



Pyplok in Brazil



May | 2025



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What we do 

Areas of activity



Offshore Production

Chartering and Operation of own Floating Production Units (FPSO's), and Operation and Maintenance of Third-Party Production Units.



Subsea

Subsea construction and decommissioning services, including SURF, installation of subsea equipment, revitalization of the Gas Network and studies on the exploration of new frontiers such as Offshore Wind Energy.



Services and Technologies

Specialized Offshore Maintenance services on demand. We also have a HUB of integrated Digital and Technological Solutions.

Our Customers



Integrated planning of offshore maintenance and service activities

Planning and execution of production and drilling shutdowns

Solutions in repair, maintenance and modification projects
(welding, assembly, piping and electrical/instrumentation)

Industrial Painting and High Performance Painting Solutions

Specialized services of Access Engineering and rope access

Structural manufacturing solutions and customized pipes

Basic and detailed engineering designs

Special inspection services
(inspection of falls, hoisting equipment, tower, DHT, BHA and ME)

Commissioning services

Calibration services



MAIN ACTIVITIES


MAINTENANCE AND SERVICES OFFSHORE

Specialized maintenance on demand and service with technical capacity to guarantee security and financial sustainability.


New technologies



What we do 

 **Total Area**
70.000m²

 **Parking**
3.000m²

 **Base of Operations I**
It also includes the Offices
30.000m²

 **Base of Operations II**
Logistic Support Base
37.000m²

Base of Operations

(Offshore Maintenance and Services)

Ocyan has an Operations Base in Macaé (RJ).



What we do



Services and Technologies

Digital Business and Technology

NEC.IO



We **connect** business and industry **pains** to **partner technologies**, customizing the offer and **orchestrating its implementation**, guaranteeing customer success.

1

We **team up** with innovative companies to **co-develop and commercialize** digital and technological solutions capable of **transforming** industry by solving its **main challenges**.

2

We build **integrated offers** from our performance suites and carry out a strategic go-to-market to commercialize them, **architecting solutions** for the specific reality of each client, through a **specialist team**.

3

With our technical team, we support the **implementation of solutions** at clients, providing support and actively working on **customer success** to ensure the delivery of **value and business transformation**.

**nEX.IO**

Asset Performance
Management

Operational
Intelligence

Energy Efficiency





We operate in
different roles, with
specific **value**
propositions for
each reality, from
end to end.

WE ARE

INNOVATION HUB



We prospect and co-develop solutions with partners to transform the challenges of the O&G and Energy industry, being a point of convergence for innovation in this industry.

COMMERCIAL ACCELERATORS



We commercialize this innovation portfolio in the market, customizing one or more solutions together, to solve each challenge and reality of each client.

GUARANTORS OF VALUE



We implemented the solution and ensured customer success, focusing on digital transformation and generating results for the customer.

Our portfolio is divided into 3 strategic suites delivering solutions that guarantee essential results for the transformation of the industry.

Asset Performance Management

Value Propositions

- Maximize Asset Life
- Reduce Operation Downtime
- Increase Operational Reliability
- Reduce Operational Costs

Solutions

- DIGITAL TWIN – INTEGRITY MANAGEMENT
- PYPLOK - WELDLESS CONNECTIONS
- TIGHT-PIPE: PERMANENT WELDED REPAIRS (ASME-PCC-2)
- ASSET MANAGEMENT – DIGITAL REPORTS AND WORKFLOWS
- QUALITY MANAGEMENT SYSTEM (FLANGE MANAGEMENT)



Operational Intelligence

Value Propositions

- Cost Reduction
- Minimize Risks and Impacts to the Operation
- Quality and Agility in Decision Making
- Maximize Efficiency and Productivity

Solutions

- HUMAN FACTORS MANAGEMENT 
- IOTs & EQUIPMENT FAILURE PREDICTION 
- DYNAMIC RISK ADVISOR 
- SAFETY VALVE MONITORING 
- INTELLIGENT ASSET MONITORING (IVA) 

Energy Efficiency

Solutions

H2R – REDUCING DIESEL CONSUMPTION AND GHG EMISSIONS USING HYDROGEN



Propostas de Valor

- Energy Cost Reduction
- Carbon Footprint Reduction
- Less Waste
- Environmental Regulatory Compliance

