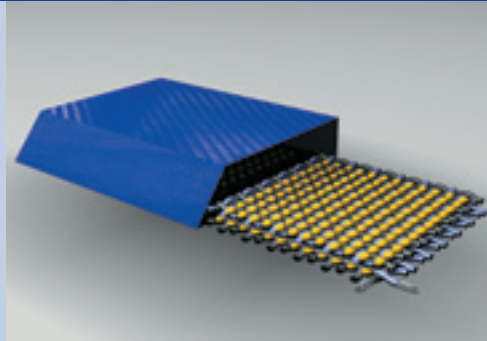
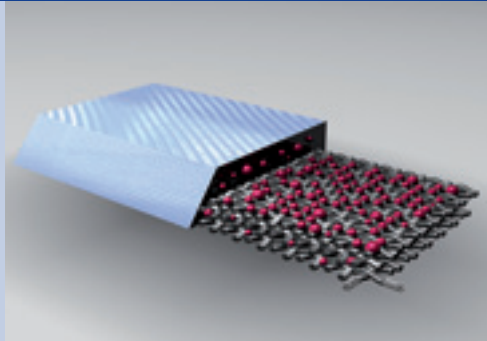


SkyComp 40: fiber composite material with at least 40% carbon fiber reinforcement



SkyClean C: fiberglass and carbon fiber composite with finely distributed cleaning particles



SkyTop T: composite of carbon fiber and high-temperature duroplastic matrix with finely distributed cleaning and polishing particles

Cost reductions and greater machine availability

## The perfect single-source trio: roll, cover and doctor blades

Voith's vast know-how on the interplay between rolls and covers is now enhanced with the introduction of the SkyLine doctor blades. Thanks to the perfect coordination of all components, they increase productivity and enhance paper quality. Specialized technical support is ensured worldwide by Voith Paper Rolls.

Doctor blades and coater blades are produced and tested from Voith Paper Rolls near Wimpassing, Austria. "It was logical for us to choose this location", explains Dr. Norbert Gamsjäger, R&D Voith Paper Rolls, "because it enables us to jointly develop and optimize doctor blades, coater blades and roll covers. Thanks to our roll cover know-how, we can offer

optimized doctors for all applications. Voith Paper Rolls is able to recommend and deliver the right doctor blades for every position in paper machines and for every type and origin of roll cover".

SkyLine doctor blade and coater blade technology is available for all paper machine sections. Voith's de-

SkyLine doctor blades for all paper machine sections  
(red = commercially available)

SkyLine doctor blades	Application area					
	Wire section	Press section	Dryer section	Sizing & coating	Calender	Reel
SkyPoly						
SkyTex						
SkyDur						
SkyComp						
SkyCarbon						
SkyGrid						
SkyClean						
SkyTop						
SkyMet C						
SkyMet S						
SkyMet M						
SkyMet B						



*Voith Paper Rolls service technician changing doctor blade*



*Checking blade wear traces on site to determine the optimal doctor setting*

velopment work focused specifically on fiber composite doctor blade materials and thermal coating of doctor, coater or creping blade. This is the first time in the paper industry that doctor blades have been optimized to precisely suit roll cover materials and surface characteristics.

In order to ensure consistent high quality for dependable paper machine operation, SkyLine doctor blades are manufactured exclusively from first-class materials.

**The perfect blade for every application**

Voith doctor blades and coater blades are thoroughly tested in the Voith Paper laboratories on a wide variety of covers and paper grades using model tribometers. Based on these test results, the blades and covers are optimally coordinated.

To optimize the fiber composite blade design, the textile and resin contents of material mixtures are systematically varied by Voith Paper Rolls. This determines the cleaning effect and service life of SkyLine products. The various product groups are designed to meet different priorities.

SkyComp products are very cost-effective thanks to their material mix of carbon fiber and fiberglass: they combine the efficient cleaning effect of fiberglass with the durability of carbon fiber.

The service life of SkyCarbon blades is particularly long because their reinforcing material is comprised exclusively of carbon fiber.

For the conditioning and gentle cleaning of ceramic covers, Voith Paper has developed the SkyClean, SkyGrid and SkyTop blades. Each type contains different fillers with different grain sizes. The fillers provide excellent abrasive surface treatment, as well as maintaining surface roughness and efficient paper sheet release. The value of this has been proven on various ceramic rolls in the press section. It has been demonstrated that using SkyTop doctors maintains the surface roughness of ceramic rolls constant over their service life, thus enabling higher paper machine operating speeds and longer roll life.

Voith SkyLine doctor blades have also proved themselves well on roll covers of other suppliers.

**Detailed analysis of the doctor blade situation**

Using Voith high-performance doctor blades minimizes material losses and improves the doctor blade wear profile. Fluctuations and deviations of the doctor mountings and beams cannot however be compensated by the blade. To identify such deviations and optimize the doctor blade situation, Voith Paper Rolls can carry out detailed investigations.

These investigations show up any doctor system problem, which can then be combated effectively. Furthermore, the analysis does not stop at doctor systems and roll covers, but also examines all influences on doctor operation such as vibrations, roll geometry, etc. as well as the interplay of rolls, covers and doctors.

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