of Oceaneering

Name
Title (& Department)
Place & Date



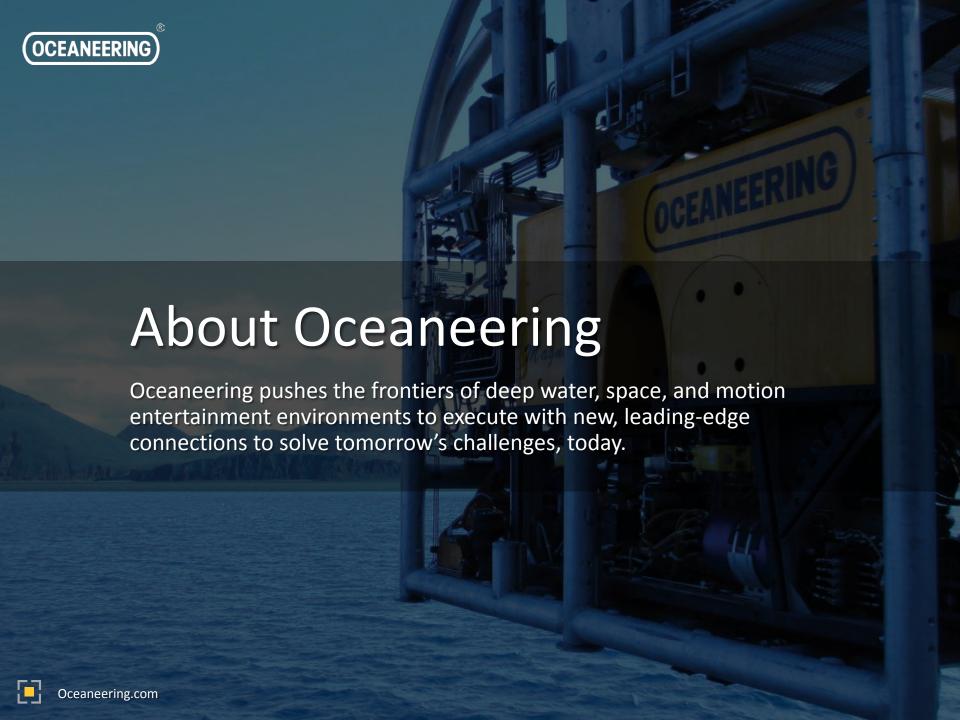


### **SAFETY MOMENT!**

# Safety moment of the week

Visit go/SafetySlide and download this week's slide to highlight safety at the beginning of your next meeting.







# Core Values

Oceaneering's **core values** establish a common culture and demonstrate what is most important for us as a company. Our core values summarize the beliefs that drive us and reflect the way we interact with our customers, suppliers, and fellow employees.

Safety & the Environment

**Customer Focus** 

**Teamwork & People** 

OCF ANEERING)

**Excellence** 

**Ethics** 

Accountability





# Mission and Policies

The Oceaneering **mission** is to increase the net wealth of its shareholders by providing safe, cost-effective, and quality technical solutions that satisfy customer needs worldwide.

Quality Management Policy

**Operating Standards** 

Maintenance Standards

Health, Safety, Environmental Policy







## **Oceaneering Ranks First**

for Customer Satisfaction in Five Categories
In the Latest Oilfield Products & Services Customer Satisfaction Survey

Rated first in "ROVs" for eight consecutive surveys
Rated first in "Performance and Reliability" and "Subsea Equipment" for sixth consecutive year
Rated first in "Deepwater Applications" for fifth consecutive year
Rated first in "Offshore Applications" for the first year



# Awards and Recognition



2016 Safety in Seas Safety Practice Award

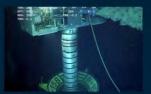
#### **HOUSTON**CHRONICLE

Houston's Leading Companies 2013-2015





# Spetlight TECHNOLOGY 2015 Winners



Deepwater Pile Dredge



Magna Subsea Inspection System™





Remote Piloting and Automated Control Technology (RPACT)



# Safety Performance



Total Recordable Injury Rate (TRIR)

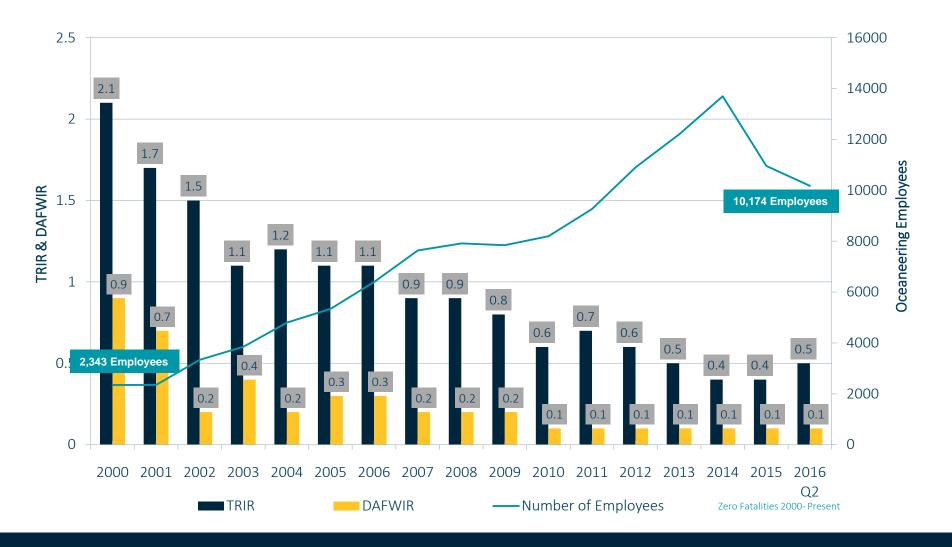


Number of Employees



Days Away from Work Incident Rate (DAWIR)

## Safety Performance





# Health Safety Environment

### **Key Principles**

- Actions of Senior Management drive culture
- All injuries and environmental incidents are preventable
- Line Management ownership, through engagement

### **Key Aspects**

- CEO leads HSE Steering Team
   Biweekly meetings with operating groups
- Fatality/serious incident prevention Reporting culture, HiPo's, life saving rules
- Environment
   Good reporting culture, minimal risk of environmental impact



