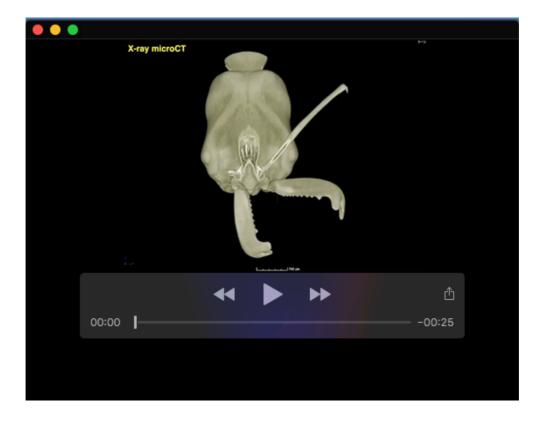
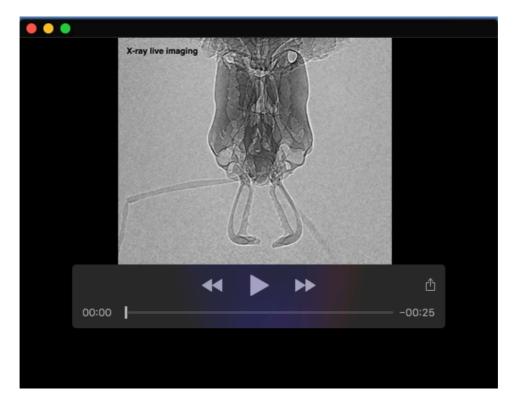


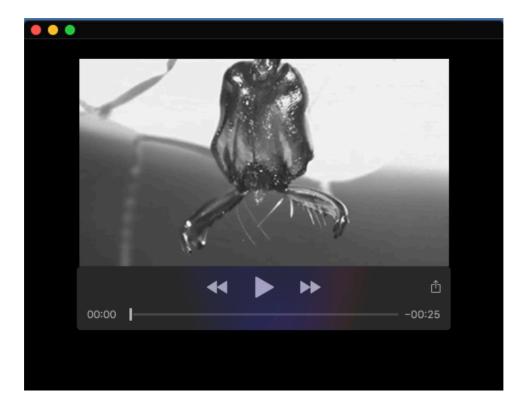
Movie 1. Highspeed movie of mandible powered jump captured at 10,000 fps.



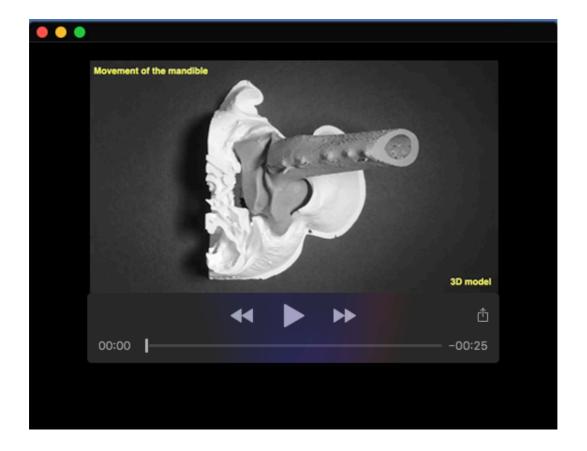
Movie 2. Movie of the X-ray micro-CT images of the trap-jaw ant.



Movie 3. X-ray live imaging during the ultra-fast movement of the mandible of the trap-jaw ant.



Movie 4. 3D model of the mandibular joint. Digital data of the micro-CT images were converted into STL files and then printed out using a 3D printer. The movie was made using a series of snapshot of the 3D model with different positions of the mandible.



Movie 5. Movement of the mandibular joint was recorded from the ventral side. During the loading phase, the rail and the groove of the ball were rigidly engaged.