

WASHING LINE

Root Washing

Washing beets is the first step of beet processing; it affects the performances and maintenance costs of all downstream stations.

Maguin offers the best compromise between washing efficiently, minimizing sugar losses and enhancing the value of the by-products. There is an extensive range of apparatus available – with unique solutions on the market. These technologies can also be used for similar roots such as potatoes, chicory, jerusalem artichokes, cassava, etc.

Maguin has unparalleled worldwide experience with references for complete production lines in all beet-producing areas.



Wide-Belt
Remover and
Separator



Final Washer



Washing
Plant

MAIN FEATURES

- / Complete new lines with dry or hydraulic feeding
- / Audit and revamping of existing plants
- / Customized solutions
- / Unique solutions on the market such as the weed catcher belt, drum finishing washer etc.
- / Fully automated operation with control and safety operation mechanisms
- / Minimal maintenance and 100% availability rate

ADVANTAGES

- / Residual tare and sugar losses guaranteed to be the lowest possible
- / Low levels of insoluble mineral matter in the pulp
- / Minimization of mud load in the juice purification line
- / By-products recovery for added value
- / Low water and electricity consumption
- / Extensive capacity range
- / Sturdy construction for extended life time

TECHNICAL DETAILS

Maguin can offer various configurations for washing lines depending on whether the beet supply is dry or hydraulic, and depending on the weed catching system.

Maguin technology is based on the use of 4 main units:

- The washer**, preferably a drum-type, ensures the good separation from each other of all entering materials while removing most of the soil. Size is adapted to soil and climate conditions.
- The drum stone catchers** for removal of stones, gravel and sand. They can be completed by a stone washer.
- The weed catchers** of either fork or wide-belt type for removal of weeds (short and long), and, depending on the solution, of floating matter too.
- The finishing washer** enables the cleaning of the sugar-beet grooves and a final weed removal.

The circulation of the water in the washing line is done counter-currently against the flow of beets with internal recirculation to minimize water flows.

Transport and washing water are processed in a sand catcher and through screens. By-products (stones, sand, weeds, tails) are recovered clean.



Washing Station with Drum Washer



Stone Catchers



Weed Removers



Wide-Belt Weed Catcher and Drum Type Final Washer

