

7. A carpenter is building a doorframe using a nail gun. The nail gun of mass 5.0 kg fires a nail of mass 4.0 g .

The nail gun and nail are initially at rest.

The speed of the nail immediately after firing is 150 m s^{-1} .

The recoil speed of the nail gun immediately after firing is

- A 0.005 m s^{-1}
- B 0.05 m s^{-1}
- C 0.12 m s^{-1}
- D 1.2 m s^{-1}
- E 120 m s^{-1} .