"It is not without reason that hearing impediments are amongst the most common work-related illnesses today."

Economic studies by renowned institutes repeatedly find that constant noise increases the risk of accidents, is detrimental to the health of employees and results in falling productivity due to frequent work accidents.

In order to make the workplace more human friendly, AIN works together with STA to offer **tailor-made sound reduction systems.**

As one of the leading companies for sound insulation, STA has the technology and the know-how to achieve the reduction in noise levels striven for. The modular system developed by STA for this purpose is outstandingly well suited for sound insulation measures in all forms of industrial company.


Those involved in the practice of combating noise know that off-the-peg sound insulation material does not offer effective noise reduction. Sound insulation is a task for engineers.

A thorough analysis of causes is therefore the basis for all planning, preparation of quotations and execution.

The economic efficiency of the sound insulation measures is equally important to us as is the achievement of the reductions themselves.

# Noise reduction solutions

**Partition walls** are used to protect complete areas against noise. The walls are made from self-supporting elements and can be designed to absorb on one or both sides. Individual welding or grinding positions are also closed off with partition walls. All forms of doors and windows can be used without problems.

On **profiling** devices, the sound-dominant parts, such as blanking stations or separating saws, are purposefully housed in. Dust covers for complete conveying devices make it possible to achieve high quality standards of the product in, for example, special steel plants. The housing-in of **laser cutting** devices protects the operating personnel against spraying.

The cabine at **Euroblast** has three purposes: to reduce the sound level in the production environment (in order to protect the workers), to collect dust from the shot blast machine and to reduce sound levels in general to make production during nighttime possible.

The **operating stands** are adapted to the requirements of the customers and equipped individually. Fittings such as cable floors, suspended ceiling systems, air conditioning devices, lighting and electrical installations can be integrated if required. Our modular construction also permits the installation of operating stands in complex devices. This can be realized at several levels. We supply the necessary steps, platforms, rails and safety devices.

**Machine encapsulation** is used to protect the operator against noise and risks. The adaptation of the respective machine casing to the machine is planned in space-saving manner. Lifting gates and sliding doors - whether manually or electrically operated - enable quick access for the machine operator. Safety doors are equipped with safety switches as per substation. We can protect endangered areas using protective grids and fences. When housing in turbines, block-type thermal power stations and generators, large-volume ventilation systems are planned.

Our customers' products are frequently measured in sound and heat-insulated **testing cabins** or tested under full load. With series production, the products are brought to the cabin via sluices. Conversely, quality testers are also protected against ambient noise from production.

In the production of bricks or composite stone, stone-shaping devices are fully housed in and are frequently complemented by sound-insulated operating stands and switching-cabinet rooms. In **foundries**, shake-out grids, separator channels and decoring machines are encapsulated.

Whether sound insulation casing for individual **presses**, complete press working lines or just shields for partial areas such as on the press head, everything is possible. These measures are performed with lifting gates, sliding doors and folding doors. All gates and doors are electrically fuse-protected and prepared for integration into your control system.

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