Answer on Question #41434 – Physics - Mechanics | Kinematics | Dynamics

The motion of a rigid object for which all its constituent particles undergo the same kind of diplacement is refered to as -------- motion
oscillatory
translational
random
rotational

Solution:
«If a body is moved from one position to another, and if the lines joining the initial and final points **of each of the points of the body** are a set of parallel straight lines of length ℓ, so that the orientation of the body in space is **unaltered**, the displacement is called a translation parallel to the direction of the lines, through a distance ℓ»

— E.T. Whittaker: A Treatise on the Analytical Dynamics of Particles and Rigid Bodies, p. 1

Thus, the correct answer is translational.

Answer: translational