

Pumping Station Friedrichsbrunn

Application market	Wastewater
Market segment	Wastewater Collection
Pumped medium	Raw, unscreened wastewater
Pump product	Bearing Frame Two-stage series installation
Country	Germany



Challenge

A competitor's pumps had to be replaced. In relation to the flow rate a relatively high discharge head had to be delivered for the application with raw sewage.

Solution

Installation of two Screw Centrifugal Bearing Frame pumps with large free passage in a double-stage series arrangement. The first stage is mounted horizontal on a maintenance friendly dismantling base plate and the second stage vertical on an overhead support structure to save space.

Benefits

With two relatively small pumps in a series arrangement, the customer requirements for a non-clogging pump with a high, overall discharge head could be fully met with a compact and cost-efficient installation.

Quantity of units sold	4 (2 times 2 pumps, both pairs in a series arrangement)
Pump type	D080-HH5R+DFM1X-M160
Motor data	15 kW / 2 pole / 50 Hz / IP 55 / IEC frame size 160
Material combination	Duplex stainless steel impeller and stainless steel wetted parts
Duty point	Flow : 12 litres per second / Head : 70 meters overall
In operation since	2007