Supp. file 2. Table of exact measurements of morphological features. Measured in Amira (Thermo Fisher Scientific, Waltham, MA, USA) based on the synchrotron µCT reconstruction of the holotype (SMNS\_Hym\_Cer\_000227). All measurements are in µm and decimals were rounded to whole numbers.

|  |  |  |
| --- | --- | --- |
| Total body length | 1026 |  |
| **Head** |  |  |
| Head length | 183 |  |
| Head breadth/width | 319 |  |
| Head height  | 253 |  |
| Interocular distance | 158 |  |
| Eye height | 183 |  |
| Eye width | 146 |  |
| Ocular ocellar line (OOL) | 42 |  |
| Posterior ocellar line (POL) | 52 |  |
| Lateral ocellar line (LOL) | 34 |  |
| Anterior ocellus diameter | 25 |  |
| Posterior ocellus diameter | 20 x 26 |  |
| Malar space | 71 |  |
| Subocellar sulcus | 71 |  |
| Cylpeus width | 74 |  |
| Clypeus height | 51 |  |
| Antennal segments lengths | left | right |
| Radicle | 14 | 16 |
| Scape | 172 | 179 |
| Pedicel | 71 | 71 |
| F1 | 57 | 61 |
| F2 | 41 | 40 |
| F3 | 36 | 37 |
| F4 | 37 | 37 |
| F5 | 38 | 37 |
| F6 | 39 | 38 |
| F7 | 39 | 43 |
| F8 | 97 | 95 |
| Antennal segments widths |
| Radicle | 22 | 23 |
| Scape | 48 | 49 |
| Pedicel | 29 | 30 |
| F1 | 30 | 30 |
| F2 | 33 | 30 |
| F3 | 34 | 33 |
| F4 | 36 | 38 |
| F5 | 38 | 40 |
| F6 | 42 | 43 |
| F7 | 41 | 41 |
| F8 | 47 | 48 |
| Length of mandible along ventral edge | 87 |  |
| Height of mandible in middle (along half its length) | 27 |  |
| **Mesosoma** |  |  |
| Mesosomal length | 383 |  |
| Mesosomal width | 241 |  |
| Mesosomal height | 358 |  |
| Mesoscutum length | 133 |  |
| Mesoscutal width | 241 |  |
| Median mesoscutal suture length | 194 |  |
| Interaxial sulcus length | 37 |  |
| Mesoscutellum length | 180 |  |
| Mesoscutellum width anterior | 116 |  |
| Frenum length | 28 |  |
| Frenal spine | 21 |  |
| Forewing length | 815 |  |
| Forewing width | 539 |  |
| Marginal setae | 26 |  |
| Hind wing length | 748 |  |
| Hind wing width | 182 |  |
| Max. Hind wing setae length | 43 |  |
| Hind wing setae angle | 67° |  |
| tergite 1 | 259 |  |
| tergite 2 | 69 |  |
| tergite 3 | 53 |  |
| tergite 4 | 41 |  |
| tergite 5 | 51 |  |
| tergite 6 | 15 |  |
| sternite 1 | 268 |  |
| sternite 2 | 61 |  |
| sternite 2(+3?) | 76 |  |
| last sternite | 69 |  |
| Length of last sternite ventral edge | 154 |  |
| 1st spine | 09 |  |
| 2nd spine | 10 |  |
| 3rd spine | 10 |  |
| 4th spine | 8 |  |
| 5th spine | 9 |  |
| 6th spine | 8 |  |
| 7th spikle | 12 |  |
| 1st paired spine | 9 |  |
| 5th paired spine | 8 |  |
| Max breadth of ovipositor sheath | 14 |  |
| Ovipositor width | 19 |  |
| Protruding distance of ovipositor  | 24 |  |
| **Legs** |  |  |
| *Fore leg* | Left | Right |
| Fore coxa | 79 | 79 |
| Fore trochanter | 51 | 48 |
| Fore femur | 166 | 163 |
| Fore tibia | 156 | 154 |
| Fore tibial spurs | 46; 28 | 50; 30 |
| Fore tarsus 1 | 79 | - |
| Fore tarsus 2 | 20 | - |
| Fore tarsus 3 | 20 | - |
| Fore tarsus 4 | 20 | - |
| Fore tarsus 5 | 38 | - |
| *Middle leg* | Left | Right |
| middle coxa | 51 | 48 |
| Middle trochanter | 48 | 47 |
| Middle femur | 174 | 183 |
| Middle tibia | 171 | 168 |
| Middle tibial spur | 28 | 30 |
| Middle tarsus 1 | 95 | - |
| Middle tarsus 2 | 32 | - |
| Middle tarsus 3 | 28 | - |
| Middle tarsus 4 | 28 | - |
| Middle tarsus 5 | 43 | - |
| *Hind leg* | Left | Right |
| Hind coxa | 162 | 155 |
| Hind trochanter | 48 | 53 |
| Hind femur | 224 | 222 |
| Hind tibia | 250 | 239 |
| Hind tibial spurs | 52; 22 | 44; 20 |
| Hind tarsus 1 | 113 | 116 |
| Hind tarsus 2 | 37 | 32 |
| Hind tarsus 3 | 31 | 29 |
| Hind tarsus 4 | 27 | 25 |
| Hind tarsus 5 | 49 | 52 |