

# New Energy Vehicle Gearbox Housings

## Aluminium die casting parts

At Anhui Gaojian, we engineer the core of electric drive efficiency. Our gearbox housings for NEV powertrains are manufactured to set new benchmarks in reliability and structural integrity.

### Key Features & Advantages:

**Superior High-Pressure Die Casting:** Produced on a massive 1250-ton die casting machine, this ensures a dense, uniform grain structure, guaranteeing exceptional air-tightness and eliminating internal defects like shrinkage cavities and gas pores.

**Exceptional Material Properties:** The housing achieves an optimal balance of high hardness, superior tensile strength, and excellent plasticity, meeting the rigorous demands of next-generation electric vehicles.

**Precision Machining Excellence:** Our temperature-controlled machining workshop, equipped with high-precision CNC machining centers, boring mills, and other advanced equipment, guarantees flawless dimensional accuracy and perfect assembly readiness.

**Rigorous Quality Assurance:** Every component is verified through our comprehensive inspection lineup, including:

- CMM for dimensional precision
- X-ray Inspection for internal defect detection
- Spectrometer for material composition verification
- Hardness Tester and Profile Projector for performance validation

### Our Commitment:

We operate under the stringent IATF 16949 quality management system, embedded within a disciplined 6S workshop environment. This integrated approach ensures that every gearbox housing we deliver is not just a component, but a guarantee of advanced performance and world-class quality.

Die casting: Validated Quality;