



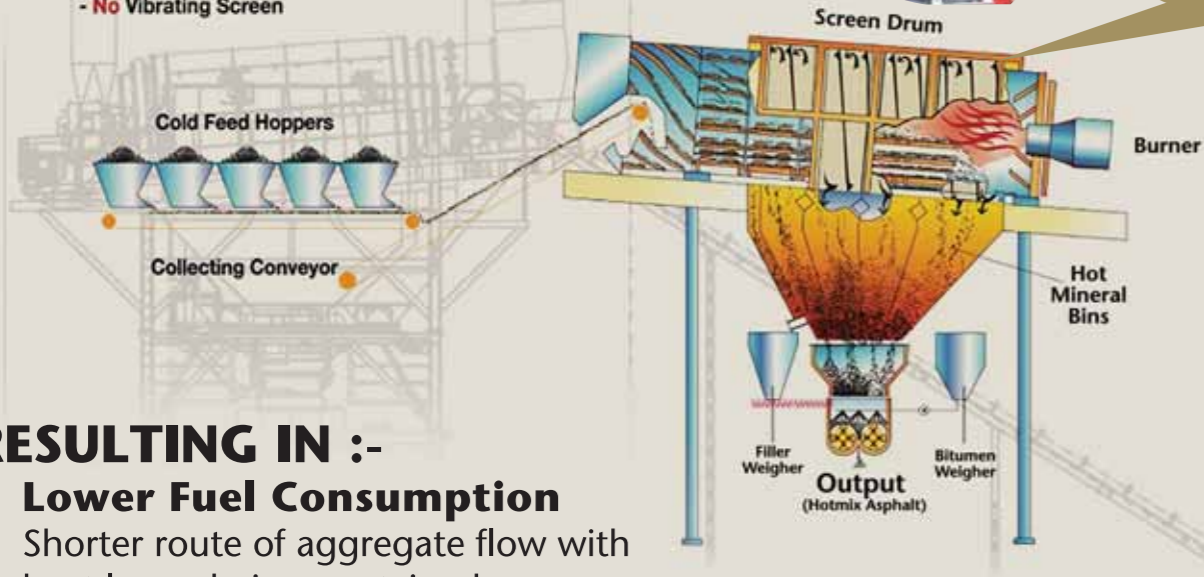
# CONVENTIONAL ASPHALT PLANT VS LINNHOF SCREEN DRUM

## LINNHOF SCREEN DRUM



### LINNHOF SCREEN DRUM ASPHALT PLANT

- No Hot Elevator
- No Vibrating Screen

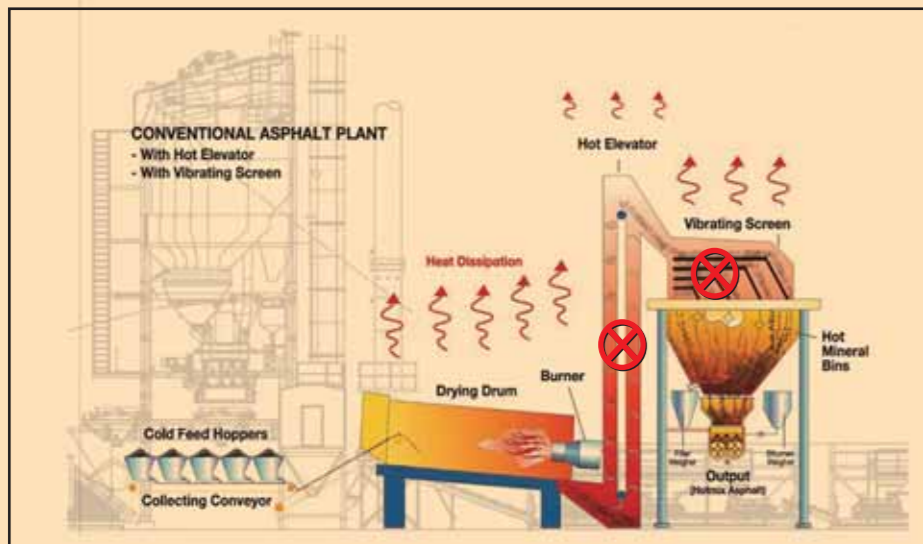


### RESULTING IN :-

- **Lower Fuel Consumption**  
Shorter route of aggregate flow with heat losses being contained.
- **Lower Maintenance Cost**  
No need to change worn-off buckets, bearings, chain etc. as Hot Elevator is not required.

