



Petitpierre

Acrotec Group

Press release

Drop & Lumen rethink parts cleaning and optical metrology post-production

No more manual micro-technical component cleaning in semi-clean parts washers! No more optical measurement in designated rooms far from your machines! By imagining two independent compact units: Drop & Lumen, designed to be located close to turning machines to clean and measure parts in a stringent and harsh workshop environment, Petitpierre SA is innovating and completely rethinking these two fundamental steps in the turning process.

Develier, 27th June, 2022. Bar turners dreamed about it; Petitpierre did it! After more than two years of testing and development in real-life situations with stringent bar turners in the Acrotec Group, **Lumen** is now available on the market.

"Our priority was clear," says Vincent Rieder, director of Petitpierre's metrology division. "We wanted to provide added value for bar turners in the stringent and harsh environment of a workshop, where parts cleaning and measurement can be done directly post-production, without having to change location, thus saving precious time and ensuring maximum reliability."

Lumen, the solution for optical measurement directly post-production, allows instant component measurement up to 15 mm in size, thanks to simple and fast vertical or horizontal fixtures, depending on the part type (revolution parts or plateau-type parts). The part is immediately detected and measured after intelligent analysis of the cleanliness of the fixture. A maintenance kit for optics and fixtures is also provided. The interchangeability of fixtures, the fast changeover, the unnecessary use of tools and the lack of setup required are among the many advantages of Lumen.

To be measured correctly, parts must be cleaned perfectly. **Drop**, the automatic cleaning unit, guarantees repeatable cleaning quality and perfect synchronisation of the cleaning and measurement processes, thanks to a quantity of solvent that is adapted to the part, and a sole use of benzine. It's possible and easy to perform three cleanings simultaneously thanks to a vacuum gripper that is adapted to the parts, easy to use and cleaned automatically.

The Drop + Lumen package, for which a patent application has been filed, is a real breakthrough in microtechnical parts cleaning and optical measurement post-production.

More information: <https://go.petitpierre.ch/brochure-lumen-EN>

Media contact: Stephan Post –Tel.: +41 (0)79 702 00 40 - spo@dynamicsgroup.ch

About Petitpierre: Based in Cortaillod and Boudry, in the district of Neuchâtel, Petitpierre manufactures specialised machines for the high-precision microtechnology industry. It has a inventory of more than 50 production machines (CNC turning and milling, wire erosion and die sinking, bar turning, planar and cylindrical grinding). In short, it has all the equipment necessary to produce high-quality tools. The company supplies, among other things, essential after-sales service products, such as torque screwdrivers, torque meters, dimensional and shape measuring instruments, watchmakers' magnifying glasses and luxury watchmaking tool cases for collectors. www.petitpierre.ch

About the Acrotec Group: Acrotec is an independent group created by micromechanics professionals. Its main objective is to be a reference subcontractor, offering a wide range of manufacturing processes for precision components. Its strategy is to provide "Swiss-made" quality products to the entire watch and jewellery industry, the medical industry, as well as to the automotive, electronics and aeronautical sectors. Acrotec is distinguished by its extensive expertise, cooperatively, **in precision machining** (CNC turning, CNC multi-spindle turning, cam turning, 3 & 5-axis milling, micro-turning, transfer and machining of precious metals), by **supporting processes** (surface treatment, cutting, assembly, heat treatment, finishing and laser engraving) and by **specific processes** (UV-Liga component production, wire erosion/sinking, synthetic stone machining, rolling, spring forming, machine and tool production and silicon engraving - DRIE). The Group currently employs over 2,300 people. www.acrotec.ch/en