



# Flygt Bibo<sup>α</sup>

THE NEXT GENERATION OF DEWATERING PUMPS



# Welcome to the future of dewatering pumps.

Flygt Bibo<sup>α</sup> offers you increased savings opportunities through:

## Innovation

Game changing technology pioneers the next generation of drainage pumps

## Performance Field

Expand performance beyond a static QH curve

## Reduced Wear

Adapt speed to any need, no snoring or dry running

## Reliability and Robustness

Compact design out-performs traditional drainage pumps

## Improved Performance

Enhanced flexibility and easy to use

**α**

**Alpha | al-fuh |**

*(Noun, Greek)*

1 The first; beginning.

*(Adjective, Greek)*

1 Having the highest rank in a dominance hierarchy.

2 Being the most dominant, powerful, or assertive of a particular group.



A photograph of three miners in a dark tunnel. They are wearing high-visibility yellow-green jackets with reflective stripes, dark blue pants, and hard hats (yellow, orange, and red). The miner on the left is wearing a communication system. They are standing in front of a large, dark, textured rock wall. To the right, a large, metallic, cylindrical pipe or tunnel structure is visible, illuminated by a bright light source at the end of the tunnel.

## Bibo<sup>α</sup> and the vision of an autonomous mine

A global leader in automated and sustainable mining, New Boliden generates over 5.5 billion USD in annual revenues from its extraction of zinc, copper, lead, gold, silver, and tellurium.

In any mining application, dewatering is a vital process that ensures resources can be mined efficiently and effectively.

In order to improve overall mine productivity through advanced automated solutions, New Boliden partnered with Xylem to test a solution that would complement its wider automation program and improve efficiencies at its Renström mine site. New Boliden saw Bibo<sup>α</sup>'s advanced technology as the pump to support a fully autonomous mine.

After three years of field testing at Renström, Flygt Bibo<sup>α</sup>'s integrated intelligence reduced product and repair costs by as much as 40%. As a result, Bibo<sup>α</sup> has become an important part of New Boliden's smart dewatering solutions and the vision of the autonomous mine.

"The installation of the first Flygt Bibo<sup>α</sup> pumps at Renström brought a significant change to the way we approach traditional dewatering practices due to the pump's ability to utilize intelligence beyond standard solutions. For the first time, we had access to a pumping system that could automatically adapt to its environment, working only to accommodate real-time conditions in the field. This was a game-changer for us as it optimized pumping performance without the need for hands on intervention, allowing our mining processes to continue without interruption."

Mats Isaksson Senior Development Engineer, New Boliden

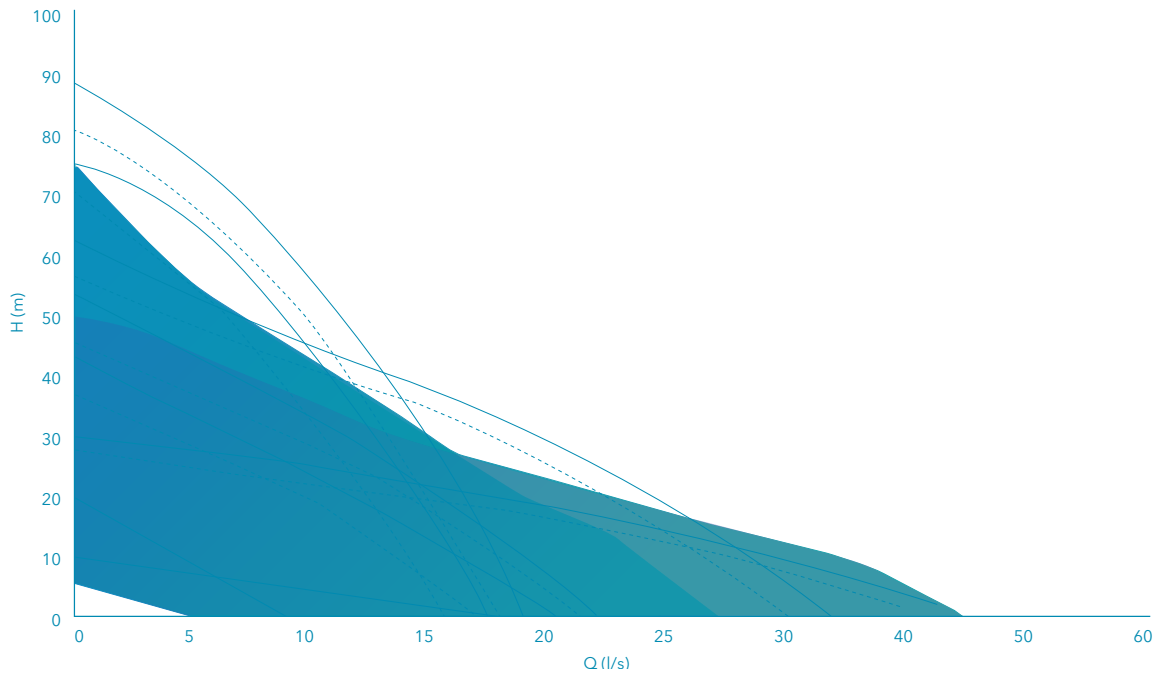




## Flexible and Efficient

The Innovative technology creates the future standard of flexibility.

With built-in intelligence Bibo<sup>®</sup> will cover a range of traditional drainage pumps since it adapts speed and performance in a field instead of a static curve.\*\*



## Reliable and Robust

Extremely robust, compact and easy to use.

**Plug and play** with no configurations needed.

**Robust design** ensures uninterrupted pumping in any dewatering operation.

**Reduced wear** up to 70%\*:

- › Adapting speed to prevent snoring and dry running
- › Always run in the right direction

**Reliable** performance through built-in motor protections, including:

- › Amperage
- › Temperatures
- › Phase loss and imbalance
- › Over / under voltage
- › Soft start and stop

\* Compared to Flygt 2600 and 2800 series.

\*\* Lines represent the performance curve of various traditional pumps. Solid color demonstrates the Bibo's performance field.



## Improved Performance

This compact 8kW pump delivers QH-performance from a 2kW up to 10kW pumps and last up to 4x longer than a traditional dewatering pump.



## Improved Asset Management

Reduced inventory due to:

- › **30% fewer parts\*** than traditional pumps
- › Since the pump covers a QH-field it enables standardization to fewer pump sizes



## Improved Life Cycle Cost

- › Increases **time between service** and decreases **maintenance cost** by up to 50%\*
- › Reduces **energy consumption** by up to 60%\* since always operating at best efficiency point



## Improved Design

Integrated Control System

High Efficiency Permanent Magnet Motor

Built-in Pressure Sensor

Leakage Sensor

Hydraulic Volute Design

Pump Control Unit



# Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



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