

ABSTRACT

AUTOMATED CRANE CONTROLLER TAKING INTO ACCOUNT LOAD- AND
POSITION- DEPENDENT MEASUREMENT ERRORS

A handling system comprises a container bridge (1), which is arranged on a substrate (3), and at least one load handling point (10, 11) which is arranged on the substrate (3). The container bridge (1) has a trolley (6) which can be moved on a crossmember (5) of the container bridge (1) relative to the substrate (3). A crane controller (12) matches a target location (x_K) of the trolley (6), which target location is related to the crossmember (5), and a target location (x_L) of the load handling point (10, 11), which target location is related to the substrate (3), to one another in such a way that, when the target load (8) is lowered at the target location (x_K) of the trolley (6), the target load (8) is lowered onto the target location (x_L) of the load handling point (10, 11). The matching is performed while additionally taking into account at least one target load (L) with which the trolley (6) is loaded at its target location (x_K). The crane controller (12) positions the trolley (6) at its target location (x_L). Furthermore, said crane controller, after positioning the trolley (6), lowers the target load (8) onto the load handling point (10, 11). If the load handling point (11) on the substrate (3) can be moved and the load handling point (11) is controlled by the crane controller (12), the crane controller (12) further positions the load handling point (11) at its target location (x_L) before lowering the target load (8) onto the load handling point (11).

FIG. 1