Hence, Lower Operating Cost with LINNHOF SCREEN DRUM ASPHALT PLANT

## CONVENTIONAL ASPHALT PLANT



### RESULTING IN :-

- **Higher Fuel Consumption**  
Longer route of aggregate flow, with unnecessary heat dissipation from uninsulated dryer drum, Hot Elevator and Vibrating screens
- **Higher Maintenance Cost**  
Constant changing of worn-off buckets, bearings, chain, sprockets etc. of Hot Elevator.

⊗ Linnhoff system requires **NO HOT ELEVATOR & NO VIBRATING SCREEN**

Hence, Higher Operating Cost with Conventional Asphalt Plant

## Other Plant Models



... Delivery made simple in just seven trucks!

Authorized Distributor

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# CompactMix Asphalt Plant

## CompactMix Asphalt Plant



Designed with Portability for . . .

Easy Transportation

Quick Installation

Economical Operation





## LINNHOF CompactMix Asphalt Plant (Batch)

CompactMix Plant (CMX) with the latest design optimizes several innovative features. Having economical attributes to provide a facility of lowest cost production of Hotmix Asphalt without compromising its quality. CMX range of smaller plant capacities are premeditated for ultimate versatile operations.

### TECHNICAL SPECIFICATIONS

MODEL	CMX 1000	CMX 1250	CMX 1500	CMX 2000	FEATURES	BENEFITS
<b>CAPACITY*</b>	<b>60-80 TPH</b>	<b>80-100 TPH</b>	<b>100-120 TPH</b>	<b>120-160 TPH</b>		
<b>1. COLD FEED HOPPERS</b>						
VARIABLE SPEED BELT FEEDER						
No. of cold feed hoppers	3+1 (equipped with Vibrator)	3+1 (equipped with Vibrator)	3+1 (equipped with Vibrator)	3+1 (equipped with Vibrator)	Endless belt feeder	Maintenance free
Volume of each hopper	6m <sup>3</sup>	6m <sup>3</sup>	6m <sup>3</sup>	9m <sup>3</sup>	Shaft mounted gear motor	Less power consumption
Feeder belt capacity	40 TPH	50 TPH	60 TPH	80 TPH	Frequency inverter control	Better accuracy
Feeder belt drive motor	4 X 1.1 kw	4 X 1.1 kw	4 X 1.5 kw	4 X 1.5 kw		
<b>2. COLLECTING BELT</b>						
ENDLESS BELT						
Capacity	80 TPH	100 TPH	120 TP	160 TPH	Endless belt	Maintenance free
Drive Motor	3 kw	4 kw	5.5 kw	5.5 kw	Shaft mounted gear motor	Less power consumption
<b>3. THROW BELT</b>						
CLEATED BELT						
Capacity	80 TPH	100 TPH	120 TP	160 TPH	Endless belt (no elevator)	Maintenance free
Drive Motor	3 kw	4 kw	5.5 kw	9.2 kw	Shaft mounted gear motor	Less power consumption
<b>4. DRYING &amp; SCREENING DRUM</b>						
INCLINED SCREEN DRUM						
Drying Capacity	60 TPH	80 TPH	100 TPH	160 TPH	Rotary Screens	Less wear & tear on screens
Drum (Dia. X Length)	1.4 X 6.3	1.7 X 6.3	1.7 X 6.3	1.8 X 8.5	(Non vibrating)	Better Heat Utilization
Drum drive motor	18.5 kw, chain drive	22 kw, chain drive	30 kw, chain drive	4 X 11 kw, friction drive		
No. of Screen sections	5 sections (2 for sand)	5 sections (2 for sand)	5 sections (2 for sand)	5 sections (2 for sand)		
Total Screening area	20m <sup>2</sup>	25m <sup>2</sup>	28m <sup>2</sup>	46m <sup>2</sup>		
<b>5. BURNER c/w Blower</b>						
FULLY ENCLOSED, HIGH PRESSURE						
Type of Fuel	Diesel/Heavy Fuel Oil/Gas **	Diesel/Heavy Fuel Oil/Gas **	Diesel/Heavy Fuel Oil/Gas **	Diesel/Heavy Fuel Oil/Gas **	High pressure burner	Less fuel consumption
Heat Output	3.9 MW	5.25 MW	7.25 MW	12 MW	Enclosed Type, Monobloc	Low noise level
<b>6. HOT MINERAL BINS</b>						
4 COMPARTMENTS WITH OVERFLOW & OVERSIZE CHUTE						
