



HIPLEX

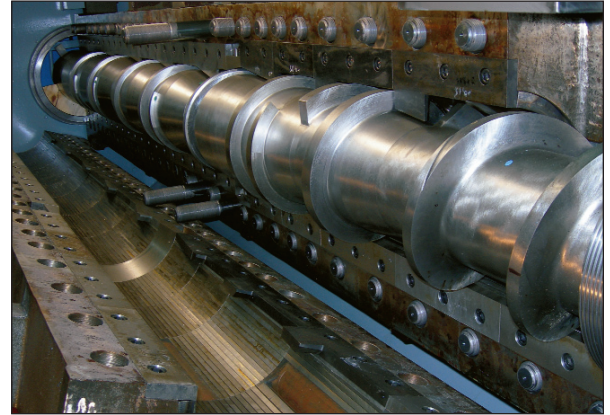


High Pressure Liquid Extraction (HIPLEX®) – A new dimension in mechanical pressing.

ABOUT HIPLEX

The HIPLEX® system is a mechanical screw press modified to inject liquid or gases into the internals of the press cage. Currently, liquid CO₂ is used in the press, resulting in increased oil removal and a corresponding increase in cake protein.

Crown has been advancing the CO₂ pressing technology since acquiring it in 1998. In 2005, Crown entered into an agreement with Harburg-Freudenberger (HF) for joint development of the HIPLEX® technology. The HIPLEX® process is a licensed technology that uses HF presses exclusively.



PROCESS DESCRIPTION

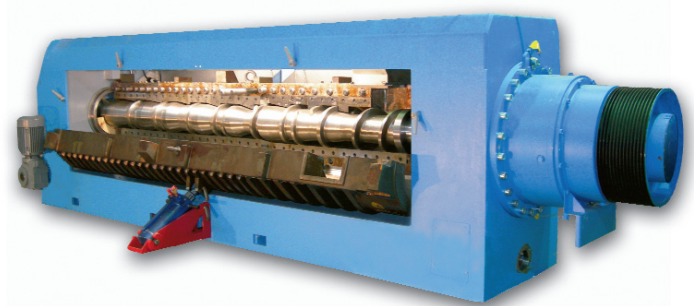
The HIPLEX® process injects CO₂ into the press to increase oil removal from the seed. The process can maintain a cooler temperature throughout the press reducing discoloration of the meal and oil. A natural and/or organic meal and oil are produced with lower residual oil than conventional mechanical pressing.

The HIPLEX® process can be coupled with other systems such as refining and biodiesel. Like conventional mechanical pressing, the HIPLEX® process is an ideal option when hexane use is prohibited, or not economically feasible, and an economic source of CO₂ is available. A conventional mechanical press system with HF presses can be retrofitted in the future to the HIPLEX® process.

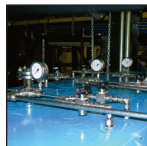
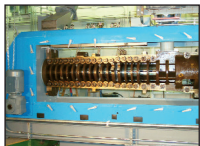
Crown and HF are continuing development of the HIPLEX® process. Strong technical knowledge and financial commitment allow HF and Crown to investigate new potential uses of the HIPLEX® process.

FEATURES & BENEFITS

- Ideal enhancement to conventional mechanical pressing
- Hexane free
- Higher oil removal than conventional mechanical pressing
- Produces a natural and/or organic meal and oil
- Ideal for operational capacities up to 500 TPD
- Produces meal with lower residual oil



HIGH PRESSURE LIQUID EXTRACTION (HIPLEX®)



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