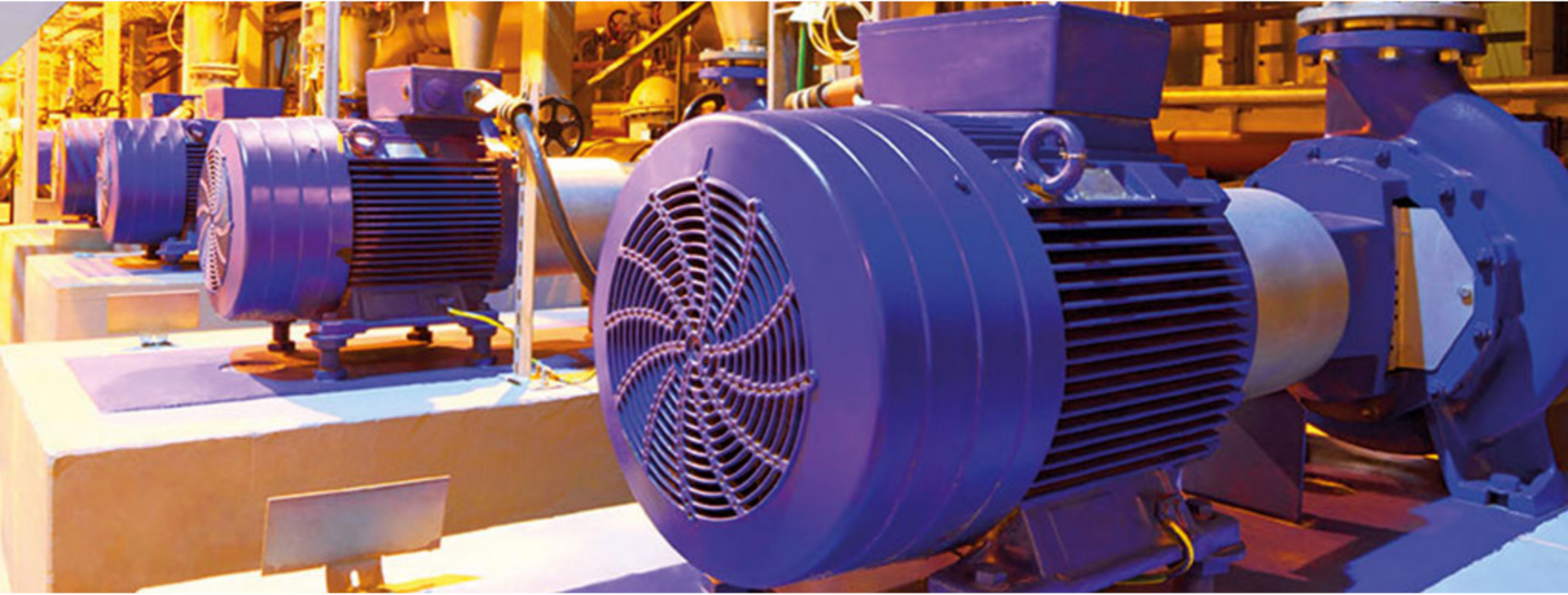


Industrial Gear Motor Retrofit for a Leading Manufacturing Facility

Smart Efficiency for High-Load Conveyor Operations:
Enhancing Energy Performance, Reliability &
Production Stability



The Challenge



A major industrial facility operating distribution conveyors, roller lines, and cutter machines was experiencing growing operational inefficiencies due to outdated gear motors.

These legacy units created multiple constraints:



High Energy Consumption



Recurring Maintenance Interruptions




Excessive Noise & Heat Generation



Reduced Process Reliability & Throughput

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Our Smart Retrofit Solution

Avanceon modernized the facility's equipment by retrofitting old gear motors with WEG WG20 Gear Motors, featuring IE4 Super Premium Efficiency technology.



Drop-In Mechanical Compatibility:

Fully interchangeable with outdated motors, eliminating redesign or system modification.



IE4 Super Premium Efficiency Motors:

Reduced power draw and significantly improved energy performance across all conveyor applications.



Lightweight, Heat-Dissipating Housing:

Aluminum end shields and an optimized casing design ensured cooler operation and extended motor life.



Optimized Gear Geometry:

Lower mechanical losses, reduced noise levels, and smoother torque delivery.



Maintenance-Free Operation:

Lubricated-for-life units rated up to 600 Nm, reducing maintenance frequency and operational disruptions.

The Impact



Reduced Energy Consumption:

The new IE4 motors immediately lowered electricity usage & improved overall efficiency.



Lower Operating Costs:

Less power consumption and fewer maintenance interventions drove noticeable cost reductions.



Improved Uptime & Reliability:

Modernized gearing strengthened system stability & minimized unplanned downtime.



Extended Equipment Life:

Enhanced thermal performance and optimized gear design increased long-term durability.



Alignment with Sustainability Goals:

Lower noise, reduced energy use, and improved efficiency supported broader ESG and optimization targets.



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Get in Touch



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