ADVANCED CLEANING TECHNOLOGY FOR LOW EMISSIONS

The state of the art combustion technique that is applied in HoSt installations already ensures minimal NOx emissions. However, to even further clean the flue gases HoSt uses extensive purification technologies to guarantee clean flue gases. These are the results of each individual stage of the flue gas cleaning.

1. **FLUE GASES**
   - Urea-injection in the furnace reduces the NOx emission down to approximately >70%.

2. **UREA INJECTION**
   - Result: up to >95% NOx reduction

3. **FLUE GAS CONDENSER**
   - In the flue gas condenser the flue gas is cooled to 40 °C or lower by cooling water.
   - Result: energy efficiency of biomass increases to >30%

4. **MULTI-CYCLONE**
   - The first stage separates fine dust particlals and air via centrifugal force.
   - Result: < 150mg dust
   - Dust reduction: up to 95%

5. **BAGHOUSE FILTER**
   - A bag house filter is applied to filter even smaller dust particles from the gas.
   - Result: < 1mg dust
   - Dust reduction: > 99,5%

6. **DeNOx-CATALYST**
   - In the next stage nitrogen oxides is converted to natural gasses.
   - Result: up to >95% NOx reduction

7. **CLEAN FLUE GASES**
   - Result: < 1mg dust

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**HoSt**

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