HYDROTHERMAL TREATMENT FOR GENTLE MODIFICATION OF RAW MATERIALS AND FEED MIXTURES
Hydrothermal treatment for gentle modification of raw materials and feed mixtures

For improving the product properties and for reducing harmful components inhibiting digestion
Possible applications of the Kahl hydrothermal processes:

**Soybeans**
- Reduction of inhibitors (urease, trypsins)
- Increased oil availability
- High protein solubility (PDI-NSI)

**Legumes**
- Reduction of inhibitors (phasins)
- Starch modification
- Improved nutritive value

**Cereals**
- Starch modification
- Hygienic treatment
- Improved nutrient utilisation
- Use for special feed

**Feed Mixtures**
- Hygienic treatment
- Extreme liquid additions

**Rape**
- Inactivation of glucosionolates
- Sinapine

**Cotton Seed**
- Reduction of gossypol

**Advantages**
- Gentle treatment
- Low energy input
- Controllable process steps
- Wide range of applications
**KAHL PROCESS TECHNOLOGY**

*The KAHL process technology ensures end products of high and uniform quality*

The high and uniform quality of the end product is achieved by the easily controllable and adjustable pressure and temperature range.

Kahl has many years of experience in the design of complete production lines in which different pre- and post-treatments can be combined with hydrothermal treatment depending on the requirements.