#### LIFE SAVING RULES

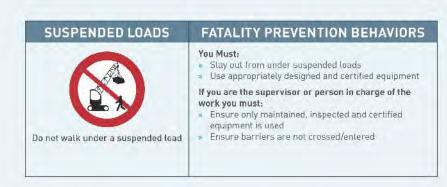
and use the specified life protecting

equipment

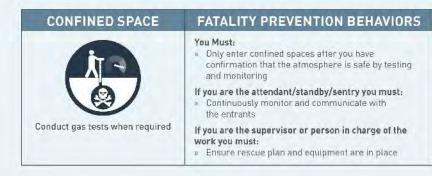


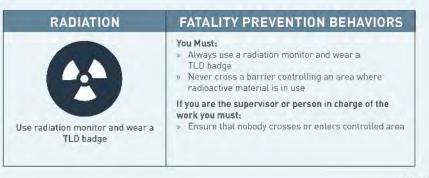
# FATALITY PREVENTION BEHAVIORS You Must: Isolate any source of energy from release Physically verify that energy is not present by testing If you are the supervisor or person in charge of the work you must: Ensure Personnel are trained and competent Verify isolation before work begins









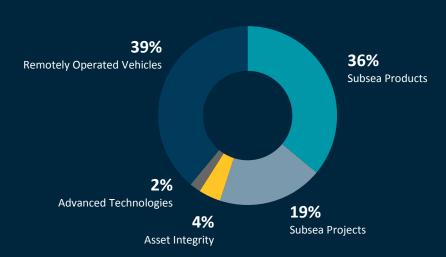




# Financial Highlights



### **Operating Income**







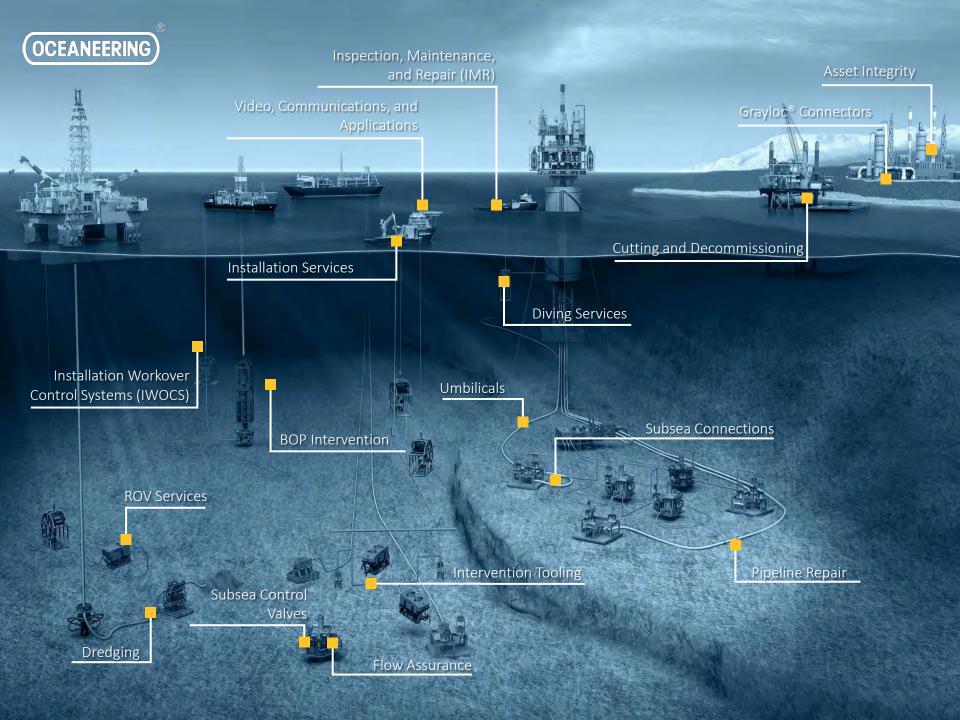


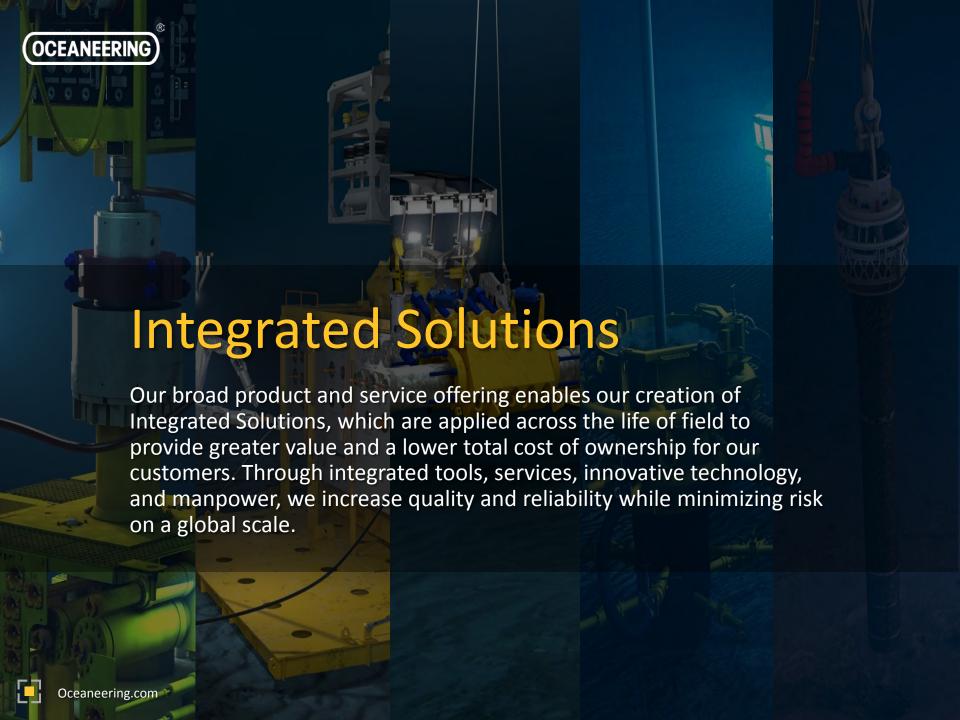


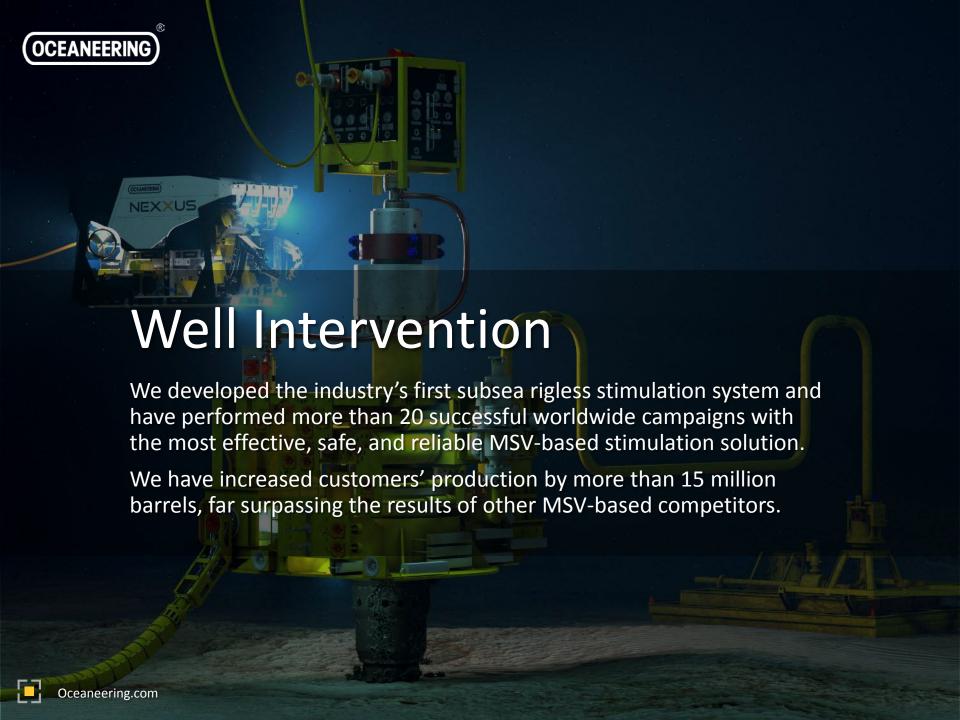














# Flowline Remediation Solution

We have more experience remediating blockages from subsea flowlines than any other company. This experience, combined with our innovative field-proven technologies, enables our customers to restore their production faster while minimizing costs and reducing downtime. In the simplest of terms, the competition cannot compete with our field-proven success remediating flowlines.





# Pipeline Integrity

We have more experience than our competitors and the largest portfolio of equipment, technologies, and capabilities to provide rapid and safe turnkey pipeline solutions that minimize environmental impact and allow the customer to bring assets back to production quickly.







Our specialized dredging solutions lower total cost of ownership, improve asset reliability, and reduce the chance of an unplanned event.

We combine a wide range of equipment with project management and custom engineering to meet our customers' requirements.

We meet customers' needs when it comes to ROV mounted skids, standalone subsea dredges, and deepwater pile dredges.





# Decommissioning

We plan and execute cost-effective decommissioning solutions to ensure safe and efficient removal of offshore infrastructure such as platforms, conductors, subsea hardware, and wells.





