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# T-Motor F2004 1700Kv Micro Motor (1.5mm Shaft)

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## Details

Description

T-Motor's renowned F-Series motors are now available in a high-efficiency T-mount micro format.

Add these to your lightweight or long range builds for long flight times and an awesome thrust to weight ratio.

Available in multiple [Kv options](#)

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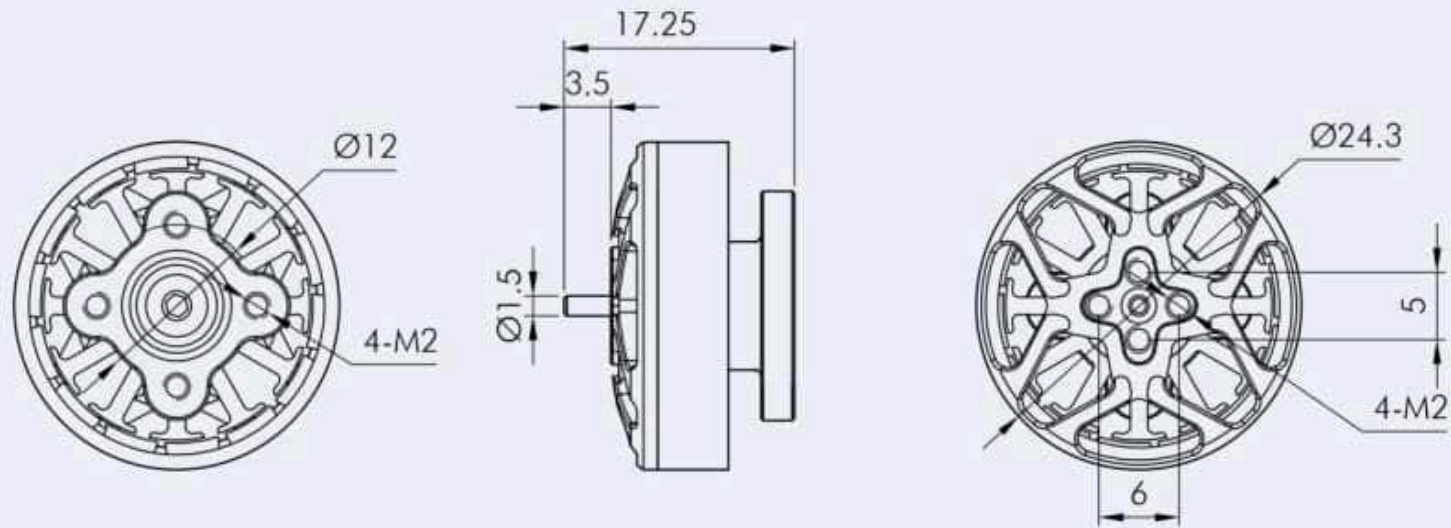
## Specifications

- KV: 1700
- Configuration: 12N14P
- Shaft Diameter: 3mm
- Motor Dimensions: Ø24.3x17.25mm
- No.of Cells (Lipo): 6S
- Idle Current (10V): 21.2A
- Internal Resistance: 221mΩ
- Max. Power (60S): 503W
- Weight Including Cables (g): 16.4g

## Includes

- 1x T-Motor F 2004 1700Kv Micro Motor (1.5mm Shaft)

## Product Drawing



## Specifications

Test Item	KV1700	Weight (Incl. Cable)	16.4g
Motor Dimensions	Φ24.3*17.25mm	Internal Resistance	221mΩ
Lead	24#AWG 130mm	Configuration	12N14P
Shaft Diameter	3mm	Rated Voltage(Lipo)	6S
Idle Current(10V)	0.38A	Peak Current(60s)	21.2A
Max. Power(60s)	503W		

Test Item	KV3000	Weight (Incl. Cable)	16.4g
Motor Dimensions	Φ24.3*17.25mm	Internal Resistance	221mΩ

Motor Dimensions	Φ24.3*17.25mm	Internal Resistance	90mΩ
Lead	24#AWG 130mm	Configuration	12N14P
Shaft Diameter	3mm	Rated Voltage(Lipo)	4-5S
Idle Current(10V)	0.88A	Peak Current(60s)	30.1A
Max. Power(60s)	460W		