Partnership with Tube-Mac

Pyplok®



Starting date:
February 2019



Kind of Partnership:
**Sales
representation**



Target Market:
Oil and Gas

Offshore Clients



Potential/Target Clients



Main player in Brazil




23 FPSOs in Operation

10 New by 2029



53 Fixed Units

 PETROBRAS	ESPECIFICAÇÃO TÉCNICA ÁREA: - TÍTULO: REQUISITOS TÉCNICOS PARA UNIÃO MECÂNICA DE TUBULAÇÕES	Nº: ET-3010.00-1200-240-P4X-001 REV: 0 FOLHA: 9 de 15 NP-1 ESUP
3.2 Conexões por Compressão - MAF (Mechanically Attached Fittings)		
As ligações de compressão são sistemas empregados para tubos de pequeno diâmetro de aço carbono, aço inoxidável, e metais não-ferrosos, principalmente para serviços de altas pressões e também para linhas de ar de instrumentação.		
A vedação destas ligações é obtida pela interferência metálica entre o tubo e uma luva, podendo a interferência ser conseguida por vários meios, mas sempre a frio.		
A norma ASTM F1387 (Standard Specification for Performance of Piping and Tubing Mechanically Attached Fittings) classifica as conexões por compressão em seis tipos, em função das características construtivas. Basicamente as conexões MAF são agrupadas em dois grandes grupos: Permanentes e Separáveis, a depender da condição final da união após o acoplamento. A Norma ASTM F1387 define as conexões permanentes como aquelas em que não é permitido a reutilização da conexão após a união, e separáveis aquelas em que é permitido a desmontagem e remontagem após união.		
Muitas das conexões MAF separáveis já são largamente utilizadas na Petrobras em sistemas de ar de instrumento e em sistemas de lubrificação de grandes máquinas rotativas. Por esse motivo serão abordadas neste documento as conexões MAF Permanentes com maior potencial de uso no setor de Óleo & Gás, a MAF tipo I e MAF tipo VI.		
3.2.1 Conexão por compressão - Tipo I		
São acoplamentos que utilizam a compressão a frio entre o tubo e a conexão como forma de união. Portanto, a vedação é conseguida através de três selos, metal-metal (por interferência metálica entre o tubo e a conexão), anel interno e anel externo de elastômero. O anel externo tem a função de prevenir contra corrosão por frestas e entrada de contaminantes na união. A Figura 5, a seguir, apresenta um exemplo da conexão mecânica MAF Tipo I.		
		
Figura 5 – Exemplo de conexão por compressão Tipo I.		



