



WATERCARE INNOVATIONS

Solid/Liquid Separation AUTOMATIC POWDER MIXING AND DOSING PLANT

Powder-based reagents are extensively used in various processes and applications in the Mining, Metallurgical and Chemical industries.

Typical powder-based reagents such as ferrous sulphate, xanthate, copper sulphate, guar, coagulant, hydrated lime, limestone, urea, magnesium chlorite and others, are supplied in powder form to the industries where they are to be utilized. In order to be used, liquid needs to be added to the reagents first, to create a solution.

The Watercare Innovations Automatic Powder Mixing and Dosing Plant controls the ratios of powder and water into the mixing chamber where the solution is made up. The solution is then dosed into the process using a vertical spindle pump.

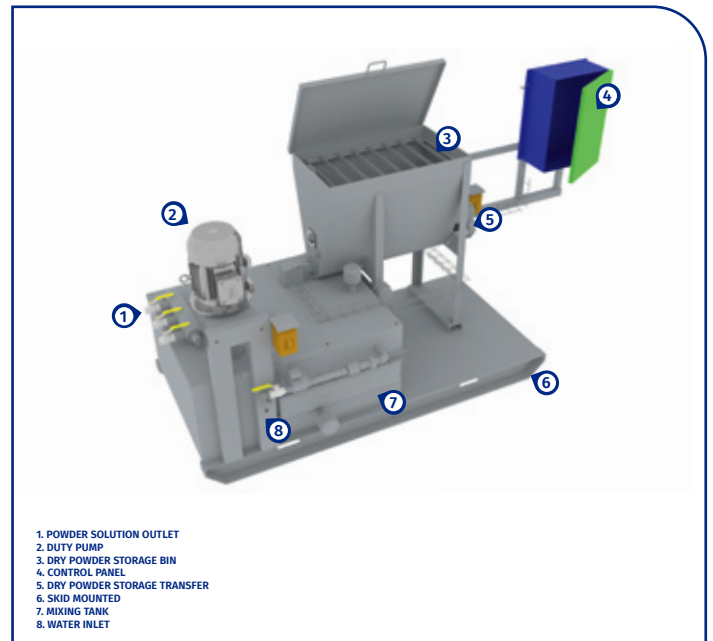
The concentration of the solution into the process is controlled by using either a pH, Viscosity or Oxidation Reduction Potential (ORP) probe.



WCM-P-6000 AUTOMATIC POWDER MIXING & DOSING PLANT

Applications:

- Neutralization
- Depressants
- Flotation
- Oxidation or reduction



1. POWDER SOLUTION OUTLET
2. DUTY PUMP
3. DRY POWDER STORAGE BIN
4. CONTROL PANEL
5. DRY POWDER STORAGE TRANSFER
6. SKID MOUNTED
7. MIXING TANK
8. WATER INLET

PROCESS DESCRIPTION

A wide range of benefits include:

- Eliminates the requirement for large mixing dams with costly agitation systems
- Robust design for reliable performance in challenging operating conditions
- Standard size for most applications
- Compact, modular and skid-based
- Low maintenance
- Low power consumption.
- Efficient chemical control on-site
- Quick installation and commissioning
- Minimal operator intervention
- Stainless steel material of construction

PROCESS AND PHYSICAL PARAMETERS:

Std Module Type	Capacity		Approximate size including access cat-ladder/staircase		Approximate Dry Weight
	Kg / day	lb. / day	M	ft	Metric Ton
WCM-P-6000	6 000	13 300	1.9 H x 1.1 W x 2.2 L	6.2 H x 3.6 W x 7.2 L	0.9

NON-STANDARD MODULES AVAILABLE ON REQUEST



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