

Research & Development Information					After-sales Recommendations			
Device	Module	Detailed Location	Lifespan in Test	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.	1. Send maintenance reminders to users after 1,000 hectares of operation; 2. Send regular reminders to users for self-maintenance. The maintenance contents include residue cleaning, motor operation check, cable wear check and screw tightening; 3. Service station maintenance: propeller health inspection (including bearings, clamps, and blades), torque verification for critical screws (arm-to-airframe set screws, hood-to-airframe set screws, side beam-to-cross beam set screws, P150 hasp 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)	
		Insert	300h+			No maintenance required if no abnormalities detected.		
		Folding part	300h+			No maintenance required if no abnormalities detected.		
	Cross beam	Airframe connection	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.		
		Entire	300h+			Wipe off pesticide/fertilizer residues after daily operations; replace immediately if cracks detected.		
	Clamp	Arm connection	300h+	Fracture or spring failure	Check clamping condition during opening and closing	No maintenance required if no abnormalities detected.		
		Locking position	300h+		Open the clamp when opening and closing the arms to reduce the possibility of the clamp being cracked by the arms.			
	Plug	Arm connection	300h+	Obvious deformation, significant arcing burns or large wear grooves on the contacts	Visual inspection for wear or cracks Shake test for clearance	Keep plugs clean from pesticides, fertilizers and other foreign matters; ensure accurate form.		
		Contacts	300h+			No maintenance required if no abnormalities detected.		
		Fastening bolt	300h+			No maintenance required if no abnormalities detected.		
	Hood frame	Gasket	200h+ and 100 flights at full load	Obvious wear, cracking, deformation	Check connector gasket for wear	No maintenance required if no abnormalities detected.		
		Sensor system connection	300h+		Visual inspection for wear or cracks Shake test for clearance and screw tightness	No maintenance required if no abnormalities detected.		
		Airframe connection	300h+		Visual inspection for wear or cracks, shake test for screw tightness	No maintenance required if no abnormalities detected.		
	Main motor	Three-phase wire	200H+	Enameled wire blackening or three-phase wire breakage	Shake test for clearance, abnormal noise check during motor rotation	No maintenance required if no abnormalities detected.		
		Bearing	200h+ and 100 flights at full load			No maintenance required if no abnormalities detected.		
	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 detected.		
	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 detected.		
	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		
		Smashplate	300h+			No maintenance required if no abnormalities detected.		
		Mount	300h+			No maintenance required if no abnormalities detected.		
	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+		Terminal blackening due to high temperature, insulation damage	No maintenance required if no abnormalities detected.		
Cable	Terminal connector	168h		Check for damage or foreign matter on the terminal	No maintenance required if no abnormalities detected.			
RevoSpray system	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 detected.	1. Send maintenance reminders to users after 1,000 hectares of operation; 2. Remind users to visit the nearest service station for RevoSpray system maintenance; 3. Maintenance includes impeller replacement, speed reduction module lubricant filling, pump housing wear and leak inspection, anti-drip valve leakage check, pump motor operational check, cable wear inspection, and screw tightening. 4. RevoSpray system calibration	
	Pump motor speed reduction module	Planetary gear	300h (continuous operation)/1,333-2,000 hectares	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 hectares	Pump body wear, shaft hole leakage, seal ring damage	Significant pump calibration deviation, low flow rate or no water output, leakage	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		
	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 detected.		
	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 detected.		
	Float liquid level sensor	Main body	300h	Connection failure, static readings, abnormal air pressure readings reported	Check whether the light is red and the ventilation capacity of the ventilating valve. Dry the ventilating valve or replace it with a new one if necessary.	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 detected.		
	Cable	Terminal connector	168h	Wear or contamination, broken or bent wire	Check wear status	No maintenance required if no abnormalities detected.		
RevoCast system	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	1. Send maintenance reminders to users after 160 hours of motor operation; 2. Remind users to visit the nearest service station for RevoCast system maintenance; 3. Maintenance includes residue cleaning, lubricant filling for the speed reduction module and spreader components, screw feeder wear and leakage inspection, motor operational check, cable wear inspection, and screw tightening.	
	Screw feeder motor	Motor	300h+	Frequent jamming, no response, abnormal overheating, severe noise, corrosion penetration, abnormal	Visual inspection for wear and oil leakage, shake test for screw tightness	Rinse the surface with water after daily operations		
		Speed reduction module	300h+		Visual inspection for wear or cracks, shake test for screw tightness	Flush 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 and oil leakage, shake test for screw tightness	Rinse the surface 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	Lubricant filling		
		Speed reduction module	300h+					
		Crank	168h					
	Spreader components	Rocking arm	168h	Severe noise, large clearance, seized rotation in non-extreme positions, corrosion penetration	Visual inspection for wear or cracks Shake test for clearance			
		Bearing	168h					
Grammle level sensor	Eccentric connecting rod	168h	Connection failure	Visual inspection for wear or cracks, shake test for screw tightness	Clean the lens surface with water after daily operations			
	Main body	168h						
Load cable hub	Cable connection	168h	Liquid or contaminant ingress, power on short circuit, circuit failure	Visual inspection for wear, cracks, and liquid or contaminant ingress, shake test for screw tightness	No maintenance required if no abnormalities detected.			
Cable	Terminal connector	168h	Wear or contamination, broken or bent wire	Check wear or contamination status	No maintenance required if no abnormalities detected.			