







**PETROHOUSE**  
OFFSHORE


# Summary


**01. History and Values**   
Learn about our trajectory, experience, objectives, and values that guide our performance in the market.

**02. Quality Culture**   
Organizational culture that guides our actions and certifications that attest to our quality.

**03. Service Lines**   
Solutions and areas of expertise that demonstrate our versatility.

**04. Strategic Resources**   
Robust infrastructure and advanced resources for safe and efficient operations.

**05. Success Cases**   
Real projects that demonstrate the efficiency and quality of our services.

**06. Technical Solutions**   
Discover how **Petrohouse** drives innovation through R&D and Engineering.

# Company Overview

Founded in 2019, **Petrohouse** is a company specialized in providing technical solutions for the industrial production chain, operating with an integrated portfolio of products and services with high operational complexity.

Since its foundation, **Petrohouse** has maintained a continuous commitment to technical evolution, innovation, and operational excellence, incorporating knowledge acquired from projects executed for different client profiles and industrial segments.



With a **focus on advanced solutions and adaptation to market demands**, the company has consolidated itself as a strategic partner, expanding its operations in high value-added services within **the industrial, energy, and offshore sectors.**

# Technical Specialties



## Mechanical Maintenance

Repair and maintenance of mechanical equipment with high technical standards.



## Electrical Maintenance

Electrical solutions applied to industrial systems and equipment.



## Hydraulic Maintenance

Maintenance and repair of hydraulic systems with precision and reliability.



## Pneumatic Maintenance

Maintenance of pneumatic systems focused on operational performance.

# Mission



To **provide comprehensive technical solutions** that combine innovation, safety, and sustainability in **industrial and offshore operations.**

# Vision



To be a **national reference** in inspection technologies and intelligent maintenance, **promoting safer and more sustainable operations.**

# Core Values

Values that guide us in  
building tomorrow:

## **Integrity in Relationships**

Transparency, ethics, and  
trust in relationships with  
clients and partners.

## **Commitment to Truth**

Technical accuracy and  
reliability of information.

## **Valuing People**

Respect for individuals as a  
central principle in  
decisions and operations.

## **Excellence in Results**

Continuous pursuit of  
excellence and exceeding  
expectations.

## **Continuous Improvement**

Ongoing evolution of  
processes, services, and  
competencies.

## **Innovation and Sustainability**

Development of solutions  
aligned with best  
environmental and  
technological practices.

# Extension of Values

## For the Productive Sector:

To contribute to technological development and innovation in the energy and industrial sectors, supporting sustainable practices and economic growth.

## For Customers:

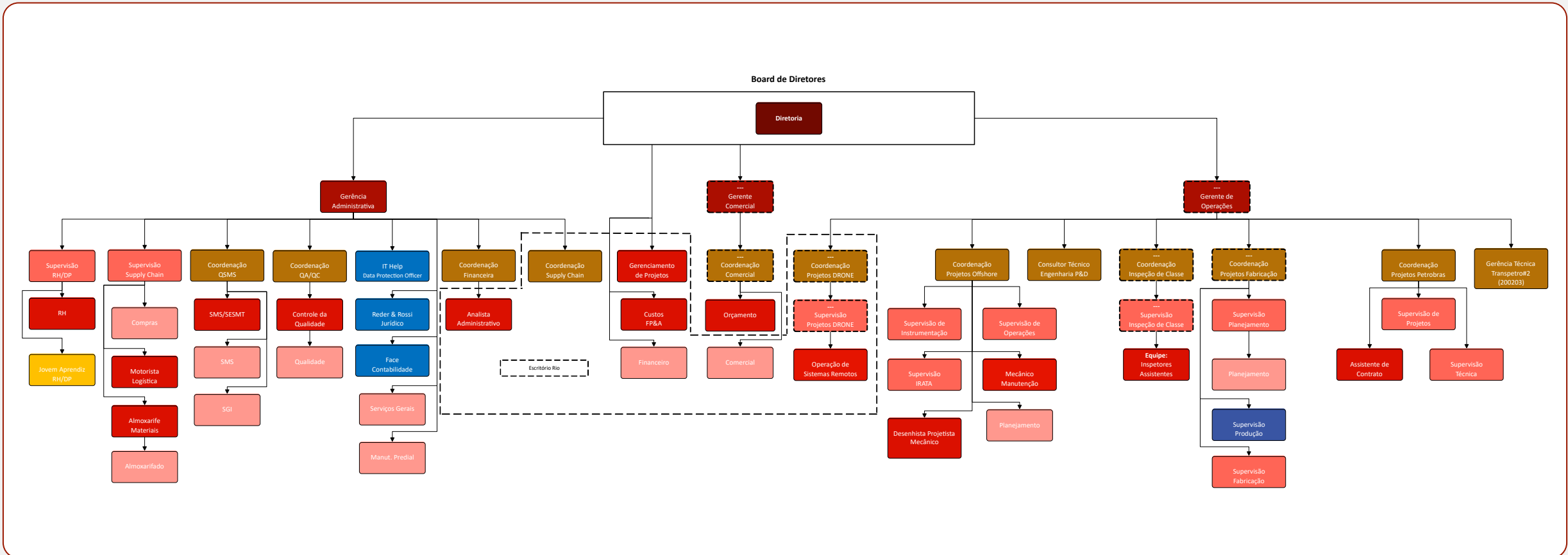
To deliver excellent technical solutions, promoting the continuous improvement of production processes and maximizing operational results.

## For Employees:

To promote a safe, collaborative, and inspiring work environment, valuing human and professional development.

# Organizational Structure

Petrohouse's organizational structure is designed to ensure agility, efficient communication, and excellence in delivery, promoting strategic decisions aligned with business objectives and customer needs.



# Key Policies

Corporate policies guide the responsible management of the company's activities, encompassing quality, safety, health, environment, and social responsibility, with emphasis on:



**PH-PG-003**  
Quality Policy

**PH-RG-006**  
Alcohol and Drug Policy

**PH-PA-010**  
Travel Policy

**PH-SMS-001**  
Waste Management

**PH-SMS-017**  
Stop Work Authority

**PH-SMS-016**  
Consequence Management and Disciplinary Measures

# Professional Ethical Conduct

**Petrohouse** adopts ethics as a fundamental principle of its operations, promoting a work environment based on cooperation, human respect, integrity, and transparency in all professional and commercial relationships.

## **Normative Reference:**

PH-PA-001 – Professional Ethical Conduct

This policy establishes guidelines for the appropriate behavior of all employees, aiming to guarantee integrity and transparency in all our operations.



## **Information Security**

The company ensures the protection of data and systems through clear guidelines for the responsible use of corporate information, guaranteeing the confidentiality, integrity, and availability of critical systems.

### **Objectives of the Data Protection Policy:**

- Protect corporate data and systems against unauthorized access.
- Guarantee the confidentiality of business information.
- Ensure the integrity and availability of critical systems.
- Establish procedures for reporting security incidents.

# Strategic Partners

Companies that trust  
**Petrohouse** as a technical  
partner:



# Certification Scope

- Manufacturing and maintenance of hydraulic and pneumatic equipment.
- Provision of qualified technical labor.
- Rental and sale of machinery, equipment, and spare parts.



**ISO 9001:2015**

**TÜV NORD**

Quality Management  
System



**Hull Gauging Firm**

**ABS**

Authorization to perform  
thickness measurement  
services.



**Close Up Survey**

**ABS**

Detailed visual  
inspections using drones  
or rope access.

