

## Spinach Feeding Bischofszell AG

Application market	Food
Market segment	Fruit & Vegetable
Pumped medium	Carrier fluid (water) with spinach
Pump product	Bearing Frame
Country	Switzerland



### Challenge

Leaf spinach is delivered by the producers in specially designed basins. After cleaning, the spinach is to be fed to the blanching machine on the third floor of the factory building. During blanching, the spinach is separated from the carrier liquid and the water is to be reused. A production quantity of 5'000 kg raw leaf spinach with a water quantity of 300 m<sup>3</sup> per hour is to be achieved.

### Solution

The spinach is fed to the blanching machine by a multi-stage feeding system. The vegetables arrive – after cleaning – at the feeder to add the required water and is finally pumped with a three-stage pumping system over the considerably large difference in height. The pump system consists of three F-type Screw Centrifugal Pumps connected in series to overcome the large delivery head. The conveying device required for feeding the pumps was additionally supplied from Hidrostat.

### Benefits

The challenge was solved satisfactorily, the high requirements in food production could be fulfilled:

- Gentle handling of vegetable in this demanding food production process without losses in quality

Quantity of units sold	3 pumps in series + 1 feeder
Pump type	I08F-M07 + I1S10
Motor data	11 kW / 6pole / 50 Hz / 400 V / IEC frame size 160 + belt drive, shaft speed 550 rpm
Material combination	Cast iron pump body and wear parts with Bronze impeller Feeder of stainless steel
Duty point	Flow : 85 litres per second / Head : 24 meters (overall)
In operation since	2008