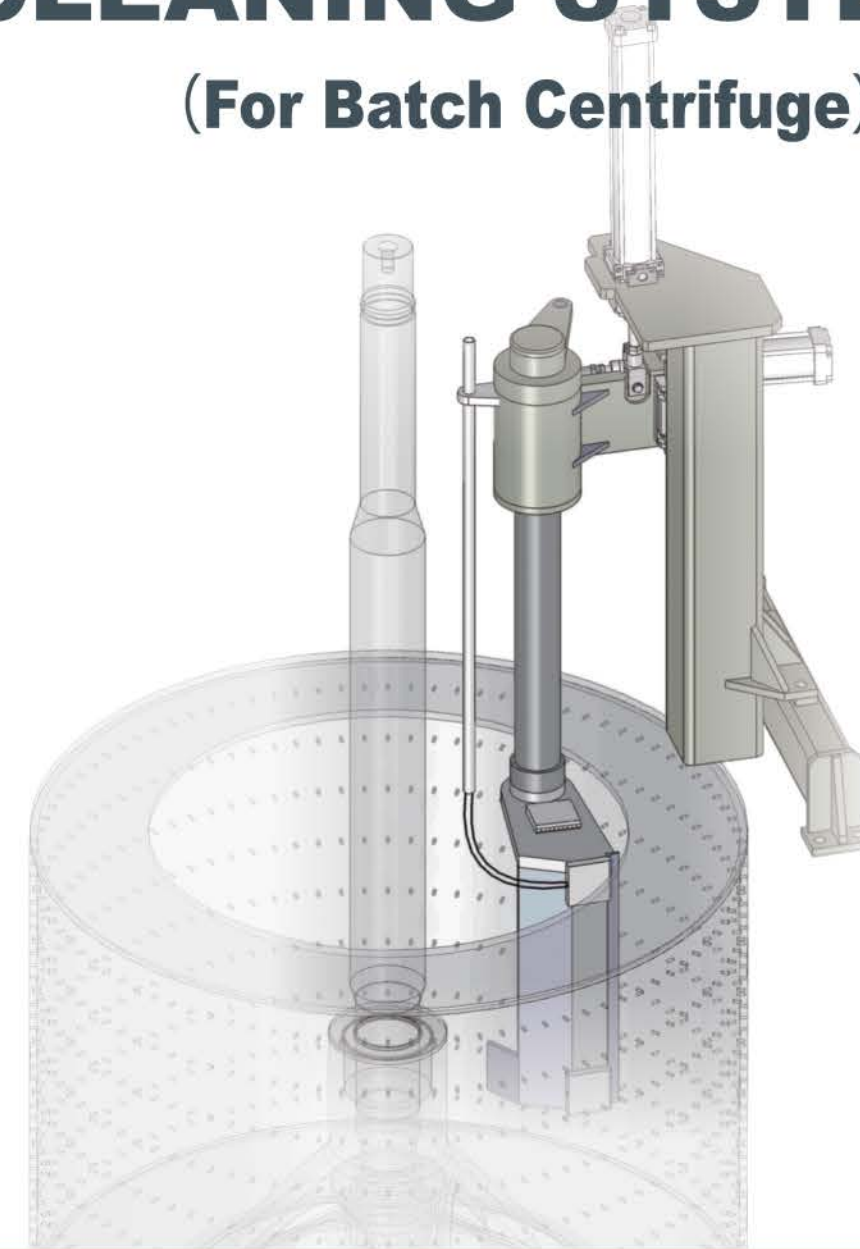




# CENTRIFUGE AIR JET CLEANING SYSTEMS

(For Batch Centrifuge)