CASES in **BRAZIL**

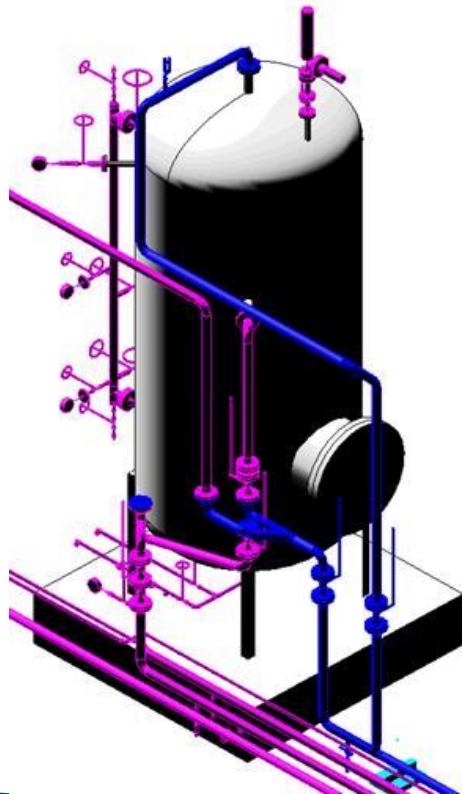
Petrobras Pilot Projects



Cacimbas Gas Plant

2014

Compressed Air



Carbon Steel 2" Sch. 40

3 flanges 150#

3 Elbows 90

1 Tee

Assemble time: **1 h 27 m**



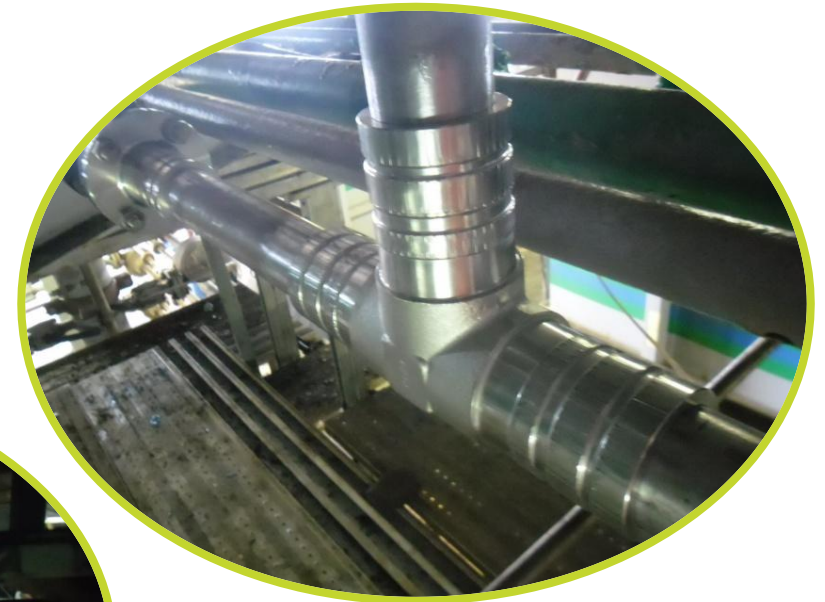
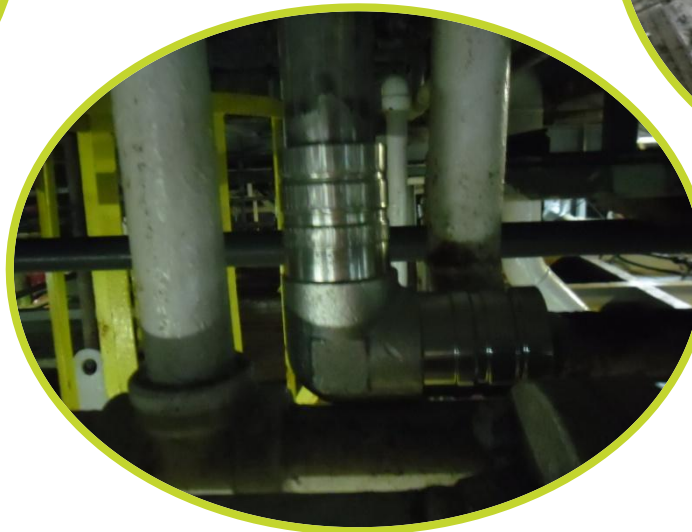
Petrobras Pilot Projects



Offshore Pilot Cherne 1 (PCH-1)

2014

Carbon Steel 2"
Compressed Air



Petrobras Hydraulic Pipe Repair



3R-2
Former Petrobras **P-61**



Petrobras' First Commercial Project



PETROBRAS



P-58

2025

Carbon Steel and Stainless Steel Couplings

Main Drain, Potable Water, Accommodation Module water lines, Guardrail.



In House Projects



FPSO Cidade de Itajaí 2024

CS and SS 1-1/2" and 2"

