|  |  |  |  |
| --- | --- | --- | --- |
| **animated articulations** |  | **joint type** | **QTY** |
| prothorax-head capsule |  | form & force guided  | 1 |
| head capsule-scape  |  | ball-and-socket  | 2 |
| scape-pedicel  |  | hinge  | 2 |
| pedicel-flagellum |  | ball-and-socket | 2 |
| prothorax-mesothoraxprothorax-procoxa |  | form & force guidedrotative | 12 |
| procoxa-protrochanter |  | screw-and-nut | 2 |
| profemur-protibia |  | hinge | 2 |
| protibia-protarsus 1 |  | ball-and-socket | 2 |
| protarsomere 1-protarsomere 2 |  | freely movable | 2 |
| Protarsomere 2-protarsomere 3 |  | freely movable | 2 |
| protarsomere 4-propretarsusmesothorax-mesocoxa |  | freely movablerotative | 22 |
| mesocoxa-mesotrochanter |  | screw-and-nut | 2 |
| mesofemur-mesotibia |  | hinge joint | 2 |
| mesotibia-mesotarsus 1 |  | ball-and-socket | 2 |
| mesottarsomere 1-mesotarsomere 2 |  | freely movable | 2 |
| mesotarsomere 2-mesotarsomere 3 |  | freely movable | 2 |
| mesotarsomere 4-mesopretarsus |  | freely movable | 2 |
| metathorax-metacoxa |  | dicondylic | 2 |
| metacoxa-metatrochanter |  | screw-and-nut | 2 |
| metafemur-metatibia |  | hinge | 2 |
| metatibia-metatarsomere 1 |  | ball-and-socket | 2 |
| metatarsomere 1-metatarsomere 2metatarsomere 2-metatarsomere 3 |  | freely movablefreely movable | 22 |
| metatarsomere 4-metapretarsus |  | freely movable | 2 |

**Table S1.** List of separate polygon meshes created from labeled exoskeleton parts of *Trigonopterus vandekampi*.