48V GEARED SERVO ACTUATOR SYSTEMS

Define the assembly, drive and wiring as one package

Use these reference builds to begin a rotary-positioning package review. The quotation and selected configuration drawing define the supplied revision, interfaces and agreed acceptance work.

Reference mechanical configurations

Reference build	Gear configuration	Gearbox face	Output	Nominal CAD axial envelope
MGA-GS-142-30-48	30:1 Two-stage planetary	142 × 142 mm	Ø40 mm keyed shaft	523.5 mm
MGA-GS-180-08-48	8:1 Single-stage planetary	180 × 180 mm	Ø55 mm keyed shaft	509.0 mm

Dimensions are configuration references, not measurements taken from product photographs. Confirm fits, mounting, support and connector/cable clearance on the selected drawing.

Common motor and electrical direction

- Nominal 48V DC servo platform with a 4kW PMSM motor component reference.
- Motor-side holding brake with 24V DC release; 17-bit single-turn absolute motor-position feedback.
- Separate CANopen servo drive, electrical braking unit/resistor and matched power, feedback, brake and cabinet I/O harness scope.

Motor power is a nameplate reference. Available shaft torque and speed are selected against the operating cycle, DC supply/current and installed cooling. Holding duty and electrical deceleration are reviewed separately.

PREPARE A MATCHED DRIVE PACKAGE REQUEST

Start with your load and machine interfaces

Information for the first review

1. Output torque/speed, acceleration, reversals, dwell and cycle frequency.
2. Payload inertia, centre of gravity, overhung loading and bearing/support arrangement.
3. Mounting drawing, installation envelope and shaft connection.
4. DC supply voltage/current, cabinet space and regenerative-energy handling.
5. Stationary holding, brake release and the motion stopping cycle.
6. Controller, communication interface, feedback and any additional sensing need.
7. Quantity, mounting orientation, timing and required records.

Choose the work and documents to include

Mechanical scope	Motor, gearbox and adapter/mounting review; selected assembly and output connection.
Electrical scope	External drive/braking components, relay, harness lengths/connectors and agreed controller connections.
Configuration documents	Component list, configuration datasheet, mounting references and external-envelope STEP on request.
Integration and acceptance	Wiring/communication references, agreed commissioning support and revision-linked acceptance records.

Request CAD or a package review

Quote a reference build or send your mating envelope and operating brief. Identify which interfaces are fixed and which can change.

inquiry@magatom.com
magatom.com/products/geared-servo-actuators

Package hardware, engineering, commissioning and document scope are identified in the quotation.