



# Corn Fractionation



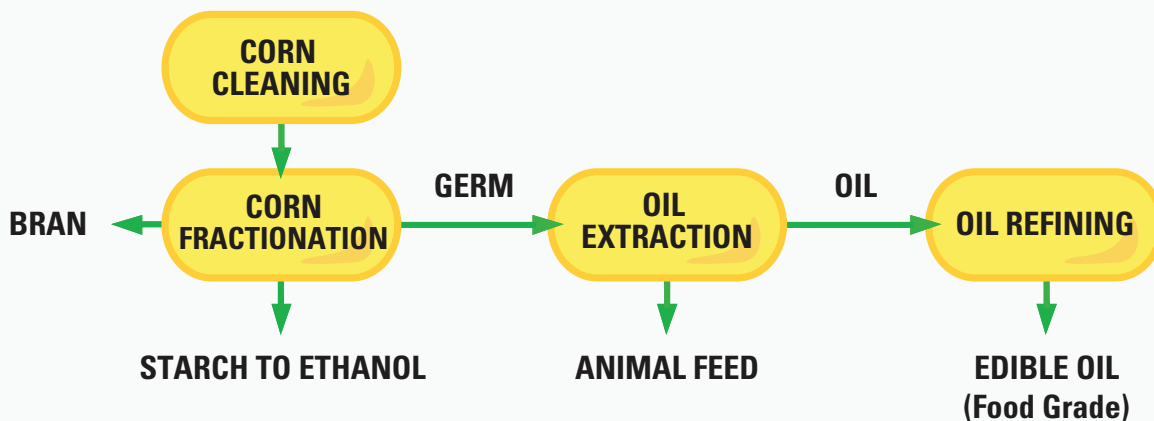
## ABOUT CPM CROWN'S FRACTIONATION SYSTEM



CPM Crown's Fractionation System separates corn into three components: starch, germ and bran. Separating the non-fermentable products such as germ and bran from the starch increases an ethanol plant's efficiency and throughput per bushel and is the first step to creating value-added co-products.

This process begins with the corn being tempered, which enables the corn to absorb moisture required for fractionation. The tempered corn is conveyed to the degerminator where it is fractured, separating the starch while maintaining the integrity of the germ. The fractionated corn is screened and aspirated, separating the starch, germ and bran. The starch is sent to the ethanol plant and the bran to storage for sale. The germ is then milled and screened producing a high-quality product for either sale or further on-site processing.





## For game-changing innovation, partner with Crown.

CPM Crown's Global Innovation Center is a facility unlike any other. A fully functional 15,000 sq. ft. pilot plant, analytical lab and training facility, the GIC offers piloting capabilities from benchtop lab scale to multiple tons per day of continuous production, simulating real life and enabling customers to develop and test new product concepts in a confidential, controlled environment. The GIC has capabilities in preparation, extraction, desolventizing, drying, deodorizing, refining, fat splitting, renewable diesel and specialty extraction (including Hemp CBD Oil). Crown's technical expertise, R&D and full lifecycle process provide guidance and support at every step from feasibility, trials and custom processing to commercial-sized operations and aftermarket.



## More Value-Added Processes

Crown understands the need for process flexibility. An important feature of Crown's fractionation system is the rapid adjustment of starch and germ stream ratios to meet varying ethanol and oil production needs.

Adding Crown's Solvent Extraction and Oil Refining technologies converts the germ into two additional premium products: animal feed and edible oil. A typical kernel contains 4% oil that can be sold as food grade oil, which has more value than crude oil.

## Process Advantages:

- Low operating cost
- Low installation cost
- Established technologies

Feeding, Fueling and Building **a Better World.**



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