



Wet Hopper

Provides soak and pre-clean, dirt collection, buffer storage and constant produce flow to your line.

Potatoes • Carrots • Parsnips • Swedes • Turnips • Beetroot • Celeriac and more

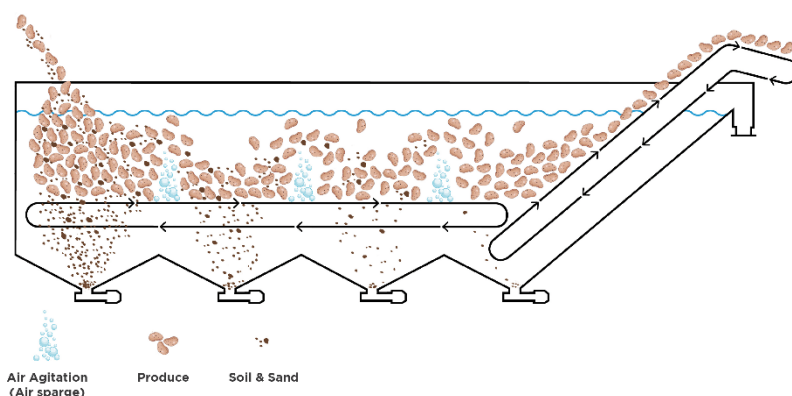


General Information

The Wyma Wet Hopper is a multi-purpose system, often critical in any produce wash line and is suitable for most root vegetables, including carrots, potatoes, parsnips, beet, rutabaga and other round or tubular products.

The Wet Hopper system provides:

- produce pre-wash soak with air agitation to soften adhered soils
- surge storage where incoming product flows do not match the flow rate of downstream equipment
- a soft entry for tipping produce
- settled dirt collection and removal
- line flow control

