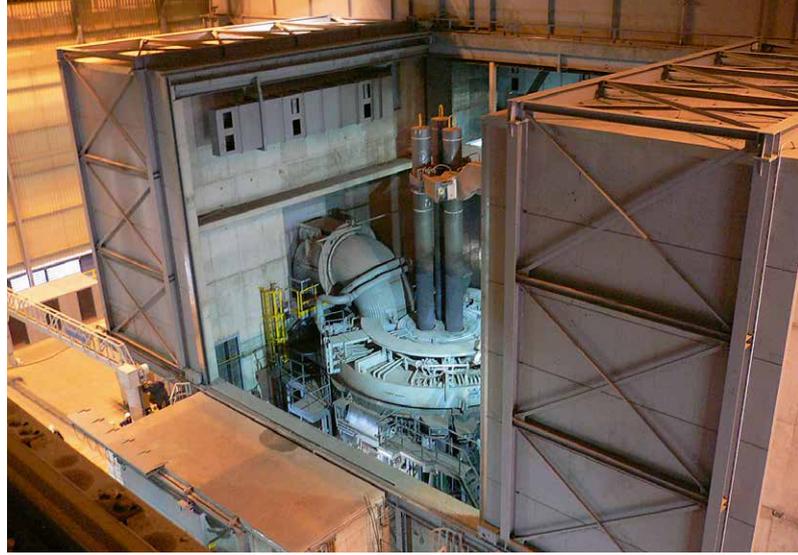




Acoustic enclosures
for power plants and other industries

MÜLLER-BBM
INNOVATION
EXPERIENCE
EXCELLENCE
SINCE 1962



BBM Akustik Technologie
Acoustic enclosures
for power plants and other industries



Acoustic enclosures

Noise control for power plants
and other industries

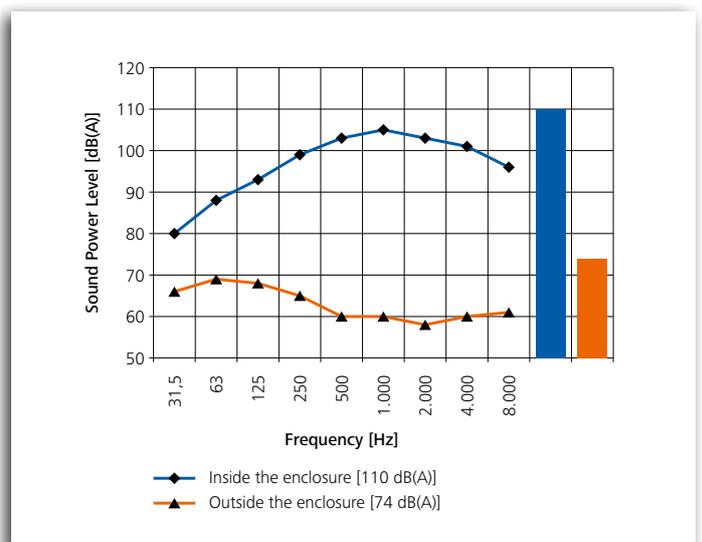


BBM acoustic enclosures

As a leading supplier of industrial noise control BBM Akustik Technologie offers enclosures for all kind of noise sources:

- Gas turbines
- Engines
- Steam turbines
- Compressors
- Pumps
- Fans
- Presses
- Other industrial applications

For the reduction of noise made by machines and mechanical units, we deliver acoustic enclosures, tailor-made for the particular situation, for both indoor and outdoor use. We place highest value on stable, long-life design, ease in dismantling, and high acoustic effectiveness. If desired, we deliver the enclosure including entire electrical installation, ventilation system as well as other accessories according to the clients' requirements.



BBM Akustik Technologie acoustic enclosures have proven themselves in use all over the world while improving working conditions and protecting the environment.

Acoustic design and calculation

The acoustic design and calculation of enclosures are two of the most important tasks.

All structural calculations for steel, cladding, roofing and sub-structures are performed in-house. Guaranteeing in this way an effective, quick and direct solution for the tasks given.

Long-life design for easy assembly and dismantling

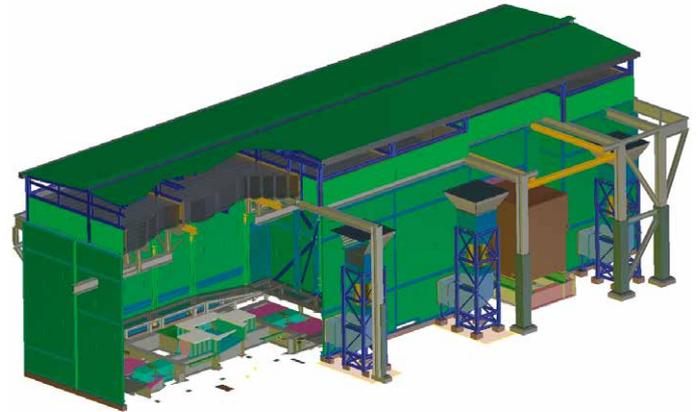
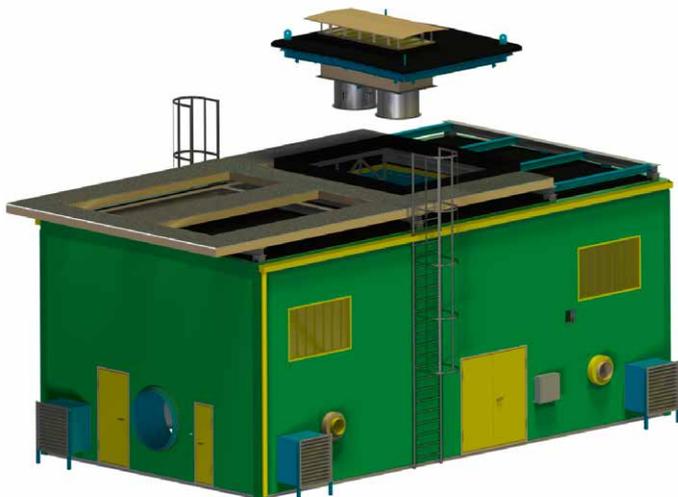
As a rule, BBM Akustik Technologie uses a modular design for its enclosure projects. The particular wall, door, and window elements are mounted on a solid framework structure; everything is designed for easy assembling and reassembling.

