



KNOWA washing machine

For potatoes



- Immersion tank washing process
- Minimum water consumption
- Solid construction
- Hole geometry and barrel paddles ideally adjusted to potatoes
- Greatest possible protection of produce due to immersion tank. Particularly well-suited for early potatoes
- Direct drive without chain

Type KNOWA 10

Throughput	10 t/h
Barrel length	2.0 m
Barrel diameter	0.9 m
Water consumption	1.5 m ³ /h

Type KNOWA 25

Throughput	25 t/h
Barrel length	2.5 m
Barrel diameter	1.2 m
Water consumption	2 m ³ /h

Type KNOWA 35

Throughput	35 t/h
Barrel length	3.0 m
Barrel diameter	1.6 m
Water consumption	3 m ³ /h

Throughput may vary considerably depending on soiling and the clay content of the soil.

Gentle treatment at minimum fresh water consumption



2.5 kg potatoes = 200 ml water

KNOWA washing machine

The KNOWA potato immersion washer ensures maximum protection of the produce at minimum water consumption. The potatoes float in an immersion tank in the washing barrel which minimizes friction between the tubers. This also allows sensitive potatoes, in particular early potatoes, to be washed efficiently.

The KNOWA is designed as a self-supporting, sturdy sheet metal construction with slanted metal-sheet floor panels inclining to a central sludge gate. The axis and spoke-free barrel is made of hot-dip galvanized steel and suspended from several V-belts from the two drive shafts running lengthwise to the machine. Each drive shaft is equipped with direct drive and a gear motor to reduce wear and tear. Conveyor and ejector paddles in the interior of the barrel ensure optimum cleaning efficiency while handling produce as gently as possible. The edges of the round holes in the barrel are bent outwards to prevent the potatoes from coming into contact with sharp hole edges. A spray pipe mounted lengthwise to the washer barrel allows washing with recycled process water or fresh water. Operation of the spray pipe is however not necessary for the KNOWA as the fresh water spray at the discharge conveyor is sufficient to maintain the water level in the washer. This keeps water consumption to a minimum. A height-adjustable outlet gate enables adaptation to the produce to be washed, i.e. for difficult to wash soils, the filling volume can be increased by raising the slide gate to allow longer treatment of the individual potato. The machine is only suitable for continuous operation and not suitable for batch operation.

The desludging gate can be operated manually as a standard or pneumatically as an option. Desludging takes place during operation. An adjustable overflow allows variable height adjustment of the water bath.

The machine is equipped with height-adjustable legs. The outlet conveyor is screw-connected water-tight to the washer. The output belt consists of round rods made of spring steel which are riveted to an endless belt at both ends. The rods are rubber coated or fitted with T-studs to discharge the potatoes. A central, adjustable spray unit is mounted above. The spray water flows back into the washer.

Accessories and special version

- Pneumatic sludge gate with time control
- Rinsing pipe at the feed-in funnel.
- Electric outlet gate
- Housing and barrel made of stainless steel

