Table 1. *Parameters used in the calculation of induced, profile and inertial power*

Symbol	Parameter	Value
$m_b g$	Weight (μN)	10.3±1.27
R	Wing length (mm)	2.47±0.71
S	Total wing area (mm^2)	3.95±0.18
κ	Rankine–Froude correction factor	1.28
$\overline{\|d\hat{\phi}/d\hat{t}\|^3}$	Mean cube of dimensionless angular velocity	104.5
$(d\hat{\phi}/d\hat{t})^2_{max}$	Square of maximum dimensionless angular velocity	30.3
$\hat{h}$	Dimensionless wing thickness	5.4×10^{-4}
$\hat{v}$	Dimensionless virtual mass	1.146
$\hat{r}^3_3\,(S)$	Third moment of wing area	0.242
$\hat{r}^2_2\,(m)$	Second moment of wing mass	0.345
$\hat{r}^2_2(v)$	Second moment of wing virtual mass	0.342
ρ_w	Wing density (kg m^{-3})	1200
ρ	Air density (kg m^{-3})	1.2

The values for the first three terms represent the means ± S.D. of all 27 flies. For the last 10 terms, a single value was used for all flies (see Materials and methods section for details).

For definitions, see Ellington (1984a).