Sludge Treatment
Tar, Sewage, Oil and similar Residues
They are “disposalsites”, “lakes” or “ponds”. They are generally out in the open, and full to the brim with tar, oily residues or other similar industrial waste. These highly problematrical substances are a danger to water, ground and air alike. For cleaning up ecological timebombs like these, there are extremely specialised requirements made of project management and the technological processes used.

Lobbe is responding to this challenge with an A-Z solution for the cost-effective clean up of sludge-containing areas. We have developed a technology that is completely mobile, that forgoes the need for stationary processing facilities. The patented Lobbe technology uses an oversized vertical cutter – a bi-functional agitator/injector. More than just highly mobile, the new Lobbe machine is also extremely effective.

Until now, sludge processing (dewatering, compacting, drying, liquefying, haul-away) required on-site facilities. The Lobbe alternative offers a totally new – and surprisingly simple – technology. Focused on your particular needs, our sludge processing method is especially cost-effective.

The Lobbe agitator/injector vertical cutter can be employed for a number of different operations:
- Conditioning industrial and sewage sludge.
- Conditioning sludge from coal mining and tar production.
- Conditioning harbor and river sediments.
- Liquefying residues (particularly coal mining runoff and gas production sludge).
- Loosening and stirring compost, as well as mining capping.
- Non-thermal processing of wastes.
The Logistical Process

In addition to its high mobility, our thoughtfully designed technical process is easy to set up. In almost no time at all, the Lobbe technology is on site, set up, and ready. This makes the process especially attractive.

A normal flatbed trailer is used to haul the Lobbe vertical cutter to the site. No special permission – no special authorization – is required. Sites as far away as 800 km can be reached within 24 hours. The site itself must be accessible over a hard road surface to enable vehicle ingress and exit. Electricity or any other kind of power is completely unnecessary. Lobbe’s sludge processing technology is self-sufficient, requiring no peripheral apparatus.

Set-up on site is fast and simple. The vertical cutter is mounted to a standard excavator fitted with a quick-change extension arm. Total set-up time is extremely short, requiring no more than two to three hours for the entire operation – including unloading. Immediately after set-up, the machine is ready to go to work.

Foolproof technology. Minimal manpower requirements. These are the outstanding features of Lobbe services in a time-restricted environment where transparent costs and proven effectiveness are prerequisites. With this technology, Lobbe once again demonstrates its task-readiness and focused competence. Always delivered with swiftness and flexibility.
Conditioning agents such as lime, cement, fly ash or coal dust are used to produce a stable homogeneous mass that can be excavated and hauled away. The thixotropic characteristic of some sludge facilitates liquefaction of the mass – and therefore pumping – by simple agitation with the vertical cutter. This of course eliminates the need for a conditioning agent.

Our vertical cutter can process 500 to 1,500 tons daily – depending on the characteristics and condition of the sludge. The entire mass can be converted to a predetermined consistency.

Sampling and laboratory analysis are used to determine the constitution of a sludge. Accurate information about content characteristics such as the percentage of solids, the eluate value, and the amount of combustible energy determines the final use or destination of the processed material.