

# Mining

## An Overview



making the world a quieter place



Machine Treatment Plans  
Testing  
High performance exhaust  
Attenuators  
Enclosures / barriers  
Thermowrap  
Engine after treatment  
High intelligence boundary monitoring devices



# Acoustic Treatment of Mining Machinery

A crucial element of any approach to applying acoustic treatment to mining machinery is identification and quantification of noise sources. IAC Acoustics have developed a variety of techniques combining tried and true with cutting edge equipment to compile noise source information.

IAC Acoustics also offer individual treatment if that is the preference. This is specific treatment of a single source. This is a faster and less involved option to obtain high quality components.

IAC acoustics pride themselves on their “can do” attitude. of collective experience. They have lab and field data accumulated over a 60 year history.



## World Leader

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  
Industrial Engineering & Transportation  
Commercial Construction  
Healthcare

Aerospace & Defence  
Education & Media  
Mining

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.

# Product Range and Capabilities

IAC Acoustics mining projects and capabilities are focused on:

- Noise treatment of OEM equipment to meet mine specifications
- Design, testing and investigation
- Attenuators
- Exhaust systems
- Acoustic panels
- Acoustic lining
- Internally lined exhaust pipework
- Thermowrap thermal insulation blankets
- After-market supply of thermal insulation (many OEM patterns readily available)
- Intelligent boundary monitoring systems

IAC Acoustics provide varied services for mining applications. They can provide simple secondary silencers or engine compartment lining. They also offer wholistic solutions for individual machinery, with the use of identification and quantification technique, acoustic modelling, noise intensity surveys, acoustic camera tests etc to achieve acoustic targets.

IAC Acoustics have designed and supplied acoustic treatment to almost all types and sizes of above ground mining machinery.



# Innovation

IAC Acoustics Mining and Thermowrap group have a history of development of original and successful products.

## Attenuator Range

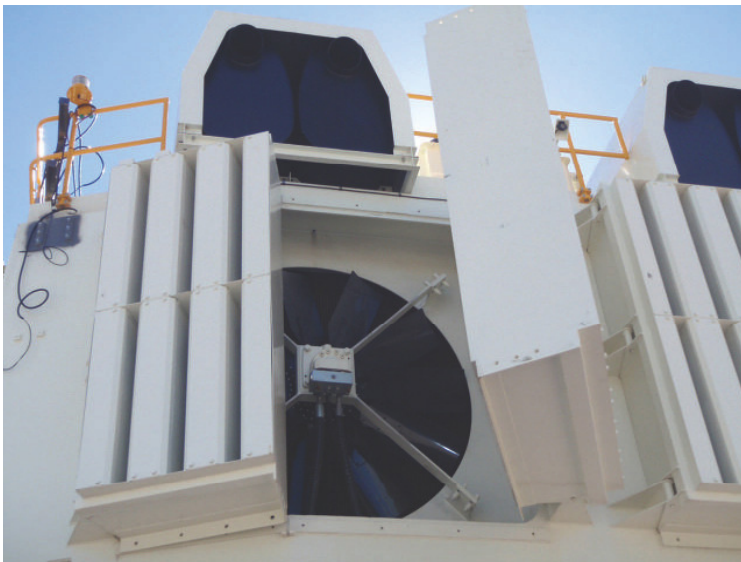
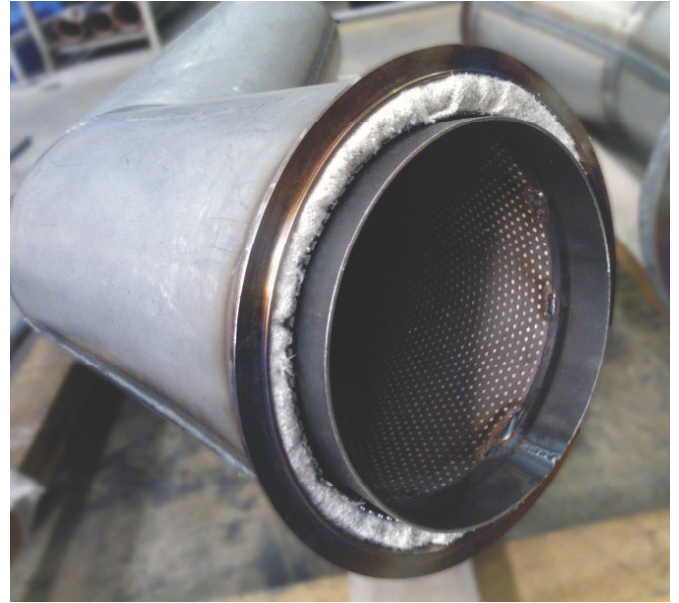
- Highly maintainable design
- Long lasting design with resistance to fibre migration
- Tuned to achieve noise target levels

## Exhaust

- Design mufflers to fit within difficult space envelopes
- Internally lined double skin pipework system

## Enclosures / Barriers

- Lightweight lift-off panel system
- Acoustic Curtain Blankets



# Tested Proven Products

Given the size of IAC acoustics there is a wide range of products and solutions that can be drawn upon. They would be engineered to suit the dynamic mining environment. They are also engineered to allow ease of maintenance.

IAC Acoustics have 2 off main centres of Research and Development. They have wind tunnel, reverberation and anechoic chambers as well as engine test cells for exhaust testing.

IAC Acoustics would typically guarantee the performance of specific treatments that are applied.



## Experience Pool

IAC Acoustics have been in the acoustics industry for 60 years and specifically in the mining acoustics industry for 20 years.

They have a wealth of experience to draw from and understand factors that are important in the industry.

1. Service
2. Performance
3. Quality
4. Cost effectiveness

They continuously and actively seek to improve in all 4 areas.

## Quality is Everything

Across the board IAC Acoustics have ISO9001 quality assurance certification

Many site are working towards ISO14001 and ISO 18001 certification. Therefore you can be assured that your product will be manufactured in a quality facility with consideration for safety and environmental impact.

IAC Acoustics is proud of the quality of it's workmanship. Continual improvement for a large part of the way IAC Acoustics manages it's business.



## Worldwide Manufacturing Options

IAC Acoustics have manufacturing facilities located all around the globe that can be utilised to produce mining product. Depending upon required parameters be it price, lead time, quantity etc a suitable facility is available.

IAC Acoustics have capacity and flexibility to meet your operational needs. Global manufacturing is a genuine option that we can offer.

# Contact

## **IAC GmbH**

T: +49 2163 9991-0

E: [deutschland@iac-gmbh.de](mailto:deutschland@iac-gmbh.de)

[www.iac-gmbh.de](http://www.iac-gmbh.de)

For a list of IAC locations worldwide please refer to our website.

All rights reserved. No part of this production may be reproduced in any form or by any means without the prior permission of IAC Acoustics. IAC Acoustics reserves the right to change design and specifications without notice at any time.



making the world a quieter place