

**POWDER HANDLING SYSTEMS**

**TABLET HANDLING SYSTEMS**



Intermediate Bulk Containers (IBCs)



IBC Discharge Stations



IBC Filling Systems



Bulk Tablet IBC and Tablet Discharge Stations



IBC Blenders



IBC Washing



Silo / hopper Discharger Valves



Gentle Transfer Chute (GTC)

# IBC WASH STATION



*Wash all types and sizes of IBCs,  
Cone Valve, Butterfly Valve & others.*

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# IBC WASHING SYSTEMS



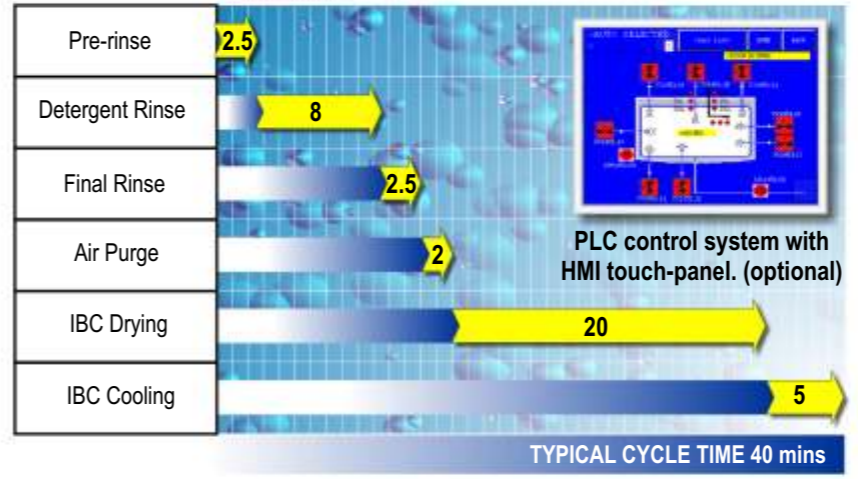
Market leader in Solids Handling IBC systems since 1980



CIP & PROCESS ENGINEERS

IBC & Process cleaning specialists since 1960

**"BIN THERE.....WASHED THAT"**



## Cleaning Philosophy

Internal (product contact surfaces) washing is achieved using a series of high pressure jets inserted into the IBC, which follow a controlled and repeatable pattern to ensure total coverage of internal surfaces. The powerful jets provide the force to remove stubborn surface contamination.

Wash water is only used once in a "single pass" on contaminated surfaces - this is the preferred method for critical applications, however if required, re-circulation systems are also possible.

External wash if required by manual wash lance.

## Station Specification (typical)

- Floor mounted wash station.
- IBC loaded by forklift or pedestrian stacker truck.
- Option - Manual slave lid, Auto slave lid.
- All stainless steel 316/316L construction with insulation.
- Hygienic components, pipework, valves and fittings.
- Drainable, crevice free design.

## Skid & Controls Specification (typical)

- Fixed speed water pump 60 ltr per minute.
- Detergent delivery pump and conductivity monitoring system.
- Double plate, steam heat exchanger - water heating up to 85°C.
- Self draining, crevice free design to cGMP standards.
- Air Handling Unit - steam or electric heated drying up to HEPA standard.
- Instrumentation controlling all cleaning-critical parameters.

## Design Options (typical)

- Wash all types and sizes of IBCs, Cone Valve, Butterfly Valve & others.
- Systems integrated neatly into GMP facility with support services located in technical spaces.
- Alternative IBC loading methods - conveyors, AGV or other.
- Buffer water storage tanks.
- Re-circulation of wash water.
- Multiple detergent / sanitizer additions.
- International design guidelines- cGMP, PED, ASME BPE, CE, GAMP, ISPE, FDA, 21CFR11, ATEX & EHEDG.
- Data logging - retention of cycle records.
- Communication with other systems such as DCS.
- Validation package with supporting documentation.
- Simple "relay logic" controls.