# **Products and Services**

We are a global oilfield provider of engineered technologies and solutions with a focus on deepwater applications. As the trusted subsea connection specialist, our experience combined with the depth and breadth of our portfolio allows us to engineer solutions for the most complex subsea challenges. From routine to extreme, our integrated products, services, and innovative solutions safely de-risk operational systems, increase reliability, and enable a lower total cost of ownership.





# Installation Workover Control Systems (IWOCS)

With more than 800 jobs over the past 25 years, customers choose us for reliable and specialized IWOCS services.

As the trusted IWOCS service provider, we partner with operators of all sizes to simplify their operations and deliver projects on-time and on-budget.









Rapid worldwide response

Equipment and personnel are stationed worldwide

Facilities available worldwide for Tree SIT (System Integration Test)

800
IWOCS jobs performed





25 YEARS of IWOCS experience

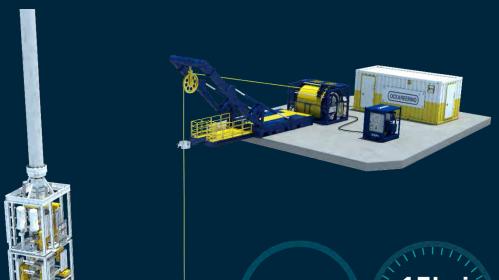


**99**% uptime



Support - **24 / 7** x **365** 

# Self-Supporting LARS



A self-supporting LARS deployment greatly expands an operator's weather window while reducing deployment time, which improves uptime and lowers operational costs.











Operable in 5+ knots current and/or extreme sea state. Deployable up to 2.5 knots (66% increase vs. traditional) World's first IWOCS umbilical qualified for 15ksi

World's first IWOCS umbilical qualified with fiber Reduces deployment time by 50%

Reduces crew size by 33%



## Additional Options for IWOCS Deployment



- Not as affected by currents
- Small footprint
- Field-proven



#### **Dual Guide Wires**

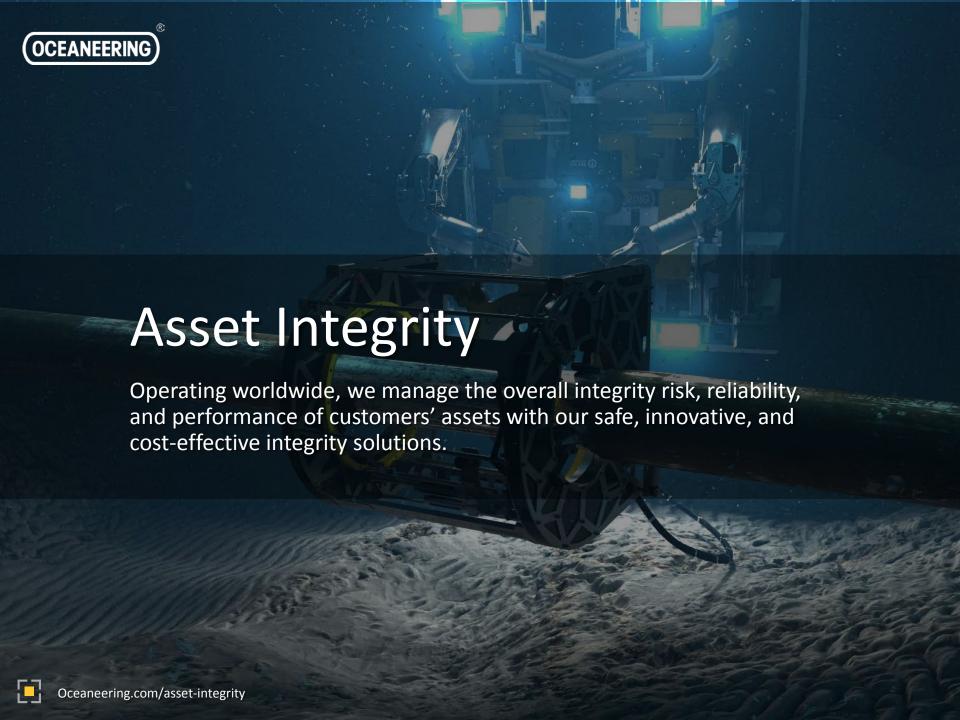
- Not as affected by
- For older rigs, this may be the best IWOCS option
- Dual guide wire is a time-proven reliable method



#### LARS (Open Water)

- Used on either a rig or vessel
- Fast deployment—no guide wires and guide funnels needed
- Flexible placement of equipment
- SIMOPS
- Less equipment required





# Inspection and Condition Monitoring

Our global inspection and condition monitoring services encompass a wide range of techniques and methodologies. Services range from comprehensive inspection management to customized inspection solutions.











