

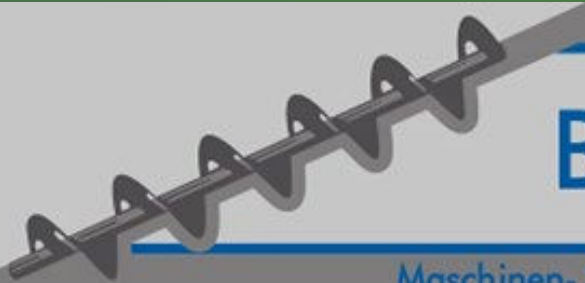


Alka Eco Systems

Alka Eco Mobile DDU

Innovation by Luc de Haan

v. 1.4.



Bader Anlagenbau GmbH

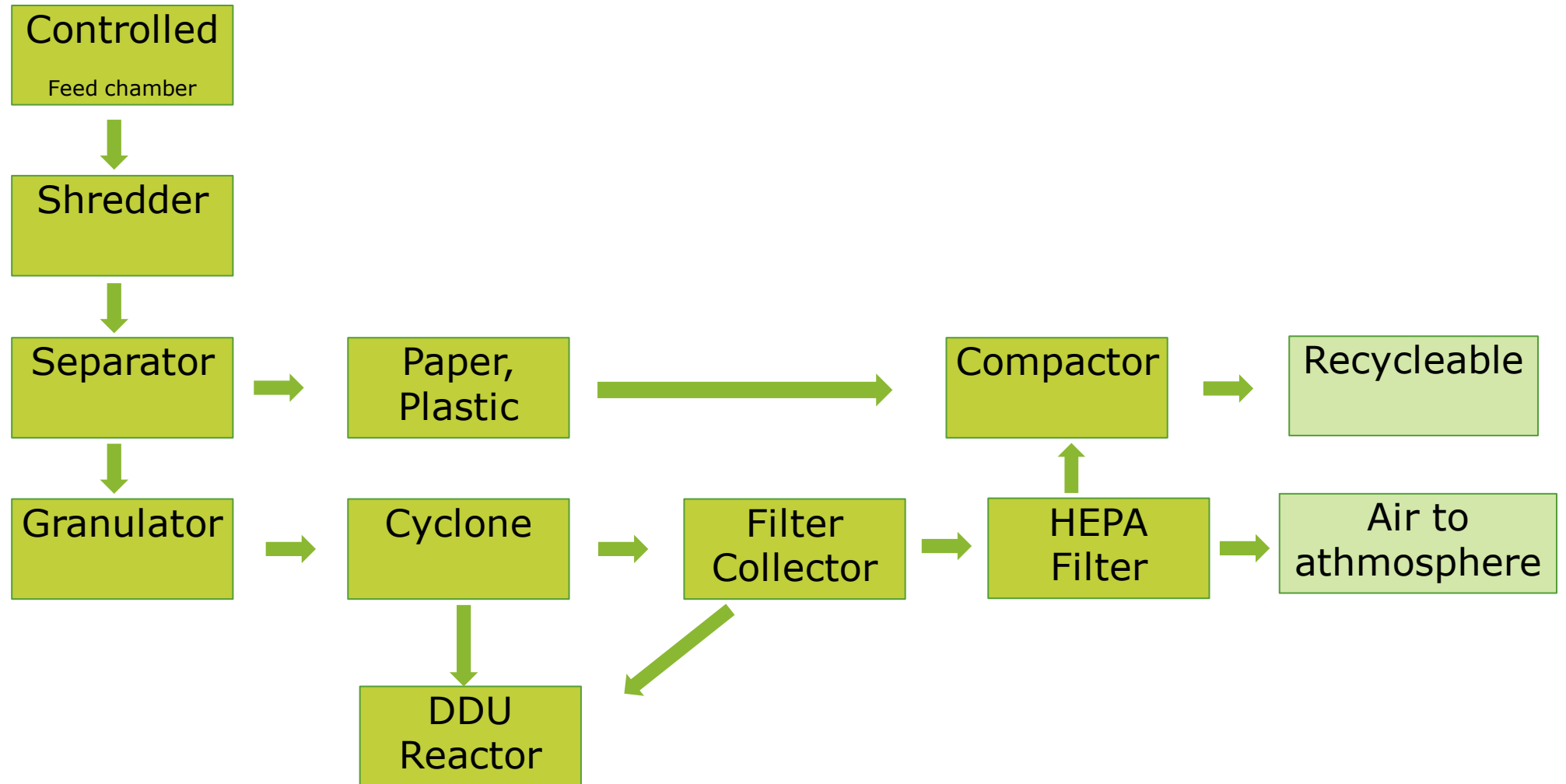
Maschinen- Silo- und Behälterbau • Druckbehälter • Förderanlagen • Spezialanfertigungen