## Test Report

Type	Propeller	Throttle	Thrust (g)	Voltage (V)	Current (A)	RPM	Power (W)	Efficiency (g/W)	Operating Temperature (°C)
F2004	GF4023	50%	224.70	23.98	2.38	20595	57.13	3.93	65 (Ambient Temperature:8°C)
		55%	269.47	23.97	3.25	22734	77.92	3.46	
		60%	321.74	23.95	4.29	24683	102.83	3.13	
		65%	381.72	23.94	5.34	26569	127.87	2.99	
		70%	424.27	23.92	6.15	28055	147.05	2.89	
		75%	493.59	23.90	7.71	29998	184.17	2.68	
		80%	555.63	23.87	9.27	31890	221.31	2.51	
		85%	608.12	23.85	10.66	33052	254.29	2.39	
		90%	650.62	23.83	12.03	34274	286.57	2.27	
		95%	701.11	23.80	14.06	35525	334.66	2.09	
		100%	857.41	23.77	18.19	39541	432.37	1.98	
	GT5125	50%	309.73	23.95	3.35	18454	80.19	3.86	67 (Ambient Temperature:8°C)
		55%	371.42	23.93	4.45	20267	106.47	3.49	
		60%	428.96	23.91	5.61	21758	134.06	3.20	
		65%	495.36	23.88	6.91	23402	165.07	3.00	
		70%	558.66	23.83	8.28	24385	197.34	2.83	
		75%	614.19	23.81	9.78	25736	232.95	2.64	

KV1700		80%	664.74	23.79	11.14	26889	265.05	2.51	Temperature:8°C)
		85%	712.35	23.77	12.82	27590	304.63	2.34	
		90%	750.23	23.73	14.52	28461	344.55	2.18	
		95%	794.03	23.69	16.73	29201	396.41	2.00	
		100%	929.72	23.67	20.63	32253	488.25	1.90	
	T4944	50%	334.53	23.95	3.63	18204	87.03	3.84	69 (Ambient Temperature:8°C)
		55%	390.41	23.92	4.74	19980	113.48	3.44	
		60%	447.47	23.91	5.86	21283	140.01	3.20	
		65%	509.13	23.88	7.08	22793	169.04	3.01	
		70%	570.09	23.84	8.41	23838	200.53	2.84	
		75%	628.69	23.82	10.02	25281	238.59	2.64	
		80%	681.82	23.79	11.48	26230	273.09	2.50	
		85%	725.17	23.77	13.10	26936	311.45	2.33	
		90%	765.52	23.73	14.83	27897	351.92	2.18	
		95%	803.27	23.70	17.02	28334	403.23	1.99	
		100%	945.44	23.66	21.27	31604	503.10	1.88	

Note: Motor temperature is motor surface temperature @100% throttle running 1mins.  
(Date above based on benchtest are for reference only. Comparion with that of other motor types is not recommended.)

Type	Propeller	Throttle	Thrust (g)	Voltage (V)	Current (A)	RPM	Power (W)	Efficiency (g/W)	Operating Temperature (°C)
	GF D76	50%	252.92	15.86	5.45	22447	86.49	2.92	63 (Ambient Temperature:8°C)
		55%	293.93	15.82	6.99	24355	110.54	2.66	
		60%	336.20	15.79	8.38	26029	132.38	2.54	
		65%	379.70	15.77	9.55	27551	150.51	2.52	
		70%	420.14	15.72	10.96	28769	172.32	2.44	
		75%	479.02	15.68	13.03	30393	204.32	2.34	
		80%	527.04	15.65	14.96	32003	234.14	2.25	