Total Capacity	20 tons	20 tons	20 tons	20 tons	Generous Capacity	Sufficient material for batching, Less plant downtime & overflow
Discharge Flap	4 pneumatic actuator	4 pneumatic actuator	4 pneumatic actuator	4 pneumatic actuator		
Compressor	750 LPM @ 7 bar & 5.5 kw	1000 LPM @ 7 bar & 7.5 kw	1000 LPM @ 7 bar & 7.5 kw	1250 LPM @ 7 bar & 11 kw		
<b>7. WEIGHER SYSTEM</b>						
LOADCELL, ELECTRONIC WEIGHING						
Aggregate weigher	1000 kg	1250 kg	1500 kg	2250 kg	2 stage mineral flap	Better dosing accuracy
Capacity Discharge	2 x pneumatic actuated flap	2 x pneumatic actuated flap	2 x pneumatic actuated flap	2 x pneumatic actuated flap		Shorter cycle time
Filler weigher	100 kg	120 kg	150 kg	187.5 kg	Butterfly valve	No filler leakage
Capacity Discharge	2 x butterfly valve ( Pneumatic)	2 x butterfly valve ( Pneumatic)	2 x butterfly valve ( Pneumatic)	2 x butterfly valve ( Pneumatic)		
Bitumen weigher	100 kg	120 kg	150 kg	187.5 kg	Gravity Discharge	Less oxidation
Capacity Discharge	Gravity Flow	Gravity Flow	Gravity Flow	Gravity Flow		
<b>8. MIXER</b>						
TWIN SHAFT SYNCHRONIZED SPUR GEAR						
Mixer Capacity	1000 kg	1250 kg	1500 kg	2500 kg	Larger paddles arms & tips (Ni-Hard Liners)	Shorter mixing time
Mixer Drive motor	2 x 15 kw	2 x 18.5 kw	2 x 22 kw	2 x 37 kw		Homogeneous mix
<b>9. POLLUTION CONTROL</b>						
A) BAGHOUSE FILTER **						
Filter area	268 m <sup>2</sup>	321 m <sup>2</sup>	387 m <sup>2</sup>	528m <sup>2</sup>	Differential pressure, ambient air cleaning system	Lower fuel consumption
Exhaust fan drive motor	37 kw	45 kw	55 kw	75 kw	(no air compressor)	Longer bag service life
Damper	servo motor driven	servo motor driven	servo motor driven	servo motor driven	Aluminum cages	Maintenance free
Recuperated filler hopper	9m <sup>3</sup>	9m <sup>3</sup>	9m <sup>3</sup>	12m <sup>3</sup>		<0.02 g/m <sup>3</sup> dust emission
Filler screw conveyor	1 x 4 kw	1 x 5.5 kw	1 x 5.5 kw	1 x 7.5 kw		
B) MULTI-CYCLONE / WET SCRUBBER **						
Exhaust Fan Capacity	25,500 m <sup>3</sup> /hr	29,000 m <sup>3</sup> /hr	32,500 m <sup>3</sup> /hr	51,500 m <sup>3</sup> /hr	Composed of several cyclones	Multi-cyclones has more separation efficiency than single cyclone.
Exhaust Fan Drive Motor	37 kw	45 kw	55 kw	75 kw		<0.2 g/m <sup>3</sup> dust emission
<b>10. CONTROL ROOM</b>						
CENTRALIZED CONTROL & POWER PANEL						
Cabin Type	Container with glass windows at front & both sides insulated, dust proof & air conditioned				European made components & cable	Durable & no electromagnetic interference
Control	Pentium computer 19" monitor, printer, pre-loaded Widows Operating System, pre-loaded Linnhoff control software, keyboard micro series PLC, switch gear & control gear housed within power and control panels				Soft starter	Lower power consumption
<b>11. HOT STORAGE SILO **</b>						
1 / 2 / 4 COMPARTMENTS, RECTANGULAR SECTION						
Silo Capacity	20 / 80 / 150 tons	20 / 80 / 150 tons	20 / 80 / 150 tons	20 / 80 / 150 tons	Mineral wool insulation	Longer storage time
Winch drive system	1 x 18.5 kw motor	1 x 22 kw motor	1 x 30 kw motor	2 x 22 kw motor	Special bucket discharge	Minimise segregation
Heat preservation	Fully insulated silo and electrically heated discharge cones					
Mix discharge	Pneumatic actuated discharge gate					
<b>12. STEEL FOUNDATION **</b>						
Rapid Set-Up Steel Foundation	One set of steel foundation				Reusable Steel Foundation	No concrete & heavy foundation required, ensures quick & easy setup.