Non-Destructive Testing (NDT) – CapEx / In-Service Advanced Inspection Services

Pipeline Inspection

Permanently
Installed
Monitoring
Systems (PIMS)

**Rope Access** 



## **Integrity Management**











# Onshore Upstream

We offer risk-based mechanical integrity programs to support proactive operators preparing to meet compliance requirements.

# Onshore Midstream

We help our customers align integrity strategies between regulated and non-regulated assets.

# Onshore Downstream

We understand the need for constant improvement of mature integrity programs.

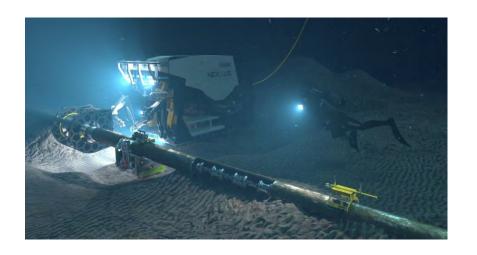
#### Offshore Topside

We work with customers to develop comprehensive integrity programs to protect the large capital investment in assets in the offshore market.

#### **Offshore Subsea**

We drive advancement in the development of practical methods for collecting accurate data associated with the condition of subsea assets.

## Subsea Asset Integrity



#### **Inspection Services**

We provide a range of advanced inspection technologies deployed internally or externally, by a diver or ROV.

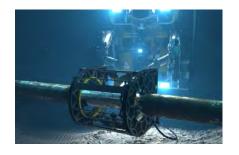


#### **Subsea Integrity Management**

We eliminate unexpected events with quality integrity management.

## **Subsea Inspection**

Our global subsea inspection solutions reach from splash zone to ultra-deep water and span our many divisions and capabilities. Our life of field approach has ensured subsea infrastructure is safe, legally compliant, and operational for decades.









#### **Neptune**

ROV-deployed, highresolution, ultrasonic system with phased-array capabilities.



Solutions capable of delivering integrity information in depths up to 10,000 fsw.

#### **MagnaScan**<sup>TM</sup>

Diver or ROV-deployed, high-speed ultrasonic screening tool.

2015 Winner



#### **Pipescan**

Tethered, high-resolution ultrasonic tool capable of inspecting unpiggable pipelines, risers, caisson, flowlines, and subsea tieins.



# **Global Data Solutions**

We specialize in information technology solutions that help our customers do business better. From the oilfield to the boardroom, subsea to satellite, and upstream to downstream, we have the data, technology, and subject-matter experts to ensure our customers accomplish their missions.



## **Real-Time Communication Solutions**











## Communications and IT Services

Turnkey solutions for networking, video, and voice.

#### **Video Services**

Most advanced live-streaming video and archiving solutions available to view remote operations in real time.

#### Vessel Tracking, Asset Tracking and PortVision®

Most advanced global asset tracking solutions with our Geographic Information Systems (GIS) services, asset tracking solutions, and the PortVision® platform.

#### GIS and Esri Services

Esri technology and proprietary data to present a Common Operating Picture (COP).

## **Custom Solutions**

Customer-specific solutions for the most complex challenges.





# **Survey Services**

We solve beyond the status quo for subsea surveys and deepwater seafloor mapping by connecting our reliable AUV technology to pipeline inspections.



## Marine Construction Surveys

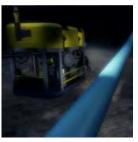
Our survey teams provide precise and repeatable positioning services for drilling rigs, pipeline lay barges, and derrick barges during the placement of structures, templates, and platforms.

#### **Services include:**

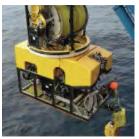
- Remotely operated survey (ROS) rig positioning
- Geographical information system (GIS)
- ROV Positioning
- Spool piece and jumper metrology
- Pipeline construction survey support
- Diver survey
- Decommissioning and abandonment survey









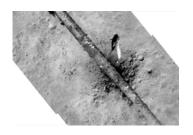






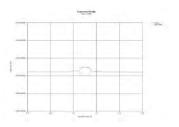


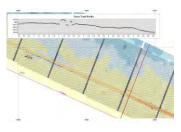
## **AUV Pipeline Inspection Surveys**











#### **Photo Mosaics**

We generate over 50,000 photos a day. We mosaic the photos together and present them to our customers in varied configurations including stills, large area mosaics, and videos.

## Annotated Video of Still Images

Using the photo mosaics, we generate videos that are similar to those that our customers may have received from past pipeline inspection surveys.

#### Merged Multi-Beam Data

Our multibeam system is capable of operating at two different frequencies (200 kHz and 400 kHz) with up to 400 beams.

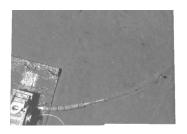
#### **Five-Point File**

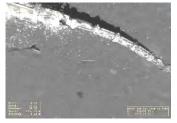
Our five-point files are generated from laser data that contains 1,400 individual points. We provide these files at the customers' desired spacing.

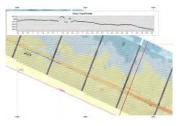
## Profile at Specified Intervals

Our laser profiles contain 1,400 individual data points that are 7-10 cm apart across a 7 meter wide swath. We collect profiles at 29 kHz with a 5mm resolution.

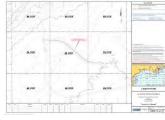
## **AUV Hazard Survey & Pipeline Inspection Surveys**











#### **Photo Mosaics**

We generate over 50,000 photos a day. We mosaic the photos together and present them to our customers in varied configurations including stills, large area mosaics, and videos.

## Annotated Video of Still Images

Using the photo mosaics, we generate videos that are similar to those that our customers may have received from past pipeline inspection surveys.

## Profile at Specified Intervals

Our laser profiles contain 1,400 individual data points that are 7-10 cm apart across a 7 meter wide swath. We collect profiles at 29 kHz with a 5mm resolution.

