INERCO Acústica is the INERCO GROUP company specialized in engineering, developing technology, manufacturing and implementation of solutions for noise and vibration control.

INERCO Acústica has a team of professionals with about 25 years of experience.
Acoustical solutions

- Engineering and design
- Technology
- Manufacturing
- Acoustic Laboratory
INERCO Acústica has extensive experience and wide technical capabilities in the measurement and control of noise from industrial sources.
Profound knowledge of the industrial reality

**Hydrocarbons**

- Repsol
- ExxonMobil
- PDVSA
- Edol Petrol
- ConocoPhillips
- Cepsa
- BP
- Atotina
- Petrolífera Petroquímica S.A.
- Sonatrach
- Baker Hughes
- ANH Colombia
- Asociación Colombiana del Petróleo
- Manguerín Energy Colombia Ltd
- Tirona
- Petronor
- PetroSantander (Colombia) Inc.
- CLH
- Decal
- De Cal España
- Bhp Billiton Resourcing the Future

**Chemical and Petrochemical**

- Brinsa
- Derivados Del Fluor
- Petresa
- Biofilm
- Biolirw
- BASF
- Dow
- Fertiberia
- Ercros
- Interquisa
- Ence
- Oiltanking
- Rhodia
- Erkol
- Mexichem
- Ube
- Huntsman Tioxide
- Brenntag
- Propilco
- Foret
- Carboquímica
- Solvay
- Ertisa
- Voridian
- Fertil
Profound knowledge of the industrial reality

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**Electricity and Gas**

- gasNatural
- EDF
- Endesa
- Iberdrola
- Promigas
- Alstom
- E.ON
- Enagas
- Linde Gas
- AGA
- Colbún
- Praxair
- Viesgo
- EnergieKontor
- Saggas
- Linde
- Pegasa
- Reganosa
- BBG

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**Concrete, Iron and Steel**

- Aceralia
- Lafarge
- Xstrata
- Zinsa
- Malpesa
- Cemex
- Asturiana de Zinc
- Cemex Portugal
- Atlantic Coffer
- Ibercromix
- UNESID
- EADS
- IVA
- Siderúrgica Sevillana, S.A.
Profound knowledge of the industrial reality

Mining

Cerro Matoso

CLC

Perubasa

Glencore

bhp billiton

Boliden

Agri-food

DANONE

Azucarera Ebro

Evesa

Intervet

Aquas del Huesna

INTERMONTIE, S.A.

COOSUR

Emasesa

Camacho

San Lorenzo
Profound knowledge of the industrial reality

Aerospace, Automotive, Others
Conocimiento profundo de la realidad industrial

Engineering - Infrastructures
Integral management of Industrial noise

• **DIAGNOSE**: the situation

• **ADVISE**: in solving vibration and acoustic problems

• **DESIGN**: solutions

• **EXECUTE**: projects

• **CERTIFY**: quantitative limits

• **MANUFACTURE**: products, equipement y systems

• **DISTRIBUTE**: specific materials

• **IMPLEMENT**: solutions

• **MANAGE**: ambient noise (MER, PA)
Skills and capacitations

- Own factory
- Impulse to R & D:
  - Own software and development
  - Laboratory and test chambers
- Wide range of products and technologies:
  - Noise barriers and enclosures: equipment, machinery, processes
  - Acoustic cabins, doors, and viewers, silencers...
  - Silencers: vent, blowdown, valves, compressors, turbines, exhaust, etc.
  - Soundproofing, absorbent systems...
- Certificate ISO 9001 –ISO 17025 Accredited by ENAC
Firm commitment to R & D

Own developed software

Test chambers
Own manufacture

Aerópolis manufacturing plant
Services

• **Acoustic studies**, environmental and acoustic justifications (EIA´s, AAI´s, administrative licenses)

• **Acoustic simulations**. Environmental noise prevention (design phase)

• **Acoustic measurements and maps**. Verifications at lunched phase

• Design and creation of **strategic noise maps and action plans**, according with END (Environmental Noise Directive 49/CE72002)
Services

- **Design of corrective strategies** (industrial and infrastructure). Design, implementation and installation.

- **Inspection as administration collaborating organization**, declaration of conformity with administrative authorization.
Occupational Health and Safety

- **Noise maps** inside industrial plants
- Noise and vibration exposure levels of workers (R.D. 286/06 and R.D. 1311/05). **Risk assessment** (INERCO Prevención de Riesgos)
- Evaluation of **noise emission in machinery and equipment** (R.D. 1644/08, R.D. 1215/97, R.D. 1644/08 and R.D 286/06).
- Identification, quantification y qualification of noise sources. Studies of **corrective actions. Design, implementation and installation**
- Selection of **Personal Protective Equipment**
- Verification **PA systems and audio alarms**
Design / Implementation of Acoustic Solutions

The approach that INERCO Acústica confronts acoustic problems allow us to offer EPC solutions, covering the following:

• Design and implementation of solutions projects
• Manufacturing projected solutions
• Installing acoustic solutions
• Acoustic certification
Noise sources characterization
Acoustic modelling of noise sources
Corrective actions analysisi
Noise maps inside industrial plants
Implementation of acoustic solutions

• for discharge of safety and control valves, vents and drains.
• for diesel boilers, natural gas boilers,..
• for the engines and turbines exhaust,
• for the air inlets and outlets of noisy rooms
• for air conditioning and ventilation equipment
• for control, instrumentation and break rooms inside industrial plants: pumps, engines, turbines, compressors, testing rooms…
• soundproof cabins for engines test benches, inspections and maintenance operations of vehicles (trains, cars, trucks, motorcycles…)  
• sectorizing areas using noise barriers
• for electrical substations, water treatment plants, mines, ships…
• for bottling, packaging, labeling machines…
• antivibration systems, hoppers…
Implementation of acoustic solutions
Noise from chimneys
Noise from chimneys

Silencers
Noise from valves (drains, security, control..)
Noise from engine exhausts (diesel, gas...)
Noise from rooms (engines, turbines, pumps, compressors,...)

Silencers
Ventilation + Filtration + Noise control
Ventilation + Filtration + Noise control
Ventilation + Filtration + Noise control
Noise from rooms: acoustic louvers
Noise from rooms: acoustic louvers
Reducing noise in HVAC systems
Noise reduction in water treatment plants
Control cabins
Test cabins
Equipments and machinery enclosures
Acoustic cabins
Noise barriers
Noise barriers
Substations
Noise barriers
Test bench for aircraft engines
Acoustic doors
Acoustic chimneys
Actions on the process environment (building): Acoustic absorbers
Actions on the process environment (building):
Acoustic absorbers
Actions on the process environment (building):
Acoustic absorbers
Actions on the process environment (building):
Acoustic absorbers
Mobile noise barriers: flexible segmentation
Bottling processes
Antivibration systems
Antivibration systems
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