Odontomachus bauri is a species of ant that has a trap jaw that shuts rapidly. This jaw system evolved from basic mouth parts that all ants have, but the jaw is longer, the joint is a different shape, and the muscles are larger.

Which of the following statements best explains why this trap-jaw trait evolved?

A. The trap jaw increases the ants’ body mass.

B. The trap jaw allows the ants to eat only one kind of food.

C. The trap jaw is the ants’ only means of species recognition.

D. The trap jaw increases the ants’ chances of survival and reproduction.