#### Block Hazard Survey

Our hazard surveys comply with BOEM and BSEE regulations for shallow water hazard requirements for offshore lease surveys that must be performed before drilling an exploration well in the Gulf of Mexico.

## Pipeline Hazard Surveys

Our multibeam system is capable of operating at two different frequencies (200 kHz and 400 kHz) with up to 400 beams.

## **C-Nav Positioning Solutions**

We offer highly accurate surface positioning using advanced GPS/GNSS receivers and correction services used for survey and station keeping/dynamic positioning (DP) operations.

#### **Solutions include:**

- Satellite-based precise point positioning (PPP) correction services (subscription)
- Highly accurate GPS/GNSS Receivers
- Navigation grade Gyro/INS integration
- Industry standard quality control software
- Situation awareness and DP fallback software
- Custom DP Sensor systems for Drillships and OSVs
- 24/7 worldwide support infrastructure





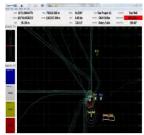












## C-Nav Precise Point Positioning (PPP) Solutions







Reference Station Networks

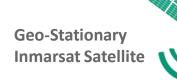






Two Independent **Processing Centers** 

Illinois, USA | California, USA 2 x C-NavC<sup>1®</sup> | 2 x C-NavC<sup>2®</sup>



Net-1 I Net-2

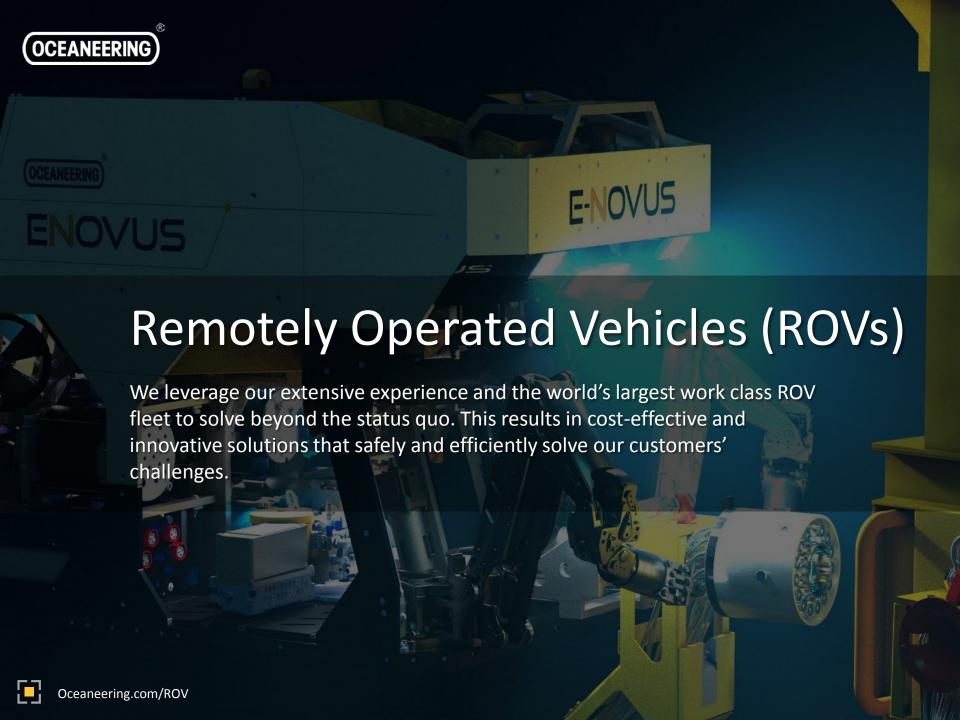




Safe and Reliable Survey and Dynamic Positioning (DP) Operations

High accuracy and stable C-Nav signal





## Remotely Operated Vehicles



Observation and Work Class Systems

10,000 ft / 3,000 m rated



**Heavy Work Class ROV** 

13,000 ft / 4,000 m rated



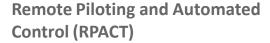
Heavy Work Class ROV (Meets API Standard 53)

13,000 ft / 4,000 m rated

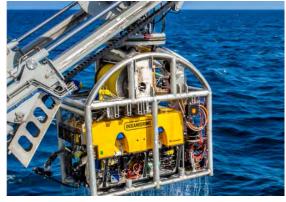


## Advancements in ROV Technology





RPACT revolutionizes operational efficiency and allows SMEs and/or ROV pilots to support ROV operations by establishing control through a remote Internet link.



**Tool Instructed Path (TIP)** 

Integrated with our automated ROV control system, TIP control allows easy acquisition, deployment, operation, and docking for tooling.



Real-Time Communication Systems

With live offshore video streaming and custom application support, we control and operate ROVs from onshore, providing support and guidance for complex missions.



# Subsea Tooling

We provide innovative tooling and services to solve customers' toughest challenges. With our extensive track record and team of highly skilled engineers and technicians, we offer integrated services and customized solutions.



## Subsea Tooling

- Cleaning tools
- Cutting tools
- Intervention tools
- Cameras, lighting, and displays
- Linear valve override tools
- Measurement tools
- Pumps
- Skids
- Torque tools
- Stabs, EQDs, manifolds, and valves





















# Umbilicals and Distribution Hardware

For more than 30 years, we have successfully delivered more than 3,000 km of subsea production control umbilicals.



## **Umbilicals**

We provide an effective design process for project development, which enables on-time, on-budget, and high-quality project execution.



Armored Thermoplastic Umbilical



Armored Thermoplastic Umbilical with HCR Hoses



Umbilical for Subsea Pumping Applications



**BOP Umbilical** 

## **Umbilicals**



**Hybrid Umbilical** 



**IWOCS Umbilical** 



Large-Bore Tube Umbilical



**Unarmored Steel Tube Umbilical** 



## **Distribution Hardware**









## **Umbilical Termination System and Manifolds**

Terminations and structures support a broad range of field architectures, from single-well tie backs to complex, multi-well drill centers.

## Stab and Junction Plates

Three configurable, standard junction plate sizes support economical subsea hydraulic connection.

# Stainless Steel Tube and Thermoplastic Hose Flying Leads

Project-specific flying leads designed to suit customers' field layout and installation requirements.

### Flying Lead Support Equipment

Solutions for long-term stowage, transportation, and installation of flying lead systems.



## **Connection Systems**

We incorporate the legendary Grayloc® metal-to-metal seal to provide simple and reliable turnkey connection system solutions for flowlines, pipelines, and flexible jumpers.



