

# Consort Precision Diamond Company

Established in 1984, Consort Precision Diamond Company manufactures rotary diamond dressers. These are used extensively in niche grinding operations to transfer highly accurate, repeated configurations on to components.

Increasing demand for accurate, high-speed production means that it is essential that grinding wheels used in industrial processes are maintained in optimum condition. Rotary diamond dressers are recognised as the most efficient and economic means of dressing and truing grinding wheels to the correct form, tolerance and condition. As a result, the use of rotary diamond dressers is growing rapidly in the manufacture of components for automotive, aerospace, power generation, machine tool and precision engineering industries.

Consort Precision is one of very few companies in the world which produce rotary diamond dressers as a sole product. Its workforce, now 24 strong, has acquired the manufacturing experience and knowledge which has enabled the company to establish itself in the global market of prime and subcontract component manufacturers, earning the respect of both competitors and customers. Customers are advised on the most appropriate type of rotary diamond dresser by reference to the configuration required and to the grinding machine on which it is to be used. Correct specification involves the appropriate design, selection and placement of diamonds in a way that takes into account all the factors affecting the individual application. A key area of Consort Precision's expertise is in specifying and manufacturing rotary diamond dressers for bespoke applications.

Three basic manufacturing processes are employed by the company; handset sintered, random set sintered and reverse plated. In each process, selection of diamond type and their placement into the periphery of the rotary dresser play a major part in determining its operational life and performance.

In recent years, the company has introduced innovations into the manufacture of reverse plated diamond dressers. In 1995, it was awarded a Boost award for the design and development of a high speed plating process which dramatically reduced lengthy plating times. This has given the company a competitive edge over alternative suppliers and satisfied customer demand for shorter lead times. Consort Precision also received a Smart award for the development of an electro-forming process which reduces the process time employed in the manufacture of reverse plated rotary diamond dressers.



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