

Sentec Ltd (a Xylem Inc. Company) offers for sale patents and technology assets suitable for applications requiring a low-cost solenoid with piezo-electric actuator equivalent performance, such as GDI, DI-CNG and Diesel fuel injection.



"A one-off opportunity to own a high-performance magnetic actuator technology"

Dr Mark England, CEO

"Piezo-like performance at solenoid cost"

Andrew Dames, CTO

➤ Future Advanced Injection and Combustion

Exactus is an enabling fuel injection technology that allows a very high degree of control and flexibility that de-risks the unknown future emissions standards requirements, and as yet unknown customer demands.

Sentec's patented Exactus technology opens up future advanced injection and combustion strategies that will enable you to meet your customer's future needs for emerging emissions standards beyond Euro 6d and LEV III.

As a direct benefit of the very high degree of control over injection there will be a reduction in the need for post treatment, this means reduced costs and improved economy CO₂/km.

As the Exactus GDI injector has a standard solenoid GDI injector form factor no engine head re-design is necessary. Because of the standard height no OEM vehicle design compromises are introduced for using this new generation of injectors.

The very high degree of control and accuracy, that other solenoid injectors can't provide, is of great value in challenging scenarios such as high acceleration and engine warm-up, and for more demanding combustion strategies.

Exactus enables these benefits at **50% of the cost** of the only other long term solution.

Owning the Exactus technology will give your company a significant future market advantage. Additionally it provides opportunity to the owner for second source licensing revenue.

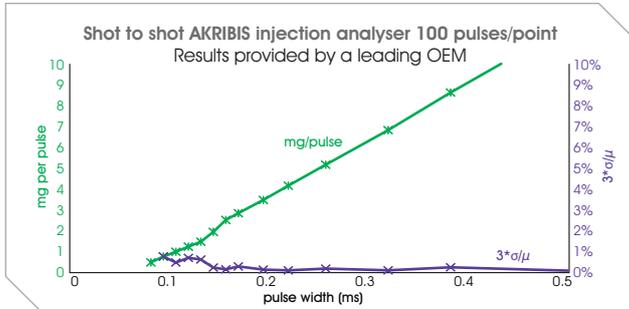
Assets

- 4 families of patents
- 19 granted patents (including Germany, France, USA, Japan, China, Italy, UK)
- 9 pending patents
- Further unpublished initial filings
- Test software
- CAD Files
- Prototype injectors
- Analytical models

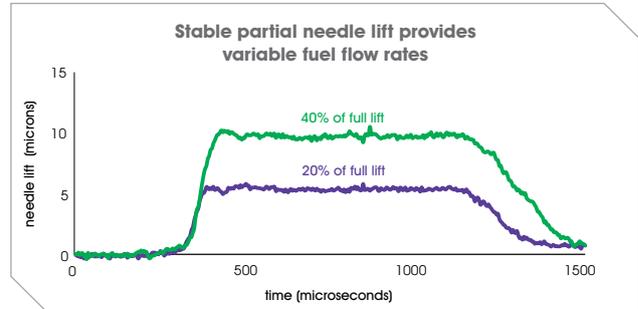
Offers Invited

- Timing early 2019
- Guide Price USD 500,000
- Further details available
- Contact **Mark England** at **exactus@sentec.co.uk**

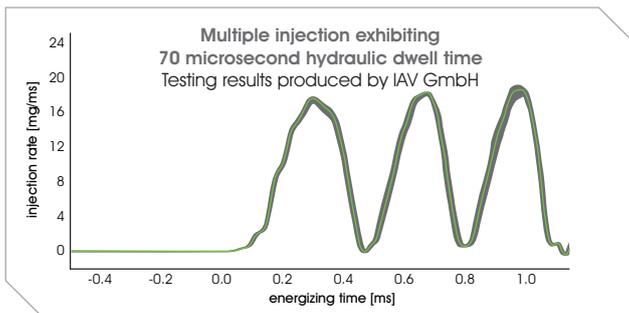
Advanced Capabilities enabled by Exactus



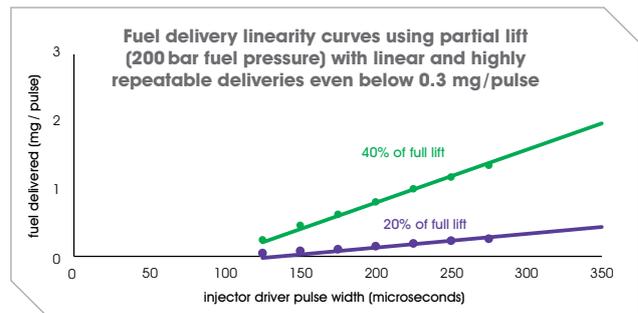
Excellent linearity and repeatability over the full operating range, even in challenging low power situations, enabling more demanding customer injection strategies to be satisfied.



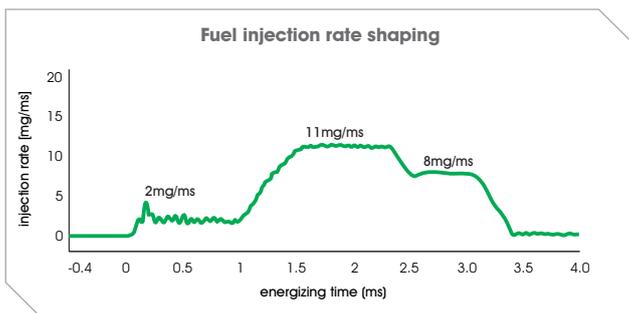
Enables future combustion strategies. Supports highly controlled injection strategies at engine warmup.



Supports multiple closely spaced injections per cycle at high and low speeds, which avoids wall wetting and its associated particulate emissions.



High linearity continues in variable needle lift usage, even at deliveries below 1 mg/pulse, where accuracy is compromised with current technologies.



Unique rate shaping possibilities, for advanced combustion strategies, now available at solenoid cost.

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Dr Mark England, CEO

“Exactus de-risks the unknown future emissions standards requirements, and as yet unknown customer demands”

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