PRODUCT ENGINEERING / TECHNICAL GUIDE

ME100

Heavy-lift multirotor platform



Product manual · Selection and application

Specifications / Structure and interfaces / Integration / Operation and care

Reorganized from available model documentation. The agreed specification defines the delivered configuration.

01 / PRODUCT & APPLICATION

Selection and application guide

The ME100 attachment is labelled E100 in its body and lists six motors, a 100 kg rated payload and a 15-minute flight time. A heavy-lift project begins with cargo dimensions, centre of gravity, restraint design and the take-off area, followed by confirmation of the model and endurance at the required load.

Design and application value

A mission platform combines the airframe, propulsion, flight control, communications and payload. Surveying emphasizes imaging and positioning; inspection emphasizes viewing geometry and coverage; transport emphasizes restraint and centre of gravity. Product specifications define initial limits, while mission results require complete-system validation.

Choosing the right configuration

Prepare payload mass, dimensions, power and interfaces, plus route length, duration, take-off space and wind conditions. Interpret nominal endurance with load, energy reserve and environment. Control range and ceiling are not operating permissions. Record acceptance criteria in the project configuration.

02 / SPECIFICATIONS 01

Specifications and configuration

Figures follow the available model documentation. The agreed specification defines the delivered configuration.

Parameter	Specification
Motor-to-motor diagonal	3000 mm
Unfolded / working dimensions	3000 × 3000 × 1800 mm
Product mass	110 kg
Nominal operating / flight time	15 min
Number of motors	6
Maximum output per motor	15 kW
Maximum thrust per motor	85 kg
Rated payload	100 kg
Propeller diameter × pitch	51 × 9.5 in
Propeller material	Carbon fibre

The attachment says E100 while the catalog says ME100. Its figures are retained as reference configuration data; confirm model equivalence before ordering. No full test conditions accompany the 15-minute figure, which does not establish full-load endurance or approval for passenger flight.

05 / INTEGRATION & CARE

Installation, operation and care

Installation and integration

Remove propellers before parameter changes or firmware updates. Check airframe heading, controller and positioning-module orientation, propeller rotation and electrical connections. Use the fitted controller’s version-specific procedure for calibration, mode switching and failsafe verification. After loading, check balance and camera obstruction before controlled flight tests.

Operation and maintenance

Inspect propellers, fasteners, battery or fuel system and communications before and after flight. Log payload configuration, flight time and anomalies to track wear. Abnormal vibration, energy warnings, unstable positioning or severe weather call for aborting under the validated contingency procedure and inspecting the aircraft.

Commissioning record

01 Confirm model, configuration, software and document versions.

02 Record load, environment, supply and mission conditions.

03 Verify protective functions, stopping and abnormal-condition responses.

04 Retain key readings, photographs and inspection records; agree a maintenance plan.

06 / OPERATING BOUNDARIES

Operating boundaries and technical review

01 Operation requires trained personnel familiar with the fitted configuration. Isolate power and prevent unintended startup before servicing or connection changes.

02 This guide covers selection, structure and operating principles. Controller calibration, arming commands, LED codes and failsafe actions vary by version; use the confirmed procedure for the delivered controller. Do not infer actions from unclear symbols in a legacy scan.

03 Assess electrical, rotating-part, pinch-point and work-at-height risks for the actual site. Keep people clear of propellers, tracks, manipulators and loaded cables as applicable. Stop and inspect when abnormal conditions arise.

04 Reference range, duration, slope and productivity figures are not guarantees for every environment. Revalidate system performance and protective behavior after changing payload, power, controller or structure.

05 Product names and protection descriptions do not replace certificates. For explosive atmospheres, firefighting, aviation or special environments, confirm the applicable documentation and its match to the delivered configuration.

07 / DOCUMENT NOTES

Specification and configuration notes

01 The attachment says E100 while the catalog says ME100. Its figures are retained as reference configuration data; confirm model equivalence before ordering. No full test conditions accompany the 15-minute figure, which does not establish full-load endurance or approval for passenger flight.

Source and edition

Technical data have been reorganized from the available product attachment and project documentation. Originals are retained in the project archive. Layout edition: September 2026.

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Use the mutually confirmed delivery documents for purchasing, installation and acceptance. If drawings, nameplates or hardware differ from this guide, verify the applicable model and version before operation.

Business enquiries: see the next page.

Business enquiries

Product selection · Project enquiries · Technical support

ME100

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