

SPIRAL BEVEL GEAR SETS

MILITARY HELICOPTER GUN SYSTEMS



PROBLEM

A global weapons system OEM needed reliable gearing for a belt-fed chain gun installed on helicopter gunships used by various branches of the U.S. military. The compact gun is designed to achieve a high volume of fire (more than 550 rounds per minute). The gunships typically feature a chain gun mounted to each side of the aircraft.

A .5 HP DC motor-driven chain drive powers the belt feed system that automatically loads 7.62 mm rounds into the gun. High performance gear sets are required to ensure smooth, continuous linked-belt feeding without jamming.

SOLUTION

To meet the challenging chain drive specifications, Boston Gear supplied special hardened steel spiral bevel gear sets. The spiral bevel gears provide improved gear mesh and increased tooth contact.

HIGHLIGHTS

- Spiral bevel gear sets
- Hardened steel
- Improved gear mesh
- Increased tooth contact

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