



# More than 50% increase in productivity possible HelixRotor for recovered paper

## Significant increase in efficiency in HC pulping process

The use of a HelixRotor in high-consistency pulping enables a gradual pulping process with high frictional forces. The extremely gentle de-fibering of the stock minimizes fiber loss. At the same time, the HelixRotor prevents the shredding of contaminants that are removed in the downstream process stages.

Moreover, the high stock consistency allows improved mixing of chemicals and separation of ink particles during the pulping process. This results in a greater degree of whiteness in the final stock.

## Area of use

HelixRotors are used in Voith and non-Voith pulpers for recovered paper in the high consistency (HC) range with up to 18 % stock consistency.

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## Your benefits

- + Pulping times reduced by up to 50 %, resulting in higher throughput
  - + Gentle processing for minimum fiber loss and better separation of reject and stickies
  - + High stock consistency allows better fiber-to-fiber friction, achieving a higher degree of whiteness in the final stock with minimal use of bleaching chemicals
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## The viable alternative to costly new pulper installations

Thanks to numerous rebuilds of existing Voith and non-Voith pulpers, the HelixRotor has not just become established on the market; by offering potential capacity increases of more than 50 % it has also become a genuine alternative to buying a new pulper.

The increase in production capacity results in higher paper production with greater output volume, so that the HelixRotor pays for itself in a short time. An ROI of less than one year is achievable.

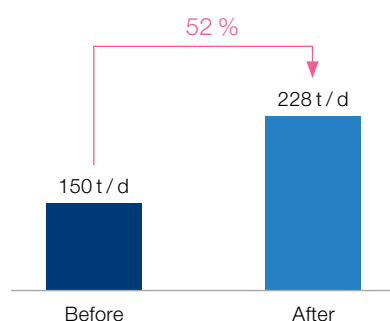
## HelixRotor



### Example for a rebuild of a non-Voith pulper to HelixRotor H – production increase by 52%

Raw material: ONP / OMG	Before	After
Installed power	315 kW	315 kW
Rotor speed	189 kW	189 kW
Max. production capacity	150 t / d	228 t / d
Max. batches per day	45	67
Total batch time	31.5 min	21.5 min
<b>Energy savings</b>	<b>-</b>	<b>29 605 € / year</b>

### Max. production capacity



## HelixRotor Produktspektrum

Typ / Characteristic	HelixRotor S (Standard)	HelixRotor E (Economy)	HelixRotor H (High end)
Increased throughput	-	up to +25 %	up to +50 %
Stock consistency	approx. 12 %	approx. 15 %	approx. 18 %
Pulping time	approx. 20 min.	approx. 15 min.	approx. 10 min.
Whiteness increases (absolute)	-	up to +1 whiteness point	up to +2 whiteness points
Chemical reduction bleaching agents (absolute)	-	approx. -1 %	approx. -2 %

Depending on requirements the HelixRotor can be configured to meet individual customer specifications and can be provided with further upgrades such as shredding attachments.

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