

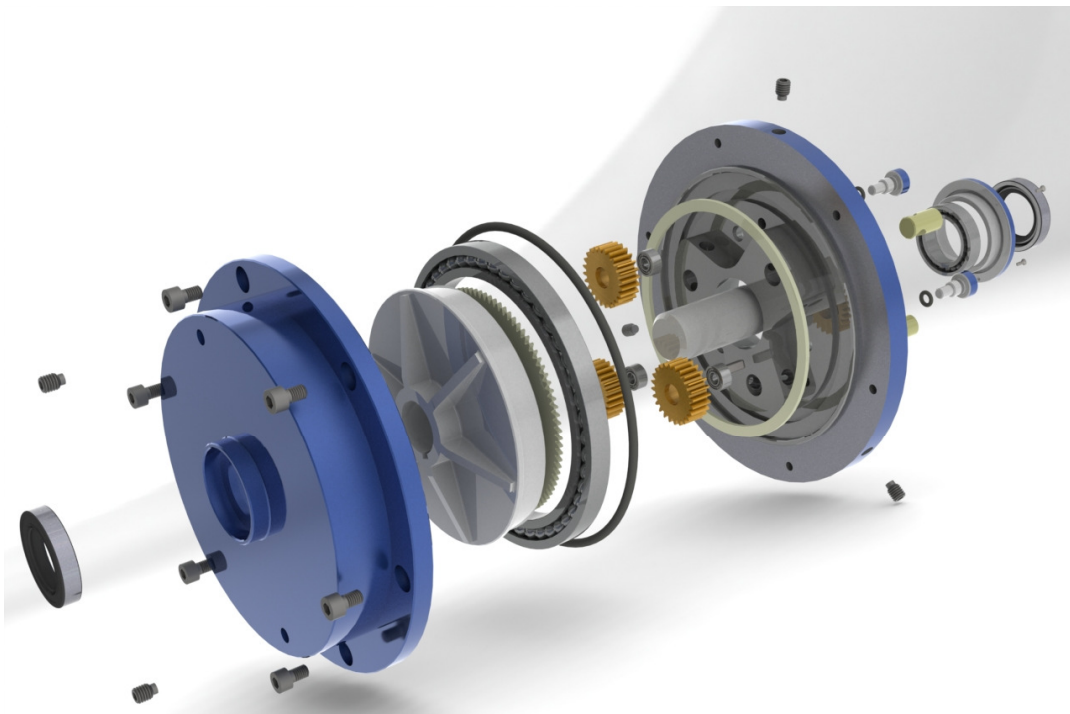


25<sup>th</sup> November 2008

## Technology from Ideas Limited

### TfI Launches Advanced Non-Friction Braking Technology

Technology from Ideas Limited (TfI), an Irish technology commercialisation company, is pleased to announce the launch of an innovative non-friction braking technology (patent pending). The TfI brake requires no brake pads and is based on fluidic resistance, with rotating cogs pumping fluid within an enclosed body with the torque and braking being controlled through the use of valves. The technology is completely scalable from micro sized devices just a few microns up to very large devices a few meters in diameter. It contains few moving parts, is totally sealed and is optimised to deliver maximum performance for minimum volume. The brake has a very low cost of ownership as it has: 1) zero / low maintenance due to having no pad / disc wear, 2) low power consumption and 3) long lifetime. Able to operate successfully as both a dynamic and traditional holding / emergency brake, it can also be configured as a brake / clutch. For certain sizes and applications the brake can be configured to be regenerative through the use of an accumulator and associated hydraulic system.



Unlike most conventional braking solutions, TfI's novel braking technology allows a wide range of parameters to be chosen to optimise a design for any particular customer application. For example: hydraulic fluid, materials, number of planetary gears, number of gear teeth, channel width and valve type can all be optimised and tailored to meet almost any requirement across many applications.

TfI is actively offering this braking technology to manufacturers seeking lower maintenance and lower cost braking solutions for their devices and systems. Demonstration systems can be built for customer specific applications to illustrate performance and key commercial benefits. A number of such demonstration systems are being built and at this stage most applications are still available for licensing. TfI is able to offer a bespoke service to support such customer specific demonstrations. This includes a fully managed project from feasibility study through to detailed modelling using COSMOSFlow and COSMOSMotion, culminating in prototype development and analysis.

## **Notes for editors**

Approximate scope: 1,817 characters, 333 words

## **About Tfl**

Technology from Ideas (Tfl) is an Irish seed investment and commercialisation company that specialises in conducting proof of concept development on early stage, technology based ideas submitted by academic researchers. The Intellectual Property (IP) is evaluated, protected and developed further in our own laboratories before being licensed to end customers.

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