

TOGETHER
WE BUILD
THE FUTURE

Who We are

ADOPTION ASSESSMENT 90 **UNI EN ISO/ IEC 17025 ETHICS CODE 231 OVER 25 YEARS EMPLOYEES** on the market Start



UNI EN ISO





UNI EN ISO

9001:2015





UNI EN ISO

14001:2015





45001:2018



Opus at glance









INDUSTRIAL AUTOMATION

Design – Production Commissioning of industrial automation systems

TESTING

Test benches for industry and defence System integration

TURBOMACHINERY

Remote diagonostics Predictive diagnostics Industry 4.0

ENVIRONMENT

Design - Construction Maintenance - Continuous systems of emission monitoring



Upstream



Hydrotest (HTB-01H)

The Hydro Test Bench is designed to test one by one BIT with test pressures up to 300 bar (4351,13 psi), in order to verify the leakage proof of the test BITs. It is possible to obtain higher pressures on request. Easy and fast replacement of ternale BIT interface in order to change the product under test.

The pressure generation system allows to get any type of ramp: it can be managed directly by the operator and it reaches a greater performance then traditional system, both for accuracy and repeatability of the test.



The nitrogen Test bench NTP2 is designed to test one by one BIT internal valves with test pressures up to 20 bars (290 psi), in order to verify the holding pressure and relief pressure of the internal valves.

The system is able to test up to three valves for every BIT. The bench is equipped with bar code scanner and it is interfaced with factory production data base due to retrieve information about type of BIT under test and it select the associated recipe.

At the end of the test if one or more valves are fail the bench show a valves status layout.

When the Bit is tested again, the system indicate to perform testing only failed valves on the previous test.

Greasing Machine (GM-02H)

For the need of the drilling industry, the "Greasing Machine" was born.

Optimal lubrication of bits is a strategic feature for their safe operation, our machine makes this reliable operation through a semi-automatic system that allows the complete filling of the channels and lubricant tanks and the verification of successful success of the operation.

The distribution system is modular to allow greasing complete of two chisels at the same time with only one pumping unit.

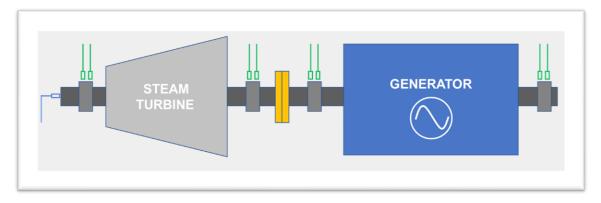








Downstream



- Gas turbines
- Steam Turbines
- Axial and centrifugal compressors
- Turbo-Compressors e Turbo-Generators

DATA TO BE ACQUIRED

- Steam conditions (pressure and temperature) at the different turbine section (inlet, extraction, exhaust,..)
- Plant steam flow rate measurements
- Machine control valve positions
- Generated electrical power
- Vibration sensor data
- Data from machine auxiliary systems
- Data from other plant components (e.g., boiler, condenser, etc.)

✓ Envinronment

CEMs (Continuous Emissions Monitoring)

Opus automazione designs and implements the entire CEMS system, thanks to the support of the internal design team.

In addition to the preliminary phase, it also provides for the construction and commissioning of the system.

Fully modular, starting from an established manufacturing standard.

Adaptable to plant requirements (safe zones, ATEX zones, etc.)

Accompanied by certifications and meeting safety standards.

In mercury and hydrogen sulfide abatement plants (AMIS) we provide continuous measurements for Hg and H2S.



Air Quality

opus designs, manufactures and maintains air quality analysis booths.