## Skatoskalo International Limited

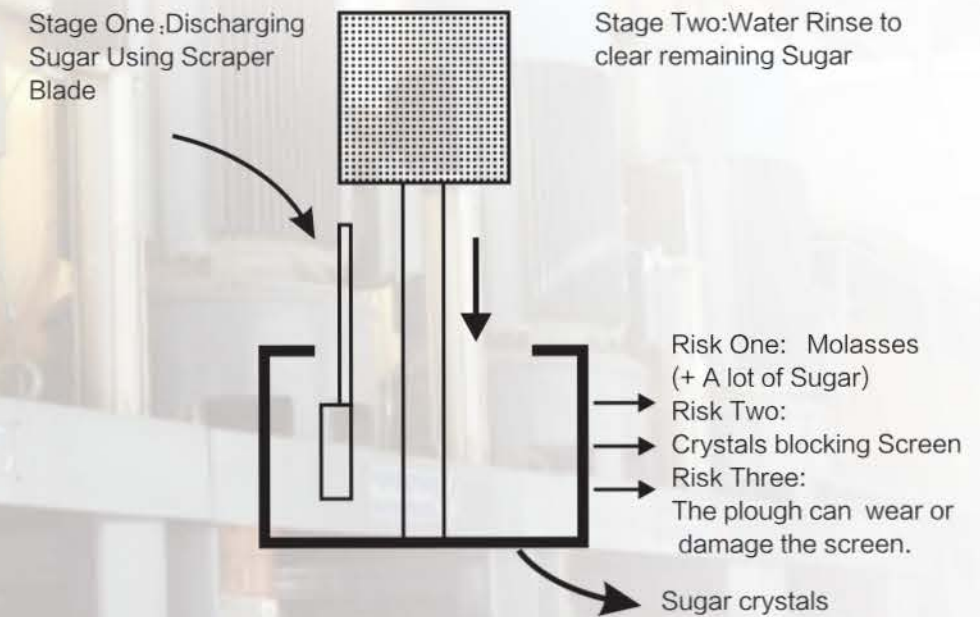
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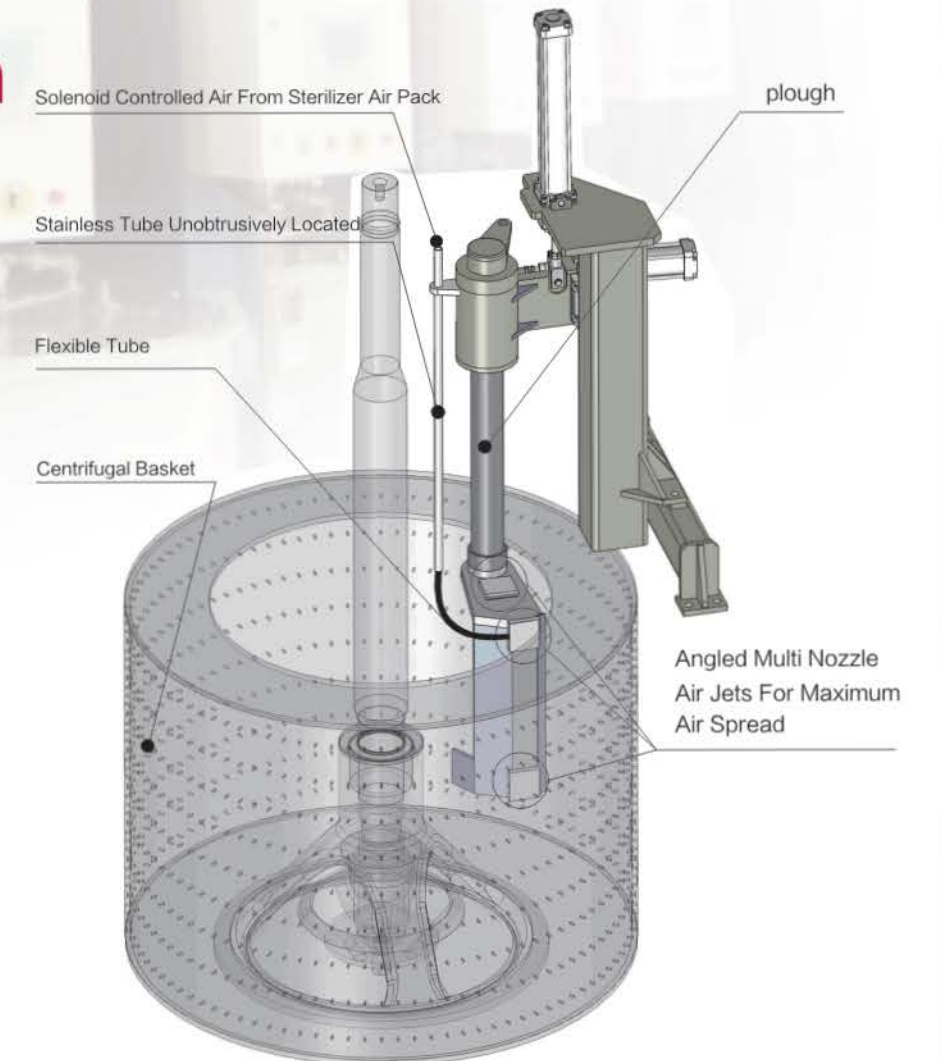
## Current problems for batch centrifuges

- Most centrifugals leave a layer of sugar in the centrifugal basket during washing and ploughing (discharging).
- None of the centrifugals can remove 100% of all the sugar from the screen. Close plough proximity can result in screen wear or damage.
- Any crystals left in the basket are washed out before the next cycle reducing the sugar yield.

