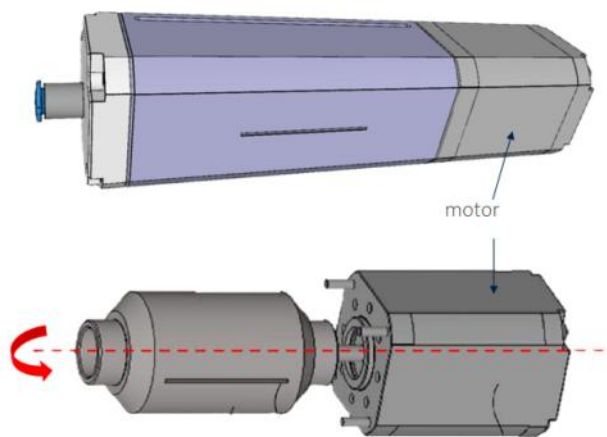


Rotary gas valve for better control and fast repetition speeds

New rotary gas valve design for better control and fast repetition speeds.

Fast rotation of the rotary element inside the external casing leads to intermittent alignment of the two slits so gas from inside the rotary element can escape.

Applications: Gas jet, gas valve, rotary valve



Features	Benefits
Alignment mechanism is precise and repeatable	So clean, well-defined gas pulses can be generated
Well-defined slot geometry	Can shape the gas flow consistently, achieving a reproducible density profile
Larger opening is possible (cm scale)	So can operate at higher pressures and closer to active areas, such as points of laser interaction

Features	Benefits
Short jet opening time	Allows for fast repetition times that can be synchronised with other features in the system, such as the laser with a Laser Wakefield Accelerator, and low gas load in the chamber

Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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