**New certifications  
(in progress):**

**ABS**

**Thickness Measurement  
with Drones**

**DNV**

**Thickness  
Measurement**

**DNV**

**Thickness Measurement  
with Drones**

# Supplier Qualified



## CRC Petrobras

Certified by Petrobras to supply goods and services, meeting rigorous standards of quality, legality, economy, integrity, technique, health, safety and environment.



## IADC Membership

Membership in the International Association of Drilling Contractors is committed to improving safety and the environment while promoting the advancement of drilling technologies.

# Service Portfolio

**Industrial Hydraulics**



**Industrial Boiler Making and Fabrication**



**Pressure Testing**



**Cathodic Protection – Corrosion Prevention**



**Internal Corrosion Monitoring (ICM)**



**Ultra High-Pressure Water Jetting (UHP)**



**Heat Exchanger Cleaning and Maintenance**



**Tank Cleaning and Isolation**



**Fluid Characterization and Analysis**



**3D Scanning of Industrial Structures**



**Rope Access Operations (IRATA)**



**Offshore Manpower Supply**



**Unmanned Aerial Vehicle (UAV) Operations - Remote Inspection Techniques**



# Industrial Hydraulics



**Service**  
Lines

**Excellence in**  
Technical and Industrial Solutions

Increased efficiency

Greater industrial productivity

Reducing failures and costs

Specialized technical support

Complete solutions in industrial hydraulics, combining precision engineering, specialized maintenance, and cutting-edge technology to guarantee efficiency, reliability, and operational safety.

**Services Provided:**

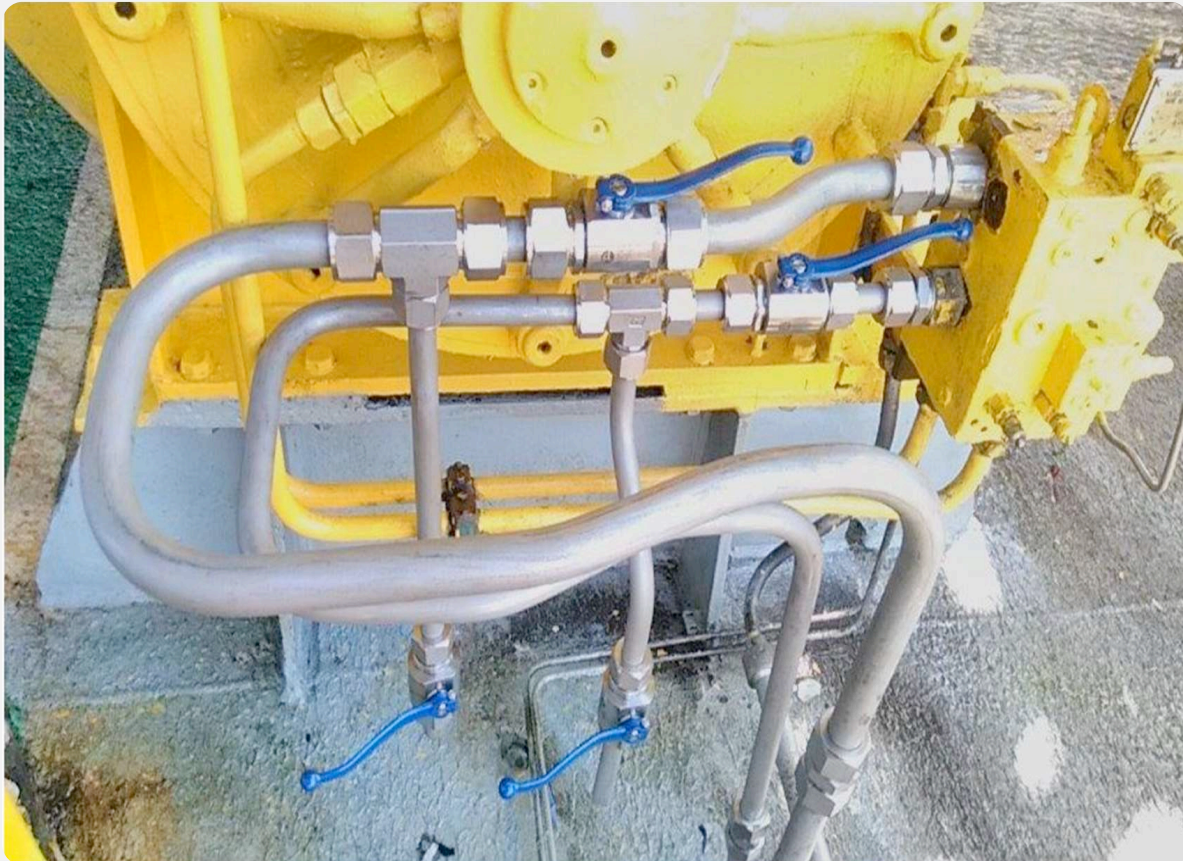
- Custom design and engineering, from concept to execution of the hydraulic system;
- Installation and preventive maintenance, ensuring continuous performance;
- Rapid diagnosis and repairs, reducing downtime;
- Modernization and updating of systems according to current technical standards;
- Training and technical consulting, empowering operational teams.

[Learn More](#)

# Industrial Hydraulics

Records of services performed for Petrobras:

- Hydraulic Block Replacement and Flushing Outlet Installation.



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# Boiler making and Industrial Manufacturing



## Service Lines

Reliability and performance in  
extreme conditions.

Custom manufacturing and  
high-quality standards.

## Excellence in Technical and Industrial Solutions

Risk reduction and structural  
failure reduction.

Compliance with national and  
international standards

Manufacturing and maintenance of boiler equipment, ensuring safety, durability, and technical compliance in pressure vessels, boilers, tanks, and industrial metal structures.

### Services Provided:

- Design and engineering using CAD/CAE software, in accordance with ASME and ABNT standards.
- Certified welding, ensuring structural integrity and mechanical resistance.
- Assembly and finishing with the application of coatings and anti-corrosion paint.
- Pressure, ultrasound, and non-destructive testing and inspections.
- Corrective and preventive maintenance to extend the service life of equipment.

[Learn More](#)



# Boiler making and Industrial Manufacturing

Records of services developed for Brava Energia:

- Spool Manufacturing.





# Boiler making and Industrial Manufacturing

Records of services developed for Brava Energia:

- Spool Manufacturing.



# Pressure Tests



## Service Lines

Quality assurance and  
operational safety

Compliance with regulatory  
and industry standards.

## Excellence in Technical and Industrial Solutions

Early detection of faults, leaks  
and wear

Risk reduction and increased  
operational confidence.

Pressure testing of industrial equipment and systems, ensuring operational safety, technical compliance, and reliable performance in onshore and offshore environments.

### Services Performed:

- Pressure testing of pipelines: verification of leak tightness and integrity;
- Testing and validation of pressure tanks, ensuring resistance and safety;
- Hydrostatic testing, according to technical standards and design parameters.

[Learn More](#)

# Cathodic Protection Corrosion Prevention



**Service  
Lines**

Active corrosion prevention

Regulatory compliance

**Excellence in  
Technical and Industrial Solutions**

Continuous monitoring

Safety and Reliability

Complete cathodic protection projects, applied to onshore and offshore metallic structures, guaranteeing asset integrity and operational longevity.

**Applications:**

- Pipelines, tanks, ship hulls and submerged structures;
- Industrial systems, platforms and offshore installations;
- Highly corrosive environments.

[Learn More](#)

# Internal Corrosion Monitoring



## Service Lines

## Excellence in Technical and Industrial Solutions

Reducing failures and  
corrective maintenance costs

Accurate data for predictive  
and preventative decisions

Compliance with technical  
standards

Evolving technology, aligned  
with Industry 4.0

Advanced Internal Corrosion Monitoring (ICM) solutions to preserve the structural integrity of industrial pipelines and equipment, reducing risks and optimizing asset lifespan.

