

Disposal Plant *Amunstat A* for energetic materials made by sonUtec

In several countries, outdated energetic and/or off-specification materials are stored. For the safe and environmentally friendly disposal of such materials, a specialized technical system is needed.

All shapes of loose explosives or propellants can be disposed of in the so-called **Burn-out kiln *Amunstat A*** including:

- Powders
- Granules
- Slices of shells
- Splits

The kiln is **immediately ready for use, a preheating period is not needed**. Treatment of the energetic materials happens batchwise by thermal destruction. Due to the high energy content of the material, **only an ignition burner is needed** to start the combustion process. For the combustion itself, no further energy supply is needed. After the burning process, the result of the combustion is **video controlled**.

For safety, the feeding of the materials happens behind a blast wall. The transport of the explosives into the kiln and all other **process steps are automated**. Ensuring a **simple handling** of the whole system.

Additional off-gas treatment system:

The off-gas system is adjusted to the individual regulations of each country and to the customers wishes. The most basic system just includes a pressure equalizing vessel and a dust filter. In contrast, an off-gas system according to the directive 2010/75/EC further includes:

- Secondary combustion chamber
- Dry sorption system
- DeNOx system
- Active carbon filter
- Emission control system

Together with static detonation kiln (for the disposal of live ammunition) and flashing furnace (for the annealing of contaminated metal part), sonUtec offers a complete solution for the thermal disposal of loose and contained energetic materials.

SonUtec's *burn-out kiln* can be found in different parts of the world including Germany, Poland, China, and South Korea.

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