

# Air Screen

Efficient Screening & Dedusting Solution



In technical collaboration  
**KEMCO** Japan

 **L&T Metallurgical & Material Handling**

## About Larsen & Toubro

Larsen & Toubro is a multi-billion dollar technology, engineering, construction, manufacturing and services conglomerate with global operations. A strong, customer-focused approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business for over seven decades.

## L&T Metallurgical & Material Handling

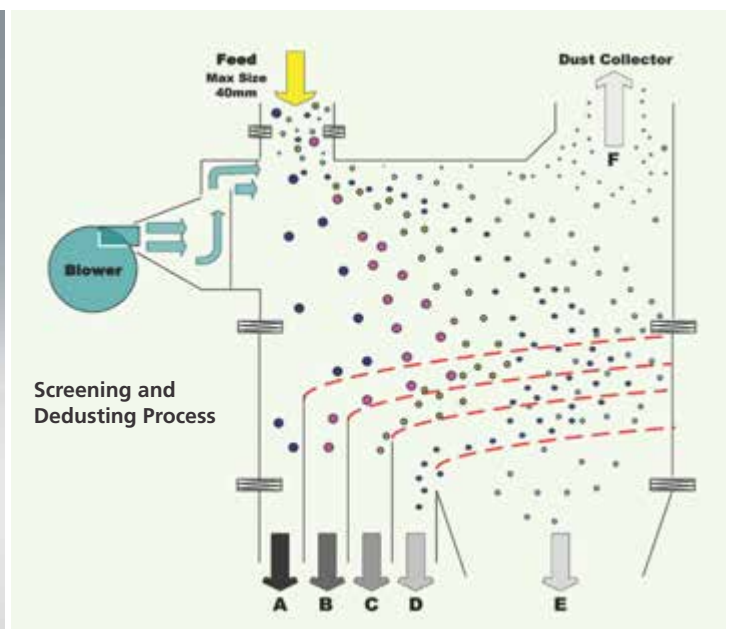
L&T is India's market leader in engineering, procurement and construction of ferrous and non-ferrous metallurgical projects, as well as Bulk Material Handling systems for core sectors. The Metallurgical and Material Handling business unit undertakes design, manufacture and supply of the complete range of crushing systems and equipment, surface miners, advanced sand manufacturing solutions, in addition to critical machinery and parts for steel and paper industries. Strategic technology alliances with global leaders in specific businesses, backed by decades of in-house engineering and manufacturing expertise, enable L&T to offer its customers superior end-to-end solutions.

## e-Sepa: Screening and Dedusting System

The L&T e-Sepa system offers the benefit of higher efficiency screening and dedusting using a single machine. Manufactured in collaboration with the globally acknowledged leaders in field of sand manufacturing plants, KEMCO of Japan, this compact, highly versatile system meets all your screening needs.

### The e-Sepa Advantage

- **Screening and de-dusting using a single system**  
Up to 4 decks of screens can be installed to achieve grades ranging from coarse aggregate to micro fines
- **Higher screening efficiency**  
The e-Sepa system offers up to 3 times more screening efficiency in comparison to conventional mechanical screening systems
- **Air-washing for better separation**  
Residual dust on the surface of particles are separated/ washed away by air
- **Compact body size**  
Sieve area is just one-third of the conventional mechanical screen size
- **Environmentally friendly**  
The e-Sepa system's closed circuit design eliminates dust emission during operation
- **Easier maintenance**  
Sieve meshes are easily interchangeable and reduce clogging of meshes