### Technologies and Methods Applied:

- High-precision ultrasonic and electrochemical sensors.
- Potential measurement and spectral analysis of materials.
- Continuous monitoring and intelligent data processing.
- Lifespan prediction and detection of corrosive microbiology.
- Integration with asset management systems (AMS).

[Learn More](#)

# Industrial Cleaning with High-Pressure Water Jetting (UAP)



## Service Lines

Clean surfaces in  
up to 24 hours

Advanced technology  
equipment

## Excellence in Technical and Industrial Solutions

Highly qualified team

Effective and environmentally  
friendly method

Ultra High Pressure (UHP) water jetting services with state-of-the-art equipment and highly trained teams, guaranteeing precise, safe, and efficient cleaning of industrial surfaces and equipment.

### Applications:

- Removal of encrustations, residues, and adherent materials.
- Unblocking of lines and heat exchangers.
- Cleaning of tanks, ducts, and industrial systems.

### Technical Characteristics:

- High pressure up to 40,000 psi.
- Water flow up to 1,200 l/min.
- Temperature up to 180°C.
- Multi-stage filtration system.

[Learn More](#)

# Cleaning and Maintenance of Heat Exchangers



## Service Lines

Restoring energy and  
operational efficiency

Prevention of corrosion and  
structural failures

## Excellence in Technical and Industrial Solutions

Reducing unscheduled  
downtime

Extending the lifespan of  
equipment

Complete maintenance, chemical cleaning, passivation, and retubing services for heat exchangers, ensuring maximum thermal efficiency and operational integrity.

### Services Performed:

- Mechanical and chemical cleaning to remove scale and deposits;
- Passivation of metal surfaces, creating a protective anti-corrosion layer;
- Complete retubing with removal, replacement, and welding of damaged tubes;
- Technical inspections, pressure tests, and thermal performance evaluation.

[Learn More](#)

# Tank Cleaning and Isolation



## Service Lines

Reducing failures and corrective maintenance costs

Compliance with technical standards

## Excellence in Technical and Industrial Solutions

Accurate data for predictive and preventative decisions

Evolving technology, aligned with Industry 4.0

Complete tank cleaning and isolation solutions, combining technology, safety, and technical expertise to guarantee maximum operational performance and the integrity of industrial and offshore assets.

Our services adhere to rigorous quality and environmental compliance standards, ensuring efficiency, protection, and durability of installations.

### Applications:

- Fixed roof, floating roof, and pressure tanks;
- Cargo and ballast tanks for vessels;
- Storage tanks in refineries and industrial plants;
- Inspection, maintenance, and decommissioning operations.

[Learn More](#)

# Tank Cleaning and Isolation

Tank cleaning service records.

- Before and after.



# Tank Cleaning and Isolation

Tank cleaning service records.

- Before and after.



# Fluid Characterization and Analysis



## Service Lines

## Excellence in Technical and Industrial Solutions

Guarantee of proper  
equipment operation

Prevention of operational  
failures and problems

Increased longevity of  
equipment

Performance optimization and  
operational efficiency

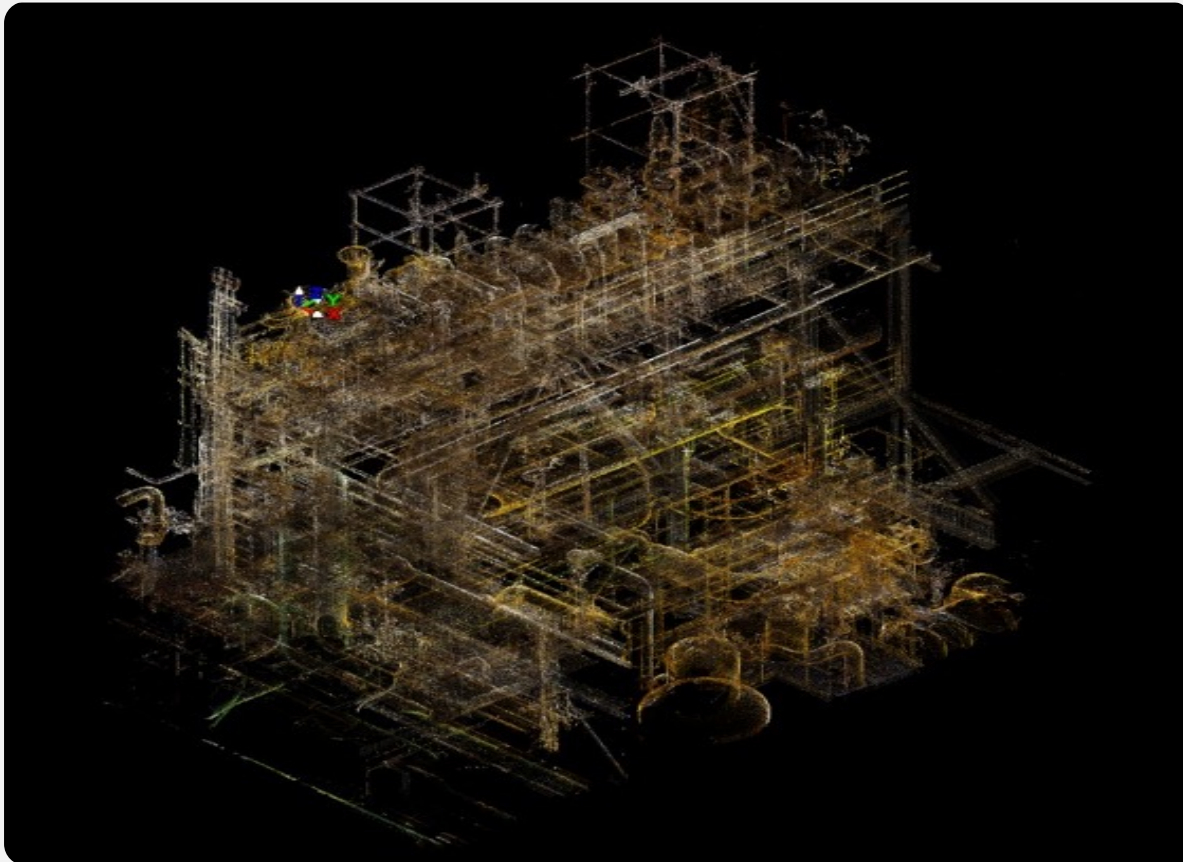
Projects involving detailed analysis of fluid properties and development of customized solutions to ensure proper equipment operation, using advanced laboratory analysis techniques to determine the physical, chemical, and thermal characteristics of the fluids in question.

### Applications:

- **Data collection:** samples collected from different points in the system for representative analysis.
- **Laboratory analysis:** detailed testing of the physical, chemical, and thermal properties of the fluid.
- **Residual interpretation:** evaluation of the data obtained to identify characteristics and potential issues.
- **Solution development:** customized solutions to improve or maintain fluid properties.

[Learn More](#)

# 3D Scanning of Industrial Structures



## Service Lines

Accurate diagnosis and  
visualization of assets

Highly accurate maintenance  
planning

## Excellence in Technical and Industrial Solutions

Reducing the risks and costs  
of manual inspection

Integrated database for asset  
management

**Petrohouse** performs high-precision 3D scanning for complete digitization of industrial facilities, tanks, and structures, generating digital twins with reliable data and detailed visualization.