Step 1

- **AUTOMATED** unpacking and separation, police does not want to unpack the drugs, and that's very understandable.
- The feed material (drugs) are packed in (plastic) bags, wrapped with film or adhesive (duct) tape.
- Size of the packing does vary up to 15x15x15 cm (depends on location).
- Material has to be mechanically loaded into a feed chamber.
- Process of size reduction and separation of paper and plastic is completely closed, so no dust particles can be airborne.
- System operated via a PLC and controlled via OIT and cameras for security.
- System to be in conformity with current CE and ATEX regulations.

Process flow diagramm

DRAFT

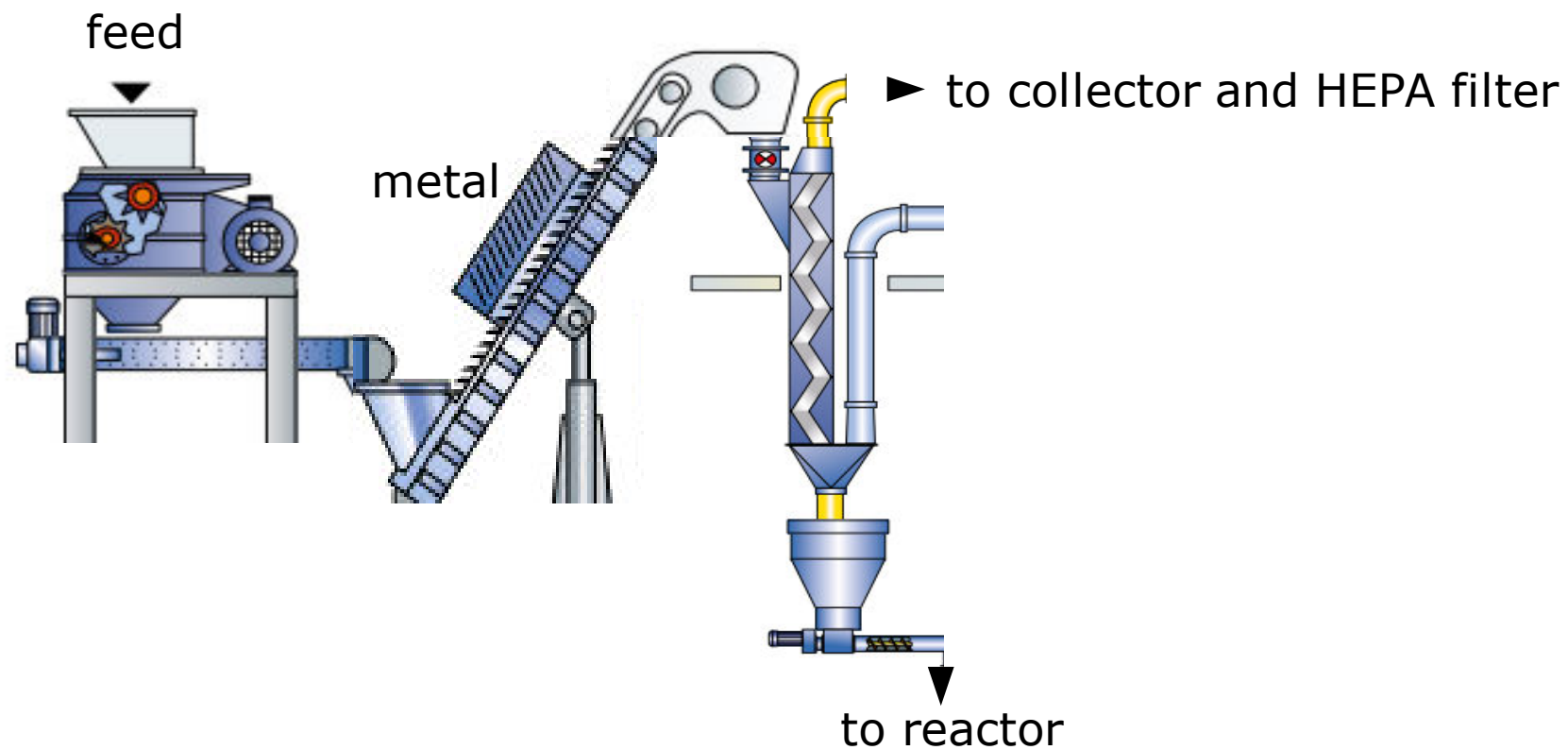


Cost estimate for unpacking and separation system

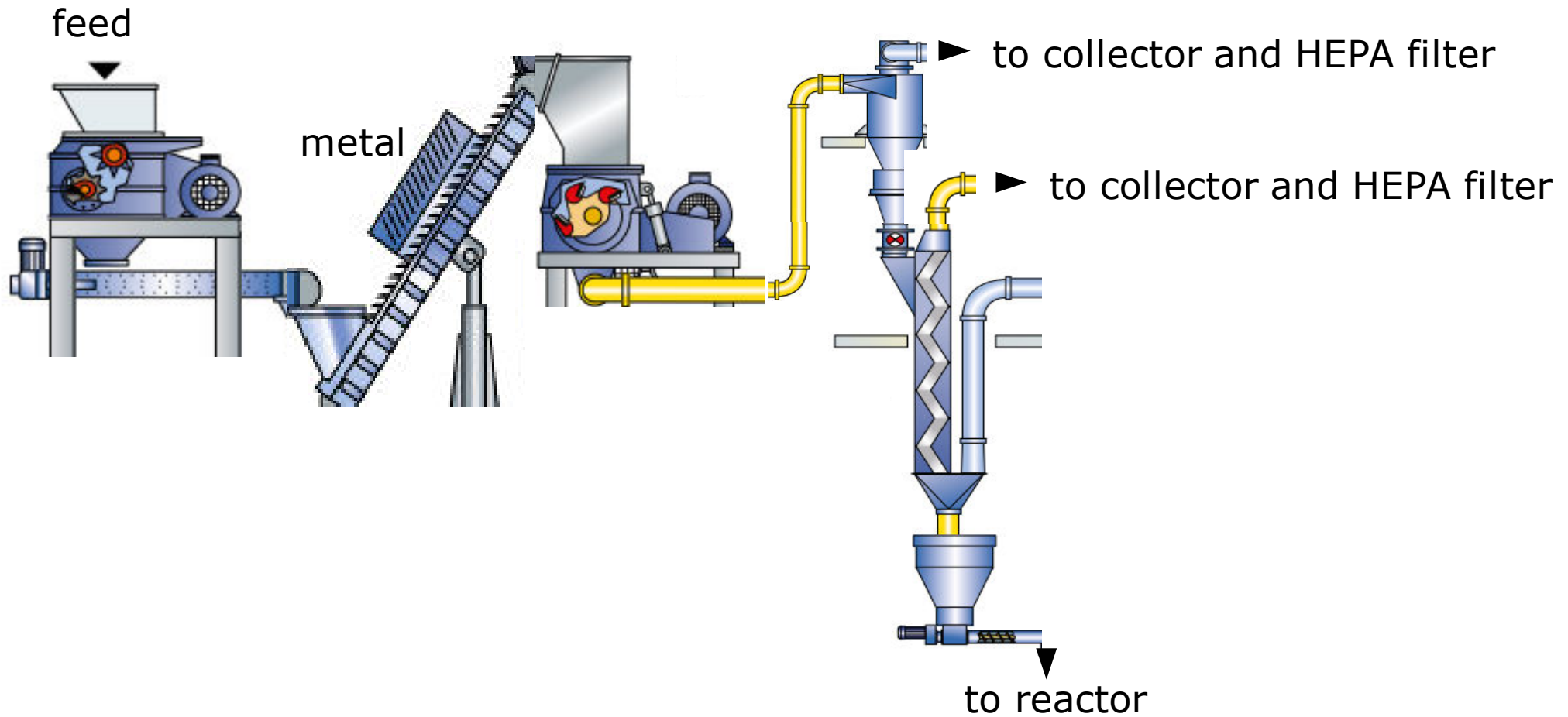
Steel structures, assembly and cabling as well as testing is not included

Feed chamber with doors and camera	10.000€
Twin rotor shredder	35.000€
Rotary sifter	25.000€
Granulator	30.000€
Cyclone, rotary valve	25.000€
Collector	12.000€
HEPA filter	7.000€
Fan	3.500€
Pipes and miscellaneous	10.000€
Control system with PLC	35.000€
Engineering	20.000€
Upfront Tests	10.000€
TOTAL (estimate +/- 20%)	225.000€

Flow sheet (compact, 1 step version)



Flow sheet (2 step version with classifier)



Source: _____

Flow sheet (2 step version with sieve)

