

Research & Development Information					After-sales Recommendations		
Device	Module	Detailed Location	Lifespan in Years	Other Replacement Criteria	Inspection Method	Maintenance Method	Routine Maintenance Plan
Drone	Arm	Entire	300h+	Deformation, cracking, damage, extensive corrosion	Visual inspection for wear or cracks Shake test for clearance	Wipe off pesticide/fertilizer residues after daily operations; replace immediately if cracks detected	
		Insert	300h+			No maintenance required if no abnormalities	
		Folding part	300h+			No maintenance required if no abnormalities	
		Airframe connection	300h+			No maintenance required if no abnormalities	
	Cross beam	Entire	300h+	Obvious corrosion or deformation	Visual inspection for wear or cracks Shake test for clearance	Wipe off pesticide/fertilizer residues after daily operations; replace immediately if cracks detected	
		Arm connection	300h+			Wipe off pesticide/fertilizer residues after daily operations; replace immediately if cracks detected	
	Clamp	Locking position	300h+	Fracture or spring failure	Check clamping condition during opening and closing Visual inspection for wear or cracks Shake test for clearance	No maintenance required if no abnormalities	
		Arm connection	300h+			Open the clamp, then opening and closing the arms to reduce the possibility of the clamp being tight.	
	Plug	Contacts	300h+	Obvious deformation, significant arcing burns or large wear grooves on the contacts	Check contacts for arcing burns and foreign matters Shake test for clearance	Keep plugs clean from pesticides, fertilizers and other foreign matters; ensure proper form	1. Send maintenance reminders to users after 1,000 hectares of operation; 2. Send regular reminders to users to visit the nearest service station. The maintenance contents include residue cleaning, motor operation check, cable wear check and screw tightening;
		Fastening bolt	300h+			No maintenance required if no abnormalities	3. Service station maintenance: propeller health inspection (including bearings, clamps, and blades), torque verification for fastening bolts, hood-to-airframe set screws, hood-to-airframe set screws, side beam-to-cross beam set screws, P150 hex screws, P60 load holder screws, sensor system set screws, motor base set screws, clamp set screws and set screws for all cables), structural integrity check for arms and airframe, electrical function tests (motors, ESCs, and cable hubs)
		Gasket	200h+ and 100 flights at full load			Check connector gasket for wear	
	Hood frame	Sensor system connection	300h+	Cracking or damage	Visual inspection for wear or cracks Shake test for clearance and screw tightness	No maintenance required if no abnormalities	
		Airframe connection	300h+			No maintenance required if no abnormalities	
	Main motor	Three-phase wire	200h+	Enamelled wire blackening or three-phase wire breakage	Visual inspection for wear or cracks, shake test for screw tightness	No maintenance required if no abnormalities	
		Bearing	200h+ and 100 flights at full load			Shake test for clearance, abnormal noise check during motor rotation	
	Main ESC	Cable connection	168h+	Terminal thread stripping or terminal burning	Visual inspection for wear or cracks, shake test for screw tightness	No maintenance required if no abnormalities	
	Cable hub	Cable connection	168h+	Housing damage or thread stripping of the positive and negative wiring terminals	Visual inspection for wear or cracks, shake test for screw tightness	No maintenance required if no abnormalities	
RevoSpray system	Propeller clamp	Bearing	<100h	Excessive bearing clearance, impact marks between clamp and clamp base	Visual inspection for wear and oil leakage Shake test for clearance	Replace bearings every 100 hours	
		Shaft	300h+			No maintenance required if no abnormalities	
		Mount	300h+			No maintenance required if no abnormalities	
	Propeller	Blade root	300h+	Deformation or damage	Shake blades vertically to check clearance, deformation or damage	Clean blade surface attachments with damp cloth	
		Spacer disc	300h+			Check for damage, foreign matter and the torsion of the blades	
		Cable	168h	Terminal blackening due to high temperature, insulation damage		No maintenance required if no abnormalities	
	Impeller pump motor	Motor	300h	No response, abnormal overheating, severe noise, abnormal speed, or failure to rotate	Visual inspection for wear and oil leakage, shake test for screw tightness	No maintenance required if no abnormalities	
	Pump motor speed reduction module	Planetary gear	300h (continuous operation)/1,333-2,000 hours	Stall, excessive heat, severe noise, output shaft wear, bearing wear	Abnormal noise, excessive current reported, or abnormal speed reported	Lubricant filling	
	Impeller	Impeller body	168h	Swelling, wear, broken blades	Significant pump calibration deviation, low flow rate or no water output	Flush the inner side with clean water after operations every day	
	Pump	Pump body	300h (continuous operation)/1,333-2,000 hours	Pump body wear, shaft hole leakage, seal ring damage	Significant pump calibration deviation, low flow rate or no water output	Flush the inner side with clean water after operations every day	
	Liquid tube		300h	Crack, burst, severe abrasion	Wear, leakage	Flush the inner side with clean water after operations every day	
RevoCast system	Spray motor	Motor	300h	Gear breaking or impact cracks on the spray disc	Check for fiber or foreign matter stuck on the gear on the spray disc	No maintenance required if no abnormalities	
	Anti-drip valve	Main body	300h	Disassemble to remove foreign matters in case of dripping or flow obstruction	Disassemble to remove foreign matters in case of dripping or flow obstruction	No maintenance required if no abnormalities	
	Float liquid level sensor	Main body	300h	Connection failure, static readings, abnormal air pressure readings reported	Check whether the float is red and the ventilation capacity of the ventilating valve	Avoid direct water jet on the ventilating valve when cleaning, shake it dry or dry it by baking before use	
	Load cable hub	Cable connection	168h	Liquid or contaminant ingress, power on short circuit, circuit failure	Check screw tightness	No maintenance required if no abnormalities	
	Cable	Terminal connector	168h	Wear or contamination, broken or bent pins	Check wear status	No maintenance required if no abnormalities	
	Screw feeder	Main body	100h (plastic pellets)	Stall, frequent jamming, severe wear	Visually inspect the clearance gap between the screw feeder and the feeding tube, and check cracks	Flush with water after daily operations	
	Screw feeder motor	Motor	300h+	Frequent jamming, no response, abnormal overheating, severe noise, corrosion penetration, abnormal speed	Visual inspection for wear and oil leakage, shake test for screw tightness	Rinse the surface with water after daily operations	
	Screw feeder Hall sensor		168h	Wire breakage, housing damage	Visual inspection for wear or cracks, shake test for screw tightness	Flush with water after daily operations	
	Feeding tube	Main body	168h	Severe wear, frequent jamming	Visual inspection for wear or cracks, shake test for screw tightness	Flush with water after daily operations	
	Disc motor	Motor	300h+	No response, abnormal overheating, severe noise, corrosion penetration, abnormal speed	Visual inspection for wear and oil leakage, shake test for screw tightness	Rinse the surface with water after daily operations	
Spreader components	Crank	168h			Visual inspection for wear or cracks, shake test for screw tightness	Lubricant filling	
		Rocker arm	168h				
		Ball	168h				
		Electrostatic connector rod	168h				
	Granule level sensor	Main body	168h	Connection failure	Visual inspection for wear or cracks, shake test for screw tightness	Clean the lens surface with water after daily operations	
Load cable hub					Visual inspection for wear, cracks, and liquid or contaminant ingress, shake test for screw tightness	No maintenance required if no abnormalities	
						No maintenance required if no abnormalities	
	Cable	Terminal connector	168h	Wear or contamination, broken or bent pins	Check wear or contamination status	No maintenance required if no abnormalities	