\* As per standard performance conditions.  
 \*\* Optional item  
 Note: Rights for improvement and alteration to specifications above reserved.



\*\* Optional

## CMX PLANT'S MAIN COMPONENTS

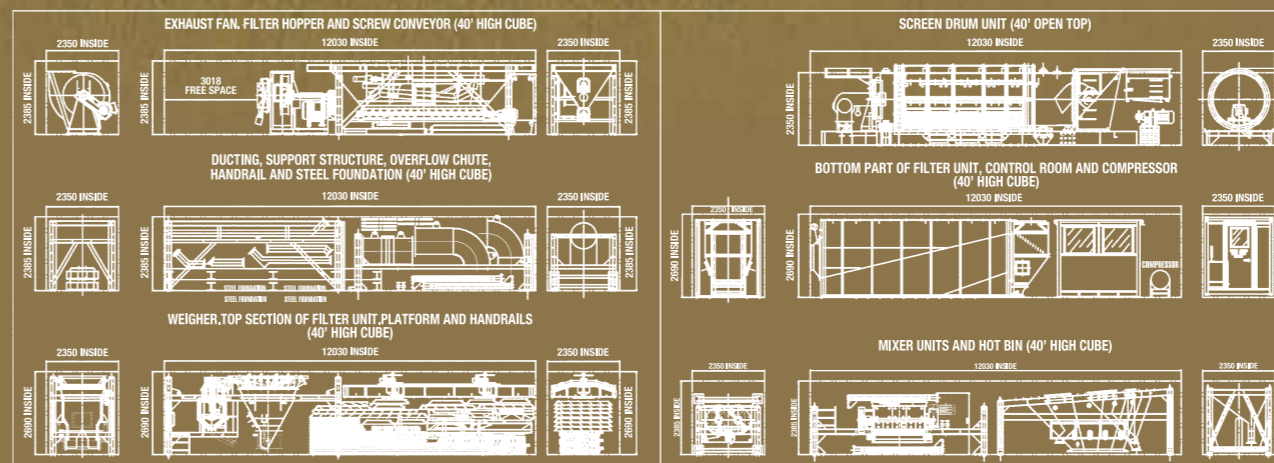
### COMPACT DESIGN

Compact design coupled with high performance. Linnhoff's modular plant does not require Hot Elevator and Vibrating Screens. Thus area for plant lay-out is also reduced. Linnhoff Screen Drum concept utilizes dual functions of drying and screening of aggregates ensuring very short route of aggregate flow to the hot bins. Screen Drum concept minimizes utilization of moveable parts by lowering maintenance cost. So, Lower Fuel Consumption and Lower Maintenance Cost result in Lower Operating Cost. Plant users appreciate Linnhoff's plant competitive investment with Lower Operating Cost.

### CUSTOM-FIT TO CONTAINERS

Each plant module are shippable via sea containers. This shipment method achieves lowest sea freight cost and fast land transportation. Shipment with container vessels are more frequent as compared to bulk cargo. Each module fits well into containers and carted out easily at site.

### CMX SHIPMENT



### RAPID SET-UP STEEL FOUNDATION \*\* AND PLUG & PLAY

Foundation of the plant ensures solid stability over the compacted ground. No concrete or heavy foundation required. This facilitates quick set-up, optimizing time and performance hence reducing costs. This optional, reusable Rapid Set-Up Steel Foundation ensures fast installation at site as well as minimizing civil works construction. This method speeds up the assembly and re-assembly of plant set-up. All motors and electrical components come pre-wired from the factory, all connections are plug-in type.

## QUICK INSTALLATION

Linnhoff's modular design allows the plant to be easily transportable, elementary in set-up with its pre-assemble stackable units ; making the plant's assembly fast and easy. Its specific configuration having mechanism to compliment the installation at site with crane, module by module until the plant finally erected. Modularity made simple!

### Modular Structure

Module by module installation

