

## Bottom of the Barrel Configurations

### Solvent Deasphalting (SDA) / Extraction

SDA - Volatile Recovery from Slurries:

- 1 Flash Feed
- 2 Contact Heat Evaporation
- 3 Vacuum Evacuation
- 4 Weir System

SDA - Solidification of Residues:

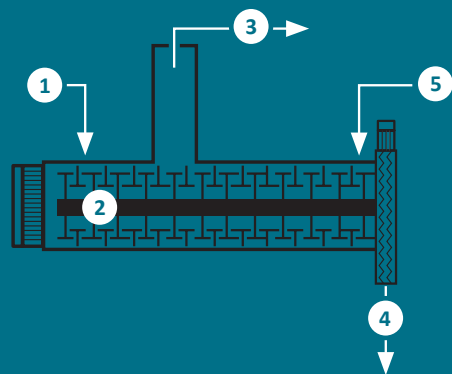
- 1 Pump Feed
- 2 Contact & Evaporation Cooling
- 3 Evacuation
- 4 Weir System & Cooling Screws

### Deep Cut / Pre-Coking

- 1 Flash Feed
- 2 Contact Heat Evaporation
- 3 Deep Vacuum Evacuation
- 4 Viscous: Twin-Screw & Gear Pump  
Low Viscous: Weir System & Surge Drum

### Pitch-Carbon Fibre Precursor

- 1 Pump Feed
- 2 Contact Heat Polymerization
- 3 Volatile Evacuation
- 4 Viscous: Twin-Screw  
Suspension: Weir System
- 5 N<sub>2</sub> Inlet (optional)



## Unique Versatile Processing Technology Platform

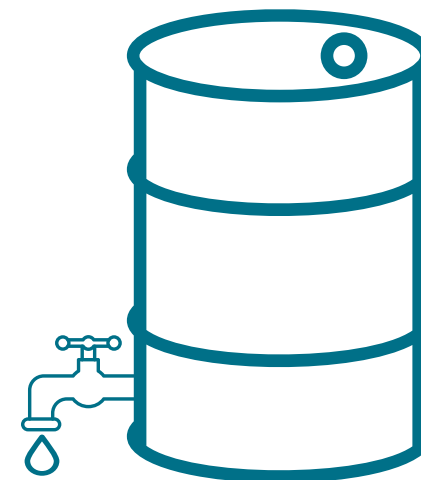
- All-Phase Processors
- Kneading, Mixing, Drying all-in-one
- Liquid-, Solid-, Gas-Phase all in one
- Continuous Processing
- Worldscale Capacities
- >55 Years Industrial Experience
- Multi-Bay Testcenter for Piloting



Details on our product-website  
[www.list-bob.com](http://www.list-bob.com)

**LIST**    
Kneading - Mixing - Drying

## Ready for Bottom of the Barrel Innovations?



 **Upgrading**  
 **Recovery**  
 **Solidification**

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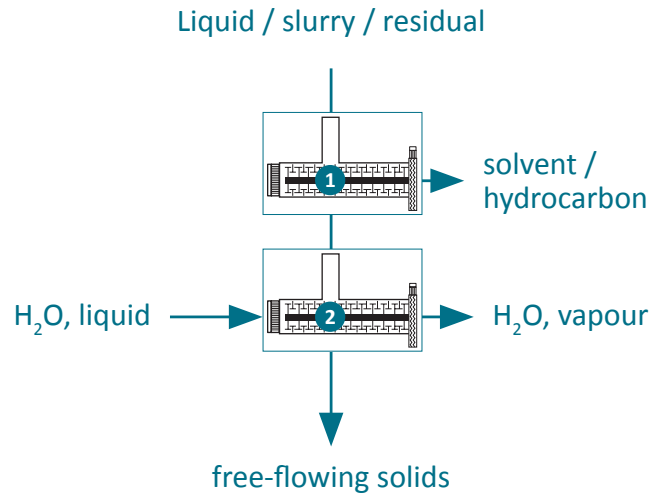


[www.list-technology.com](http://www.list-technology.com)

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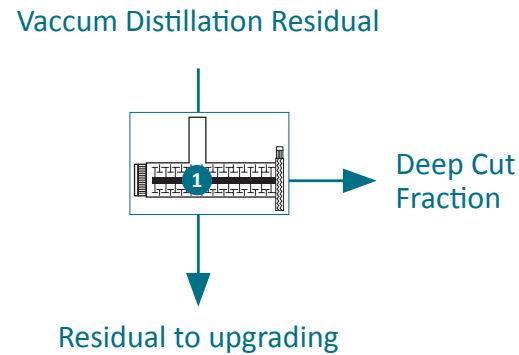


## SDA Solvent Deasphalting / Extraction



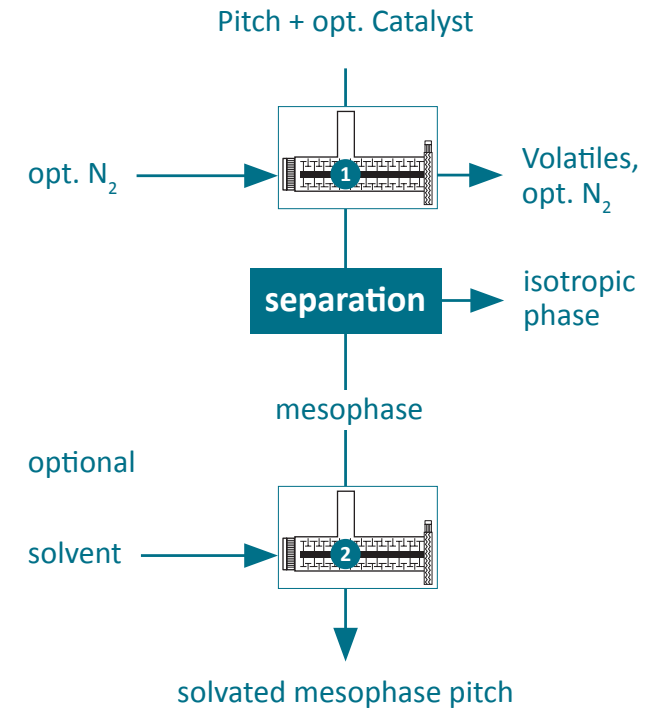
- ① Solvent and hydrocarbon recovery
  - efficient energy input
  - high recovery efficiency
- ② Phase transfer into handable, disposable solids
  - no emissions
  - robust, reliable operation

## Deep Cut / Pre-Coking



- ① High vacuum distillation
  - large capacities
  - maximization of yield

## Pitch - Carbon Fibre Precursor



- ① Polymerization of large aromatic compounds
  - increase of softening point
  - high yield of liquid crystalline mesophase
- ② Solvatization of mesophase pitch
  - creation of lower melting mesophase