

## The Benefits of Inline Aggregate Blending



### Less Segregation + Precision Blending = Better Concrete. It's Simple Math.

At Triangle Ready Mix, we blend concrete with a state-of-the-art, precision inline blending batch plant. What this means for our customers is that we produce a superior-blended mix with less segregation of materials. It's simply **better concrete**.

Most concrete producers mix concrete with traditional repose batching plants. While it's a time-honored method, the basic principles of repose batching haven't changed much in almost a century.

### What is the difference between repose batching and inline blending?

To understand the difference, first consider how repose batching works:

#### 1. First, the aggregates are stored in overhead bins

A loud clamshell gate under the first bin opens, allowing the first aggregate to free fall into the weigh hopper below. As the weight begins to reach its set point for the mix design, the clamshell gate closes. Then, it rapidly opens and closes several more times, allowing smaller amounts of the first aggregate to fall through, in an attempt to reach the proper weight.

It's not the most accurate system — nor is it the most consistent.

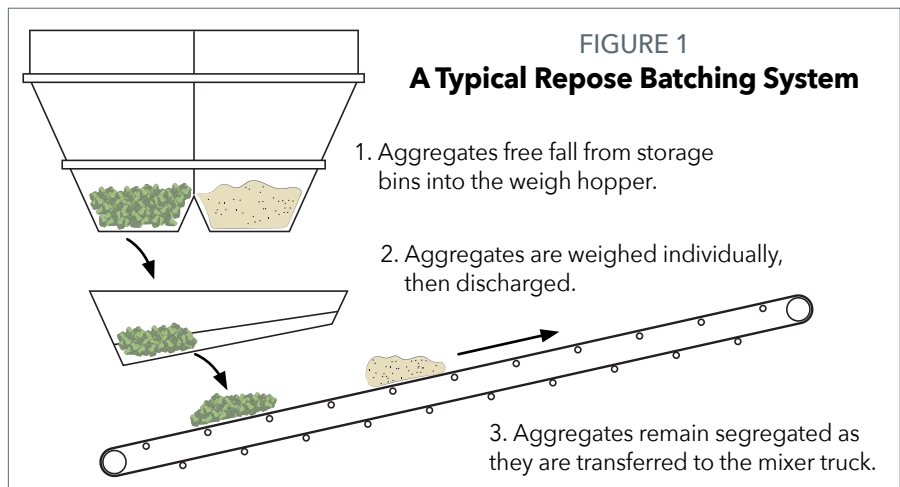
#### 2. Weigh and repeat

Next, the weigh hopper discharges the weighed first aggregate onto a conveyor belt. With the weigh hopper now empty, the process is repeated for the next aggregate.

#### 3. Material segregation is guaranteed

Weighing and transferring aggregates this way, the materials are segregated when they are loaded into the mixer truck.