## Current batch centrifuge discharge process

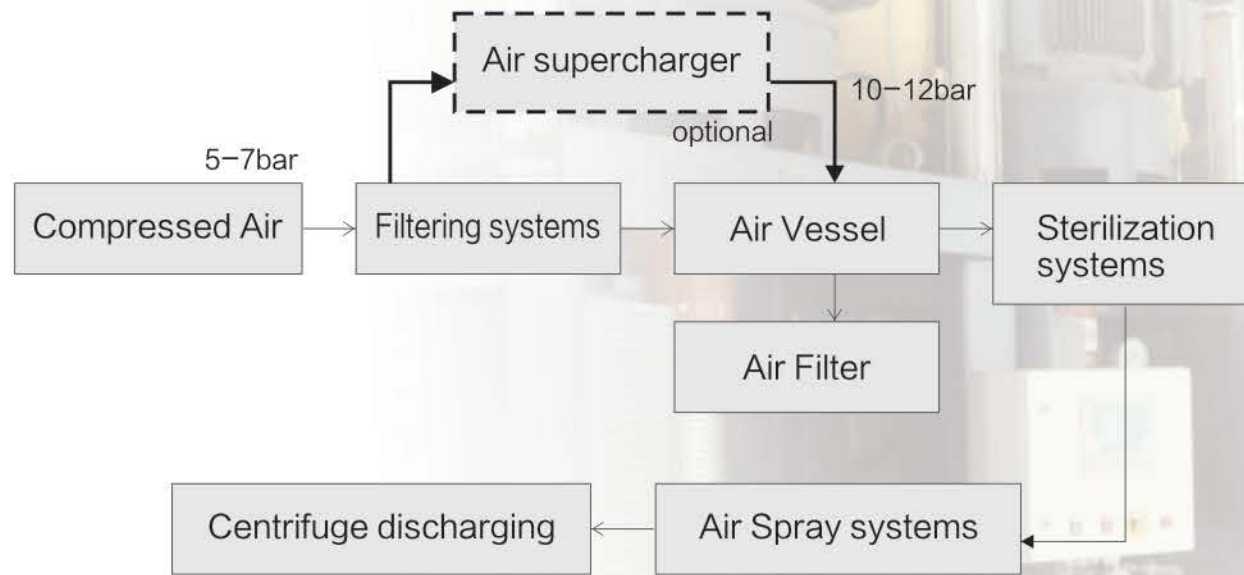


## Solution

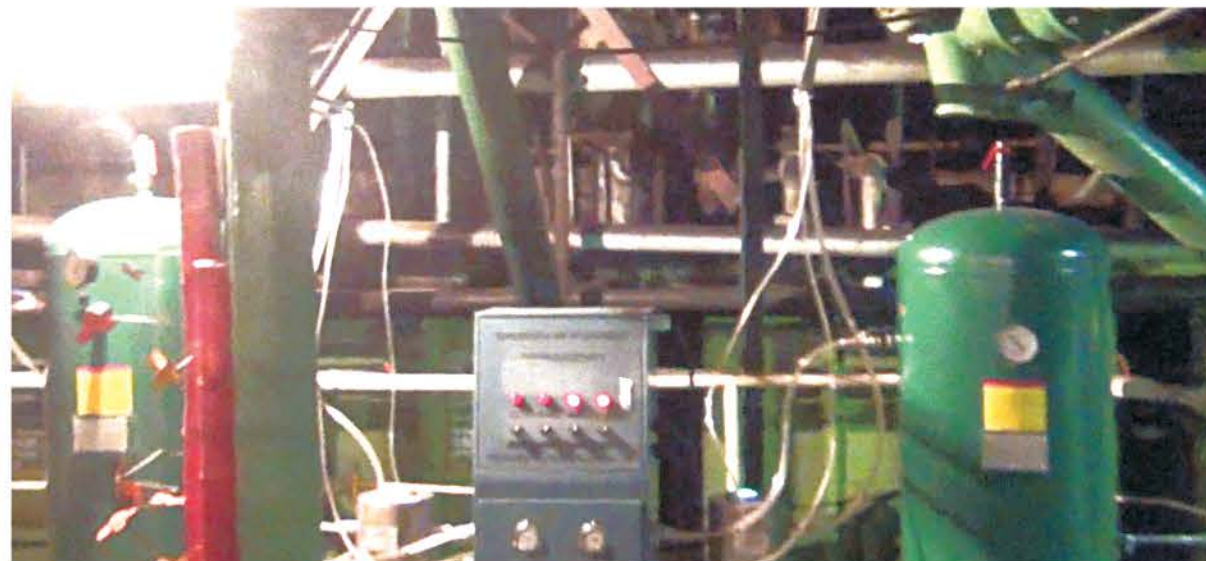


Layers of sugar are often left on the screen after discharging.