## **Connection Systems**









#### **Grayloc® Connector**

Industry leader for connecting piping and vessel systems worldwide.

## M5 ROV Flyable Connector

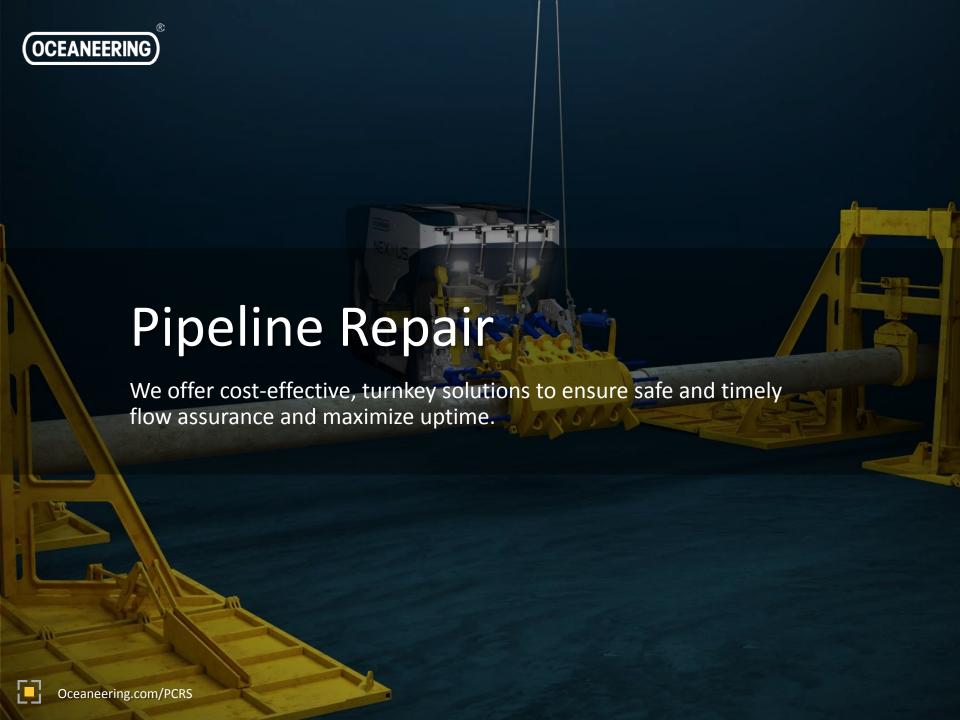
ROV-installable, single-bore, high flow connector.

#### **Vertical Connector**

Cost-effective, reliable, and easy-to-install flowline connector.

#### **Horizontal Connector**

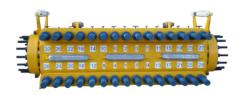
Incorporates the Grayloc® remote clamp connector for fast and reliable pipeline and flowline tieins.



## **Diverless Pipeline Repair**









## Hydraulic Double Grip and Seal Connector

Designed to provide a structural connection between the jumper pipe and an existing pipeline subsea. Structurally attaches to and seals against both pipe ends for deepwater pipeline repairs.

## Hydraulic Smart Flange (HSF) Connector

Hydraulically-set mechanical connector based on the proven technology of the Smart Flange Plus Connector for deepwater pipeline and riser repairs.

#### **Smart Clamp**

Split mechanical fitting used to repair a damaged or leaking subsea pipeline. Available in full structural and non-structural versions that provide pressure containment to the pipeline within the encapsulated area.

## **Diverless Connection** and Repair Systems

Incorporates the Grayloc® remote clamp connector for fast and reliable pipeline and flowline tie-ins.

## Diver-Installed Pipeline Repair



## Smart Flange Plus Connector

Easier, safer, and faster permanent subsea pipeline repairs. Offers pipeline and riser repairs without the need for hyperbaric welding.



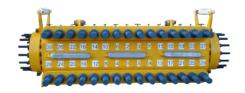
#### **Smart Tap**

Split mechanical hot tap fitting that provides a necessary flanged branch for hot tapping an existing subsea pipeline and tying-in a new lateral pipeline. Provides permanent high-quality sealing integrity and structural reinforcement for the design life of the pipeline.



#### Smart Vent Safety System

Designed to provide efficient riser repairs and to maximize the safety of workers by venting hazardous vapors away from the workstation during pipe repairs.



#### **Smart Clamp**

Split mechanical fitting used to repair a damaged or leaking subsea pipeline. Available in full structural and non-structural versions that provide pressure containment to the pipeline within the encapsulated area.

## Diver-Installed Pipeline Repair



B-Con Misalignment
Ball Connector

Designed for piping and pipeline systems where the connector must compensate for misalignment of the pipe.



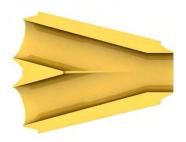
**Swivel Ring Flange** 

Provides easy alignment of the bolt holes during makeup to a common flange.



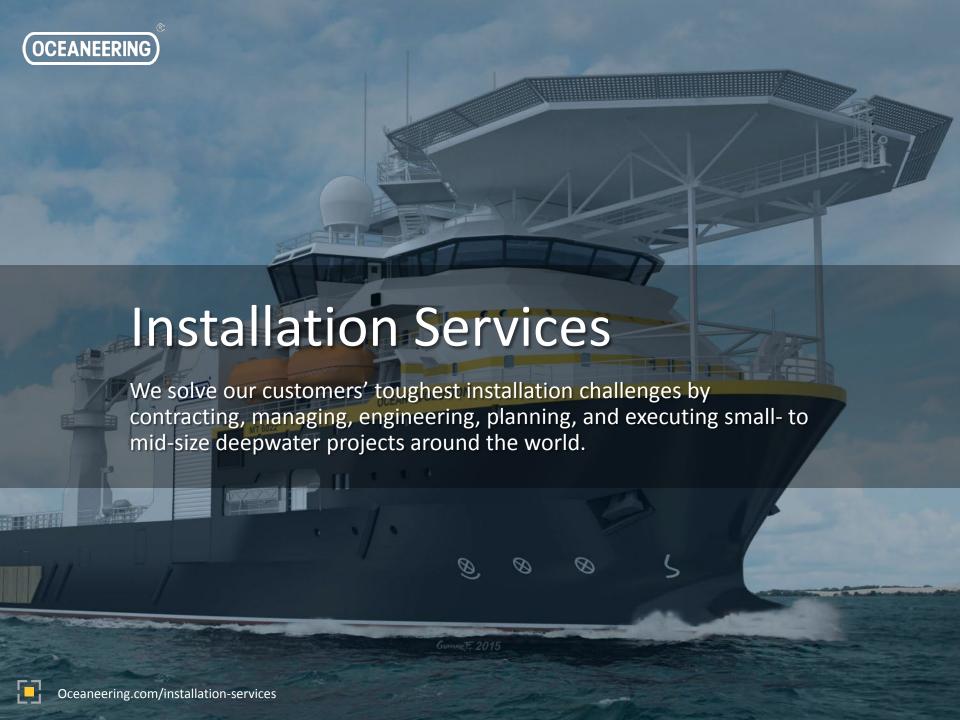
Pressure-Balanced Breakaway Joint

Connector that separates if an externally applied tension load exceeds a preset value.