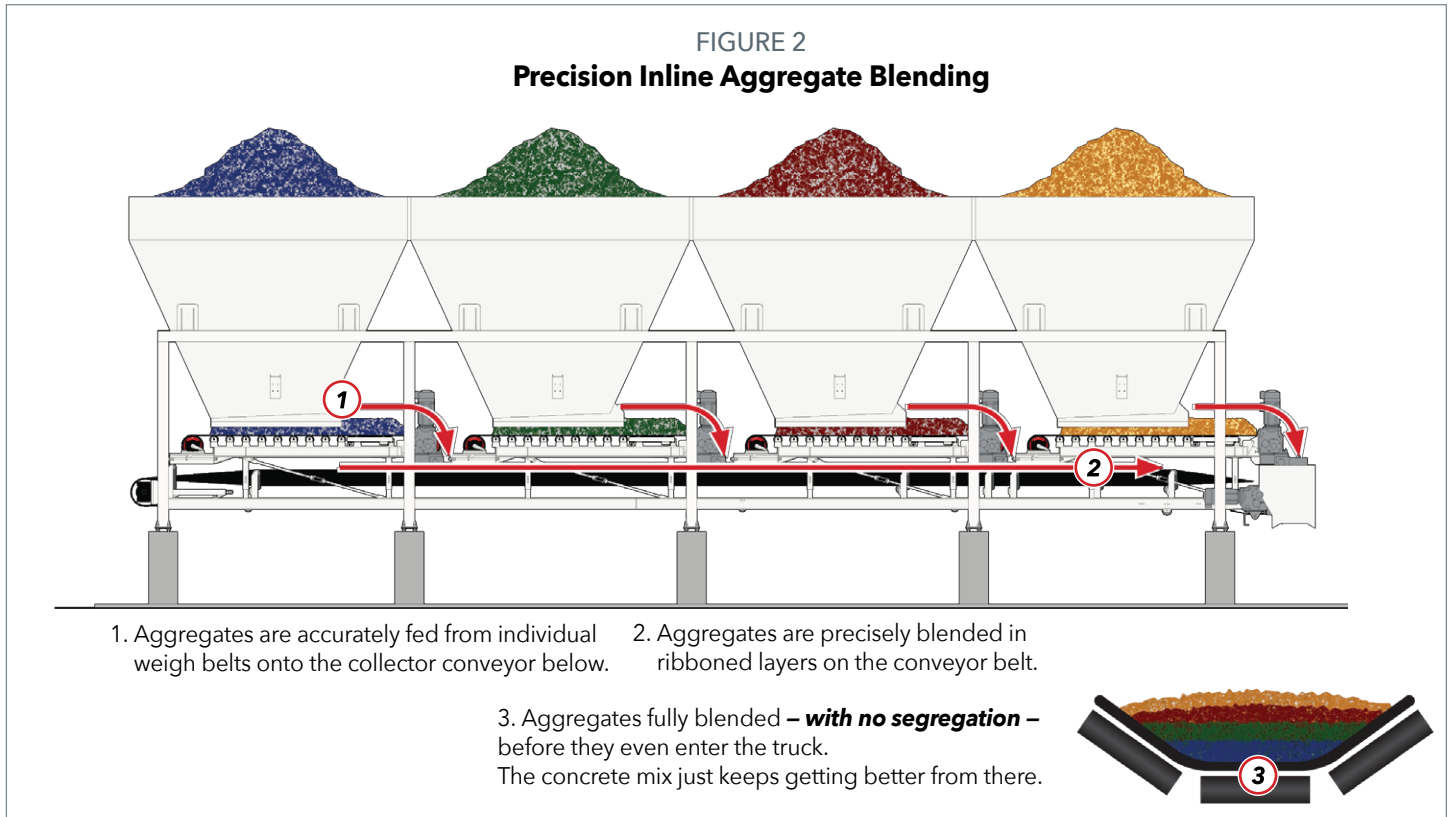
The actual mixing only THEN begins.



# How does precision inline blending work?

Triangle Ready Mix utilizes a precision inline blending batch plant. Aggregates are stored in a series of inline bins. These bins are easily loaded with a bucket loader from material stockpiles that are only a few feet away.

Underneath each storage bin is a dedicated weigh belt with a precision weigh scale. These dedicated weigh belts accurately and consistently discharge aggregates onto the collecting conveyor below.



As the collecting conveyor moves, aggregates from the second bin are metered and discharged on top of the first layer of aggregates. The process continues in the same manner for the remaining aggregates.

In this way, the aggregates are precisely blended in ribboned layers. This precision-blended aggregate mix is discharged from the aggregate blending unit onto a transfer conveyor. The aggregates are fully blended before they even enter the truck.

Water and cement are added. As the truck's drum rotates, the mix just keeps getting better. Less segregation means fewer voids, **resulting in concrete of superior strength and quality.** It's simply better concrete.

Moreover, this system is highly accurate, and extremely consistent. So, the high-quality mix design you order is consistent from one batch to another.

## The Triangle Ready Mix Difference

At Triangle Ready Mix, we take YOUR concrete job seriously. That's why we want to supply you with a superior product — on time, every time, and with unsurpassed customer service.

That's why Triangle Ready Mix is "The Contractor's Choice!"

