



# Smart Batch Pan

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**SUSTAINABLE ENVIRONMENT DEVELOPERS**  
(Formerly Spray Engineering Devices)

# Smart Batch Pan

## Salient Features

Smart Batch Pan with Honey Comb Calandria and Mechanical Circulator is the most energy efficient Pan available in Pakistan. If you are planning to install a new batch pan, SED's Smart pan is the best choice with highest return on Investment. You can also update your existing batch pans with the latest honey comb Calandria to increase the heating surface, sugar yield and energy efficiency.

- Suitable for all types of massecuites (A, B, C and Refine ).
- Least colour inclusion during crystallization to produce more bold crystals.
- High steam economy by use of high syrup brix and low temperature vapours.
- Highest crystal growth and higher sugar yield.
- Operation at 25-100% capacity without using movement water.
- Essential wetted parts in stainless steel to reduce colour additions.
- Highly volumetric flow Mechanical Circulator.
- Improved circulation through Honeycomb calandria.
- Flexibility to operate on bottom discharge.
- Modular chamber pre-fitted with instruments to reduce erection time.
- Less power consumption with low rpm circulator.
- Highly efficient by using Planetary Gear Drives.
- New modified design of hub holds the blades firmly.
- Detachable blades provide more flexibility as per process requirement.
- The most suitable and compact design, for centrally draft tube calandria batch pans.
- May operated on full automation reduced supervision system for precise operation.



## Advantages

- Improved heat transfer leads to higher crystallization rate and increased throughput.
- Use of vapours from later evaporator effect becomes possible (V3 or V4).
- Lower sugar colour due to uniformity of fluid condition within the vacuum pan.
- Good circulation prevents stagnant regions, hot and cold zones that can induce differences in the super saturations level and crystal growth rate.
- Reduce formation of fine grains & conglomerates.
- Abrasion effect by friction of circulating crystal results less deposit (scale) on tube.
- Reduces centrifugation time and hot water consumption for sugar washing due to fewer amounts of conglomerates.
- Higher purity massecuite concentration is possible.
- Compact and most efficient planetary drives results low power consumption.
- Easy maintenance with less wear and tear.
- Cost effective, quick and easy installation.