

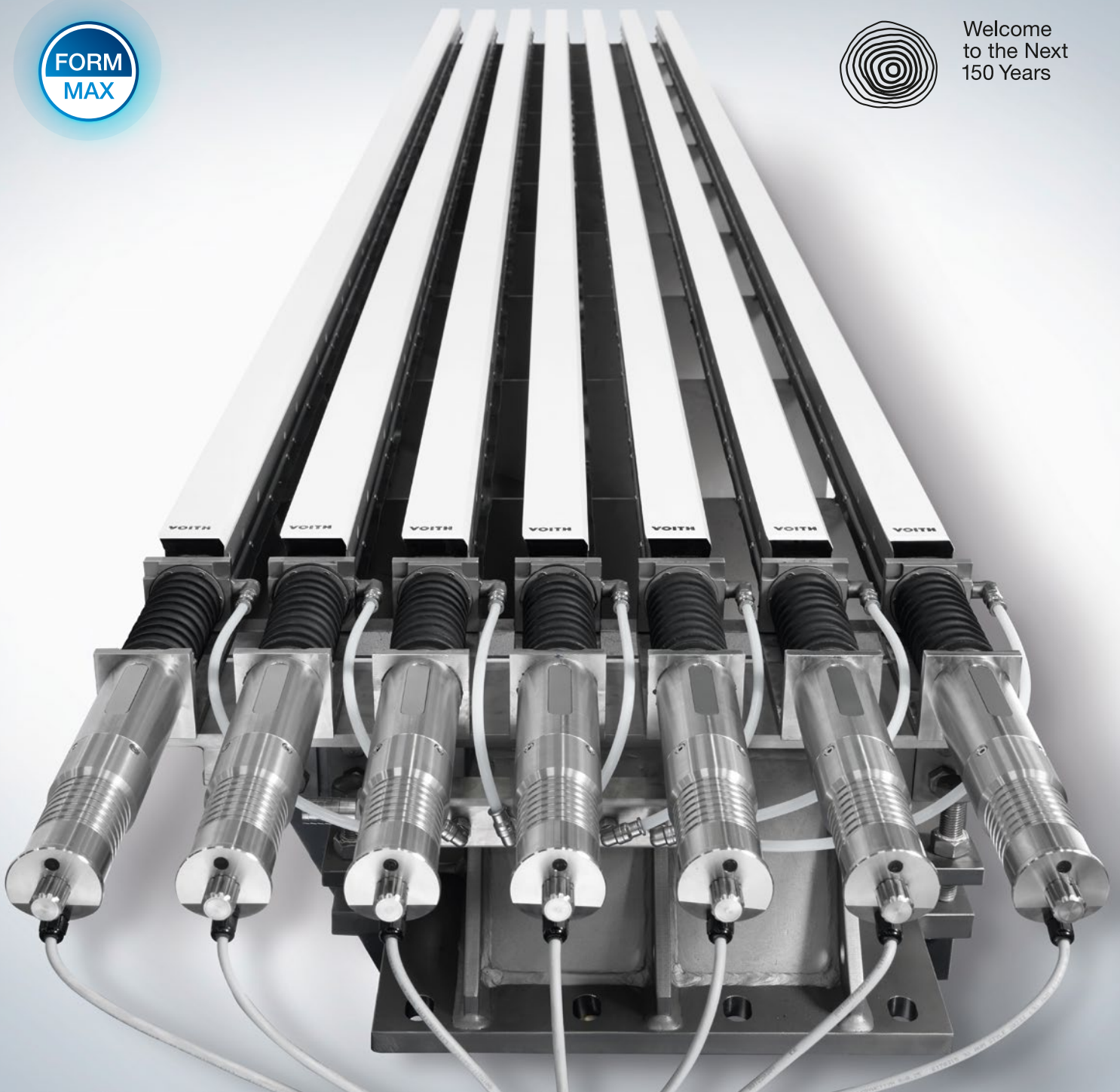
**VOITH**

# The 3-in-1 solution for maximum flexibility

VForm



Welcome  
to the Next  
150 Years



# Improved paper quality thanks to flexibly adjustable hydrofoils

On Fourdriner and hybrid formers, VForm increases the operating window for production. The 3-in-1 solution also allows optimum adaptation of foil settings when producing several paper grades and basis weights.



height adjustment



angle adjustment

ComCore –  
Papermaking

**4.0**  
ready

The VForm allows individual setting of the height and angle of each hydrofoil. This increases activity in the fiber suspension and leads to a much improved dewatering capacity. The optional connection to ComCore, the automation platform developed by Voith, also turns the VForm system into a “Papermaking 4.0” solution. Due to the interaction of height and angle adjustment in combination with ComCore, VForm offers three parameters for improving paper quality. All settings can be saved and retrieved, enabling automatic changeover if different paper grades and basis weights are produced on one machine.

VForm also helps to reduce the use of starch and chemicals in paper manufacture.

VForm is offered completely preassembled on a hydrofoil box or as a VForm Hydrofoil retrofit for existing dewatering boxes.

