

Press Release

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Voith expands its series of shaking units free of reaction forces

2013-09-23

Voith Paper is completing its series of shaking units that are free of reaction forces for machine widths of 2–10 m and is now also offering DuoShake with a drive torque of 400 Nm. Shaking units distribute the fiber suspension more uniformly, prevent flakes from developing and thus improve formation. The result is that better paper quality is achieved due to better paper formation using DuoShake. Higher strength values, a reduced tensile ratio and better printability of the paper are also achieved.

In dewatering of the suspension, the fibers frequently tend to form flakes and to distribute unevenly. High-frequency shaking with DuoShake substantially reduces this flake formation. For this, two imbalance pairs are put into rotation by servomotors in a carriage that is mounted in a hydrostatic and thus extremely low-wear fashion. Due to the special arrangement of the pairs, the vertical forces are compensated and the horizontal forces are transmitted to the breast roll by the shaking rod. The high-frequency motion of the breast roll without bothersome reaction forces provides for a reinforced crosswise instead of lengthwise orientation of the fibers and thus improves the formation.

Due to the absence of reaction forces, DuoShake requires only a simple base. The very compactly built shaking unit has an integrated hydraulic system for lubrication and for hydrostatics. Before operating values are impermissibly exceeded, a safety shut-off takes effect. The new design of the DuoShake supplements the range of previous shaking units with drive torques of 150 Nm, 250 Nm and 600 Nm from Voith and is optimally designed for paper machines that are approx. 4–6 m wide, depending on machine speed and weight of the fiber suspension.

DuoShake from Voith is used in 197 systems worldwide. The machine has already proven its capabilities in Europe, China, Japan and North America and South America.

Further information is available on the Voith website at www.voith.com/paper. Voith Paper is also on [Twitter](#) and [YouTube](#).

Voith Paper is a division of the Voith Group and the leading partner to and pioneer in the paper industry. Through constant innovations, Voith Paper is optimizing the paper manufacturing process, focusing on developing resource-saving products to reduce the use of energy, water, and fibers. Furthermore, Voith Paper offers a broad service portfolio for all sections of the paper manufacturing process.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs almost 42,000 people, generates €5.7 billion in sales, operates in about 50 countries around the world and is today one of the biggest family-owned companies in Europe.

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