Chemical Admixture Scales

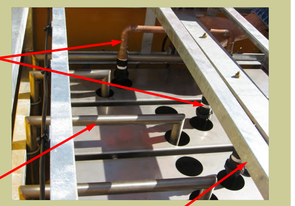
HM Technologies Admixture Scales are designed specifically for the Concrete industry. The scales are vibration resistant, multi product weighing systems that rapidly and accurately dispense both aggressive and non-aggressive chemical compounds in liquid form.

Design features include:

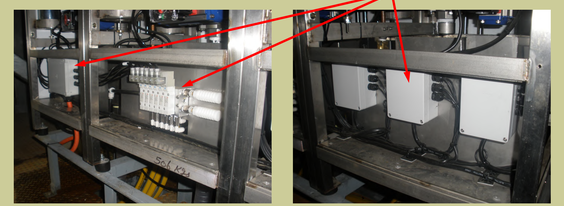
- Fully enclosed weather proof scale
- Mounted on vibration dampening supports to minimize affect of plant vibration
- Option for multiple weigh frames in a dispensing system allow multiple admixtures to be batched at the same time
- Multiple compartments – to avoid contamination of products
- Scalable, additional admixtures can be easily added
- Multiple tension load cells & design - increase accuracy, capability to significantly exceed the batching accuracy requirements as specified by AS1379 & ASTM C-94
- Accurate weighing of small or large quantities of admixtures
- Flexible discharge options – partial or full sequential discharge options allow admixtures to be added in the most appropriate point in the batching cycle
- Many components are interchangeable between models
- Corrosive resistant components – Galvanized steel frames, stainless steel hoppers & ball valves, aluminium covers
- Auto scale check option
- Self flushing automated after every load & manually at the end of the day
- Proximity switches on discharge valves prevent admixtures being batched unless discharge valves are closed.

Admixture Scale
(Cladding removed)

Weighed Batching	Volumetric Batching
Reliability - Significantly better and proven reliability	Less reliable requiring significantly more maintenance
Speed & Control of batching admixtures - Faster batching cycles - Admixtures are pre-batched then dumped as required and controlled by Batch Computer	Admixtures are batched directly to mix, slowing batching cycle, increasing flow rates typically reduces accuracy
Admixtures can be dosed at any stage of batching and in multiple dumps – thereby achieving ***optimal performance***	Admixtures are difficult to batch at certain stages of the batching sequence.
Accuracy - Scales are properly calibrated to exacting national & international standards & tolerances	Term calibration is loosely used, in reality this is simply a spot check to far less onerous criteria and variances in accuracy are adjusted by varying flow rates.
Verification of calibration is “hands off” and automated and can be done as often as required.	Verification of calibration is cumbersome and messy as a result the frequency is significantly reduced.
Flexibility & Convenience - Admixtures can be easily added with no calibration required	New admixtures require a full admixture line, possibly an extra controller and calibration.
The batching hoppers are continually emptied and cleaned after each batch.	Reliability can be hindered by the efficiency and cleanliness of the pulse meter
Risk Management - Each batch is weighed therefore easy to detect & correct overruns or mis-dosages. (simply dump admixture)	Batched directly into truck, more difficult to detect & correct overruns or mis-dosages. (Dump the entire load)



Control Input & Outputs, Solenoid Valves & Load Cell junction boxes are all mounted on the front of the scale for ease of access



Scales ability to rapidly discharge admixtures makes it possible to introduce the admixtures through 45 degree swage nipples into the water discharge line

The venturi effect accelerates the rate at which the admixtures are discharged and results in the admixtures being thoroughly mixed with the water before they enter the mixer truck

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