**SPECIALTY EXTRACTORS**

Continuous Solid/Liquid Extraction of Nutraceuticals, Botanicals, Specialty Chemicals, Beverage Flavors, Pharmaceuticals and Soils

**FEATURES & ADVANTAGES**
- Continuous counter-current extraction improves extraction efficiency
- Shallow bed technology provides good solvent product contact without short circuiting
- Wash products of reaction and reactants from solids
- Continuous extraction yields consistent, superior product
- Continuous operation requires minimal operator attention
- Sanitary, easy-to-clean designs also provide access for maintenance
- Time-proven design for alcohols, hydrocarbons, and other solvents
- Complete testing facilities and rental equipment available for testing and small production

**EXTRACTION PRINCIPLES**

**PERCOLATION TYPE, MODEL II, III, V**
- Liquid from top down for good draining materials, flakes, and leaves
- Self Cleaning bar screens prevent product plugging
- En masse conveyors minimize product breakage
- Stationary screens prevent solvent bypass
- Good drainage minimizes carryover
- Use separate solvents in one extractor
- CIP Design available

**IMMERSION TYPE, MODEL IV**
- Counter-current wash for granular materials that are heavier than solvent
- Complete bed turnover in extractor ensures good solvent product contact. Low liquid velocity minimizes loss of fines
- Gentle bed turnover minimizes product breakage
- Good drainage minimizes carryover
- Extended residence times possible
- CIP Design available

**MATERIALS PROCESSED**
- Alfalfa
- Almond hulls
- Anchovy meals
- Bark
- Coffee grounds
- Carrots
- Chicken parts
- Chlorophyll
- Coffee beans
- Corn germ
- Diatomite pellets
- Drink flavors
- Fermentation products
- Fish meal
- Herbal products
- Hops
- Marigolds
- Natural rubber
- Oats
- Pine Needles
- Polluted soils
- Proteins
- Pyrethrum
- Red peppers
- Specialty Oil Seeds
- Silica gel
- Soy protein concentrate
- Soybean flakes
- Tar sands
- Vanilla
- Wood chips
- Wood pulp
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- Wood pulp
- Specialty Extraction
- Extrac
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- www.crowniron.com

CROWN MODEL IV AND MODEL V EXTRACTORS