**Piggable Wye Fitting** 

Forged or cast fitting that joins pipelines and permits pigging from either inlet branch toward the single outlet.



## Multi-Service Vessels (MSV)





- US Flag Jones Act Compliant
- Length overall 243 ft / 74 m
- 5,454 ft<sup>2</sup> / 507 m<sup>2</sup> clear deck



Ocean Intervention® II

- US Flag Jones Act Compliant
- Length overall 254 ft / 77 m
- 5,613 ft<sup>2</sup> / 614 m<sup>2</sup> clear deck



#### **Ocean Alliance**

- US Flag Jones Act Compliant
- Length overall 309 ft / 94 m
- 8,683 ft<sup>2</sup> / 807 m<sup>2</sup> clear deck

## Multi-Service Vessels (MSV)



Ocean Intervention® III

- 1,300 tons deck capacity
- Length overall 295 ft / 90.5 m
- 8,202 ft<sup>2</sup> / 762 m<sup>2</sup> clear deck



Olympic Intervention® IV

- 1,600 tons deck capacity
- Length overall 312 ft / 95 m
- 9,500 ft<sup>2</sup> / 883 m<sup>2</sup> clear deck



#### **Ocean Evolution**

- US Flag Jones Act Compliant
- Length overall 353 ft / 107.6 m
- $8,000 \text{ ft}^2 / 743 \text{ m}^2 \text{ clear deck}$

## Subsea Hardware Installations









#### **Umbilicals**

1,500+ km successfully installed in water depth up to 7,874 fsw.

#### **Subsea Trees**

Turn key tree installations at record setting depths 9,627 fsw.

#### **Manifolds**

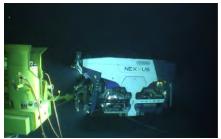
Complete field installations including manifold tie-ins with Oceaneering supplied connection systems.

#### **Flowlines**

Niche infield flowline installation provider.

## Subsea Hardware Installations









#### **Jumpers**

346 jumpers successfully installed in up to 9,724 fsw.

#### **Flying Leads**

Supply, installation, and repair of electrical and hydraulic flying leads.

## **Crossing Mattress Installation**

Batch set mattress with all survey services in house.

## **Pipeline Connection Systems**

Fifty years of pipeline repair experience and reroutes, including ROV and diver installed Oceaneering manufactured connection systems.

## **Modular Installation Equipment**











## HPRS 40 Reel Drive System

Designed with an integrated reel. The spoolable area of the reel matches specifications of a typical 8.6 m reel. The reel can pull 32 tons at the drum and 12.5 tons at the flange.

## Carousel Lay System

650-ton carousel lays or retrieves 10,000-lb tension using the caterpillar. Short lengths of one layer are retrieved with a tension of 22,000 pounds with the caterpillar disengaged.

#### **J-Lay System**

Reeled pipelay system for offshore installation of reeled rigid pipe. The J-lay tower incorporates a pneumatic drive system, pipe straightener, work platforms for pipeline inspection, anode installation, and welding operations.

## 4-Track Tensioner System

Performs deepwater installations of flexible products in depths of more than 5,000 fsw. The linear track style tensioner maintains deployment tensions of 66 tons and recovery tensions of 75 tons for flexible products ranging in diameters from 3 to 14 inches.

#### **Lay Ramp**

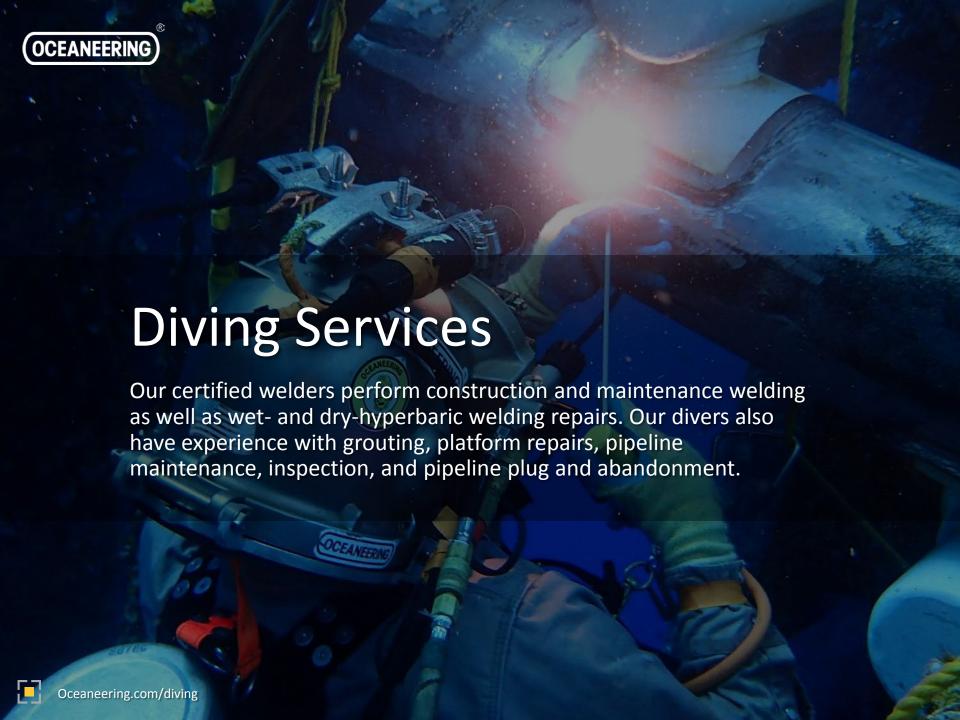
Includes a 24-ft radius chute and foundation for the 4-track tensioner. The elevated chute allows for installation of buoyancy modules or centralizers on the umbilical or flexible pipe from the retractable work platform.

## Project Engineering and Management

Our installation services provide fully integrated solutions inclusive of project management, engineering, and marine management.

