Diesel Particulate Filters and systems for Exhaust After Treatment
The MK-System is ideal for vehicles with low exhaust gas temperatures

This is typical for construction machines, municipal vehicles and public transportation

The filter efficiency is about 99% and the regeneration is caused simply on the vehicle; totally autarkic without the necessity of other energy sources

The HUSS-Control is supervising and controlling the process of soot loading and regeneration
Advantages of the MK-Systems: The details make the difference

- Independant from exhaust gas temperature due to stand still regeneration
  Ideal for vehicles at low or unsteady exhaust gas temperatures
- Independant from other, external energy sources
  Diesel fuel for regeneration is taken out of the tank of the vehicle
- Extremely short regeneration periods between 5 and 35 minutes
  Regeneration is completed in a very short time; short engine shut down times
- Filter soot load between 8 to 10 hours
  No influence of the filter to the usage of the machine
- Low fuel consumption due to regeneration
  Between 100 and 300 ml per day and regeneration
- No secondary emissions
  Oxygen is transported to the filter by additional blower
- From 18kW (25 hp) to 500 kW (750 hp) engine performance
  Small filter for 18 kW (25 hp) to 30 kW (40 hp); available in oval design
- Horizontally and vertically mountable
  Flexibility in integration on the vehicle
Function principle of the MK-System: Regeneration? Press the button!
Exhaust gas temperatures – a specific criteria for construction machines and municipal vehicles

The records of the Data-Logger are showing the temperatures

Example of a „normal“ working „cold“ machine:
in 94% of the time below 250°C

Example of a „hard“ working „cold“ machine:
still in 54% of the time below 250°C
Regeneration Cycle of Diesel Particulate Filter with active Diesel Burner Technology

- Soot ignition temperature >550°C
- Temperature [°C]
- Backpressure [mbar]

Graph showing regeneration process with time and pressure data.
HUSS typical advantages

- Modular design of the filter
  - Simple to maintain and integrate on the vehicle
- Casing made from stainless steel
  - Long life time and durability
- Additional silencer module available
  - Meeting strict noise regulations
- Filtration with high-tech ceramic (SiC)
  - 99% soot collection and high reliability
- HUSS-Control with Data-Logger function
  - 100% supervision of the process and data recording
- 2 years warranty possible
  - By placing a maintenance contract
- More than 20 years of experience
  -知-how directly from the manufacturer