

Bevel Gears for Thrusters

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Abstract

For more than 70 years right angle gear boxes have been used for marine drives. One of the first was built by the company Voith in Germany, the Voith-Schneider® Propeller. After the Second World War the company Schottel came up with one of the first thrusters driven by two bevel gear sets. Nowadays installations are running for instance in Finish ice-breakers with a power of 7500 kW which are driven by right angle gear boxes.

For more than 30 years the Klingelberg company has produced spiral bevel gears for right angle gear drives. Klingelberg Söhne GmbH, a member of the Klingelberg Oerlikon Group, is an international active machine tool manufacturer in Germany. The activities of the Klingelberg-Oerlikon Group whose origin dates from 1814 is managed today by Dieter Klingelberg who is the chairman of the board of directors. The Klingelberg Söhne GmbH in Hückeswagen is engaged in spiral bevel gear cutting machines for small and medium sized production series, spiral bevel gear grinding machines, worm and thread grinding machines, hob sharpeners, gear measuring machines and job manufacturing of spiral bevel gears. In our spiral bevel gear job shop we produce spiral bevel gears in a range from 10mm up to 2200mm pitch diameter. Since 1980 we have been able to hardskive case hardened spiral bevel gears within the German DIN Quality of 6 or the AGMA Quality of 12.

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