### Applied Technology:

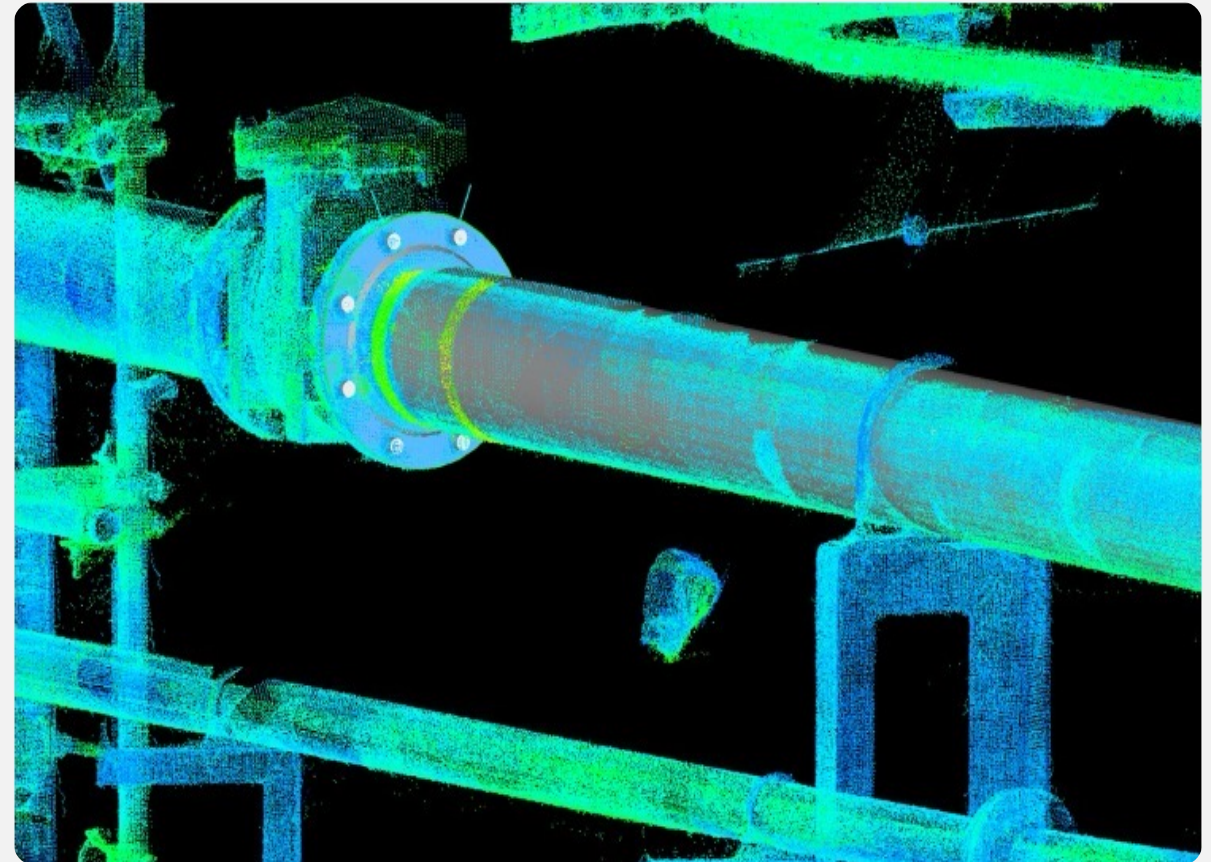
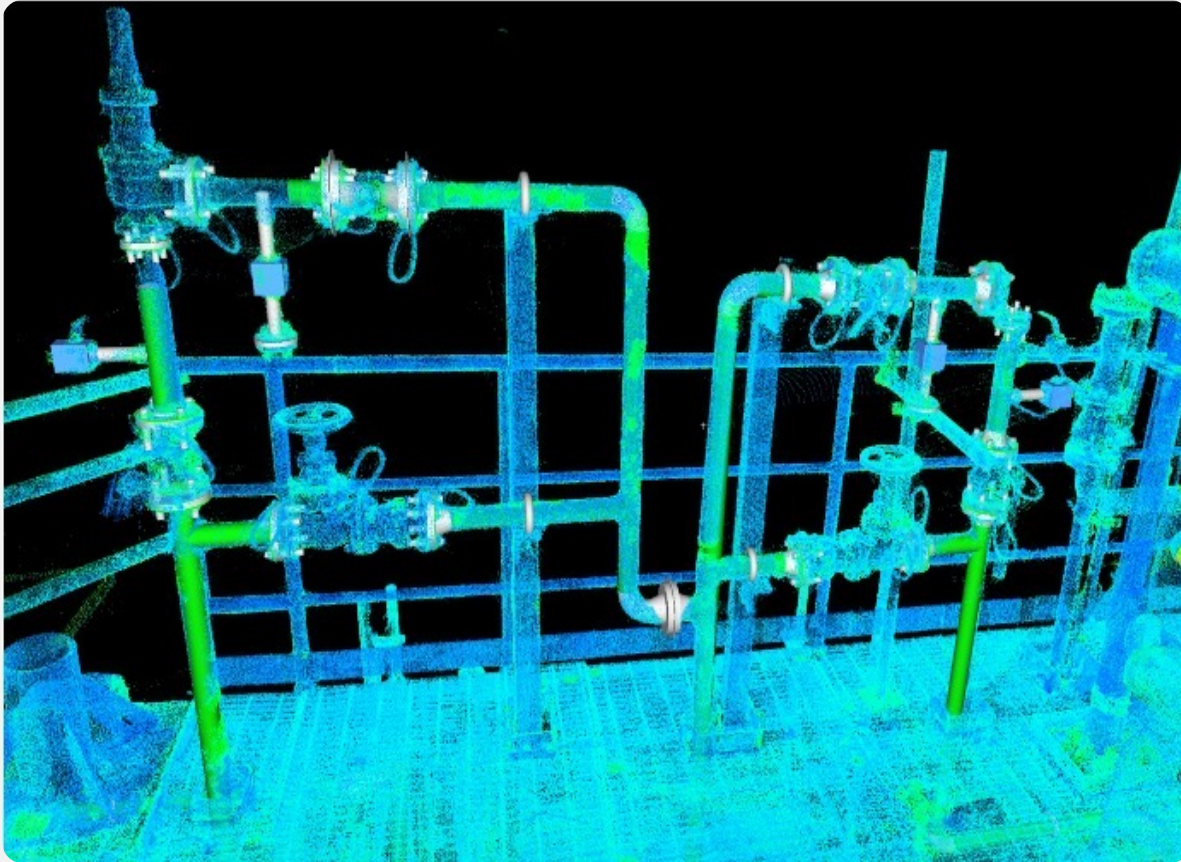
- FARO 3D Scanner: laser scanning of industrial equipment and facilities.
- Generation of digital twins with point clouds and AS-Built references.
- Three-dimensional modeling for analysis, inspection, and predictive maintenance.
- Technology aligned with Industry 4.0 and the future of intelligent maintenance.

[Learn More](#)

# 3D Scanning of Industrial Structures

Records of services developed for Brava Energia:

- AS-Built – Drainage line.

