



LOUIS ALLIS
A WORLDWIDE ELECTRIC COMPANY

Specialty Motor Manufacturing

Custom motors for unique and challenging applications

With extensive design and engineering capabilities, Louis Allis specializes in manufacturing new motors as well as re-machining and modifying existing motors for the world's most unique and challenging applications. Louis Allis can customize the footprint, form, fit, and function of these specialty motors to meet the needs of almost any application up to 15,000 horsepower. Over the last century, Louis Allis has produced more than two million motors and more specialty motors than any other U.S. motor manufacturer.

Key Features

- Specialty motors specifically designed to meet the needs of your application
- Low, medium, and high voltage motors up to 15,000 HP available
- Manufactured at Louis Allis' **ISO 9001:2015** certified facility in Warrior, Alabama

Louis Allis, A WorldWide Electric Company

WorldWide Electric Corporation acquired Louis Allis in March 2020, creating a single source for a full range of reliable standard off-the-shelf products, modified standard products, and full custom specialty products.

Specialty Motor Manufacturing Capabilities

- Low, medium, and high voltage up to 15,000 HP
- AC induction (Squirrel cage)
- Wound rotor
- Synchronous
- DC
- Vertical
- Design D (High slip)
- Multi-speed
- Shaker/vibratory duty
- Pancake style
- Crusher/pulverizer duty
- Drill rig motors
- Compressor duty
- Fan duty (High inertia)
- Centrifuge/extractor duty
- Mixer duty
- Nuclear applications
- Military motors (MIL-SPEC)

Common Modifications to Stock Motors

- Change shaft configurations
- Add special flanges, brakes, seals, blowers, RTDs, or encoders
- Rewind to two-speed single windings
- Redesign rotors (Design D)
- Change terminal boxes to F3
- Fabricate new endbells
- Add screens to ODP motors
- Change grease routings
- Machine feet off frames
- Redesign from ball to sleeve bearings
- De-rate or re-rate motors
- Rewind with sealed system for damp or wet environments

Design Capabilities

Electrical / Magnetic

- Squirrel cage induction
- Synchronous
- Wound rotor induction
- Slow speed
- Special duty cycle
- High torque
- Low inrush

Mechanical

- Rotor dynamics
- Bearing system selection
- Structural integrity

Re-Design

- Uprate
- Speed change
- Voltage change
- Efficiency improvement

Ventilation

- Enclosure modifications
- Air flow analysis and design
- Environmental protection
- Matching legacy designs

Other

- Failure analysis
- Drop-in replacement design
- Manufacturing drawings

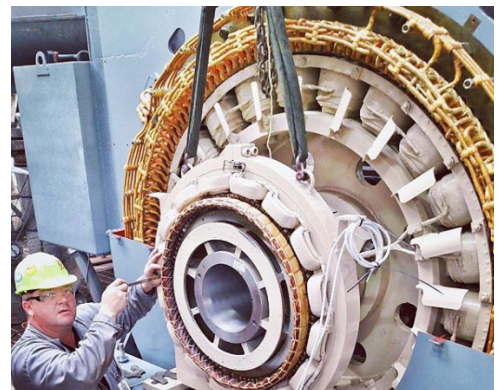
Certifications

- Louis Allis is an ISO 9001:2015 certified facility.
- Specialty motors can be manufactured to meet standards including NEMA MG, EASA-AR100, IEEE, and MIL-SPEC.

Additional Offerings from WorldWide Electric and Louis Allis

In addition to custom specialty motors, WorldWide Electric and Louis Allis offer standard off-the-shelf motors, motor controls, and gear reducers as well as factory recertified motors. Off-the-shelf products are stocked at WorldWide Electric's 7 regional U.S. warehouses and available with fast, often same-day, shipping.

- WorldWide Electric & Hyundai Electric Low-Voltage Motors
- Factory Recertified Motors
- Variable Frequency Drives
- Soft Starts
- Definite Purpose Control Products
- Gear Reducers



Installation of a 1500 HP Synchronous Specialty Motor



Louis Allis Custom Vertical Motor



Since 1901, Louis Allis has been producing specialty motors for unique and demanding applications. Customers from around the world in the industrial, military, and municipal markets trust Louis Allis to provide new, modified, and factory recertified specialty motors up to 15,000 HP. When WorldWide Electric acquired Louis Allis in March 2020, the two companies became a single source for a full range of reliable standard off-the-shelf products, modified standard products, and full custom specialty products.

LANMM062020