

## 'PDQ' precision grinding with KELLENBERGER

Yeovil-based PDQ Precision Ltd was established in 2012 by managing director Martin Thrower after the company he then managed was sold by its owners. With the help of local machine tool company YMT and the support of several local engineering businesses, he quickly established the foundations of what is now a comprehensively equipped, flexible manufacturing company.

Over the past decade, PDQ's philosophy of offering a cost-effective, end-to-end range precision machining services has resulted in the company enjoying phenomenal levels of growth. Amongst other demanding sectors, the ISO 9001:2015 registered business now serves the aerospace, medical, motorsport and packaging industries. In addition, PDQ has gained approvals from multi-national businesses such as Leonardo Helicopters.

Precision grinding is one of PDQ's key strengths. The company's well equipped grinding section enables first-class centreless, universal, fine grinding and surface grinding to be undertaken. The latest addition to PDQ's impressive grinding provision is a recently installed advanced KELLENBERGER CNC Universal Grinder.

Martin Thrower explains: "Although PDQ has expanded over the past 10 years and now counts several multi-national businesses as customers, we still adhere to our founding principles of helping customers to solve their problems, even if it means producing precision parts that most companies would turn down. We also offer overflow, single operation machining to other engineering companies. As our skilled staff have access to a wide range of high-precision machine tools, our old



fashioned values even extend to situations such as helping the man in the street who needs the cylinder head of his car to be skimmed.

"Although we have earned a reputation as a comprehensive one stop shop machining facility, if we have a speciality it is in the area of precision grinding. Our finish grinding capabilities are known throughout the South-West and increasingly beyond and we are used as a sub-contract grinding facility for many engineering companies.

"To enable our grinding section to keep-pace with ever increasing demand we recently searched for a highly-efficient universal CNC grinding machine that was able to produce high-accuracy work. In addition, as we generally grind relatively small volumes of components, we looked for a flexible machine that had quick setup capabilities.

"Although a couple of the universal CNC grinding machines that we looked at satisfied certain aspects of our needs, it was an advanced KELLENBERGER machine that fulfilled all of our requirements. Our new KELLENBERGER universal CNC grinding machine is now delivering on all the promises made and producing the required large volumes of high-quality precision components."

PDQ's KELLENBERGER universal CNC grinding machine is optimised for the highly-efficient grinding of small to medium batches. The innovative, compact machine delivers 100 percent reproducible universal grinding and is ideal for use in situations where high levels of adaptability, speed and precision are demanded.

The cost-effective machine's Z-axis movement uses traditional guideways which guarantee a high degree of damping, whilst the machine's X-axis movement utilises roller guideways which deliver non-stick/slip

positioning. Heidenhain high-precision nano-resolution linear scales are used in both axes.

The space efficient KELLENBERGER machine was designed with two external and one internal grinding spindle, selected via a programmable B-axis. The machine's swivelling workhead is suitable for both grinding between centres and for chucked work, further flexibility is provided by a manually operated swivelling upper table.



The machine's wheelhead exhibits excellent thermal stability characteristics thanks to the use of optimised spindle bearings and water-cooled motors, in addition the use of thermally-optimised bearings guarantee the highest standards of roundness and dimensional accuracy. To minimise the negative thermal effects of coolant, the machine's coolant tray is separated from the machine bed.

Ideal for use by experienced grinding professionals or less experienced staff, the innovative grinding machine benefits from an easy-to-use operation system, therefore no previous programming knowledge is necessary. Further aiding ease-of-use, a FANUC Oi CNC control system enables straightforward operation thanks to the use of user-friendly menu-prompting.

Designed with advanced ergonomics in-mind, excellent visibility of the grinding process is provided by the advantageous arrangement of viewing windows and a beneficial centre height. Ease of manual loading and unloading is ensured thanks to the machine's low base height, whilst rapid setup times are facilitated by the use of a useful travelstick and handwheel.

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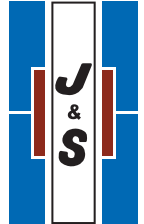
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