HELICAL GEAR

Helical gears are one type of cylindrical gears with slanted tooth trace. Compared to spur gears, they have the larger contact ratio and excel in quietness and less vibration and able to transmit large force. A pair of helical gears has the same helix angle but the helix hand is opposite.

When the reference section of the gears in the normal plane, by tilting the hobbing tool, the sour gear hobbing machine any hobbing tool can be used to produce helical gears. Because of the tribit of team, their manufacturing has the disadvantage of more difficult production.

The helical gears made by BK Industries can be nto two groups by the reference section of the gears being in the plane (transverse module) and normal plane (normal module). (f ne rete ice s ction is in ge the rotating plane, the center distance is identical to they are the same module and number of teeth. The s allow swapping with spur gears. However, in this case, they re hobbing cutters and grinding stones, leading to higher production cost. On the other hand, if the reference section is in the normal plan it is possible pols and grinding stones. However, the same to use spur gear hol module and number in spur gears no longer match the center distance of hel swapping becomes very difficult. In addition, not an integer. the center distal

While spur gears do not generate axial thrust forces, because of the twist in the tooth trace, helical gears produce axial thrust force. Therefore, it is desirable to use thrust bearings to absorb this force. However, combining right hand and left hand helical gears making double helical gears will eliminate the thrust force.

Helical gears are often used in automotive transmissions by replacing spur gears.