

To the Press

## Press Information

VZ 003

Date 2006-08

Page 1 / 2

### Fact Sheet: Innovations at Voith

Voith is holding over 10,000 active patents worldwide. Ever year, another 400 innovations by Voith are added. In 2005, Voith in Germany has applied for 108 patents per billion Euro in sales, and is hence on of the most innovative companies in this country. Converted into staff numbers, this would mean that every 80<sup>th</sup> employee at Voith applied for a patent in 2005.

### Pioneering innovations of Voith:

- 1869 1<sup>st</sup> Voith patent (refiner)
- 1873 1<sup>st</sup> Voith Francis turbine
- 1881 1<sup>st</sup> Voith paper machine
- 1903 Niagara (then the world's largest turbines)
- 1922 Kaplan turbine
- 1927 Voith-Schneider Propeller
- 1929 Voith turbo transmission
- 1952 Voith water tractor
- 1952 Voith automatic transmission (DIWA)
- 1960 Hydrodynamic brake, Flotation de-inking process
- 1961 1<sup>st</sup> Voith variable-speed coupling
- 1965 1<sup>st</sup> Turbo reversing transmission for shunting locomotives
- 1968 Voith retarder for coaches
- 1975 High-performance cardan shafts for locomotives
- 1978 Itaipu (world's largest hydro power station)

1985 1<sup>st</sup> Voith Vorecon  
1995 Fish-friendly turbine  
2001 One Platform concept for paper making  
2002 Aquatarder  
2002 T 111 (smallest turbo transmission for railcars)  
2003 Voith Cycloidal Rudder  
2004 Curtain Coater  
2005 SeaLencer  
2006 Paper Technology Center

**For further information, please contact:**

Voith AG  
Corporate Press Office  
Markus Woehl  
Phone: +49 7321 37-2219  
Fax: +49 7321 37-7107  
E-Mail: [markus.woehl@voith.com](mailto:markus.woehl@voith.com)  
[www.voith.com](http://www.voith.com)