

SCALING FROM JOB SHOP TO PRODUCTION WITH GEAR HQ

CASE STUDY

INTRO

Gear Headquarters is a specialty gear manufacturer known for custom gear machining and quick-turn breakdown and repair services. The team installed the Hera 750 CNC gear hobbing machine from Helios Gear Products to modernize legacy gear cutting, accelerate emergency repairs and custom jobs, and bring higher-volume OEM production in-house with faster cycles and consistent quality.

OVERVIEW

Historically a quick-turn job shop, Gear Headquarters often outsourced OEM runs. With the Hera 750's rigidity, speed, and dialog programming, the team now produces those parts in-house with repeatable results, improved lead times, tighter process control, and stronger margins. Early wins include dramatic cycle-time reductions and ground-like finishes in a single pass. Ramp-up was fast, enabling a new machinist to run production independently within days.

COMMON APPLICATIONS

- Spur gears
- Helical gears
- Other hobbled profiles

Hera 750

1.6 DP

Max Pitch Rating

30.7"

Max Part Diameter

7

CNC Axes



CUSTOMER FEEDBACK

A recurring three-blank stack that once required about eight hours now runs in roughly 44 minutes. A 14-hour part with multiple cuts and a hob change is down to about 45 minutes. Operators report excellent repeatability across long gaps between jobs, and onboard deburring reduces manual touch time. Hands-on support from Helios applications engineers and a pre-acceptance run-off in Korea helped the team hit the ground running quickly.

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We had jobs that took three days on the older machines. Now they take about six hours. The finishes look almost ground-like, and the repeatability is insane.

BRAD STUEVE, MACHINIST AT GEAR HEADQUARTERS

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