

The drive mechanisms are developed and manufactured in our Belgian factory in Edegem, near Antwerp.

Everything takes place under one roof: manufacture of casings, profile milling and precision grinding of pinion shafts, rotation of shafts, selection of stocks from market-leading companies, approval of accessories (pumps, coolers, couplings and other drive mechanism elements.) Hansen Services provides a reliable customer service with the help of its ASP-network.

Visit our worldwide network:

[www.hansentransmissions.com](http://www.hansentransmissions.com)



[www.hansentransmissions.com](http://www.hansentransmissions.com)  
[info@hansentransmissions.com](mailto:info@hansentransmissions.com)

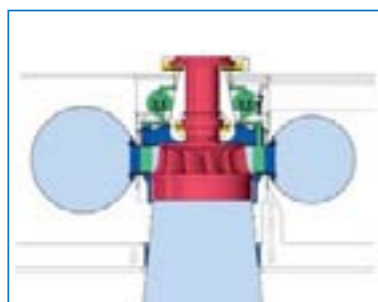
tel. +32 (0)3 450 12 11  
fax +32 (0)3 450 12 20

Hansen Industrial Transmissions nv  
Leonardo da Vincilaan 1  
B-2650 Edegem - Antwerp  
Belgium

0910 / 620 E a

# Partner in Renewable Energy





Francis Turbine



Kaplan Turbine

# turbines

# francis & kaplan

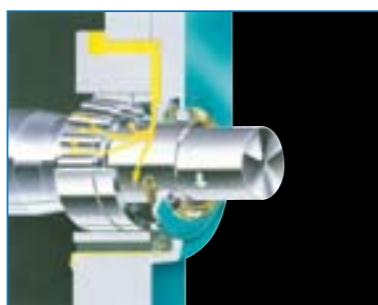
## FRANCIS TURBINE DESIGNED FOR A DROP HEIGHT OF 5 TO 100 M

*A combination of European Directives & Government plans will result in a rising demand for renewable energy. Hansen will assist and support your company in understanding the requirements of changing legislation.*

To help you make the best investment decision, Hansen provides the transmissions solution for small hydro-electric power stations. Guided by experienced specialists and engineers we can optimise the efficiency of your plant and work together to determine the correct transmission selection for you. The Hansen drive mechanism is powered by the rotor of the turbine, which in turn powers an electrical generator. It transmits the power, increases the speed and reduces the torque.

The high quality of the hardened, precision ground gears of the Hansen P4 lets us offer you bevel and helical gear drives with a constant low noise level. The Hansen P4 has an oil lock system™ (free from wear).

The drive mechanisms stem from the Hansen production works in Belgium. The Hansen team concentrates on the essential: the internal manufacture of all pinion shafts and casings. Hansen is striving to become the market leader by using key technologies such as heat treatment, precision grinding of the gearing and the manufacture of casings.



## THE BENEFITS OF CHOOSING HANSEN

### *The advantages of the Hansen P4 series:*

- **The casing is more compact, more stable and more resistant against the penetrations of force from turbine and water.**
- **Standards are set by the quality of the hardened and precision-grinded spur gear and bevel gear drives made out of cement steel.**
- **Thanks to the special form of the toothing and the precision of the manufacture, the noise level is the lowest on the market.**
- **Thanks to our oil lock system™, our shaft sealings work also at high speeds free from wear.**
- **A drywell at the low speed shaft guarantees oil-tightness.**
- **Easy maintenance**