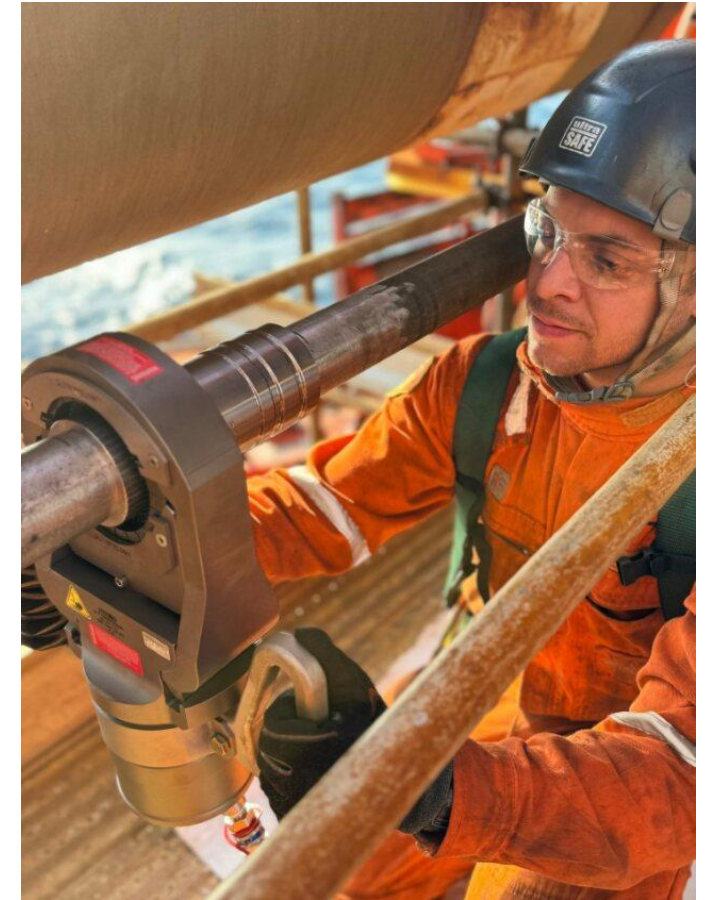
BS – Bilge System

DOH – Open Drain Hzd

TH – Thermal Oil

WCS – Water Cooling Suply

GLY – Glycol



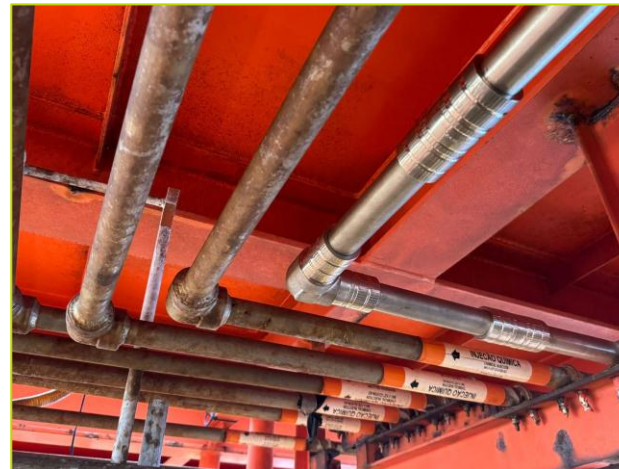
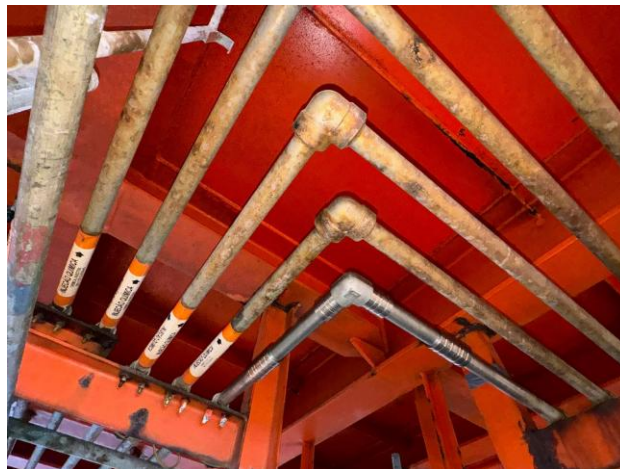
In House Projects

FPSO Cidade de Itajaí 2024



SS - 1 ½"

CI – Chemical Injection



In House Projects



FPSO Pioneiro de Libra 2024 - 2025



+ 100 fittings

CS , SS and CuNi 1" – 3"