## Your benefits

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- + Maximum flexibility of foil adjustment
- + Extended operating window with larger range of paper grades
- + Better paper quality thanks to greater activity in the fiber suspension
- + Increase in dewatering capacity
- + Optional connection to ComCore platform
- + Can be retrofitted to most machines



## Three parameters for more variability in paper production

Unlike conventional systems, every VForm hydrofoil can be lowered by up to five millimeters or adjusted by up to seven degrees in the angle. This precise adjustment results in better homogenization of the fiber suspension. Thus, paper strength

is increased in both directions, while at the same time the dewatering capacity is increased. This results in reduced consumption of virgin fibers. In addition, this flexibility gives papermakers a larger operating window for production.

### VForm – key components

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- 1 Voith actuator stainless steel housing, IP65/67
- 2 Adaptor covered with bellows
- 3 VForm hydrofoil with ceramic cover



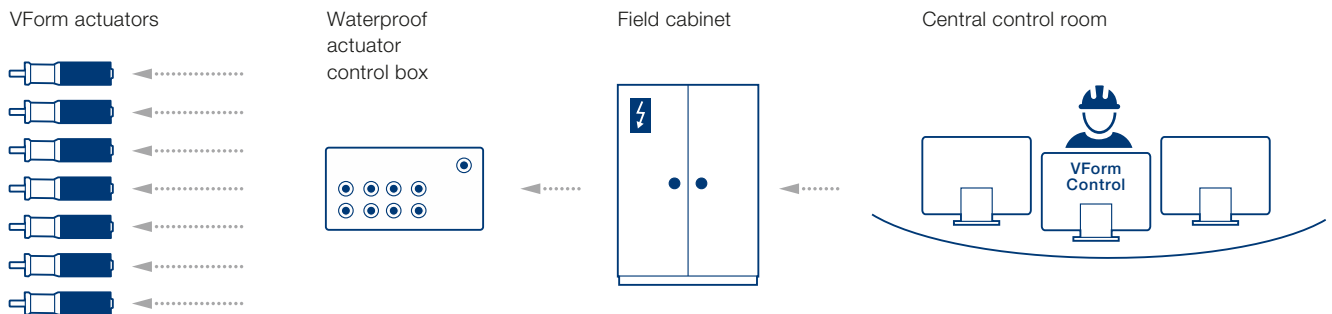
ComCore –  
Papermaking

4.0 ready

Via the modular automation platform ComCore, which was developed by Voith, VForm can be integrated into the process control system. ComCore connects the numerous measuring and control systems in a paper machine and enables an analysis of the information on current paper quality. With VForm, paper manufacturers can respond to process variations, as key parameters can be influenced by precise

adjustment of the hydrofoils. Naturally, the ideal settings of the VForm hydrofoil for each paper grade can be stored in the control system and easily retrieved. The intuitive web visualization allows for simple handling. Thanks to this reproducibility the reliability of the production process is significantly increased.

### Integration into the process control system in just a few steps

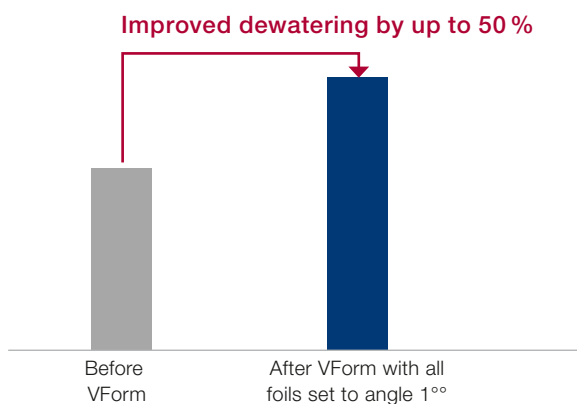




# Measurable improvement of key parameters

## Increased dewatering capacity

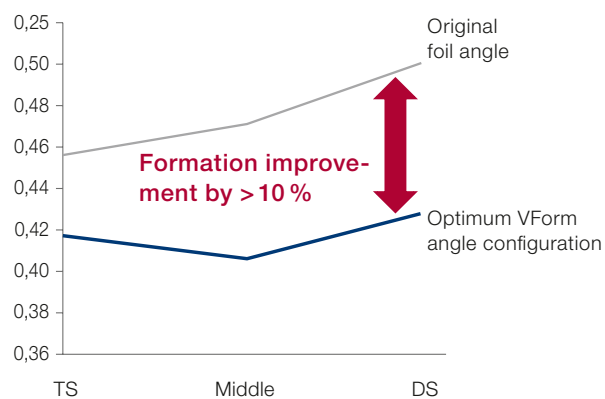
Dryness [%], inkjet paper, 80 gsm



An optimization of the VForm hydrofoil setting leads to a significant increase in dewatering capacity. In tests, dewatering was improved by up to 50%.

## Improved formation

Normalized Ambertec [ $\sqrt{g/m}$ ], envelope paper, 80 gsm



The individual adjustment of every single VForm hydrofoil results in a significant improvement in formation.

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**VOITH**  
Inspiring Technology  
for Generations