24. Method as claimed in claim 23, wherein the guide device is displaced by means of a tensioning cable attached thereto with a substantially constant tension force along the longitudinal axis of the boom.

25. Method as claimed in any of the claims 23-24, comprising the steps of:

a) taking up a component with the attaching means or the attaching structure;
b) tilting the boom upward until it runs so steeply that the attaching means comes within reach of the guide device;
c) displacing the guide device along the longitudinal axis of the boom until it rests on the wheels of the attaching means, after which the hoisting winch of the guide device is set into constant tension operation so that the guide device follows passively the displacements of boom and attaching means;
d) pivoting the boom into the vicinity of the desired assembly position;
e) tilting the boom until the component is in the desired assembly position;
f) receiving the attaching means in the catching construction;
g) positioning the component in the desired assembly position by displacing the attaching means parallel to the lifting plane from a position in the vicinity of the boom to a position further removed from the boom and/or vice versa; and
h) connecting the component to the support structure.

26. Method as claimed in any of the claims 23-25, **characterized in that** the component comprises a mast section, a rotor blade and/or a nacelle of a wind turbine.

27. Method as claimed in claim 26, **characterized in that** the component comprises a rotor blade of a wind turbine, and this rotor blade is hoisted and mounted in a substantially vertical position on a hub of the wind turbine.

28. Method ~~Device~~ as claimed in any of the claims 23-27, **characterized in that** the surface comprises a vessel, in particular a jack-up platform, and the components are placed on a support structure available at sea.