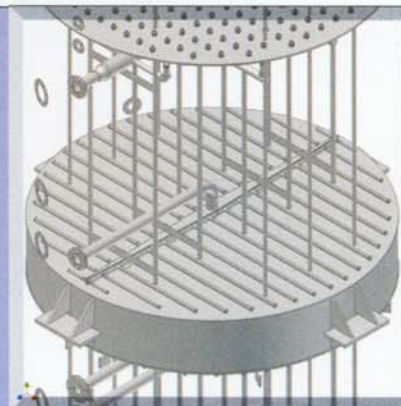




# Chromatography

ISS offers Simulated Moving Bed (SMB) and Simultaneous Simulated Moving Bed (SSMB) technology for commercial liquid separation processes. The technology is being used in small to large scale production (up to 5 meters in diameter) to produce a variety of high purity products.

ISS also uses several other types of chromatographic technologies such as ion exchange, adsorption, and partition, to name a few.



3-D SMB CAD Drawing

## Applications:

- Pharmaceutical
- Sweeteners
- Organic Acids
- Agrichemicals
- Beverages
- Fermentation Broths
- Proteins
- Biotechnology Products
- Natural/Food Extracts
- Glycerol, Monoglycerides
- Neutraceuticals
- Functional Food and Health Products



Building the SMB

## Chromatography Types:

- Adsorption
- Partition
- Ion Exchange
- Molecular Exclusion
- Affinity
- SMB
- SSMB



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