Couplings, Elbows, Tees, ANSI Flanges

Cases

Newo

Coil Tubing

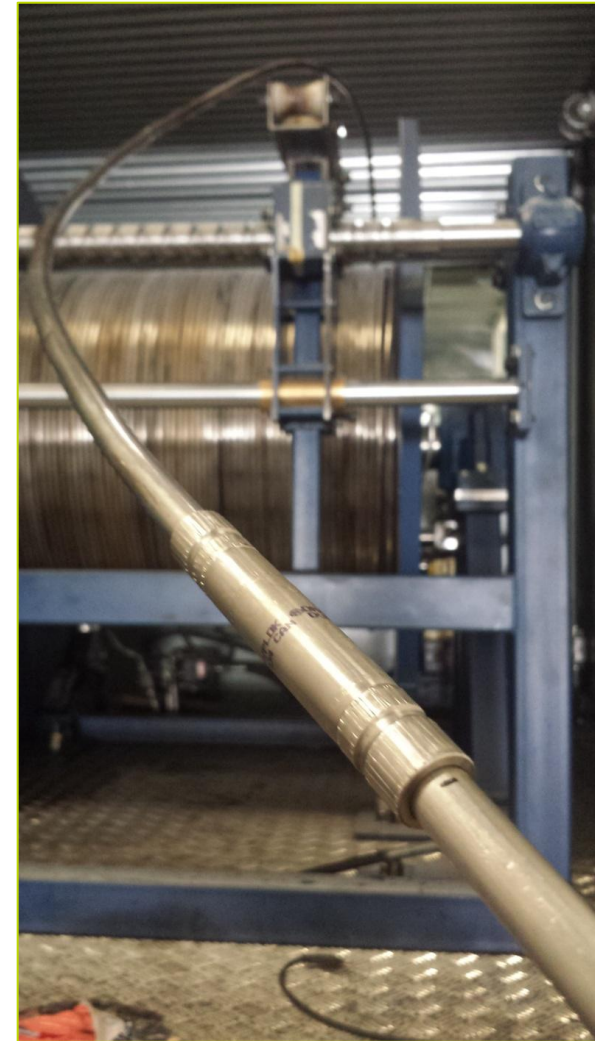
Duplex Long Pyplok ½" OD

Work pressure: **6.000 psi**

Fluid: **Water 5% KCl**



Alternative to Swagelok



Cases

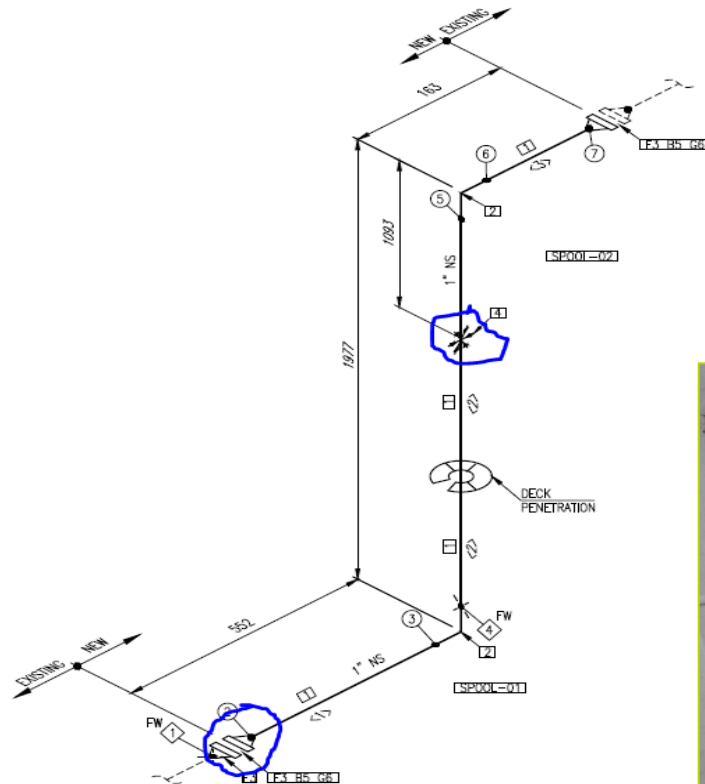


FPSO Cidade de Ilha Bela 2021

Super Duplex 1"

Pump Room

Vessel Drain Tank



Cases

FPSO Cidade de Angra dos Reis (MV-22)



2020



CS Couplings $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", 2"

**Compressed Air
Fresh Water
Nitrogen**

Cases

FPSO Cidade de Santos (MV-20)



