## 10. Troubleshooting

· If any abnormality is found in the gearmotor, refer to Table 14 below and take appropriate measures as soon as possible. If the abnormality cannot be eliminated, contact our nearest agent, dealer or sales office.

Type of Trouble			Cause	Remedy
			Power failure	Contact the power supply company.
			Defective electric circuit	Check the defective portion of electric circuit.
			Fusing	Replace the fuse.
The motor does not run in the unloaded condition.			Safety device at work	Eliminate a cause of incorrect safety device actuation.
			Locking of the load	Check and investigate the load and the safety device.
			Poor contact of swich	Adjust the contact.
			Disconnection of motor stator wiring	,
			Broken bearing	Repair at a specialized workshop.
			Defective cover switch (0.1–0.75kW single-phase motor	Repair at specialized workshop.
			Broken capacitor(single-phase motor)	Replacement of capacitor at specialized workshop.
			Three-phase motor acting as single-phase motor ( <b>3-phase motor</b> )	Check the power sorce using a voltmeter. Repair or replace the motor, transformer coils, contactors and fuses.
			Brake : Rust on friction surface	Cleaning of brake (lining) at special workshop
			Brake : Poor gap adjustment	Fine adjustment of brake gap. (P. 39–41)
		tor works but the output les not work.	Defective gear drives due to overloading etc.	Repair at specialized workshop.
	When loaded	Switch is overheated.	Insufficient switch capacity	Replace the switch with one having the specified capacity.
Ħ			Overloading	Reduce the load to the specified level.
J, b		Fuse is cut.	Insufficient fuse capacity	Replace the fuse with one having a specified capacity.
ding			Overloading	Reduce the load to the specified level.
ut loa			Defective governor switch (0.1—0.75kW single-phase motor)	Repair at specialized workshop.
tho		Rotating speed does not increase and overheated.	Voltage drop	Consult with the power supply company.
Ň			Overloading	Reduce the load to the specified level.
otates			Drop in capacitance (single-phase motor)	Replace capacitor at specialized workshop
ffr			Short circuit of motor stator winding	Repair the stator at a specialized workshop.
sh		Motor stops.	The key is not set on the shaft	Set the key.
out			Burned bearing	Repair at a specialized workshop.
The output shaft rotates without loading, but			Defective adjustment of the safety device	Adjust the safety device.
	The motor rotates reversely.		Wrong connection	Connect correctly.
È	Disconnected fuse.		Short-circuit of the lead wire	Replace the fuse.
			Poor connection of the motor with the starter	Connect firmly.
			Overloading	Reduce the load to a specified level.
Excessive rise in temperature			Increased or decreased voltage	Consult with the power supply company.
			Defective governor switch (in 0.1–0.75kW single-phase motor)	Repair at a specialized workshop.
			Deteriorated condenser capacity (single-phase motor)	Replace the condenser.
			Ambient temperature is too high.	Improve the ventilation method.
			Failure due to overloading to shaft and gear	Repair at a specialized workshop

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## Table 14 Troubleshooting

Type of Trouble		e of Trouble	Cause	Remedy
ase age		e leakage from the tsection	Damaged oil seal.	Replace the oil seal.
Grease leakage		e leakage from the g seam	Slacked bolts.	Tighten the bolts.
			Damaged gear.	Repair at a specialized workshop.
Abnormal noise or excessive vibration			Distortion of the housing due to rough bed surface.	Flatten the bed surface or adjust the bed with the liner.
			Resonance resulting from insufficient rigidity of the bed.	Improve rigidity of the bed by reinforcement.
			Misalignment of connecting shafts.	Realign or use flexible coupling.
			Vibration transferred from the connected machine.	Detect vibration sources by running the gearmotor independently.
			Foreign substances inside the motor.	Eliminate the foreign substances.
Abnormal noise in the motor			Damaged bearing.	Repair at a specialized workshop.
			Improper brake gap adjustment.	Adjust the brake gap. (Refer to page 39–41)
			Worn brake lining.	Replace the brake lining. (Refer to page 41)
			Burned magnetic coil in the brake assembly.	Replace the magnetic coil.
			Failure of the rectifier	Replace the rectifier.
			Disengagement or failure of leaf spring in the brake boss.	Replace the leaf spring.
			Defective governor switch ( 0.1- 0.75kW single-phase motor )	Repair at a specialized workshop.
	E	Brake does not work.	Releasing bolt not returned to the original position.	Return the bolt to the original position and readjust the gap.
king		The brake slips. Braking response is slow.	A fast braking circuit is not working.	Shift to the fast braking action (Refer to page 25–30)
Ineffective braking	u		Foreign substances or oil are adhered to the brake lining.	Remove foreign substances and clean the lining surface with a dry cloth.
Ineffe	functio		Worn brake lining.	Adjust the brake gap. Replace the brake lining.
			Uneven brake gap.	Adjust the brake gap.
0	В		Overloading.	Reduce the load or apply a larger brake frame.
			Insufficient recovery of the releasing bolt.	Reset the releasing bolt to the original position and readjust the gap.
		Shut-off due to overcurrent	Sudden acceleration / deceleration	Make the acceleration / deceleration time longer.
ם ב	מ		Sudden change in load	Decrease the load.
trippir		Grounding overcurrent	Grounding on the output side	Make correction to eliminate grounding
Inverter tripping		DC overcurrent	Short - circuiting on the output side	Make correction to eliminate short -circuiting. Check cables.
		Shut-off due to regenerative overvoltage	Sudden deceleration	Make the deceleration time longer. Reduce the braking frequency.
	Т	hermal relay operation	Overloading	Decrease the load to the specified value.