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DOUBLE DECK ELEVATOR



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ABSTRACT

There is provided a double deck elevator (100) which does not cause any impacts or vibrations on each cage when adjusting the spacing in a vertical direction between upper and lower cages. Loads on an upper support beam (41) from left and right support arms (22L, 22R) for hoisting and supporting the upper cage (20) are measured by left and right upper measuring units (50L, 50R). Similarly, loads on a lower support beam (42) from left and right support arms (32L, 32R) for hoisting and supporting the lower cage (30) are measured by left and right lower measuring units (60L, 60R). Because the magnitude of the loads on the left and right screw shafts (17L, 17R) can be obtained correctly, any impacts or vibrations caused on each cage (20, 30) can be prevented when adjusting the spacing in the vertical direction by correctly controlling the drive torque output from left and right drive motors (18L, 18R).

Fig. 1