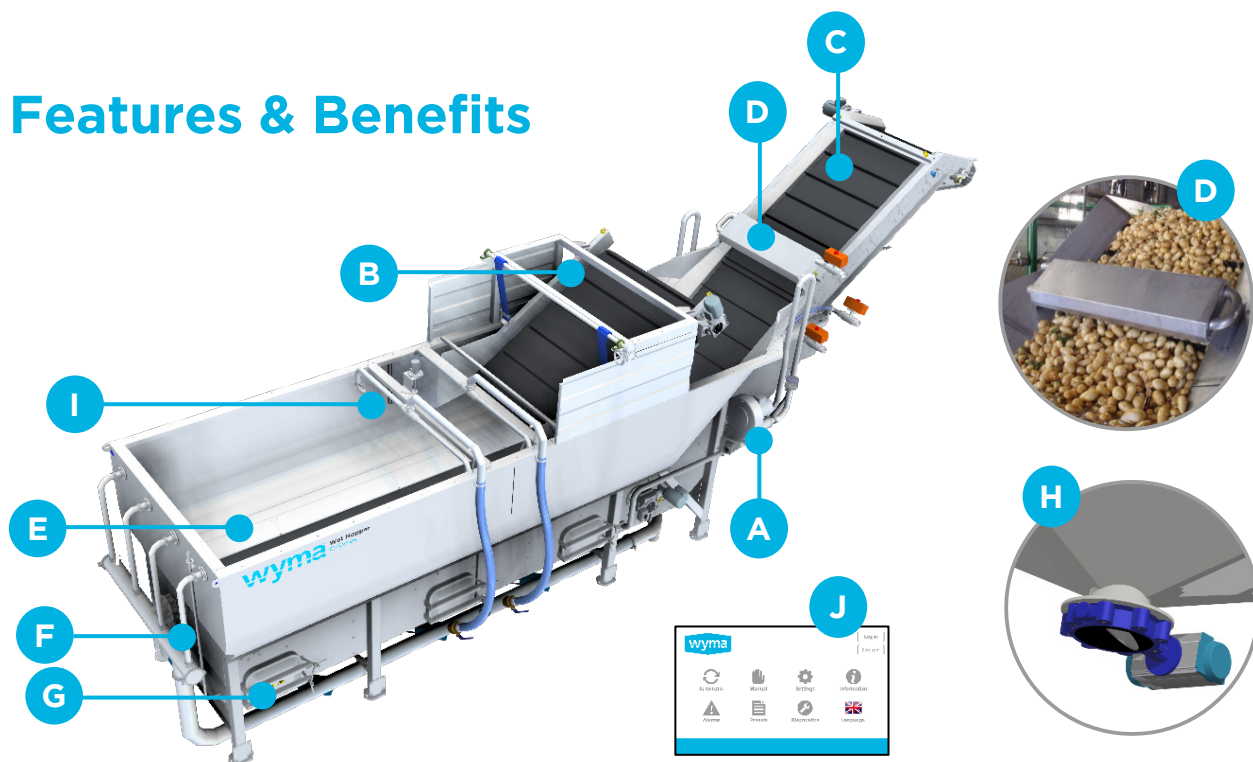


Produce typically enters the hopper via a [Tipper](#), [Conveyor](#) or [Stone Remover](#) and is conveyed through the Hopper on the internal web conveyor. Built-in air agitation provides produce pre-cleaning where adhered soil can be softened and loosened for easier and more effective cleaning post-hopper. Dwell time is dependent on flow rate and hopper size. Produce is lifted out of the Hopper and delivered to the line via the integrated gooseneck elevator. The elevator is specifically designed and controlled to provide a constant flow rate to the line independent of produce depth in the hopper. In addition, Wyma's produce anti-rollback system ensure the produce are always elevated reliably.

Removed soil and debris collect in the hoppers underneath the floor conveyor. Drain valves periodically discharge slurry build-up in the base of the tank. Alternatively, the collection hoppers can be replaced by a continuous auger to drag settled slurry to one end for discharge through a valve, or elevating auger.

A range of automation control is included with the Wet Hopper, including torque sensing to limit loads and stresses on the conveyor and elevator belts. The outfeed elevator length can be customised to eliminate the need for bridging elevators. Built from heavy stainless steel, the Wet Hopper is solid and robust, requiring very low maintenance. Additional features can be integrated, including stone removal, floating debris removal, clean water rinse on the elevator, floating produce paddle, produce level detection to control feed rates, self-cleaning and CIP.

Features & Benefits



A Air agitation

Gently agitates produce to soften and remove dirt and soil.

B Floating debris remover

Lifts floating debris and discharges onto a waste conveyor (not shown) to prevent it from entering rest of line.

C Elevator

Provides an even flow control to the line irrespective of produce depth.

Variable speed control. Anti-rollback, torque sensing to reduce belt stresses. Gooseneck outfeed design to minimise product drop.

D Water spray bar

Rinses produce before next stage in your line.

E Rubber web conveyor belt

Gentle on produce. Allows dirt and soil to pass through.

F Water Jets

Water jet system used to:

- Accelerate hopper emptying when switching between crops "Fast Empty".
- Push floating debris to floating debris remover
- Push floating produce forward

Full access on both sides for maintenance and cleaning.

G Access hatches

H Automatic drain valves

Controlled, periodic removal of sand and dirt. Alternatively, an auger is fitted, and dirt extracted to a single valve or scraper chain.

Measures produce depth in hopper to manage incoming produce flows.

I Over full Indicator

J Control

Stand alone or in line panel. Touchscreen control. Includes pneumatic solenoids for filling and drain valves, and software routines for auto filling, auto draining, periodic water and sludge discharge routines, elevator torque sensing, variable speeds for agitation, elevators and conveyors, pumps, pump protection and pump automation.

Floating produce paddle

Floating produce needs surface water movement to push product forward, and a paddle to help move it onto the elevator.

Internal cleaning bars

Rinses dirt from tank as water drains out

Frame

Site-specific support structure to lift to required height. Mounting plates on hopper for service platforms so legs not required to go to ground.

Safety

Hazardous areas are covered and not accessible.