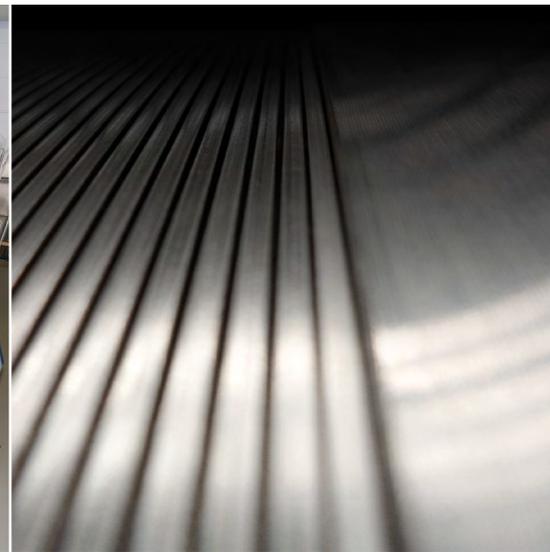


## G-Flex

### Roll covers for high loads



#### **Stainless steel roll covers for the highest loads**

This special stainless steel cover for the press section of your paper machine solves problems such as abrasion, water absorption and heat development. With G-Flex, Voith created a new type of protection for your paper machine.

In roll covers made of polymer material, noticeable heat development can occur in press nips that are subject to high loads. Deformations and abrasion appear on the surface of the covers which reduce the void volume and dewatering performance of the rolls.

#### **Your benefits**

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- + Low abrasion
- + Constantly high void volume even under extreme loads
- + Extremely resistant to cleaning and doctoring
- + High level of temperature resistance
- + No heat development due to hysteresis
- + No water absorption
- + High water savings through elimination of roll cooling
- + Optimal dewatering of the paper web in the nip

### Stainless steel protects against wear

The grooved stainless steel surface of the roll covers makes them more resistant to wear and provides an alternative to polyurethane or rubber covers. The wear resistance of the material leads to less abrasion and longer grinding.

### High load capacity, easy repair

Along with the high load capacity of G-Flex covers, another advantage is the easy maintenance. With light damage to the roll covers, only minimal material quantities need to be removed during each regrinding process, which can be done directly and quickly on site.

### Increased efficiency due to G-Flex

Grinding intervals can be extended with this grooved press roll cover. Moreover, shutdown times due to repairs on the rolls are reduced. In addition, the efficiency of paper production is increased due to the use of G-Flex covers.

### An option for maximum protection against abrasion

If the rolls in the nip require even more protection, Voith optionally offers the CeraVent hard metal coating. Abrasion resistance is increased to the maximum due to this additional coating. Excessive wear is now a thing of the past.

### Technical specifications for various covers

	Variant 1	Variant 2	Variant 3
Area of use	Graphic paper	Board and packaging	Pulp dewatering
Profile	t = 2.25 mm	t = 3.20 mm	t = 4.00 mm
Groove width	0.5 mm	0.75 mm	1.0 mm
Open surface	ca. 22.2%	ca. 23.4%	ca. 25.0%
Void volume	ca. 1,100 ml/m <sup>2</sup>	ca. 1,170 ml/m <sup>2</sup>	ca. 1,250 ml/m <sup>2</sup>
Line load shoe press	1,500 kN/m	1,500 kN/m	1,500 kN/m
Line load roll press	150 kN/m	350 kN/m	350 kN/m



### Contact

Asia: Kunshan, China      Tel: +86 512 577 61 858  
Europe: Heidenheim, Germany      Tel: +49 7321 37 2487  
North America: Wilson (NC), USA      Tel: +1 252 291 3800  
South America: São Paulo, Brazil      Tel: +55 11 3944 4089

### Further Information



paper@voith.com  
www.voith.com/paper

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