2020



90 CS Pyploks 1" and 2"

**Closed Drain
Nitrogen
Process Water
Utility Air
Fresh Water**

Cases

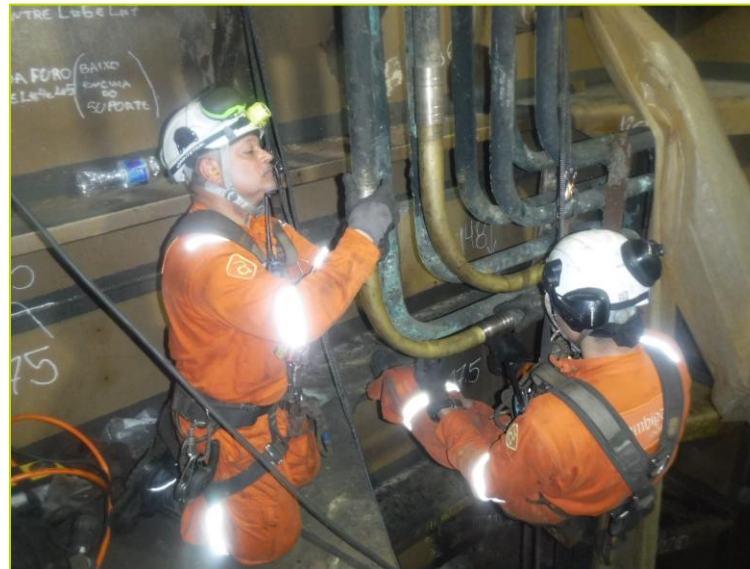


ambipar®
Líder global em soluções ambientais.

MV-20, MV-26 & MV-27 2024-2025

Cu Ni 57 mm

Slop Tanks



Cases



FPSO Peregrino 2024

Super Duplex 1" and ½"