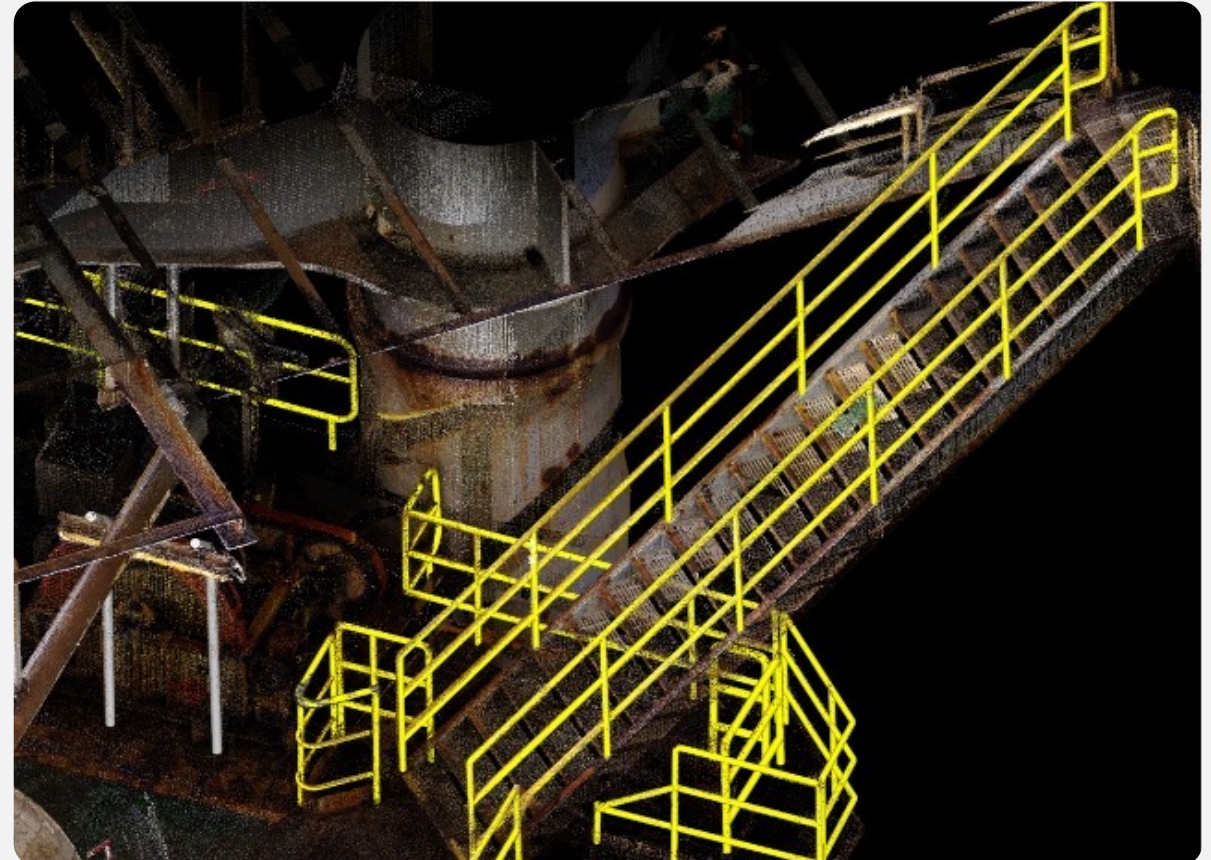
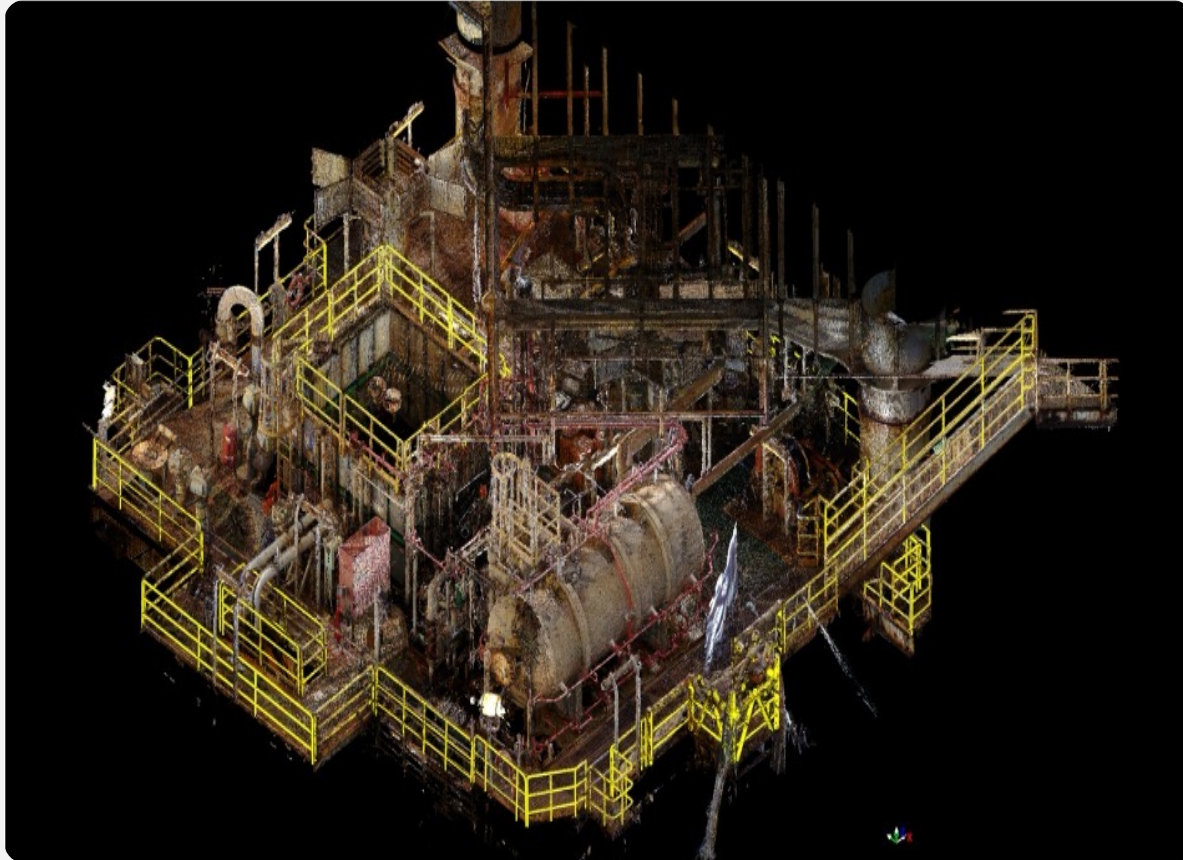




# 3D Scanning of Industrial Structures

Records of services developed for Brava Energia:

- Electronic mock-up of guardrails.



# Rope Access Operations

Operational Safety

Access to Difficult Areas

Efficiency at Work

Highly Qualified Team



**Petrohouse** offers specialized rope access services, enabling safe and efficient access to hard-to-reach areas in offshore operations.

Our highly trained team utilizes advanced rope access methods to perform inspections, maintenance, and repairs on offshore structures.

**Applications:**

- Structure inspections.
- Preventive Maintenance.
- Equipment repairs.
- Sample collection.

[Learn More](#)

# Offshore Manpower



## Service Lines

Qualified and certified  
professionals

Ongoing training and  
certification

## Excellence in Technical and Industrial Solutions

Multidisciplinary teams

Complete logistical support

**Petrohouse** provides qualified offshore labor, prepared to work safely, efficiently, and with technical excellence in the most challenging environments of the maritime and energy industries.

### Activities:

- Recruitment and selection of certified professionals.
- Multidisciplinary teams – technicians, engineers, and supervisors.
- Training and certification according to international standards (NRs, OPITO, STCW).
- Complete logistical support – transportation, accommodation, and provisioning.
- Management and supervision of offshore projects.

[Learn More](#)

# Remote Inspection Techniques



## Service Lines

## Excellence in Technical and Industrial Solutions

Reducing human exposure  
and operational risks

Reduced costs and execution  
time

Accurate and high-resolution  
data collection

Live stream transmission

With a highly qualified team and advanced technologies, **Petrohouse** performs detailed remote inspections, reducing human risk and operational downtime.

