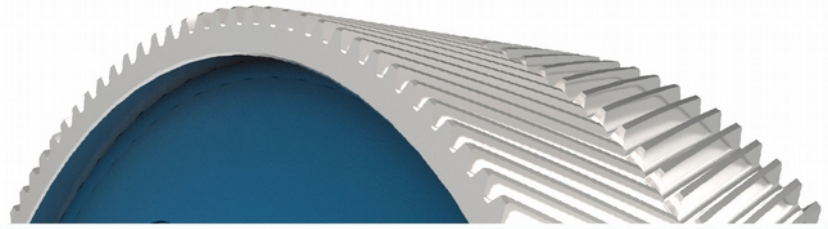




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HMC Gears Manufactures Massive Gear Set for The Army Corps of Engineers

By Ryan Parke
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Princeton, Indiana – Locally owned HMC Gears has just finished manufacturing a large gear set and pinions for the Army Corps of Engineers. When installed, they will produce electricity for the Ozark Hydroelectric Power Plant in Ozark, Arkansas. These components are for a speed-increaser that connects the turbine to the generator. The gear and shaft assembly weigh roughly 125,000lbs and consists of a 174" diameter low speed gear and a 143" long low speed shaft. We also manufactured two low speed pinion shafts each weighing over 26,000lbs. These speed-increasers are rated at 33,800 horsepower. This project presented many challenges including: the sheer size and weight of the components, the dynamic balancing required of the gears and pinions, and the mesh testing of these large parts. This was a very precise and demanding project that all of us at HMC are proud to have been a part of, and truly demonstrate the HMC Difference.

About HMC Gears

Founded in 1921, HMC Gears is a family owned and operated world-class large gear manufacturer. Using state of the art technology and equipment, HMC Gears manufactures large, precision components and gearing for a worldwide client base. For more information, please visit www.hmcgears.com

About The Ozark Hydroelectric Power Plant

The Ozark Hydroelectric Power Plant is situated on the Arkansas River about one mile southeast of the town of Ozark, Arkansas and is managed by the Little Rock District Corps of Engineers and consists of (5) hydraulic inclined-axis tubular turbines with 315" diameter Kaplan runners.

Contact

To learn more about this project, please contact

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**full resolution photos available upon request.*