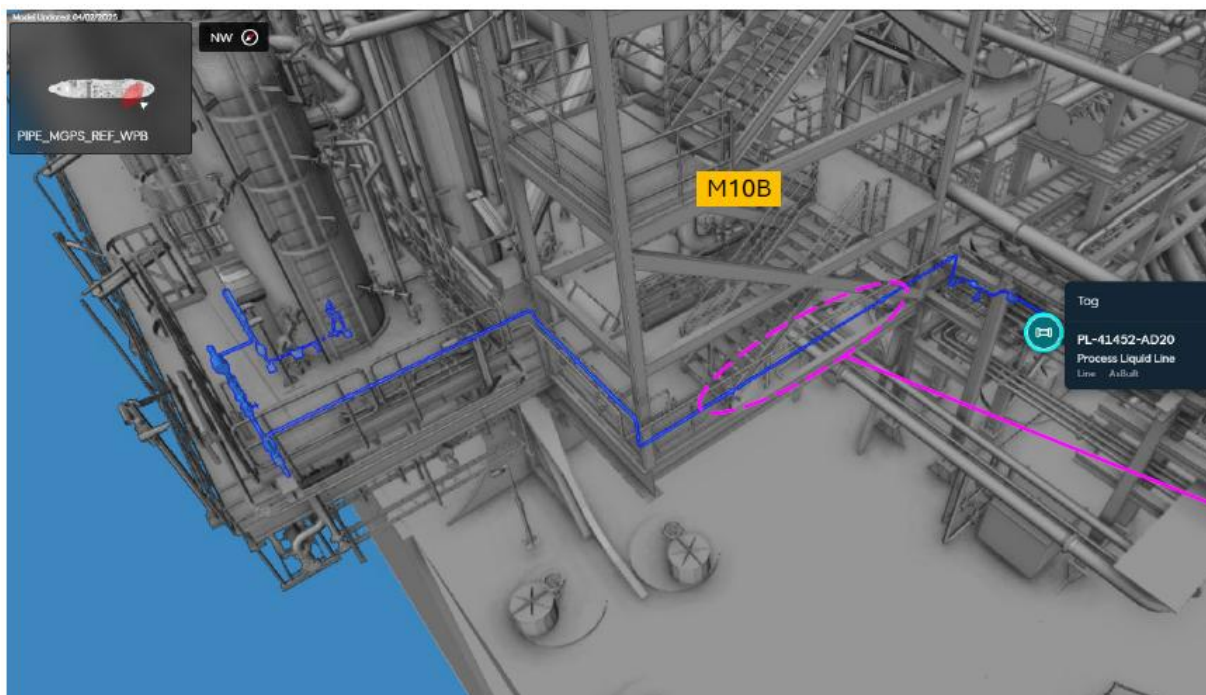
Future Installations



FPSO Peregrino

2" Super Duplex Aflas 80 O-Ring

Process Liquid Line



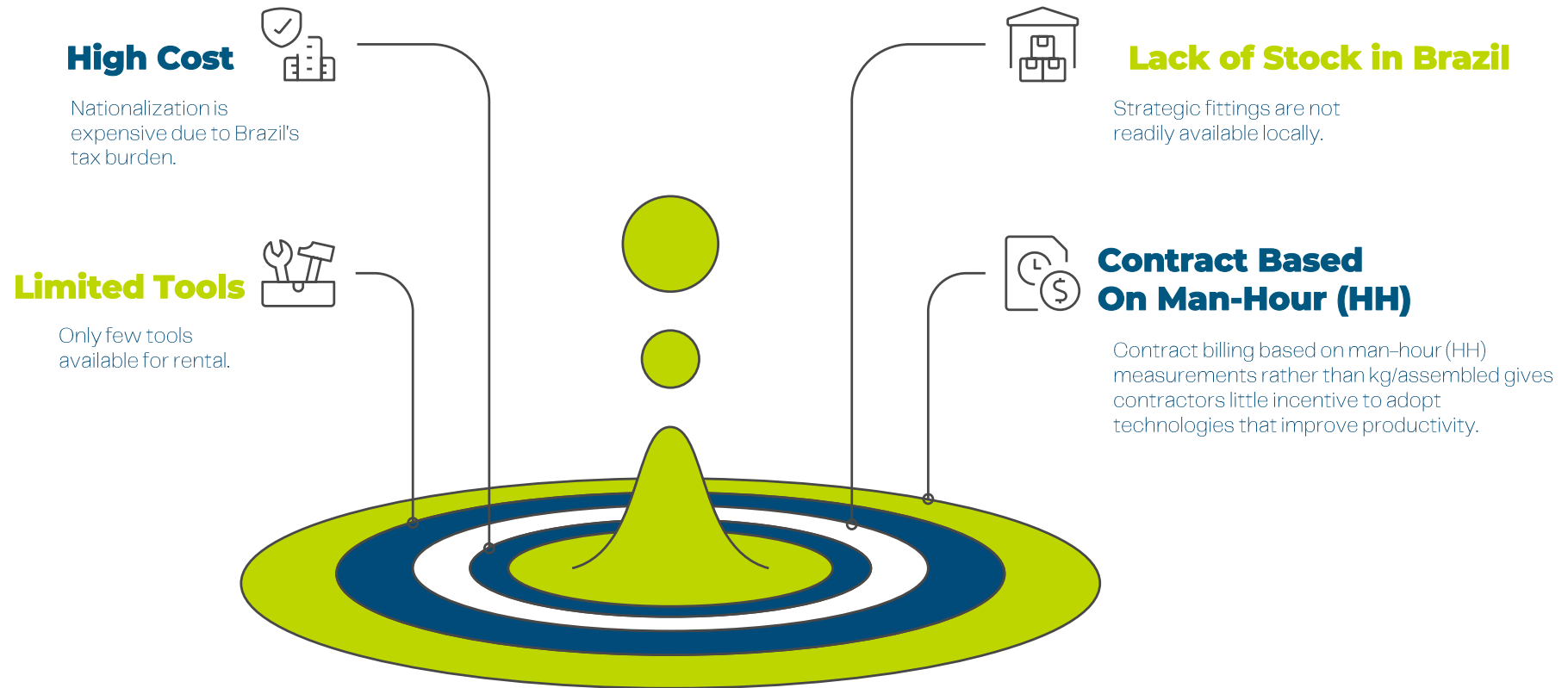
Linha 2"-PL-41452-AD20 localizada no M10B

Future Installations



26 CS Pyploks 1/2" - 1-1/2 "

Challenges



Thank You



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