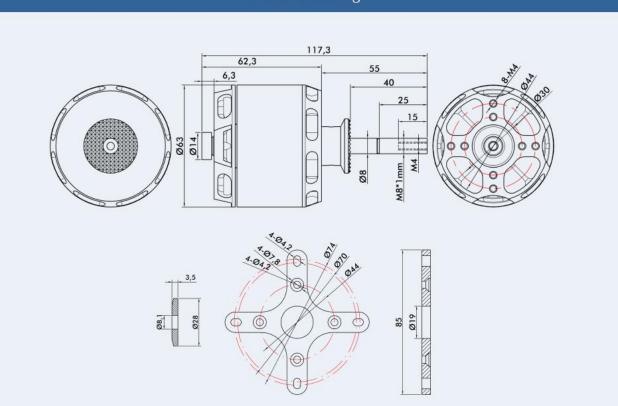
## **Product Drawing**



## Specifications

Model No./ Kv AT5330 KV220

Motor Size (mm) Ф63\*117.3

Anti-rust treatment; Stator Technology 180°C high temperature-resisting coatings

Configuration 12N14P

IN:10 OUT:8 Shaft Diameter (mm)

> Imported 6800/6900ZZ Bearing

150℃ Magnet Temperature Resistance Grade

> Lead (mm) Enameled Wire 100

Enamelled Wires Temperature Resistance Grade Class C 220°C

> 1000V/5s Coil Withdraw Voltage

Rotor Dynamic Balance Standard ≤5mg

IP35

KV220 12S (4.2V/SI)/42-52V KV Value Recommendation Idle Current (18V) ESC Recommendation AT115A (6-12S) 3.0A Propeller

Battery (lipo)/Voltage

18-20寸 Peak Current (A) 75A/Continuous180s Recommendation

3600W/Continuous 180s Max. Power (W) Motor Weight (g) Weight (incl. cables) 685g

In ternal Resistance (m $\Omega$ ) Package Weight (g) 900g

Stern thrust motor AT5330 KV220 VTOL Motor V605 KV210

Stern thrust propeller VTOL Prop V22\*7.4 18-20寸 recommendation

Stern thrust ESC VTOL ESC FLAME 80A HV AT115A (6-12S) recommendation

**Continued below** 

Stern thrust battery (Lipo)/ voltage

recommendation

12S (4.2V/SI) /42-52V

4-6

VTOL Battery (Lipo)/ Voltage

12S (4.2V/SI) /42-52V

Stern thrust pull recommendation(kg)

VTOL Thrust per Motor

4.5-6

MTOW (Quad) (kg) 18-24

Test Report										
Item No.	Prop	Throttle	Voltage (V)	Thrust (g)	Torque (N*m)	Current (A)	RPM	Inputpower (W)	Efficiency (g/W)	Operating Temperature °C)
AT5330 KV220	18*10	40%	44.20	1665	0.41	5.44	3555	240.50	6.92	77°C
		45%	44.17	2066	0.51	7.04	3949	310.84	6.65	
		50%	44.11	2568	0.62	9.44	4390	416.30	6.17	
		55%	44.03	3202	0.78	13.06	4885	574.96	5.57	
		60%	43.98	3754	0.93	16.21	5277	712.74	5.27	
		65%	43.92	4285	1.07	19.45	5642	854.21	5.02	
		70%	43.82	4763	1.29	24.48	6040	1072.85	4.44	
		75%	43.73	5409	1.49	29.84	6448	1304.90	4.15	
		80%	43.62	6067	1.68	35.33	6803	1540.79	3.94	
		90%	43.40	7404	2.08	47.89	7488	2078.38	3.56	
		100%	43.07	8276	2.61	65.34	8075	2814.25	2.94	
	19*10	40%	44.18	1936	0.48	6.20	3509	273.70	7.08	91℃
		45%	44.13	2403	0.59	8.01	3899	353.38	6.80	
		50%	44.04	2967	0.73	10.86	4324	478.30	6.20	
		55%	43.74	3702	0.92	15.10	4807	660.32	5.61	
		60%	43.65	4324	1.07	18.49	5185	806.94	5.36	
		65%	43.61	4958	1.22	21.93	5538	956.50	5.18	
		70%	43.52	5729	1.41	27.05	5934	1177.09	4.87	
		75%	43.43	6581	1.63	32.99	6340	1433.07	4.59	
		80%	43.31	7329	1.82	38.51	6664	1668.08	4.39	
		90%	43.06	8964	2.25	52.12	7313	2244.06	3.99	
		100%	42.76	10518	2.73	68.92	7898	2947.27	3.57	
	20*10	40%	44.06	2201	0.54	6.71	3471	295.50	7.45	102°C
		45%	43.94	2733	0.67	8.96	3852	393.75	6.94	
		50%	43.86	3371	0.83	11.91	4267	522.49	6.45	
		55%	43.66	4156	1.02	16.38	4728	715.04	5.81	
		60%	43.55	4883	1.20	20.41	5115	888.92	5.49	
		65%	43.51	5591	1.37	24.49	5465	1065.78	5.25	
		70%	43.44	6444	1.59	29.82	5842	1295.52	4.97	
		75%	43.28	7399	1.82	36.33	6223	1572.19	4.71	
		80%	43.17	8248	2.04	42.50	6544	1834.72	4.50	
		90%	43.00	10062	2.51	57.58	7189	2475.76	4.06	
		100%	42.68	11913	3.00	75.34	7756	3215.34	3.70	

Notes: Motor temperature is the motor surface temperature aftering running on 100% for 3 mins. (Based on T-MOTOR test bench(es), all data are for reference only. T-MOTOR reserves the right of final interpretation.)

## Contents





Motor x 1

Parts Bag x 1

Please check that your package contains all the above items before use, If something is missing, please contact online customer service or leave message to <a href="mailto:onlinesales@tmotor.com">onlinesales@tmotor.com</a>