

ABSTRACT

The present invention comprises: a gripper configured
5 to grip a heavy object to be assembled; a cooperative robot
for adjusting a location and an angle of the gripper; a
balancer for supplementing loading weight of the cooperative
robot and supporting the gripper; a loader arm for supporting
the balancer and the cooperative robot; a servo gantry
10 configured to support the loader arm at the upper side of an
assembly object with which the heavy object is to be
assembled, and enable a plane movement of the loader arm in
the horizontal direction.

15 Fig. 1