We have the experience and expertise to provide quality engineering and project management services for projects of all sizes.





## Diving Support Vessels (DSV)

Oceaneering has one of the youngest diving support vessel fleets in the Gulf of Mexico, including four point and dynamically positioned vessels.









#### **Ocean Inspector**

- US Flag Jones Act Compliant
- Length overall 128 ft / 39 m
- Built-in diving and ancillary equipment

#### **Ocean Quest**

- US Flag Jones Act Compliant
- Length overall 150 ft / 46 m
- Built-in diving and ancillary equipment
- Four -point mooring station keeping system

#### **Ocean Project**

- US Flag Jones Act Compliant
- Length overall 200 ft / 60 m
- Built-in diving and ancillary equipment
- Four-point mooring station keeping system

#### **Ocean Patriot**

- US Flag Jones Act Compliant
- Length overall 240 ft / 73 m
- Built-in diving and ancillary equipment
- Dynamic Positioning Converteam DP-2



## **Diving Services and Equipment**



#### **Grouting**

With over 40 years of experience in grouting operations and equipped with highly skilled crews, we specialize in offshore grouting structural repairs.



#### **Subsea Inspection**

Our extensive experience encompasses a broad range of subsea inspection. From routine to extreme, our diving vessels are fully equipped to handle the most requested to the most complex inspection requirements.



#### M7 SAT System

The Oceaneering® M7 Saturation Diving System is road, ship, and air transportable worldwide. The hyperbaric rescue chamber with selfcontained tilt launching system is an over-the-side or moonpool-deployed diving bell and bell handling system.



# Inspection, Maintenance and Repair (IMR)

With a fleet of fully integrated and managed multi-service vessels (MSVs), we successfully execute conventional and complex subsea inspection, maintenance, and repair (IMR) campaigns.



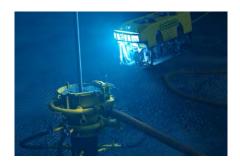


## Decommissioning

Our decommissioning solutions ensure safe and efficient well abandonment and the removal of offshore infrastructure such as platforms, conductors, and subsea hardware.



## Dredging









## **Drill Cutting Remediation**

Dredging equipment collects and transports drill cuttings to designated disposal areas.

#### **ROV Dredging**

ROV dredges are used for excavating pipelines, drill cutting remediation, decommissioning, salvage, and other offshore tasks.

#### 12-Inch Dredge

The 12-inch XL electric dredge provides 12.5-ksi suction pressure and up to 7,500 suction gpm. The top-side control unit controls all functions and monitors readings.

#### **Deepwater Pile Dredge**

The electrically-driven system and its pumps provide water jetting and suction to excavate piles at any depth.



## **Cutting Services**









## Decommissioning and Cutting

With an extensive range of cutting and decommissioning tools and engineering capabilities, we provide optimized solutions for customer requirements.

#### **Abrasive Cutting**

The Abrasive Waterjet Cutting (AWJC) method uses a high-energy jet of water-borne abrasive particles to quickly and safely cut hard steel alloys.

## Mechanical Cutting Tools

Our tooling catalog supports cutting of standard materials with varied wall thicknesses. Our tools save time and offer improved cut quality when compared to other cut and grind methods.

#### **High-Pressure Cleaning**

Abrasive waterjet technology and highpressure pumping systems support removal of marine growth from hulls, risers, strakes, and fairings.



## **Naval and Marine Services**



#### **Submarine Systems**

We perform major, complex overhauls, repairs, and modernization of all submarine classes forward and aft, from the top of the sail to the keel.



#### **Deep Submergence**

We support the US Navy's Deep Submergence community by performing complex overhauls, planned maintenance, and emergency repair tasks for the Navy's six dry deck shelters.

## **Naval and Marine Services**



#### **Surface Ship Systems**

We perform major structural, mechanical, and electrical repairs in support of the US Navy's Landing Craft Air Cushion Service Life Extension Program (SLEP).



### Manufacturing

We support the US Navy's submarine and surface fleet with shipboard systems repairs, complex structural manufacturing services, component repairs, and machine shop services.



## Oceaneering Technologies (OTECH)



#### **Manufacturing**

We provide build-to-print manufacturing, fabrication, precision machining, and assembly services that support quick response and solutions for projects of all sizes.



#### **Engineering**

We provide engineered solutions for customized shipboard equipment, subsea vehicles, and maritime equipment that solve complex challenges and meet critical mission requirements.





## **Entertainment Systems**









REVOLUTION™ Tru-Trackless™ Dark Ride System

This award-winning trackless ride system provides a turnkey solution, including design and installation services, with components manufactured to customers' specifications.

#### EVOLUTION™

We developed and patented an evolutionary motionbased system capable of delivering high-energy thrills in fully immersive 3D mediabased attractions at a fraction of the cost of other ride vehicles.

#### **EVO-6™**

A first-of-its-kind, fully programmable, multi-degree-of-freedom vehicle that transports guests through exciting twists and turns.

#### Suspended Theater™

Immersive 3D and 4D theaters for theme parks and attractions that brings to life a reveal experience with surprising results.

Suspended Theater™ is a trademark of Falcon's Creative Group





## **Automated Guided Vehicles**



#### CompactMover AGV

CompactMover AGVs are designed to carry small, light loads and handle up to four loads at a time.



#### **MaxMover AGV**

MaxMover AGVs transport loads of all sizes and types, inclusive of heavy loads.

The most popular MaxMover AGVs are automated forklifts, available as single- or dual-load vehicles.



#### **UniMover AGV**

UniMovers AGVs are tunneling AGVs that drive beneath the load and transport the load to its final destination.





## **Space Systems**









#### **Astronaut Space Suit**

Our Exploration Suit (EXS) enables safe and efficient extra-vehicular activity (EVA) operations including exploration and building and maintenance of structures and habitats in space.

#### **Robonaut 2**

Robonaut 2 humanoid robot is made up of multiple component technologies and systems: vision systems, image recognition systems, sensor integrations, tendon hands, and control algorithms.

Robonaut 2 is operational on the International Space Station.

#### **Human Space Flight**

We are a world leader in designing, manufacturing, testing, and maintaining equipment for human space flight. We design, build, and test space instruments and experimental hardware for use inside and outside the spacecraft.

Our divers and support staff train spacewalking astronauts in NASA's Neutral Buoyancy Laboratory (NBL), a 40-ft deep pool in Houston, TX.

#### **Thermal Systems**

We are one of the premier developers of engineered thermal protection systems for extremely high temperature applications.