### Services Provided:

- Visual Inspection – CVI and GVI.
- Thermographic Inspection.
- Ultrasonic Thickness Measurement (UT).
- Confined Space Inspections.
- Industrial Gas Detection and Monitoring.
- Oil Spill Response.
- Marine Monitoring and Conservation.
- Aerial Mapping.
- 3D Modeling – Digital Twin.
- Aerial Pressure Washing.

[Learn More](#)

# Remote Inspection Techniques

Internal records of the DJI M30T equipment, used in visual inspection operations with unmanned aerial vehicles.

- DJI M30T aircraft used in visual monitoring operations.



# Remote Inspection Techniques

Internal records of the DJI M30T equipment, used in visual inspection operations with unmanned aerial vehicles.

- DJI M30T aircraft used in visual monitoring operations.



# Petrohouse Bases

**Petrohouse** has strategic bases and modern facilities to support its onshore and offshore operations, ensuring efficiency and responsiveness.

Mar do Norte  
Administrative Base

Âncora  
Production Base

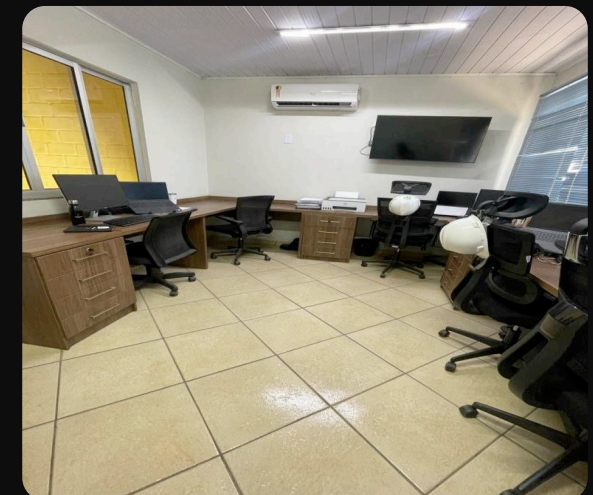
Mar do Norte  
Operational Base



# Administrative and Operational Support Base

## MAR DO NORTE

A vital center for the management and logistical support of operations. It is located in a strategic region that facilitates access to all of the company's projects.





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# Administrative and Operational Support Base

## MAR DO NORTE

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# Production and Manufacturing Base

## ÂNCORA

Dedicated facilities for production and manufacturing, ensuring quality and customization of equipment. Features modern equipment and a highly qualified technical team.





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# Production and Manufacturing Base

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# Administrative Headquarters Future Operational Facilities

## MAR DO NORTE - FUTURE FACILITIES

Planned expansion to further optimize administrative and operational capacity. It will incorporate cutting-edge technologies and sustainable management practices.



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## MAR DO NORTE - FUTURE FACILITIES

Planned expansion to further optimize administrative and operational capacity. It will incorporate cutting-edge technologies and sustainable management practices.



# Software and Applications

**Petrohouse** uses a suite of cutting-edge software and applications to optimize its internal processes, from project management to communication and financial control, ensuring efficiency and information security.

## Office 365 Suite

Productivity suite for communication and collaboration.

## AutoCAD

An essential tool for engineering and technical design projects.

## Totvs – ERP Protheus

Enterprise management system for integrated process control.

## Sharepoint

Platform for secure document management and sharing.

## Flash Benefits

Solution for managing corporate benefits.

## Monday

Project management and workflow tool.

# Custom-made railing for Saipem



**Petrohouse** manufactured a custom-made metal guardrail for SAIPEM, ensuring quality, safety, and technical compliance with the client's required standards.

**Tasks performed:**

- Dimensional survey in the field.
- Preparation of technical design and drawing approval.
- Cutting and bending of metal sheets.
- Welding according to structural safety standards.
- Surface treatment and anti-corrosion painting.
- Assembly; Final quality treatment and inspection.
- Delivery and technical release for installation.

Saiba mais

# Custom-made railing for Saipem



## Results Achieved:

- Strengthening of the **Petrohouse**–SAIPEM partnership in metal fabrication services.
- Fabrication completed on time and in accordance with SAIPEM specifications.
- Product with a highly durable and corrosion-resistant finish.
- Total customer satisfaction regarding quality and speed of delivery.

## Customer rating:



# R&D and Engineering

**Petrohouse** develops innovative solutions in Research, Development, and Engineering, focusing on the continuous improvement of processes and the application of technologies that increase efficiency and operational safety. Our projects are designed to reduce risks, optimize resources, and drive innovation throughout the oil and gas sector's production chain, adding sustainable value and strengthening the competitiveness of our clients.

## **Our difference:**

We combine advanced technical knowledge with practical experience to deliver solutions that maximize the value of our clients' assets, focusing on sustainability and operational safety.

### **Applied Research**

Development of customized technical solutions for complex challenges in the offshore sector.

### **Technological Innovations**

Implementation of disruptive technologies that increase operational efficiency and reduce costs.

### **Specialized Engineering**

Multidisciplinary team with expertise in highly complex projects for offshore environments.

