

**TECNOLOGÍAS RELACIONADAS CON ENERGÍA Y
SERVICIOS ESPECIALIZADOS, S.A. de C.V.**



COMPANY BROCHURE





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Our Company:

We are dedicated to find solutions around the world, that Mexico needs to exploit it's power resources.

Our staff has extensive technical experience to solve any needs in the energy sector, highlighting our efficient team of engineers, who have proven capacity for transcending pioneering projects internationally.

In TRESE we know the challenges of an increasingly globalized and competitive world. We know our strengths and therefore, we know that our efforts can contribute to the profound social and economic transformations that drive the federal government and that our country needs to become reality.

Because we are committed to Mexico, we provide to the national energy sector, our knowledge, creativity and experience, finding through technology, efficient and viable solutions, in line with the current legal standard in our country.

We respond effectively to your problems and needs through our Integrated Solutions Department (ISD) in charge of the search and strategic alliances with governments and leading international companies.

"Because we are a proudly Mexican company that knows the international environment, we know that our country is ready for the future. And we want to be part of that future."



Products and Services:

- ✓ Gas System Rehabilitation.
- ✓ Laser Scanning and Thermovision for Pipelines.
- ✓ Urban Air Purifier (PAU-20).
- ✓ Mantis Platform.
- ✓ Accommodation services offshore (floatels).
- ✓ Information Survey, Geographic Positioning and Monitoring of Pipelines.
- ✓ Self-Elevating Drilling Platforms.
- ✓ Distributions and commercial representations.
- ✓ Compression Gas Platform.



Pipeline Rehabilitation System:

New technology for underground construction and repair without pipeline removal.

One of the companies technical policies of operating pipeline today are geared to preserve for a long time the pipelines operation and secure to preserve the environment in which they find themselves.

Our system of pipeline maintenance, overhaul ensures in record time.

The military research center in Novosibirsk, (Russia) invented the technology with which it is not necessary to lift the ducts or stop the process of repairing them.

Conventional technology raises ducts through excavators and bulldozer which is inefficient, costly and causes damage to pipelines to be lifted from the ground. Our technology allows a remedy "in situ" without lifting your trench duct which prevents corrosion of the same to the starting position.

The biggest advantage of this technology is the simultaneous movement of all machines involved in the repair process (including cleaning and coating) along the pipeline, which is kept with minimal elongation and safer.

The repair train speed is up to 100 meters per minute, which translates to 5-6 times faster than conventional technology.

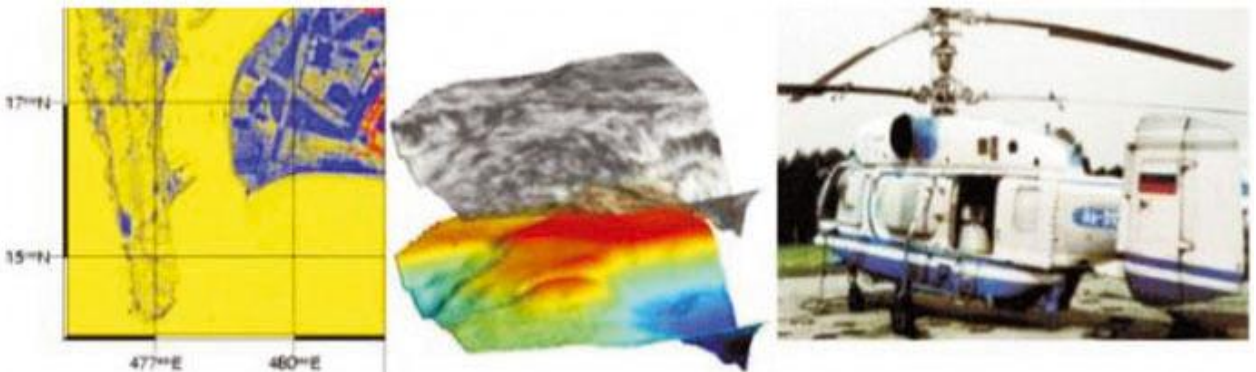


Laser Scanning and Thermovision:

Laser scanning technologies and dynamic thermovision were developed by the Soviet military system which has been refined to the present where is already used for industrial purposes.

