

K BLOCK LIGHTWEIGHT CONCRETE IN-LINE MIXER

The K Block In-Line Mixer has been especially designed for mixing lightweight concrete, producing a continuous supply of uniform and homogeneous lightweight concrete.

Advantages:

Fast: The in-line mixer can produce lightweight concrete at a rate of up to 45m³ per hour

Consistent Quality: The in-line mixer produces a uniform and homogeneous supply of lightweight concrete

Easy to Control: Once set, there is no need to adjust the in-line mixer. And you can stop and restart the mixer at any time

Continuous Supply: The in-line mixer supplies a constant feed of lightweight concrete to the site

Lightweight Concrete Production

In order to produce lightweight concrete - a normal weight mortar is first mixed. Then a foaming agent/foam generator is used to produce foam made of small strong air bubbles. The foam is then added to mortar and mixed together until a uniform lightweight product is achieved.

At sites, typically the mortar arrives in a ready-mix truck, and foam is sprayed into the back of the truck.

In-Line Mixer Use:



By using an in-line mixer, there is no need to spray foam into the ready-mix truck.

Simply follow the following steps:

Method 1:

1. Set-up the in-line mixer on a flat area on-site.
2. Set the in-line mixer controls to the desired lightweight concrete density
3. Pour the mortar from a ready mix truck into the loading hopper of the in-line mixer
4. Turn on the in-line mixer
5. A uniform, homogeneous lightweight concrete mixture comes out of the output hose
6. Using a pump, bucket or cart transport the lightweight concrete to where it is to be placed

Method 2: For buildings higher than 6 stories

1. The in-line mixer is set-up inside the building – on or close to the floor where the lightweight concrete is to be poured
2. Set the in-line mixer controls to the desired lightweight concrete density

3. Pour the ready mix trucks mortar into a pump and pump the mortar up to the floor with the in-line mixer and then into the mixer’s loading hopper
4. Turn on the in-line mixer
5. A uniform, homogeneous lightweight concrete mixture comes out of the output hose
6. Using a pump or cart transport the lightweight concrete to where it is to be placed

- | | |
|----------------|---|
| Feeder: | feeds the in-line mixer a fixed rate of mortar |
| In-Line Mixer: | mixes the mortar and air bubbles together – making lightweight concrete |

In-line Mixer Specifications

- | | |
|--------------------------|---|
| Weight: | 150kg |
| Dimensions: | Height: 0.8 m [adjustable]
Length: 2.4 m
Width: 0.6 m |
| Production Volume: | up to 45 m3 per hour |
| Density Range: | 400 – 1,800kg/ m3 |
| Electrical Requirements: | 380V |

Summary:

By using an in-line mixer, lightweight concrete production becomes quick, easy and fast.

Contact K Block Technology for information on the advantages of different lightweight densities and mix design options.

Available Models:

- Model: 15K: production volume: 1-15m3 per hr
 Model: 30K: production volume: 10-30m3 per hr
 Model: 45K: production volume: 20-45m3 per hr

Accessories:

- | | |
|--------------------|---|
| 1. Loading Hopper: | Weight: 80kg
Volume: 0.9m3
Dimensions: 1.2m x 1.2m x 0.6m
Height: adjustable |
|--------------------|---|

In-Line Mixer Equipment Description:

- | | |
|-----------------|---|
| Foam Generator: | produces the small, strong air bubbles |
| Air Compressor: | sends air to the foam generator |
| Mortar Hopper: | receives the mortar from the ready mixed concrete truck |

- | | |
|--------------------|--|
| 2. Feeder: | Weight: 80kg |
| 3. Foam Generator: | Production volume: 200-500litres/ minute
Weight: 25kg |
| 4. Air Compressor: | Weight: 140kg |