


## Flywheel Bearing Frame Halle Sued 2

Application market	Wastewater	
Market segment	Wastewater Collection	
Pumped medium	Raw, unscreened wastewater	
Pump product	Bearing Frame with V-belt and Flywheel	
Country	Germany	

### Challenge

An existing Bearing Frame pump with belt drive should be modified or extended in such a way that possibly occurring hydraulic water hammer in the pipe system, due to sudden power failures can be effectively eliminated.

### Solution

Integration of an intermediate shaft with flywheel into the existing, belt-driven Bearing Frame pump. Dimensioning of the flywheel was made in accordance with exact calculations. The flywheel mass acts as a kinetic energy store and extends the pump's slow-down time. In this way, in case of a sudden power failure, the flow is continuously decelerated to a standstill.

### Benefits

The customer's requirements to eliminate the risk for water hammers could be fully met with a relative simple and cost-efficient flywheel installation.

Quantity of units sold	1
Pump type	H08K-S03R+HHM1W-GM.K
Motor data	160 kW / 4 pole / 50 Hz / IP 55 / IEC frame size 315
Material combination	Stainless steel impeller and Hidrohard wear parts
Duty point	Flow : 240 litres per second / Head : 40 meters
In operation since	2001