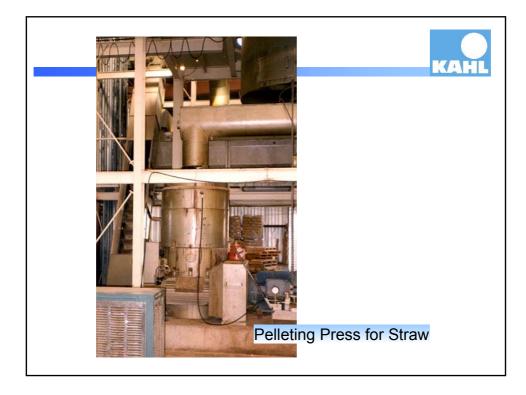




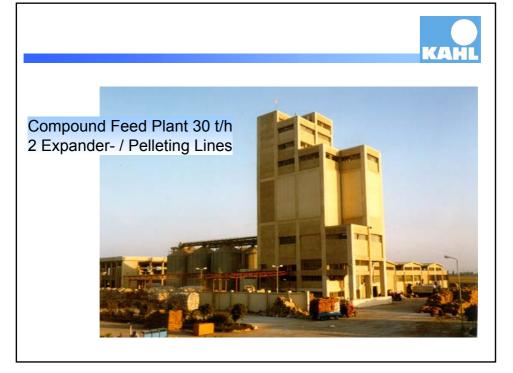
## Roughage Feed Plant 15 t/h

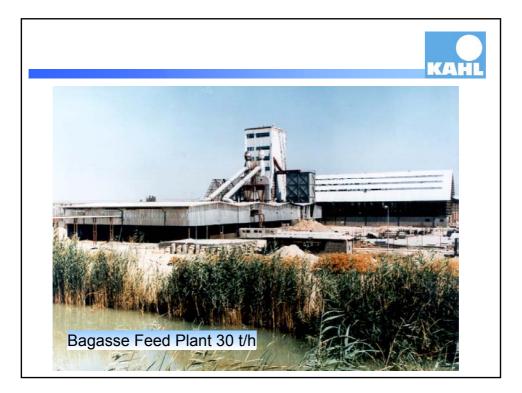
With long time conditioner and pellet presses F 38-780, F 45-1250