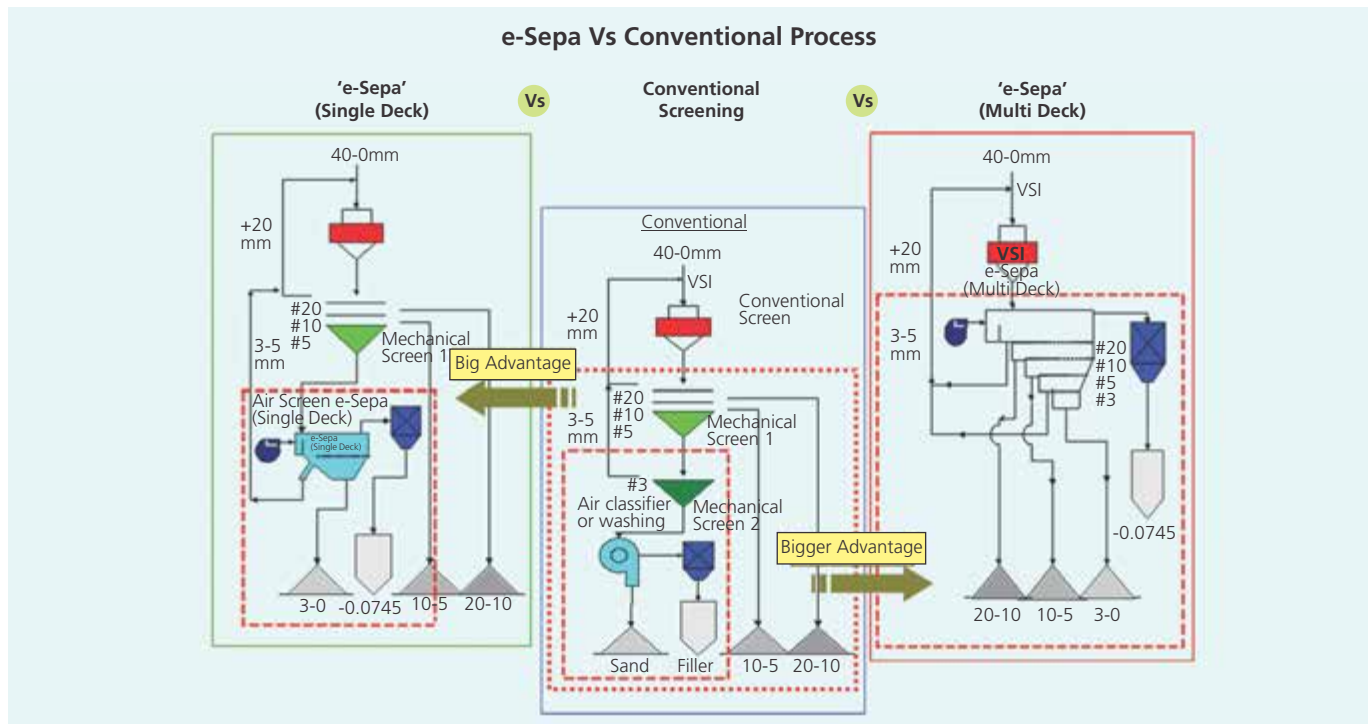
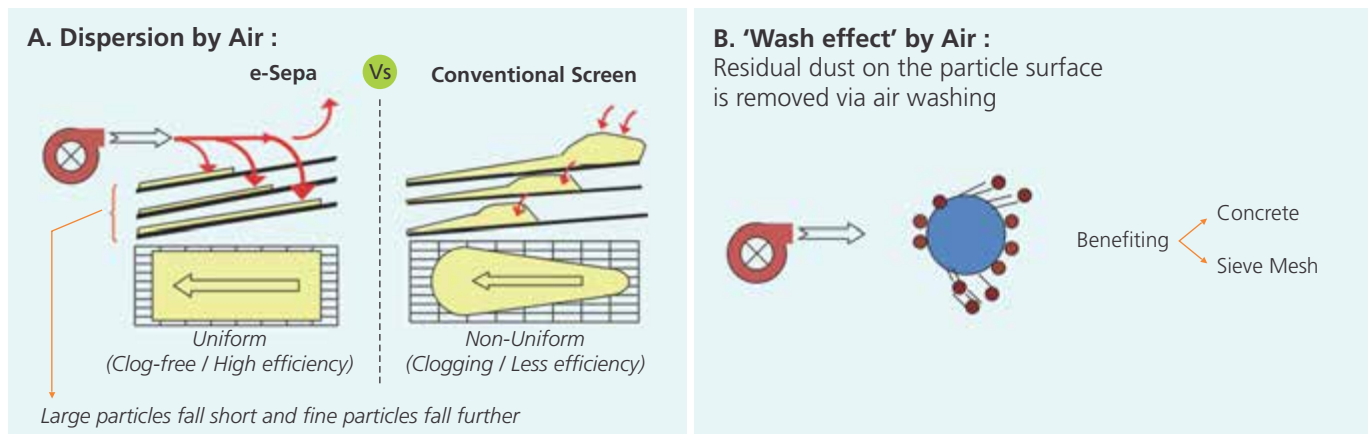


## The e-Sepa Magic Box

The e-sepa Magic Box system addresses the problems posed by the conventional process of screening and dedusting. It enables efficient separation of up to 5 different levels of fineness. Separation at (-)1 mm can be done easily.