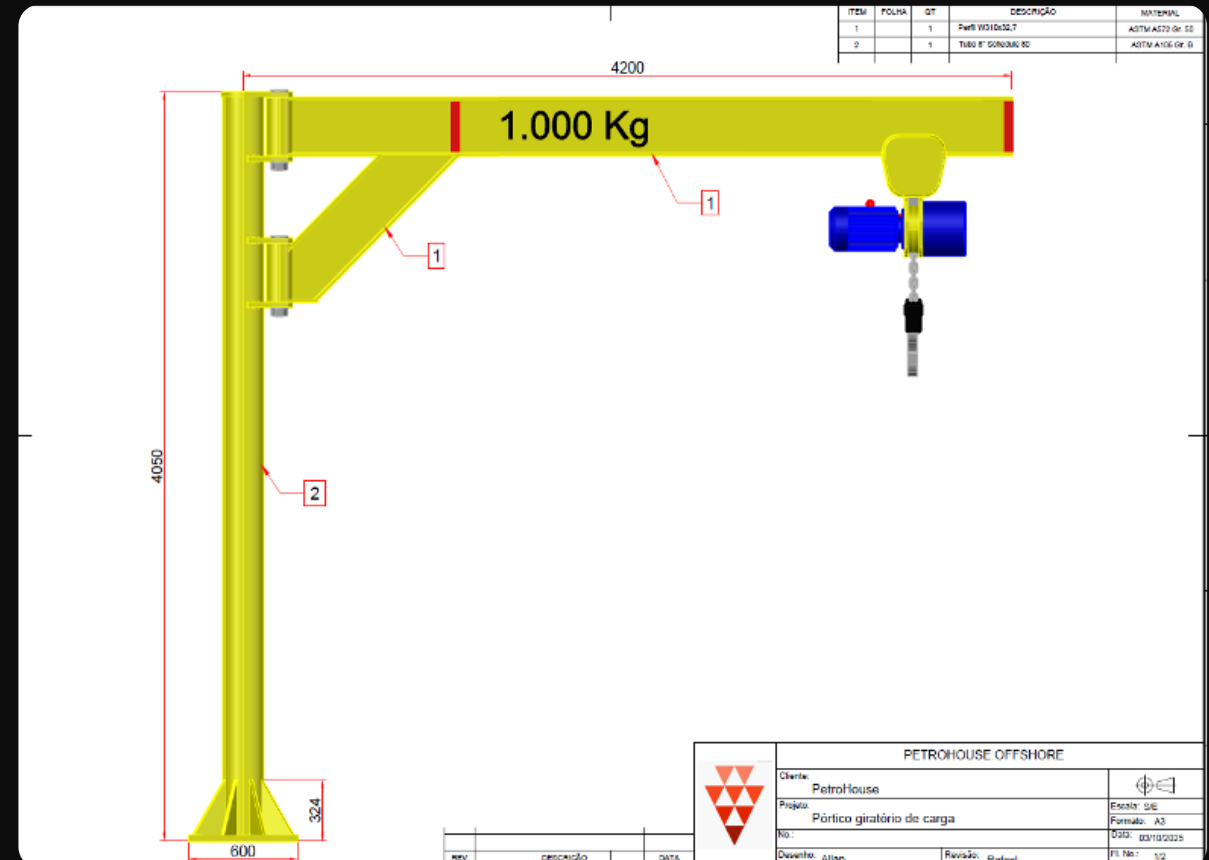
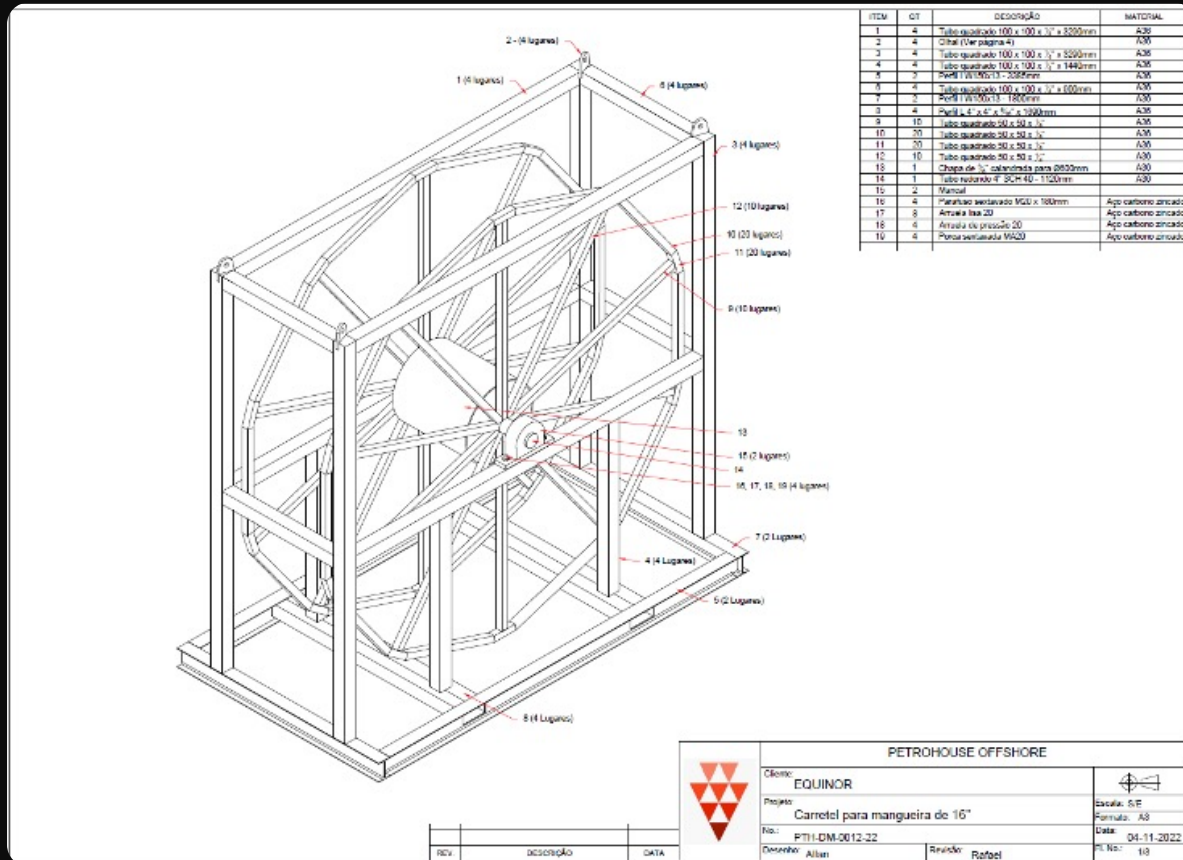
### **Process Optimization**

Analysis and implementation of continuous improvements in industrial processes for maximum efficiency.

# R&D and Engineering

Photographic and graphic records of engineering projects developed for specific clients.

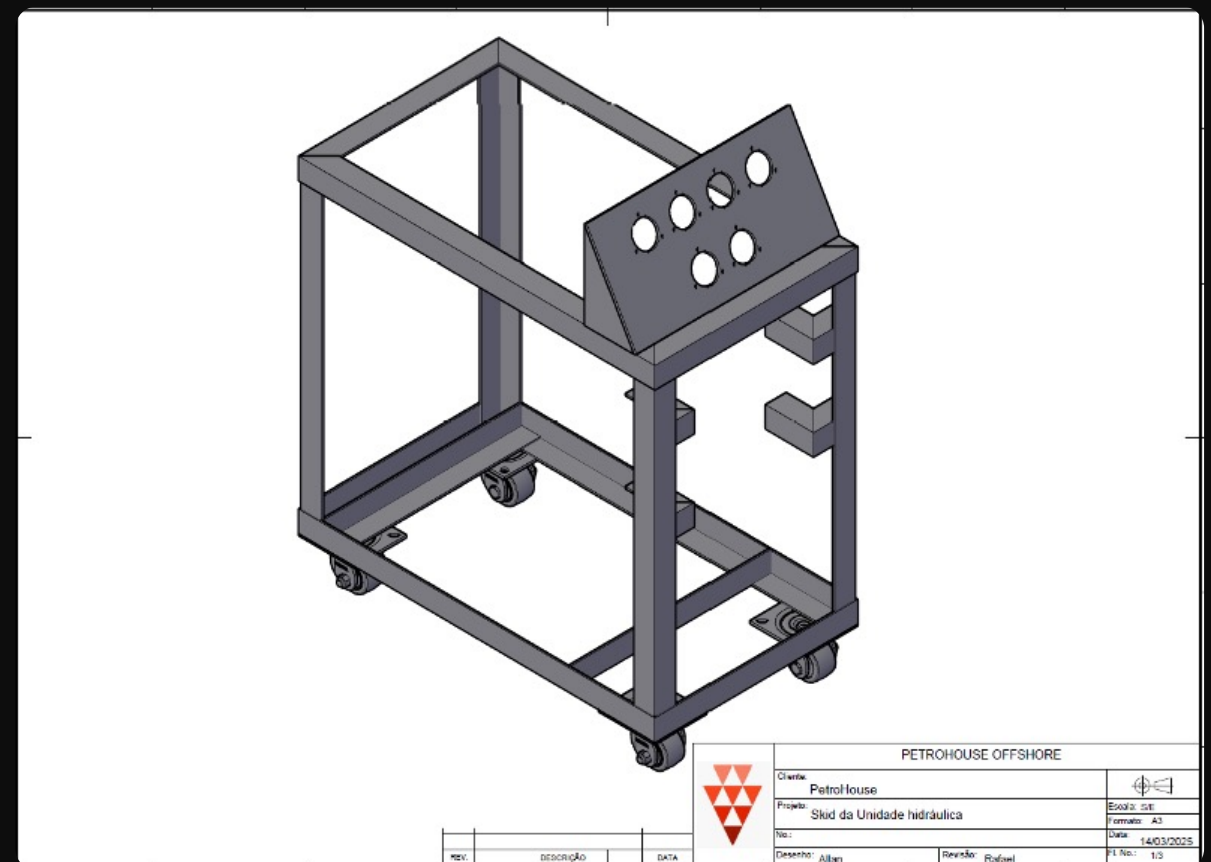
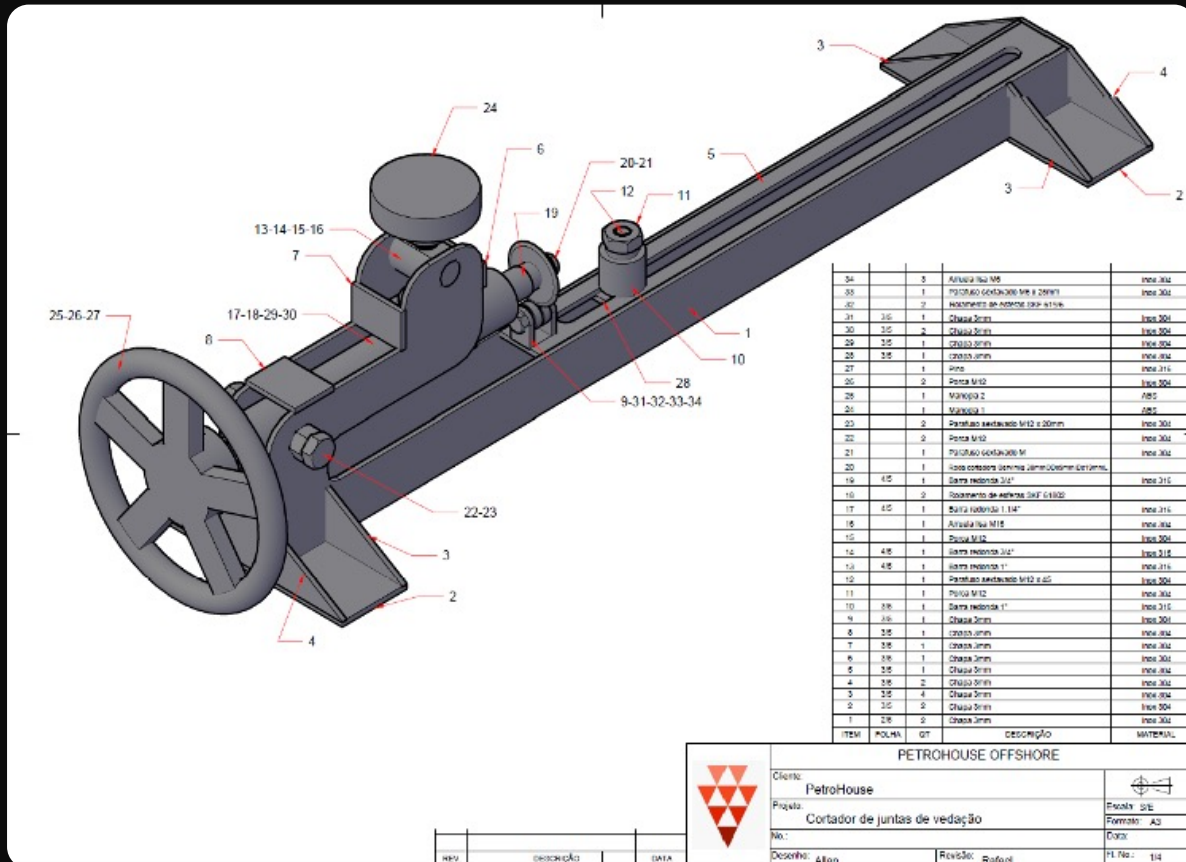
- 16" hose reel.
- Rotating cargo gantry.



