Semi-trailer for bulk cargo has a car body mounted on the chassis, comprising a body frame, a body floor, a body bottom, body walls, a rear body panel, and an unloading system comprising a body floor designed as a belt conveyor mounted on the body frame along the body bottom, wherein the belt conveyor is equipped with a continuous closed flexible conveyor belt having an outer conveying working surface, and an inner surface of the belt opposite thereto, and is designed to transport cargo, using the belt transport working surface, along the body bottom to the body unloading outlet. The inner surface of the belt runs above the car body floor, and a pressurized air supply system is provided to supply pressurized air to the inner surface of the belt and reduce friction between the body floor and the inner surface of the belt. The car body floor consists of at least two belt conveyor sections installed in a longitudinal horizontal plane, one after the other, and positioned between the first end of the body and the second end of the body so that the belts of the belt conveyor sections form at least two separate, vertically spaced conveying working surfaces; the adjacent end belt portions of the belt conveyor sections abut one another and are installed so as to overlap one another.