Conventional Process Problems	e-Sepa MagicBox Solutions
Screen clogging and jamming - tertiary screen often blinds / jams due to excessive filler	Precise aggregate screening - up to 5 separations, ranging up to - 1 mm
Unclean aggregates. Filler material often clings to coarser aggregates	Clean aggregates - free of dust and clay particles
High filler content in crusher dust - requires washing or dedusting	High quality sand produced - free from Ultra-fines

## e-Sepa Technology



## Industry Applications

- Aggregates
- Limestone
- Ceramics
- Recycling
- Slag



## e-Sepa Model Range

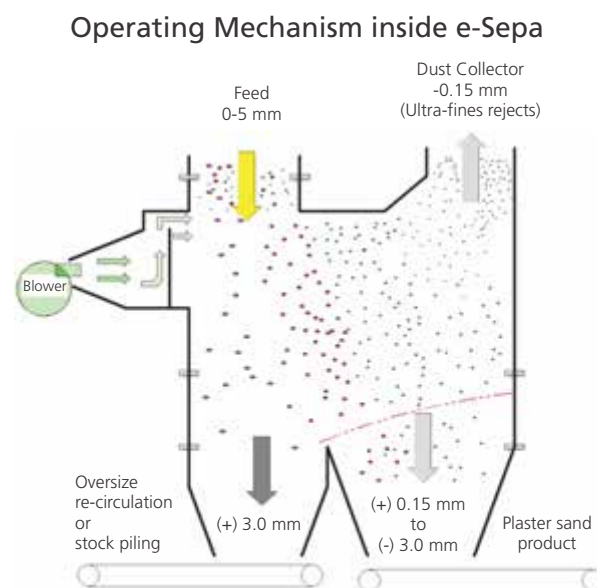
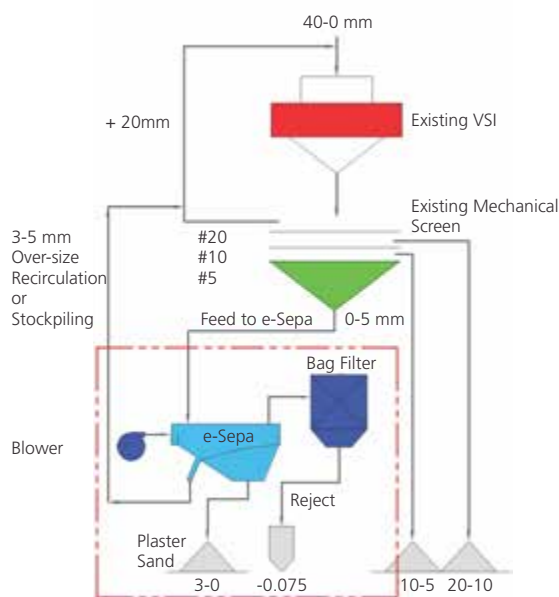
Separate 20, 13, 5, 3 mm from feed (-) 40 mm

Separate 1 mm from feed (-) 40 mm

Model	Capacity (TPH)	Dust collector capacity (m <sup>3</sup> /hr)	Model	Capacity (TPH)	Dust collector capacity (m <sup>3</sup> /hr)
e-Sepa 1200	100~120	360	e-Sepa 1200	15	280
e-Sepa 1900	150~190	699	e-Sepa 1900	20	480
e-Sepa 2500	200~250	800	e-Sepa 2500	30	600

## Use of Single deck e-Sepa for Plaster Sand Manufacturing

L&T e-Sepa produces air classified (-) 3 mm plaster sand with precisely controlled ultra fines as well as top size. Efficient screening can be done even at 1mm or 2mm to produce superfine sand for different applications.



## Model Range

1. Separate 3 mm from (-) 5 mm feed

Model	Capacity	Dust collector capacity (m <sup>3</sup> /min)
e-Sepa 1200	50	380
e-Sepa 1900	80	600
e-Sepa 2500	100	800

2. Separate 1 mm from (-) 5 mm feed

Model	Capacity	Dust collector capacity (m <sup>3</sup> /min)
e-Sepa 1200	15	280
e-Sepa 1900	20	480
e-Sepa 2500	30	600

## L&T's Range of Advanced Sand and Aggregate Solutions

### e7 Sand Plant

#### e7 Sand Plant

e7-40 (40tph), e7-60 (60tph), e7-100 (100tph)  
Manufacturing of river quality engineered sand from crusher dust

### SAC

#### Superior Air Classifier

SAC: 1600 (80tph), 2500 (120tph), 3900 (200tph)  
Air classification of sand controlling ultra-fines in crusher dust

### e-Sepa

#### Air Screen 'e-Sepa'

e-Sepa: 1200 (120tph), 1900 (190tph), 2500 (250tph)  
Screening of aggregates (0-40mm) & air-classification of sand

#### Vertical Shaft Impactors

VSI Dry - VS-301H, 322H, 394H  
VSI Wet - VS 322HW, 394HW  
Finer crushing & shaping of aggregates



A brand of Larsen & Toubro Limited

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