Table S3. Aerodynamic inputs for simulation. Horizontal and vertical aerodynamic forces applied to brachial (B), antebrachial (A), and manual (M) wing segments for each model. Values are based on wing-assisted incline running on 65° inclines (data from (Heers et al., 2011)); colors match colors of wing segments in Figure 3.

Age		aerod	otal lynamic prce 1 wing, N	Coefficient of resultant force, 45° angle of attack (C _R)	Angle of force (deg from horizontal)	Surface area of wing segment (S; m ²)	Distance btwn center of wing segment and shoulder jt (r; m)	Angular velocity (Ω; radians)	Trans- lational velocity (V _T ; m/s)	Proportion of total force $S[(\Omega r)^2+V_T^2]$	Total force (N)	Horizontal force (N)	Vertical force (N)
Baby: 7-8 days	в		1.47E-02	1.69	72	1.87E-04	7.30E-03	68.80	0.62	0.012	1.82E-04	5.63E-05	1.73E-04
	А	8.68				7.10E-04	1.93E-02			0.158	2.33E-03	7.21E-04	2.22E-03
	М					7.27E-04	4.73E-02			0.829	1.22E-02	3.78E-03	1.16E-02
Juvenile: 18-20 days	в	31.15	1.30E-01	1.40	60	9.50E-04	1.06E-02	66.29	1.18	0.013	1.63E-03	8.16E-04	1.41E-03
	А					3.55E-03	3.93E-02			0.204	2.64E-02	1.32E-02	2.28E-02
	М					2.83E-03	9.30E-02			0.784	1.02E-01	5.08E-02	8.80E-02
Adult: >100 days	В	60.48	1.48E+00	1.97	57	3.24E-03	2.39E-02	60.95	1.57	0.015	2.22E-02	1.21E-02	1.86E-02
	А					8.23E-03	7.27E-02			0.182	2.71E-01	1.47E-01	2.27E-01
	М					9.63E-03	1.47E-01			0.803	1.19E+00	6.48E-01	9.98E-01