



MOBILE EQUIPMENT EXHAUST SYSTEMS

DATASHEET

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Mobile Equipment Exhaust System

IAC Acoustics has many years of experience engineering high performance exhaust systems for mobile equipment. This includes large open cut mining machinery, large marine vessels, as well as agricultural equipment or on road applications.

Increasingly exhaust silencers and exhaust systems are being asked to provide higher performance while also fitting into smaller or unorthodox spaces. IAC Acoustics achieves this through the use of 3D CAD design software and experience in the design of specialized exhaust silencers and exhaust systems.

IAC Acoustics can acoustically tune the exhaust silencers. They look at the raw exhaust noise data spectrum, the self regenerated noise and the desired target spectrum and engineer the exhaust silencers to achieve the required outcome.

IAC Acoustics is the largest acoustics company in the world. They offer a wide range of acoustic products from heavy duty plant equipment thru to architecturally finished doors. They service a wide range of industries:

- Energy
- Aerospace & Defense
- Industrial Engineering & Transportation
- Education & Media
- Commercial Construction
- Mining
- Healthcare

IAC Acoustics are technology leaders employing 100+ engineers with over 1000 years of collective experience. They have lab and field data accumulated over a 60-year history.

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Marine Exhaust Systems

IAC Acoustics marine projects and capabilities are focused on fabrication and supply of Dry & Wet Exhausts for shipboard diesel generators and propulsion diesel engines including:

- Wet & dry silencers
- Rainmaker water injectors
- Conventional water injectors
- Water separators
- Expansion bellows
- Wet & dry ducting from stainless steel or GRP
- Resilient mounting and supports
- After treatment soot filters and catalytic purifiers
- Thermowrap thermal insulation
- Air inlet silencers
- Total gas turbine exhaust and air intake systems
- Germanischer Lloyds approved workshop and bellows supplier

The Rainmaker model water injectors are specially designed to cool the exhaust gasses faster than conventional injectors. This allows the injector to be installed closer to temperature sensitive exhaust components, like silicone hump hoses or valves.

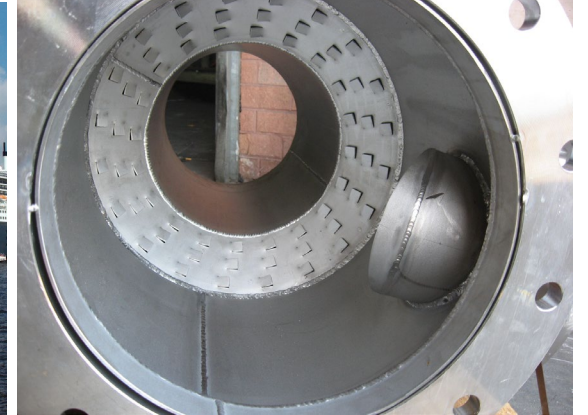
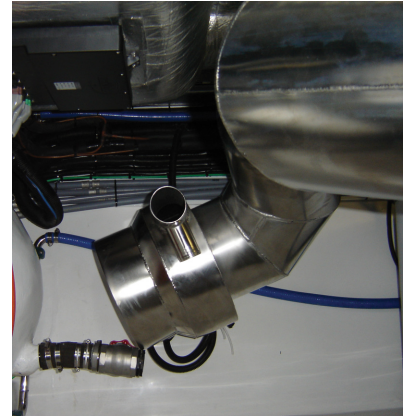
IAC Acoustics manufacture Germanischer Lloyd type approved, single and multiply, metallic compensators in sizes between 50NB and 800NB.

Our major customers range from Defense Forces, Defense Contractors, Fast Ferries, Luxurious Super Yachts, Cruise-liners, Commercial Shipping and Boating.

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Mining Exhaust Systems

IAC Acoustics has designed and supplied acoustic treatment to almost all types and sizes of earth moving machinery. From the largest of Haul trucks, excavators, underground mining machinery etc.

IAC Acoustics have improved upon the double skin exhaust pipe work concept. Internally lined exhaust pipework offers a reliable long term solution to thermally insulating an exhaust pipe.

The exhaust systems can include venturi devices to extract dust from the air intake filters. The silencer would typically be completely internally lined and can be supplied with an integrated heatshield.

IAC Acoustics have experience with the mining applications and the high dynamic fatigue loads and harsh working conditions.



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After Treatment Exhaust Purification

Diesel particulate emissions are major contributors to smog over modern cities. Particulates have also proven to be associated with a range of health effects from exacerbation of asthma, bronchitis and pneumonia symptoms to retarded lung development. IAC Acoustics Exhaust Purifiers will reduce or eliminate particulate emissions. Retrofit of IAC Acoustics solutions are a viable and cost effective solution. IAC Acoustics have retrofitted thousands of mobile machinery with after treatment.

Inhalation of Carbon Monoxide emissions from diesel engines can be fatally dangerous in tunnels, enclosed spaces or places with poor ventilation. Carbon Monoxide is odorless and colorless. This means that CO Concentration levels can increase to dangerous levels without detection.

IAC Acoustics Purifiers employ catalyst elements to provide the exhaust purification solution for your diesel or CNG engines. With increasing demand for environmental and OH&S regulations for the equipment used in industry, IAC Acoustics helps its customers with its unique catalytic converter based solutions not only to meet these strict requirements but also keep their vehicles service, reliably and cost-effectively.

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After Treatment Exhaust Purification

IAC Acoustics Exhaust Purifiers are typically constructed using a coated substrate and a stainless-steel housing.

IAC Acoustics purchase substrates and fabricate the housings to suit the application. The substrates can be full soot filters or simple oxidizing catalysts. They can be tuned to suit marine diesel or on road diesel.

All IAC Acoustics purifiers remove dangerous and offensive gasses from the exhaust. More specifically they all remove carbon dioxide and hydrocarbon emissions. However, IAC Acoustics can offer a more tailored exhaust purifier for any application





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