

# LONEX **MOTOR SERIES**



Product number GB-05-05 GB-05-06 GB-05-07 GB-05-09 GB-05-10 GB-05-11 GB-05-12 GB-05-13 GB-05-14 GB-05-15 GB-05-16 GB-05-17 GB-05-18 GB-05-19 GB-05-20

## HANDLING CAUTIONS AND INSTRUCTION MANUAL

Weight: 150g Color: Black Material: Stainless / Steel / Polycarbonate / Aluminum

### **Product specification**

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LONEX motor series using heat resistance enameled wire, up to 200°C, to build the core of the motor. This helps the motor to maintain the temperature at an efficient level, even under the full power, also it greatly increases the durability of the motor and battery consumptions. A set of ball bearings are installed at both ends of the motor, not only improves the rotations but also further improves the energy consumption.

The front end of the motor has an aluminum cage to improve the rotations, and a high durability nylon cover at the rear end to withstand the high temperature and extreme wear of the motor. Lastly, the motor pinion gear uses high density steel that can endure the extreme rotation and pressure under high torque or high speed set up.







Extreme torque up to 2 KGCM

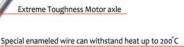




Ball bearing aluminum cover



Ball bearing at each end of the motor



Special conave design to balance the motor

Special Glue that withstand high temperature and high speed to prevent enameled wire to peel off from the motor.

Special Silicon steel sheet for best electromagnetic result

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#### ROHS approved

Test Items	Method(Refer to)	Result No.1	MDL 2
Cadmi um(Cd)	Determination of Cadmium by ICP-AES.	n.d.	
Lead(Pb)	Determination of Lead by ICP-AES.	n.d.	2
Mercury(Hg)	Determination of Mercury by ICP-AES.	n.d.	2
Hexavalent Chr omi um Cr	Determination of Hexavalent Chromium	n.d.	2







### Warning:

	9.							
Spring	M90SP	M100SP	M110SP	M120SP	M130SP	M140SP	M150SP	M170SP
A1	8	<b>X</b>	<b>A</b>	<b>A</b>	0	0	0	0
A2	×	×	<b>A</b>	<b>A</b>	0	0	0	0
А3	×	8	<b>A</b>	0	0	0	0	<b>A</b>
A4	0	0	<b>A</b>	<b>A</b>	8	8	8	8
A5	0	0	0	0		<b>A</b>	8	8



Installation Warning:
LONEX A1 · A2 · A3 motors are designed for high speed
and high torque AEG setups.
Using 100 M / S or below setups will damage the internal

vparts of the gearbox.
Please seek professional aids when installing the motors.

## Inertial Dynamometers Motor performance report

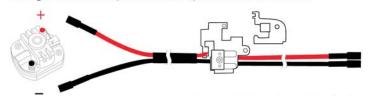




	A 0 1	A 0 2	A 0 3
At no load	A =		17
Speed RPM	39715	3 5799	37504
Current A	4.225	3.998	4.066
Torque Kgcm	2.03	2.06	2.03Z
Max Efficiency			
Torque Kgcm	0.45	0.42	0.41
Speed RPM	30978	28353	29928
Current A	19.087	17.175	17.95
Efficiency	61%	60.86%	60.88%
Power output	127W	121W	127W
Max Power			
Torque Kgcm	0.91	1.01	1.02
Speed RPM	19143	17756	18827
Current A	39	35.9	38
Efficiency	47%	46%	46%
Power output	193W	186W	196W

# Motor power cord installation

Red power cord (positive) should be installed on the red dot of the motor (positive). Black power cord (negative) should be installed on the black dot of the motor (negative). Warning: Failed to install the power cords correctly can cause failure of the motor.











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