

# Blasting Technology with Liesegang!

At Liesegang, not only do we have experience in conventional demolition, we also have our own blasters with a high level of basic knowledge in theory and practice.

Alongside blasting for the deconstruction of buildings and plants, we frequently use blasting technology as a special solution. Whether for the clearance of hot masses in incinerators, reactors and the furnace process or in the cleaning of waste incineration plants, power station boilers, conveyors and large surface mining equipment by means of blasting technology or for the damage-free blasting of building components, our specialists and blasters develop the necessary technology for you.

The deconstruction of buildings and plants by blasting is not only a spectacular event, it also demands extensive knowledge, a great deal of experience, and responsible operation by our authorised blasters.

In Europe, the use of blasting technology has been in decline in recent decades. Consequently, our decades of experience in this discipline make us a valuable partner for blasting tasks.

Whether in the use of electrical, non-electrical or electronic ignition processes, our engineers and authorised blasters compile the detonation plans and most efficient charge calculations.

Naturally, we are also able to undertake advisory attendance, the measurement of blast shocks, and the preceding procurement of evidence of buildings, canals or other projects.

Within the field of blasting technology, we specialise in:

- Steel blasting
- Blasting of hot masses
- Blast cleaning (in ongoing operation)
- Building blasting
- General blasting work



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We use steel blasting for the dismantling and deconstruction of complex steel constructions such as brown coal excavators. In doing this, the elements of the respective main supporting structure are served within a fraction of a second (approx. 3 hundredths) by means of cutting charges.

Prior to this, however, our specialists accordingly cut out unnecessary parts of the supporting structure with millimetre accuracy using autogenous flame cutting, in line with deconstruction statics. The use of this process facilitates the optimisation of deconstruction costs by the elimination of large, expensive cranes.

For us, blasting technology is not only about bringing down buildings, industrial plants and even large surface mining equipment, it is also a technical instrument for solving difficult problems in industrial cleaning. For over 25 years, we have used blasting technology in the cleaning of industrial plants, in order to allow our customers time-minimised revision, maintenance and fault down times.

The application areas include cleaning off dust, dirt or product deposits, for example in power station boilers, waste incineration plants, material vessels and hoppers and on the chassis and output units of large surface mining equipment.

The greatest demand on staff and technology is for the blasting of hot masses inside combustion chambers, reactors and slag hoppers. This work is carried out under extreme conditions with the use of special heat protective clothing. Red-hot slag with material temperatures of over 900 °C and air temperatures of approx. 750 °C are no rarity here.

To clean off dust deposits in boiler flues, we have developed a process, which enables us to carry out the cleaning work during ongoing operation with an air temperature of as much as 200 °C, using appropriate special heat protection equipment. Regular execution of this procedure enables the optimisation of plant operating times. Shutting down and starting up plants – which causes wear on materials – for the purpose of cleaning become superfluous and can be postponed until the next revision.