Economical solutions

The costs of high-quality noise protection can be reduced to a minimum, even in the case of individual applications. This is possible because BBM Akustik Technologie makes acoustic enclosures as customized solutions, designed and assembled to solve a specific noise problem.

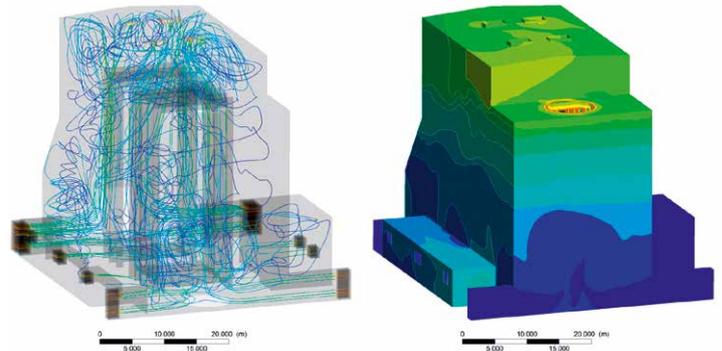
Planning, 3-D design, detailed engineering and project management

Today, nearly all projects are represented in 3-D (CAD) models. The use of this kind of software enables a close check on such critical parts as battery limits, pipes and other penetrations allowing for a »tailor-made« detailed engineering.



Ventilation systems

BBM Akustik Technologie provides detailed analysis of ventilation, assisted by its own measurements and supported by the newest software (e.g. CFD analysis). Usually, two systems are applied: natural or forced ventilation. Both systems have been successfully used in past projects. BBM Akustik Technologie calculates, supplies and installs these systems worldwide, including all secondary equipment like silencers, ducts, dampers and weather protection.



Worldwide supply and installation

Specialized teams consisting of BBM Akustik Technologie's own staff, or as combined teams with BBM Akustik Technologie's partners take care of the installation works.

The following shows the comprehensive range of our projects:

- Acoustic design and optimization
- 3-D (CAD) model engineering
- Planning and processing
- Laboratory tests and measurements
- Static calculation
- Industrial design
- Detailed engineering of all components
- Ventilation by natural or forced draft
- Smoke and heat evacuation systems
- Complete electrical equipment
- Fire fighting systems
- Fabrication, testing and installation
- Documentation



What's in it for you?

- Acoustic design of the enclosure and silencers
- Structural design, CFD and FEM calculations if required
- Access to the full know-how of the Müller-BBM Group
- Mounting included on request
- Site coordination, monitoring and management according to the highest safety standards
- Supervision of your mounting or manufacturing procedures, if required
- Technical support with acceptance procedures
- Guarantee on acoustic and aerodynamic performance
- Complete documentation according to your requirements

**We will accompany you
throughout the entire project**

**Solving industrial noise problems
for more than 35 years.**

**BBM Akustik Technologie – a leading
supplier of industrial silencers and enclosures.**

**EN ISO
9001:2008
certified**

Our products

Flue-gas silencers

- Bypass silencers
- Gas turbine silencers
- HRSG ducts
- Main Stacks



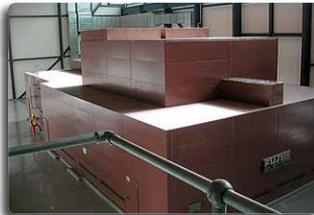
Steam silencers

- Vent silencers
- Start-up silencers
- Blow-off silencers
- Flash tank silencers



Acoustic enclosures and claddings

- Facades and shrouds
- Partial HRSG enclosures
- Steam and gas turbine enclosures
- Supply and erection



Exhaust systems

- Exhaust ducts
- Expansion joints
- Silencers and stacks
- Retrofits



Engine exhaust silencers

- Intake and exhaust flow silencers
- For diesel and gas engines
- For all industrial applications
- DNV certified spark arrestor



Condensate systems

- Complete system design
- Static and dynamic calculation
- Condensate tanks and flash tanks
- Piping and blow-off silencers



Cooling tower silencers

- Natural draught cooling towers
- Forced air cooling towers
- Cell cooling towers
- Hybrid cooling towers



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