

# How it Works

In the early 1970's, Cemen Tech realized the advantages volumetric mixing had over traditional concrete production methods. The drawing below illustrates how a volumetric mixer works.

## Material Storage

Each concrete ingredient (sand, stone, cement, water, and admixture) is contained in a separate compartment. **(1)** Sand and stone are stored in open bins. **(2)** Cement is stored in a closed, watertight bin behind the aggregates. **(3)** Water is provided in an auxiliary tank. **(4)** Conveniently located admixture tanks are integrated into the system.

## Setting The Controls

Once the storage bins are loaded, the operator will select the correct mix design for that pour. **(5)** The sand and stone gate will adjust to their correct position, and admixture and water flow rates are set.

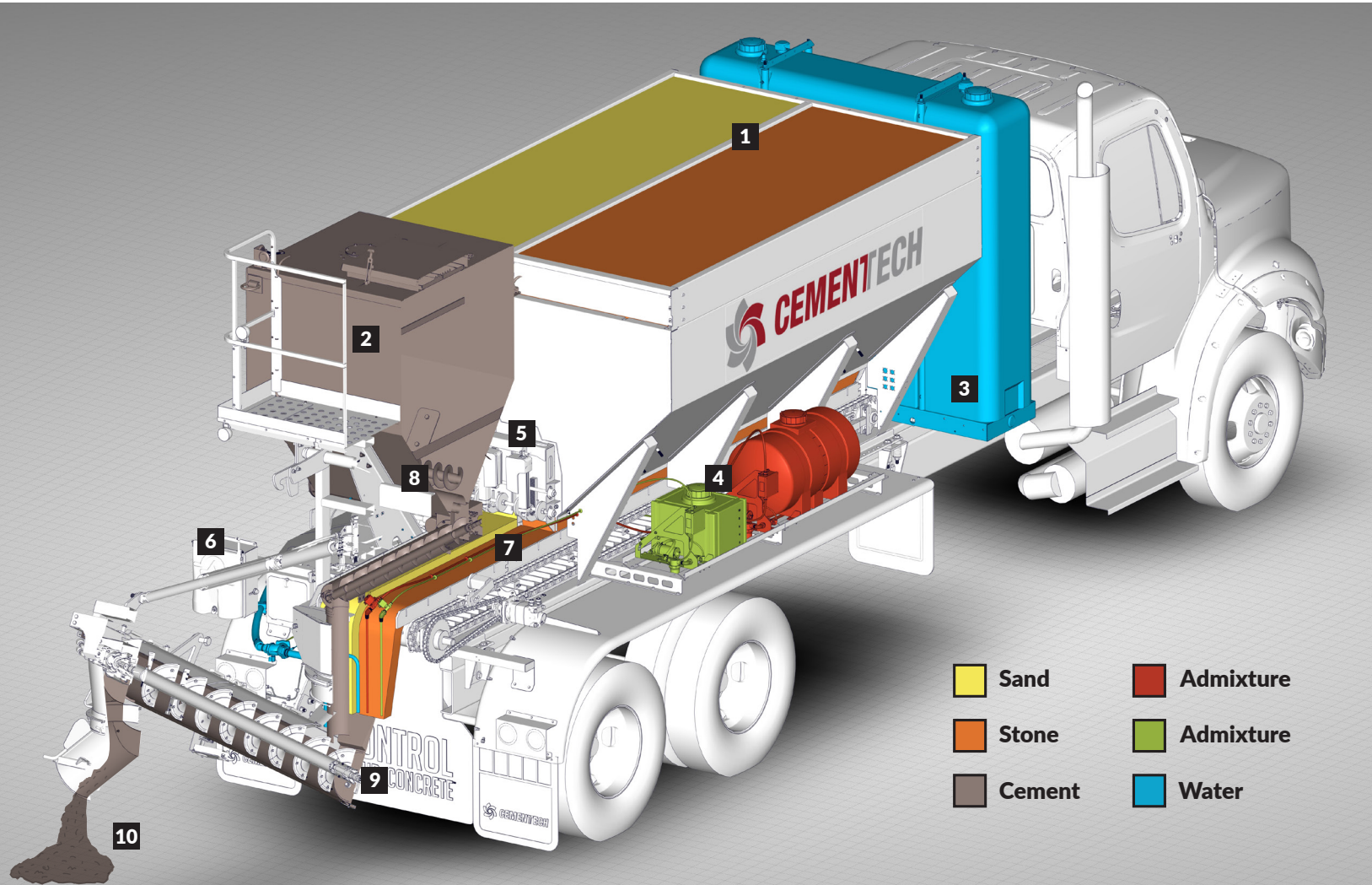
## Concrete Production

**(6)** The operator hits the start button to begin operation. **(7)** As the sand and stone exit their respective bins, they pass under the "strike off" gates. The materials then pass under the cement bin and falls into the mixing auger. **(8)** The cement bin precisely meters the correct amount of cement onto the mix. The dual auger cement

metering means consistent mix designs within +/-1 percent on every pour. **(9)** All materials simultaneously enter the continuous mixer where they are thoroughly mixed by Cemen Tech's unique mix auger. **(10)** The homogeneous concrete mixture is then carried to the discharge chute. Perfect concrete is produced for each and every pour.

## The Results

- Superior Quality
- Exact Quantity
- No Waste



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