

## Potato washing plant No. 2

Market segment	Food	 
Application market	Fruit & Vegetables	
Pumped medium	Water & Potatoes	
Pump product	Bearing frame	
Country	Sweden	

### Challenge

After harvesting, potatoes begin the manufacturing process covered with great amounts of dirt, stones, and soil. To fulfil the high-quality requirements of the food industry, the customer must ensure that the pumped potatoes are not only cleaned efficiently, but also handled gently. The large quantities of dirt and stones can lead to blockages and wear on the pump that circulates the cleaning and rinsing water.

### Solution

Thanks to its large free passage and outstanding properties for gentle conveying, potatoes, including the large quantities of dirt available, can be fed unhindered with the **Hidrostat Screw Centrifugal Pump**. The pump impellers are made of highly wear-resistant materials that can withstand even the toughest working conditions.

### Benefits

The challenge was solved to the complete satisfaction of the customer. Thanks to the large free passage and the use of high-quality construction materials:

- blockages and damage to the pump are avoided,
- a long service life for the wearing parts and,
- above all, consistently high product quality are achieved.

Quantity of units sold	28	
Pump type	<sup>a1</sup> B02Q-H01 + BCM1X-G112 <sup>a3</sup> E125-HL1R + EDM1X-M132Q	<sup>a2</sup> D04R-MMN1R + DCM1X-G112 <sup>b</sup> B050-H03R + BCM1X-G112
Motor data	<sup>a1</sup> IEC fame size 112 / 3 kW / 4-pole <sup>a3</sup> IEC fame size 132 / 4 kW / 6-pole	<sup>a2</sup> IEC fame size 112 / 3 kW / 4-pole <sup>b</sup> IEC fame size 112 / 3 kW / 4-pole
Material combination	<sup>a</sup> Cast iron pump body and wear parts with ductile iron impeller <sup>b</sup> Cast iron pump body, Hidrohard wear parts and Duplex stainless-steel impeller	
Duty point	<sup>a1</sup> Flow [metric]: 10.8 liters per second / Head: 15 m Flow [US]: 171 US gallons per minute/Head: 49 ft <sup>a3</sup> Flow [metric]: 50 liters per second / Head: 4.3 m Flow [US]: 793 US gallons per minute/Head: 14.1 ft	<sup>a2</sup> Flow [metric]: 22.0 liters per second / Head: 7 m Flow [US]: 349 US gallons per minute/Head: 23 ft <sup>b</sup> Flow [metric]: 10.8 liters per second / Head: 15 m Flow [US]: 171 US gallons per minute/Head: 49 ft
In operation since	2020	