F2004 KV3000		85%	574.19	15.59	17.12	33236	266.99	2.15	
		90%	604.76	15.56	18.88	34462	293.68	2.06	
		95%	649.57	15.49	21.62	35367	334.93	1.94	
		100%	794.52	15.43	26.55	39050	409.71	1.94	
	GF4023	50%	281.13	15.91	4.94	23132	78.51	3.58	68 (Ambient Temperature:8℃)
		55%	330.10	15.87	6.34	25157	100.58	3.28	
		60%	382.64	15.84	7.73	26865	122.42	3.13	
		65%	440.47	15.80	9.12	28595	144.21	3.05	
		70%	479.70	15.78	10.41	29886	164.21	2.92	
		75%	544.83	15.74	12.36	31568	194.60	2.80	
		80%	609.44	15.69	14.45	33319	226.77	2.69	
		85%	650.18	15.66	16.19	34186	253.48	2.57	
		90%	695.66	15.61	18.29	35738	285.51	2.44	
		95%	737.42	15.57	20.73	36583	322.66	2.29	
		100%	890.03	15.51	25.46	40309	394.93	2.25	
	GF5125	50%	347.95	15.84	6.29	19417	99.63	3.49	72 (Ambient Temperature:8℃)
		55%	403.42	15.79	7.93	21091	125.27	3.22	
		60%	486.64	15.73	10.48	23039	164.83	2.95	
		65%	554.75	15.63	13.57	24401	212.01	2.62	
		70%	587.89	15.58	15.10	24912	235.35	2.50	
		75%	625.25	15.60	15.61	25811	243.56	2.57	
		80%	673.25	15.57	17.31	26954	269.45	2.50	
		85%	723.05	15.51	19.55	27723	303.19	2.38	
		90%	766.25	15.45	22.14	28811	341.91	2.24	
		95%	804.38	15.38	25.01	29351	384.81	2.09	
		100%	951.24	15.32	29.85	32718	457.20	2.08	
		50%	214.40	15.90	3.99	24197	63.40	3.38	



	T76	55%	261.45	15.87	5.26	26703	83.43	3.13	61 (Ambient Temperature:8°C)
		60%	308.73	15.84	6.57	28691	104.01	2.97	
		65%	355.65	15.82	7.84	30906	123.94	2.87	
		70%	391.56	15.79	9.00	32212	142.00	2.76	
		75%	450.25	15.76	10.64	34389	167.70	2.68	
		80%	504.09	15.72	12.38	36039	194.74	2.59	
		85%	548.46	15.68	14.17	37332	222.26	2.47	
		90%	587.94	15.64	15.97	38846	249.85	2.35	
		95%	627.19	15.60	18.29	40088	285.37	2.20	
		100%	767.72	15.56	22.61	43870	351.87	2.18	
	T4944	50%	365.46	15.82	6.69	18922	105.84	3.45	71 (Ambient Temperature:8°C)
		55%	403.59	15.79	7.94	20147	125.30	3.22	
		60%	476.12	15.73	10.11	21861	159.02	2.99	
		65%	564.70	15.64	13.03	23849	203.88	2.77	
		70%	599.67	15.57	15.28	24434	237.87	2.52	
		75%	638.39	15.56	16.29	25440	253.50	2.52	
		80%	680.47	15.55	17.63	26323	274.12	2.48	
		85%	722.42	15.49	19.67	26952	304.65	2.37	
		90%	761.90	15.43	22.23	27823	342.86	2.22	
		95%	800.62	15.36	25.09	28427	385.38	2.08	
		100%	946.11	15.29	30.12	31723	460.51	2.05	

Note: Motor temperature is motor surface temperature @100% throttle running 1 mins.  
(Date above based on benchtest are for reference only. Comparion with that of other motor types is not recommended.)

**More Information:**

- **SKU: 15156**
- **Barcode: 6971360358930**

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*"I put these on a 3.5" whoop to carry the (very heavy) new Ace Pro camera for RE fly-throughs...."*

LoneWolf



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Jimmy W.



T-motor f2004

16/04/24

Verified Buyer

Super smooth love em

Was this review helpful? 0 0



LoneWolf



Solid

13/12/23

Verified Buyer

Well made. I put these on a 3.5" whoop to carry the (very heavy) new Ace Pro camera for RE fly-throughs. I was a little worried that it would need more power, but for the task they're about perfect. Nice and docile with plenty of resolution in the middle... it's very easy flying, especially considering

[Read more](#)

Was this review helpful? 1 0



Taree L.

Verified Reviewer



**Perfect**

21/02/22

I put these motors on my 4"

Was this review helpful? 0 0



Cheech F.

Verified Reviewer



**Perfect For 2Fiddy**

18/02/22

Bought these for my 5" 2Fiddy build. Best option in my opinion because 1) it's 100 KV more than the ummagawd, lighter weight, and stronger magnets. Paired with a 650/700mah 6s lipo I get approximately 9/10 minutes flight time.

Was this review helpful? 0 0



Ian

Verified Reviewer



**Built tough, flys great!**

19/09/21

Use these on my 2fiddy build and they survived a lot of crashes. T-motor makes some great products

Was this review helpful? 2 0



1

2





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