# R&D and Engineering

Photographic and graphic records of engineering projects developed for specific clients.

- Gasket cutter.
- Hydraulic unit skid.



# R&D and Engineering

Photographic and graphic records of engineering projects developed for specific clients.

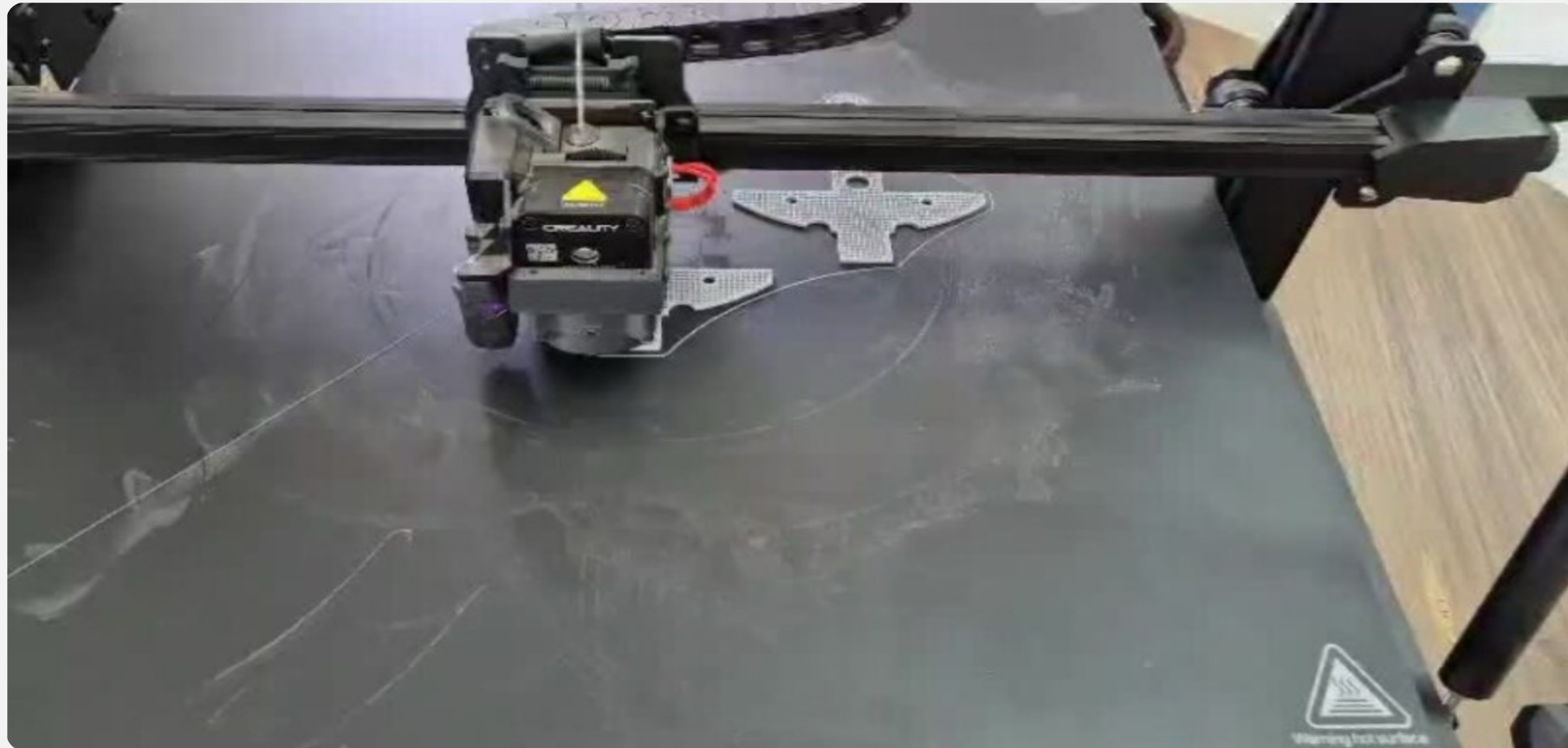
- Support for anchoring aircraft to the probe.



# R&D and Engineering

Photographic and graphic records of engineering projects developed for specific clients.

- 3D printing of scale models.





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Thank  
You

**Petrohouse** appreciates your attention and interest in our solutions. We are available to discuss how we can support your projects and challenges.

Call: +55 22 221 100 54

comercial@petro-house.com

Palmeiras Streets, 120  
Mar do Norte  
Rio das Ostras - RJ

