

FLOOD CONTROL

LANDY ARCHIMEDES SCREW PUMPS



Flooding causes a lot of damage and often hazardous situations. Nowadays, detention basins and/or flood plains are increasingly being used to manage stormwater and to prevent downstream flooding.

Storm water is temporarily stored and drained afterwards, whenever and as soon as possible, in the most efficient way.

For this kind of flood management a pumping station equipped with Archimedes screw pumps is the ideal solution, as large quantities of water can be lifted in a short period of time, in an extremely reliable way.

Pumping station with three LANDY Archimedes screw pumps, installed in a newly built waterway for managing heavy rainfall in Dutch North-East Polder

A flood pumping station is not only used for effective and efficient drainage of detention basins, but also to prevent backwater flooding. A temporary dam prevents storm water to flow back into the side channel. At the same time water is pumped from the side channel into the main river, thus preventing the side channel area from flooding.



Flood pumping station in Lingen (Germany) realised in 2013. In case of flooding the four LANDY Archimedes screw pumps are each capable of draining 14,400 m³/h of water.

WHY SCREW PUMPS ?



Significant LANDY Archimedes screw pump leaving our premises at Sneek, The Netherlands, heading for Miami River Dike Flood Pump Station (2016)

- ✦ For over one hundred years Archimedes screw pumps are used for polder drainage.
- ✦ Screw pumps are extremely suitable to transport large quantities of water at low head, in a most efficient and reliable way.
- ✦ Screw pumps are characterized by a robust and maintenance free design, therefore spare parts are not required. Also suitable for irregular operation.
- ✦ Open, clog-free construction, offering substantial advantage at detention areas.
- ✦ Fish-friendly design
- ✦ Test-run without water possible.
- ✦ Low operation cost.

WHY LANDY SCREW PUMPS ?

- ✦ Over one hundred years of experience
- ✦ World-wide market leader
- ✦ Reliable solution partner
- ✦ Every project tailor-made design by our most competent engineers
- ✦ Use of Finite Element Analysis
- ✦ Highest possible efficiency
- ✦ Full in-house manufacturing according to highest industry standards
- ✦ Qualified and experienced After Sales team
- ✦ Shortest possible delivery time



The "Dülkener Nette" retention and infiltration basin (Germany, June 2016), equipped with 5 no. LANDY Archimedes screw pumps

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