Systems consisting of:

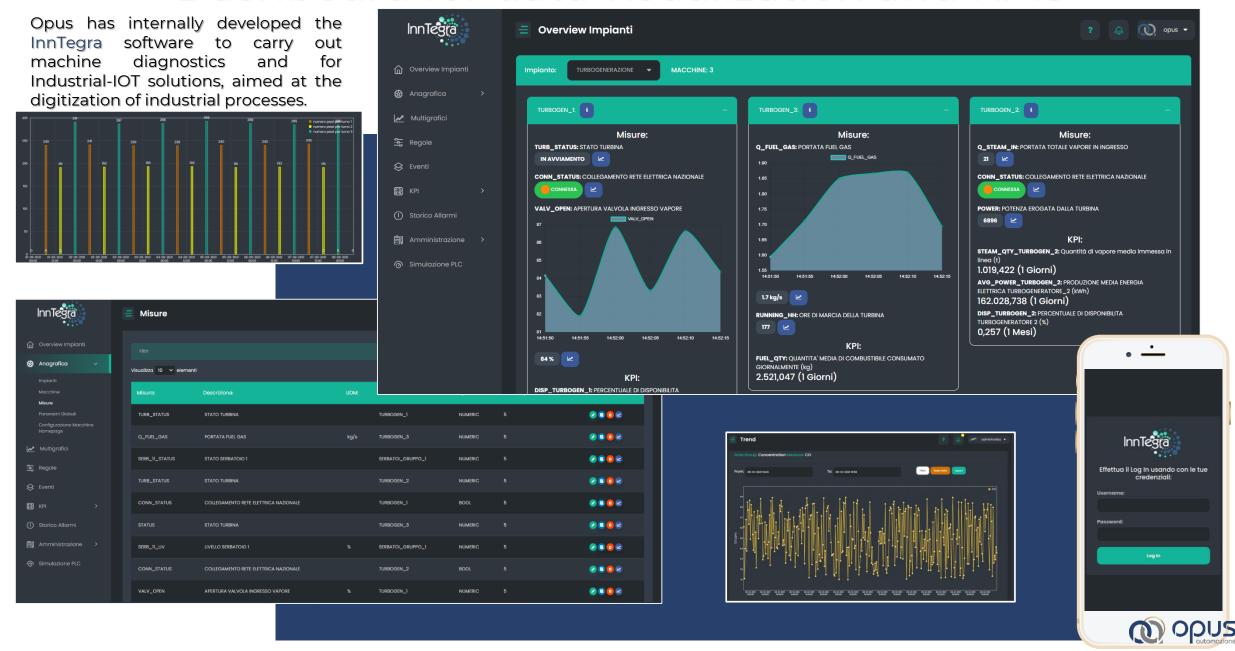
- o dedicated analyzers with ppb measurements
- o dedicated acquisition system
- o monitoring of weather parameters
- o data remoting







Dashboard for data visualization and KPIs



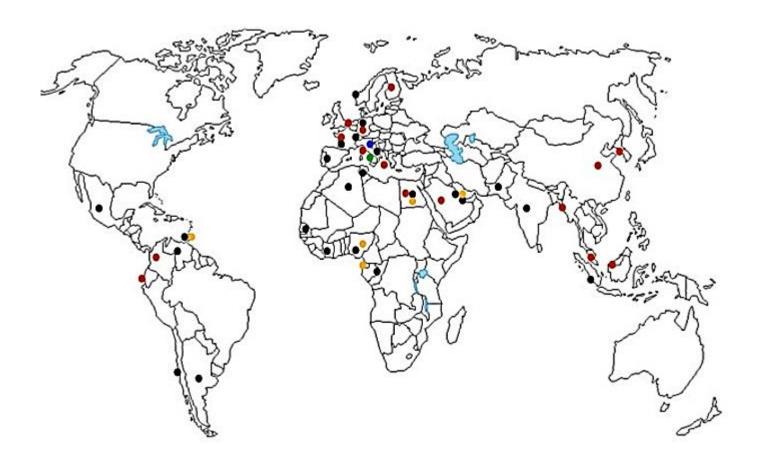
WorldWide

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- **ENVIRONMENT**
- FIELD TESTING
- INDUSTRIAL AUTOMATION DEFENSE & AUTOMOTIVE
 - NON-DESTRUCTIVE **TESTING**