

MANUFACTURERS OF DIAMOND DRILLING TOOLS AND ASSOCIATED PRODUCTS

M. DIECKMANN

Diamantwerkzeug- Fertigungsgesellschaft mbH

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INTRODUCTION TO THE COMPANY

DIECKMANN Diamond Drilling Tools GmbH was established in 1974 to manufacture Drilling Tools for the Oilfield-, Mining- and Civil Engineering industries.

Diamond Drilling Bits, Coring-Bits setted with natural and synthetic diamonds, and associated equipment.

A wholly German owned Company, all its products are manufactured in the Federal Republic of Germany.

The Company employs highly experienced manufacturing and design personnel, is innovative and offers the personal service that larger producers find difficult to maintain.



▲ FACTORY NIENHAGEN / CELLE

THE FACTORY

Situated at Nienhagen/Celle, the centre of the German Oil-Drilling industry, has 1.100 sq. m. production area. The machining capacity including CNC-lathes, electric furnaces for temperatures up to 1.400 °C, with conventional or atmosphere control.

The design department using the latest Computer-Aided-Design system, is able to react quickly to the unusual requirements of the drilling industry.



▼ CAD-CAM STATION



▲ FACTORY WESTERCELLE

▲ EDM



◀ HARDNESS-TESTER



◀ CNC-LATHES



▲ MACHINE SHOP

PRICES and deliveries are very competitive and fast reaction time to unusual requirement of the drilling industry is normal.

There is complete technical back up with full inspection techniques, and manufacturing to the relevant industry standards.

OILFIELD DRILLING TOOLS



DB 311 DIAMOND



DB 426 STRATA-CUT



CB 52 STRATA-CUT 8 1/2



CB 23 DIAMOND



DB-ST DIAMOND



CB 52 STRATA-CUT 12 1/4



CB 20-1 DIAMOND



DB 422 STRATA-CUT



DB 42 WINDOW-MILL



CB-S10 SYNSET



CB 2-79 IMPREGNATED



WASHOVER-SHOE

DIECKMANN manufactures a complete range of oilfield matrix core-bits, drill-bits and washover-shoes with natural and synthetic diamonds. Drill-bits sizes range from 12 1/4" down for rotary or turbine application. Core-bit sizes range likewise from 12 1/4" down and are manufactured to fit all relevant types of oilfield core-barrels. Drill-bit and Core-Bit design, diamond type, quality and size are matched to suit the various formations encountered in the oil and gas drilling industry.

MATRIX TECHNOLOGY

DIECKMANN matrix is manufactured from high quality materials. Quality checked to ensure maximum erosion resistance. Impregnated bits are manufactured with various matrix types to match the formations designed to wear and expose new cutting points throughout the life of the bit.

DIAMOND STRATA-CUT BITS PCD

PCD cutters are used in core-bits and drill-bits, all types are available. These STRATA-CUT cutters consist of a polycrystalline diamond layer bonded to a tungsten carbide backing. The diamond layer provides great strength and wear resistance while the tungsten carbide backing reinforces wear resistance with high impact strength.

DIAMOND SYNSET BITS PCD

The DIECKMANN Synset-diamond-bits put a new type of self-sharpening synthetic polycrystalline diamond structure to work in advanced matrix bits designs. These cutters which are solid PCD and which do not have a tungsten carbide backing are thermally stable and can therefore be built into the bit matrix in the same way as natural diamond. The cutters are positioned for aggressive cutting action and maximum drilling life.

MINING DRILLING

TOOLS

Sophisticated techniques are employed in manufacturing DIECKMANN diamond drilling bits.

DIECKMANN manufactures a wide range variety of diamond tools such as core bits, casing bits, non-coring and thin wall diamond bits... In addition DIECKMANN provides a full line of tungsten-carbide bits designed to suit a full range of core requirements.

DIECKMANN STRATA-CUT Diamond bits

STRATA-CUT core-bits are designed for maximum core recovery in soft to medium formations. They are particularly applicable in soft, sticky formations where performance of large stones diamond bits may be marginal DIECKMANN STRATA-CUT bits can be supplied for most standard core barrels.

DIECKMANN SYNSET Diamond bits

DIECKMANN SYNSET diamond bits utilize a new type of

thermally stable, selfsharpening synthetic polycrystalline diamond setted in tungsten carbide matrix.

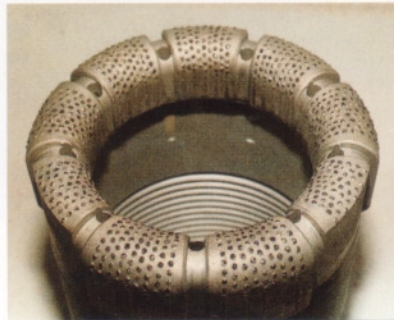
The synthetic diamond cutter is positioned for aggressive shearing and plowing action and maximum drilling live.

DIECKMANN impregnated diamond bits
DIECKMANN impregnated diamond bit technology offers consistency, superior coring performance and longer bit life in hard formations or special applications.

Uniform diamond exposure and distribution give these bits consistent high performance throughout each run.



DIAMOND CORE BIT



DIAMOND CORE BIT FD



DIAMOND CORE BIT



STRATA-CUT CORE BIT



WL DIAMOND CORE BIT



SYNSET CORE BIT WL



SYNSET CORE BIT



STRATA-CUT CORE BIT



TC REAMER



HOLE OPENER



DIAMOND NON CORING BIT



STRATA-CUT NON CORING BIT

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