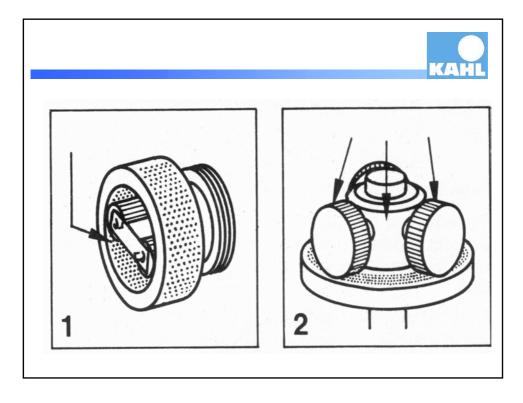


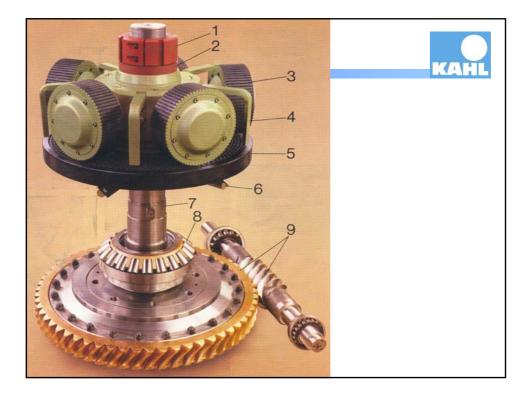


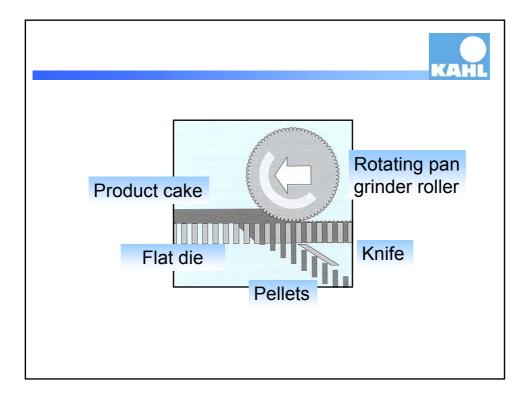


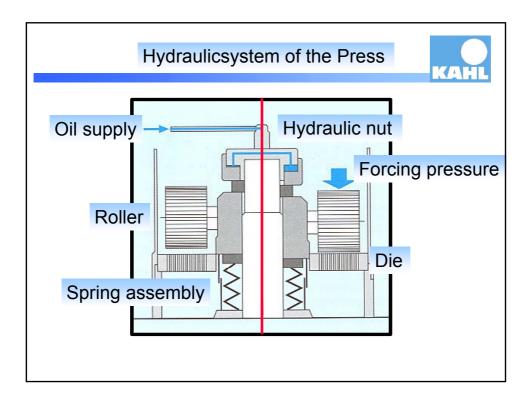


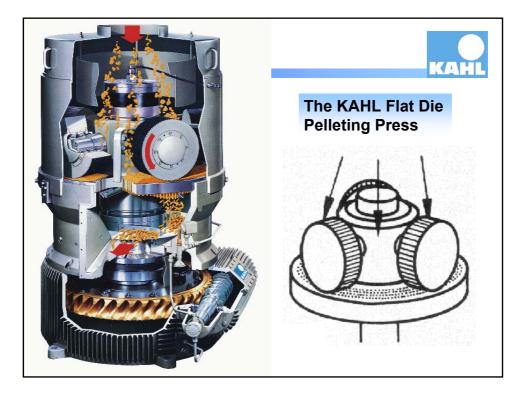


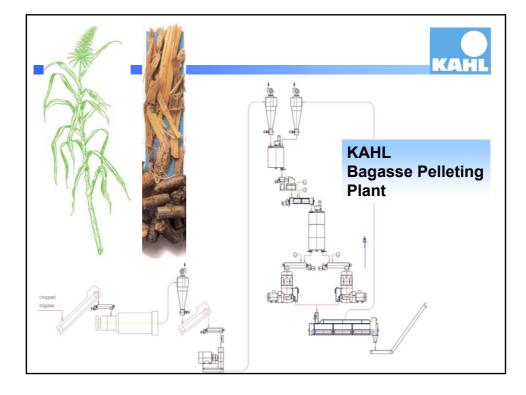










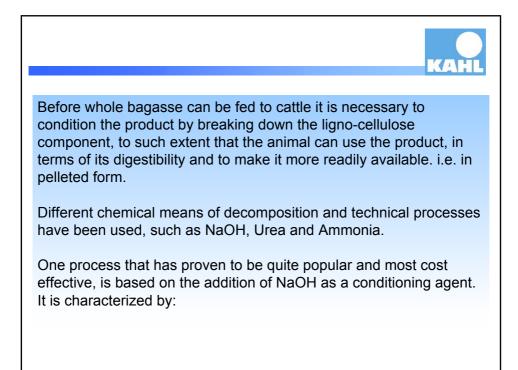




Amandus Kahl is well known for their know how and for the ability of their pelleting machines to process difficult roughage materials such as wheat straw, maize straw and of course bagasse.

Wherever cereal grains or sugar cane is being cultivated a lot of roughage, such as straw or bagasse is generated. These by-products are often burnt or utilised to provide boiler energy but they can also be used as ruminant feed.

The increase in the world population is forcing industry to seek and to utilise all known available feedstuffs in order to meet the demand for dairy and meat products. Companies might also find that it pays them to utilise such relatively low value products in a more profitable way, as a ruminant feed components, rather than to simply burn them for their calorific energy values.





• **Crushing and de-fibration** of the straw or bagasse, to render the material more accessible to the decomposition agent.

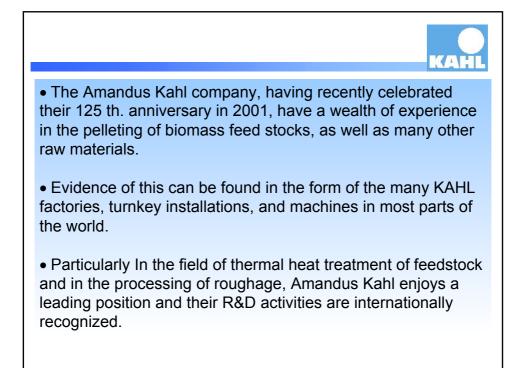
• **Conversion of the cellulose structure** from a crystalline state into an amorphous state by means of NaOH, together with heat, time, and pressure, in order to increase digestibility.

• **Compaction**, i.e. pelleting of the product in order to increase the bulk density of the straw or bagasse. This increases the animal's feed consumption and its performance.

One can also add UREA to increase the nitrogen content of the product and the production of bacterial protein, which in turn contributes to a general protein increase. This is particularly important for the feeding of dairy cattle.









• The unique flat die pelleting press has enormous advantages when used for the pelleting of roughage, or voluminous products such as straw or bagasse.

• Bagasse pelleting is a familiar concept to Amandus Kahl and they have installations to prove this.

• Pelleted bagasse can be used as a combustible fuel, for energy in the boilers of sugar mills and other factories; as raw material in furfural production, or treated with NaOH for use in compound animal feed.

