

Perfect Bore to support development of IPG's flameless generator

18th March 2022, London: IPG and Perfect Bore Manufacturing have formed a strategic partnership to develop the assembly process for volume production of key ceramic components in the IPG Flameless Generator.

IPG, developer of the IPG Flameless Generator, and Perfect Bore Manufacturing, experts in grinding and engineering support, are pleased to announce their strategic development partnership to optimise preparation and assembly solutions for key ceramic components in IPG's fuel-flexible, pollutant-free, highly-efficient generator technology.

The companies have been working together throughout prototyping of the IPG Flameless Generator to develop the precision finishing requirements and assembly process for the ceramic turbine component. This strategic collaboration aims to advance the grinding processes of rotor elements and optimise the assembly process for volume manufacturing.

"A key challenge for any new technology developer, like IPG, is validating the route to low-cost, volume manufacturing of their product. By calling on Perfect Bore's expertise in manufacturing and R&D, through this partnership, IPG has secured a foundational piece to this puzzle, as we now progress towards customer trials and beyond into low-volume sales," said **Toby Gill, CEO of IPG**.

"Perfect Bore recognises the potential in the IPG Flameless Generator to achieve significant market share as a true replacement to the diesel generator, at a time when industries are searching for a clean solution to their distributed power needs," said **William Laughton, Director of Perfect Bore Manufacturing**. "In partnering with IPG, we look forward to employing our precision engineering expertise to advance IPG's technology, answering this industry call on a large scale."

IPG is currently delivering a £1 million prototype project with National Highways to demonstrate the IPG Flameless Generator, delivering off-grid, pollutant-free power from both hydrogen and natural gas. Following a £2m close of their seed round in March 2021, IPG are preparing to launch a crowdfunding campaign, to raise funds to support the deployment of customer pilot trials.

Perfect Bore Manufacturing offer precision engineering and R&D solutions for major OEMs and companies in industries ranging from aerospace to power generation. Bore solutions supplied by Perfect Bore can be found in components manufactured by major OEMs such as Airbus, BAe, Goodrich Actuation Systems, Boeing, Moog and Rolls Royce; supporting projects including B787 Dreamliner, A400M and A350. Perfect Bore will advance the

optimisation and precision manufacturing of ceramic components as IPG progress towards the market delivery of the innovative IPG Flameless Generator.

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Image caption: rendered product image of the IPG Flameless Generator.

About IPG

IPG is a British climate-tech company, reinventing fuel-based power for the renewable future, to enable businesses to end their reliance on diesel generators.

The IPG Flameless Generator is a modular distributed power solution, delivering pollutant-free power from any renewable fuel. High efficiencies deliver low-cost, low-carbon power on today's fuels, whilst dynamic fuel flexibility de-risks the transition to net-zero fuels.

To learn more about the IPG Flameless Generator, join their latest crowdfraise campaign or find out more about future commercial trials, visit www.ipg.energy.com.

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About Perfect Bore Manufacturing Ltd.

Perfect Bore works with major OEMs and sub-tier companies operating in market sectors including the aerospace, oil & gas, nuclear, scientific instruments/medical, automotive and power generation industries. These industries require the production of bores in components to extreme tolerances and in some cases to sub-micro geometrical tolerances combined with specific surface finish requirements. It also offers Research & Development for one-off prototypes and a dedicated manufacturing facility to produce high-quality parts to exacting tolerances.

<https://www.pbm-ltd.com/>

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