Trese represents exclusively the company that has managed to integrate both technologies for detection purposes, georeferencing, analysis and pipelines monitoring, electrical wiring, roads, dams and underground hydrography and industrial, rustic and urban surfaces.

Our technology is patented and is unique in the world, so we can ensure that we have no competition because we have most developed system of thermal variation detection and the most efficient method to obtain information to distance on underground objects and/or surface.





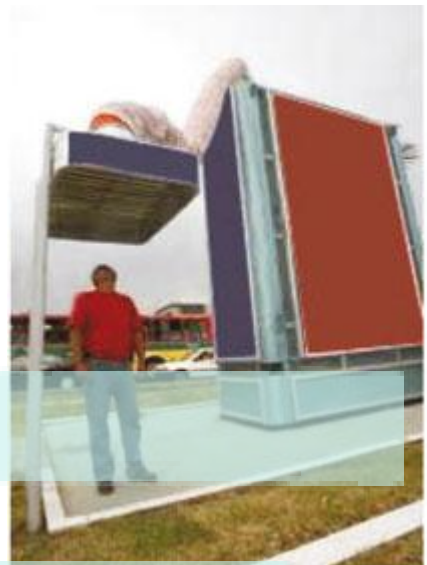
Urban Air Purifier (PAU-20):

This advanced technology, which by its quality, efficiency and environmental care, won the ROLEX Price Awards for Enterprises, is developed in Peru by environmental engineers of NUESTRA TIERRA.

This new technology is a practical and economical solution to lower the high levels of pollution in cities and industrial areas.

Its main function is to collect polluted air and release it from pollution: The PAU-20, achieves to purify the air by absorbing carbon dioxide (CO₂) and releasing oxygen similar to the work of 1,200 trees and filters dust and microorganisms by about 200 thousand cubic meters of air.

Put in another way, the PAU-20 brings fresh air to 20 000 people per day.





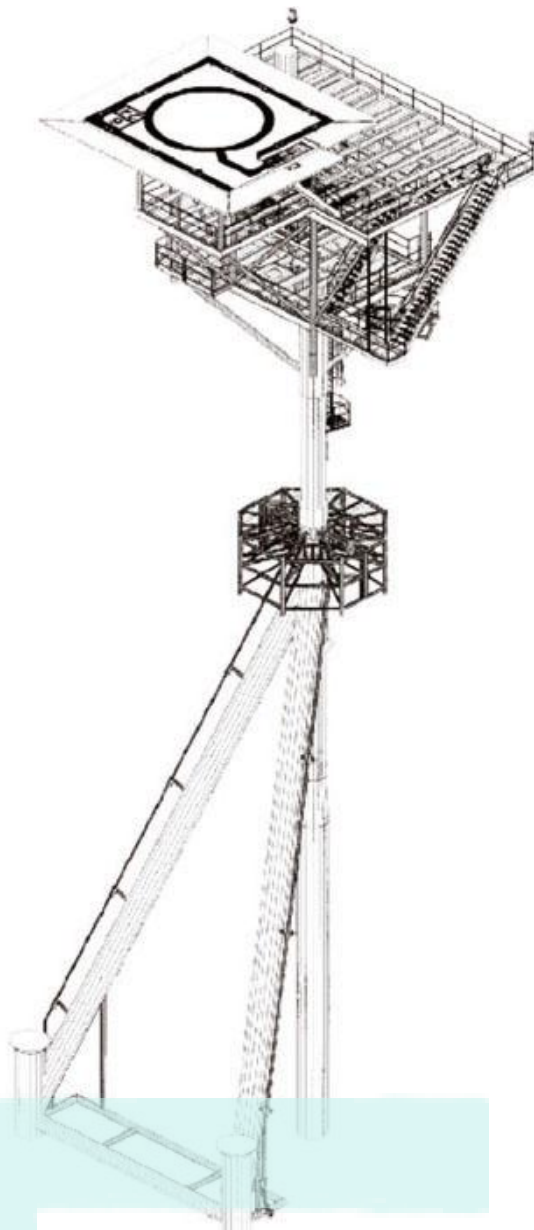
Platform Mantis:

In the field of design, manufacture and installation of oil rigs, Trese joined Dii to offer exclusive cutting edge offshore technologies.

