

LY-30KGF Thrust Stand			
Basic parameters	Operating Temp	0 ~ +40 °C	
	Operating Humidity	≦ 80%	
	Storage Temp	-20 ~ +60 °C	
	Net weight	16kg	
	Dimension	936*730*731mm	
Propulsion system	Test requirements	13 inch or lower (only Push direction supported)	
	Maximum test power	Max thrust (100% throttle)>3kgf (except the power system of the racing drone.)	
	Max propeller	40 inch	
Voltage & Current	Voltage Range	5 ~ 65 V	It is forbidden to test beyond the test range, otherwise the test stand will be permanently damaged.
	Voltage Resolution	0.01 V	
	Voltage Accuracy	0.05%+0.05%F.S.	
	Current Range	0 ~ 150 A	
	Current Resolution	0.01 A	
	Current Accuracy	0.1%+0.1%F.S.	
Thrust	Range	30 kgf	It is forbidden to conduct destructive tests on this test bench. Do not test the power system with excessive vibration.
	Resolution	1 gf	
	Accuracy	0.1%+0.1%F.S.	
Torque	Range	20 N·m	
	Resolution	0.001 N·m	
	Accuracy	0.1%+0.1%F.S.	
Commutation Speed (RPM)	Range	300000RPM/Pole pairs	
	Resolution	1 RPM	
	Accuracy	0.05%	
Optical Speed (RPM)	Range (Two blades)	200000 RPM/Optical stickers	The resolution and accuracy will increase with the number of stickers. The Optical RPM mode is not recommended for small size propellers testing.
	Resolution	1 RPM	
	Accuracy	0.05%	
Temp Probe	IR Temp (Motor case)	-70 ~ +350 °C	
	Resolution	0.1 °C	
	Accuracy	±0.5 °C	
Environmental Module	Barometric Range	30 ~ 110 kpa	
	Barometric Resolution	0.01 kpa	
	Barometric Accuracy	±0.06 kpa	
	Ambient Temp Range	-40 ~ +85 °C	
	Ambient Temp Resolution	0.1 °C	
	Ambient Temp Accuracy	±1 °C	
	Humidity Range	0 ~ 100%RH	
	Humidity Resolution	1 %RH	
Wireless Data Transmission	Humidity Accuracy	±3%	
	Frequency Band	2.4 GHz	
	Transmit Power	12dBm	
		Communication Distance	200 m
Optional			Notes
Safety cage	Material	Aluminum frame+iron mesh	
	Dimension	1200*1200*1200mm	
	Protection Mode	Square surrounding protection	
Calibration tool	Thrust & Torque	M1 high-precision weight 5KG	10-99999 r/min
	RPM	Non-contact tachometer	
	Torque Lever	Custom-made	
	Voltage	Digital multimeter	
	Current	Digital clamp meter	