



Product

Spiral Bevel Gear Sets

Application

Military Helicopter Gun Systems

Highlights

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

A global weapons system OEM needed reliable gearing for a belt-fed chain gun installed on helicopter gunships used by various branches of the US 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.

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.

US (Application Assistance)
1-800-816-5608
bostongear.com

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