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## Development of an oil-free compressor for GM and pulse tube cryocoolers

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Pressure Wave Systems GmbH has developed an oil-free compressor for GM and pulse tube cryocoolers. The concept is based on hydraulically driven metall bellows which compress the Helium working gas. The system has 1kW of electrical input power and has been successfully tested with a SHI SRDK-101D GM cryocooler cold head.

Set-up, performance and reliability of the compressor system will be discussed.

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