elinmotoren.com

Synchronous reluctance motor
Outstanding design and precision

As a leader in electric motor technology, we have developed an electric motor meeting the highest demands in energy efficiency, cooling technology, and robustness. This ambitious initiative represents our commitment to pushing the boundaries of what is possible in motor design and performance.

Ultra-premium efficiency

The water-jacket cooled synchronous reluctance motor is specifically designed for the challenging environments of the plastic extrusion and recycling industries. This motor sets new benchmarks in performance, reliability, and environmental sustainability. Capable of achieving IE5 class efficiency for motors up to 500kW, the advanced reluctance motor far surpasses the performance of traditional asynchronous technologies. Through an innovative rotor sheet design we have optimized sheet bridge widths and air gaps, enhancing the overall efficiency.

Precision is further enhanced with a perfectly matched variable frequency drive system that ensures seamless synchronization, improved torque control, and reduced energy losses.

This motor is not merely a product; it is a revolutionary solution. Our commitment to excellence is highlighted by the outstanding performance of our 200kW prototype, which has achieved an impressive efficiency of 96.8%, firmly establishing its place in the ultra-premium efficiency category.

Key Benefits

+ Precise speed and torque
+ Water-jacket cooling
+ Fine-tuned variable frequency drive
+ Ultra-premium efficiency IE5