Ideal and economic design for shallow, semi-deep and deep waters. Its innovative design provides ability to cover larger loads and has great resistance to movement than standard tripod designs.

Provides capability to use a complete drilling rig class API 2000 hp, and has the space required for production equipment and facilities, supports above 300 ton weight of drilling process equipment, production and/or any security system, telecommunication, monitoring, etc.

It is a patented technology, the design is its comparative advantage, as well as being certified by DNV*, has the feature of being able to vary according to the water depth and operational requirements. Hence the name.





Accommodation Services:

Supply through various FLOATEL vessels feeding services and quality accommodation for offshore personnel who are working in different Pemex Exploration and Production marine facilities. For this purpose our boats are equipped with the following infrastructure:

- Heliport.
- Main and sub - Crane.
- Dressers.
- Dining room for more than 100 people.
- Kitchen with cooling chambers and warehouses.
- Entertainment Room.
- Gym.
- Offices Area.





Information Survey, Geographic Positioning and Pipelines Monitoring:

Through our subsidiary ASIN (International Integral Consulting) perform the collection of information, geographic positioning and ducts monitoring with laser scanner technology and thermovision for easements at Nuevo Teapa - Salina Cruz and Minatitlan - Salina Cruz in order to detect thermal anomalies and leaks.





Gas Compression JackUp:

This strategic contract was recently awarded to our company for the “Integral service for bitter gas compression with capacity of 200 MMCFD, installed on a jack-up rig, to interface to marine facilities of Cantarell production assets” .



- **Gas Compression PEMEX Contract No. 422213801.**

“Integral service for bitter gas compression with capacity of 200 MMCFD, installed on a jack-up rig, to interface to marine facilities of Cantarell production assets “.



Armada Firman III DP2 Boat:

- Associated with the shipping company BUMI ARMADA the Armada Firman III DP2 boat has provided the accommodation and food service for 200 PEMEX workers in the Campeche Sound.



- **ARMADA PEMEX Contract No. 42822879:**

"Food service and accommodation with a housing support vessel".



- **ARMADA PEMEX Contract No. 42822826:**

“Food service and accommodation with a Floating housing support vessel unit package 3”.

- **ARMADA PEMEX Contract No. 42822834:**

"Food service and accommodation with a support floating housing unit package A."



GSP Atlas JackUp Rig:

- Associated with the company GSP (Romania) performed the drilling and exploration in shallow waters through GSP Atlas platform.



- **ATLAS Rig PEMEX Contract No. 421001809 :**

"Lease with no option to purchase drilling jack up rig, independent leg, cantilever type , with nominal maritime capability to operate in water depth of 300' (three hundred feet) called "GSP Atlas" with minimal drilling of capacity 25,000' (Twenty five thousand feet) deep including comprehensive maintenance to operate in Mexican waters of the Gulf of Mexico".



GSP Orizont Jackup Rig:

- Associated with the company GSP (Romania) performed the drilling and exploration in shallow waters through GSP Orizont jack up rig.



- **ORIZONT Rig PEMEX Contract No. 421001807:**
"Lease with no option to purchase the Jack up drilling platform, cantilever type, independent leg with nominal maritime capability to operate in water depth of 300' (three hundred feet) called "GSP ORIZONT" with minimal drilling capacity of 25,000 ' (Twenty five thousand feet) deep including comprehensive maintenance to operate in Mexican waters of the Gulf of Mexico."



Etesco - Millennium semisubmersible platform:

- We obtained the contract for accommodation and Food services for PEMEX workers through Etesco -Millennium housing platform, with a capacity of 500 beds.



- **ETESCO Semisubmersible PEMEX Contract No. 428222897:**

"Food service and accommodation with support of a floating housing unit, in order to provide the right conditions for food, rest and comfort to the oil workers who work aboard offshore installations".



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