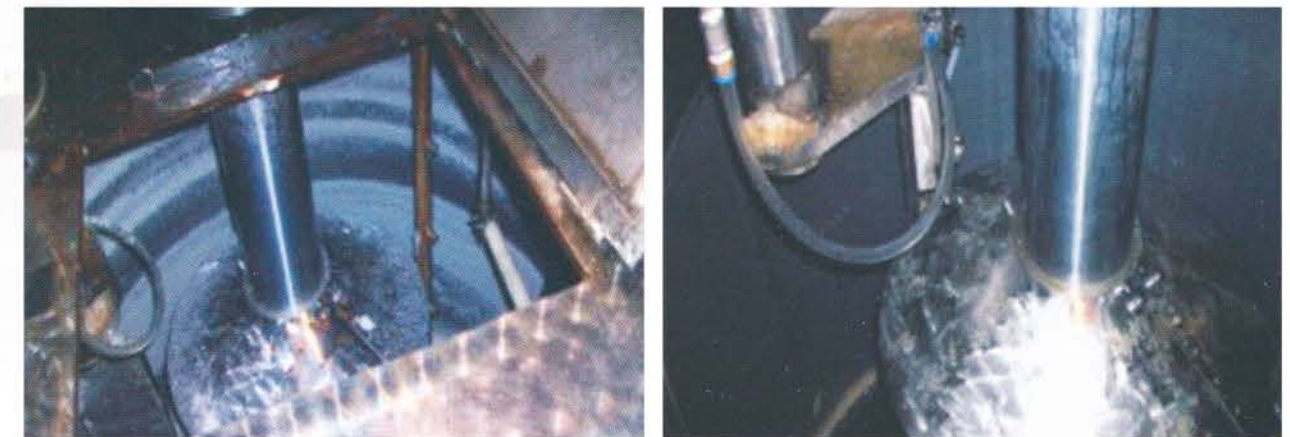
## Solution



## Air Jet Systems In Real Production



## Effective Air Jet Solutions



No Air Jet

With Air Jet

## Benefit From Air Jet Cleaning Systems

### 1. Efficiency & Energy saving:

Comparison(1750kg/charge)	No Air Jet	With Air Jet
Save washing screen time	0	10s-20s
Seconds per cycle	190	180
Cycles per hour	19	20
Cycles per day	456	480
Capacity( t/day)	798	840
Energy saving per season ( Assuming 120 days, with 250kw motor )	$( 480-456 ) \times 120 \times 2.5 \times 0.5/6=600\text{USD}$	

**2. Sugar yield:**

Comparison ( 1750kg/charge )	No Air Jet	With Air Jet
Thickness of sugar layer left in the basket	2mm	0
Sugar left in basket per cycle	10kg	0 kg
Washing sugar per hour	19 × 10=190kg	0 kg
Washing sugar per day	190 × 24=4560kg	0 kg
Washing sugar per crushing season(120days)	4.56t × 120=547.2 t	0 kg
Energy lose per season ( Assuming the re-processing costs is 30.8 USD per tonne then the cost per crushing season is )	547.2 × 30.8=16,854USD	0 USD

**3. Screen protection:**

Comparison ( 1750kg/charge )	No Air Jet	With Air Jet
The screen might be weared or damaged (replace piece/crushing season)	2	0
The price of screen	2000USD	0
The cost of screen replacement per crushing season	2 × 2000=4000 USD	0

## Investment Analysis

( One Batch Machine For One Crushing Season )

Cost Comparison ( 1750kg/charge )	No Air Jet	With Air Jet
1、Efficiency & Energy saving	600USD	0
2、Sugar yield	16,854USD	0
3、Screen protection	4000USD	0
Total	21,454USD	0

## Service

- 1、Skatoskalo CENTRIFUGE AIR JET CLEANING SYSTEMS can fit any type and any brand centrifuge;
- 2、It is easy for installation, low cost for maintaining;
- 3、Skatoskalo customer base covers more than 70 countries, our agents and engineers are committed to good service backup.

