~~CLAIMS:~~

~~1. A dock-building apparatus, comprising:~~
~~a cantilever arm (11) having a first portion (12) configured to be supported on a ground area and a second portion (14) for overhanging a construction area, the cantilever arm (11) being displaceable perpendicularly to the length of the cantilever arm;~~
~~a lifting device (19) movable along the cantilever arm (11) for bringing construction materials including foundation members from the ground area to the second portion of the cantilever arm (11);~~
~~a foundation building tool (15) movable along the cantilever arm for installing the foundation members in the construction area.~~

~~2. The dock-building apparatus of claim 1, further comprising a support member (18) mounted on the second portion (14) of the cantilever arm (11) and arranged for bearing on ground in the construction area so as to support the second portion of the cantilever arm.~~

~~3. The dock-building apparatus of claim 2, wherein the support member (18) is located at a distal end of the cantilever arm (11).~~

~~4. The dock-building apparatus of claim 2 or 3, wherein the support member (18) is retractable.~~

~~5. The dock-building apparatus of claim 4, wherein the support member (18) is retractable by folding and/or lifting.~~

~~6. The dock-building apparatus of any one of the preceding claims, wherein the lifting device (19) comprises at least one gantry crane slidable along the cantilever arm (11).~~

~~7. The dock-building apparatus of any one of the preceding claims, wherein the foundation building tool comprises a pile driver (15).~~

~~8. The dock building apparatus of claim 7, wherein the lifting device (19) is integrated with the pile driver (15) and movable together with the pile driver along the cantilever arm (11) to pick up piles (7) and position such piles in a driving position of the pile driver.~~

~~9. The dock building apparatus of claim 7 or 8, wherein the pile driver is configured to install an inclined foundation by driving a pile at an angle with respect to a vertical direction (Z).~~

~~10. A method of building a dock, the method comprising:~~

- ~~arranging a cantilever arm (11) at a first position along a shoreline such that the cantilever arm has a first portion (12) supported on a ground area and a second portion (14) overhanging a construction area;~~
- ~~moving a foundation building tool (15) along the cantilever arm to a position in the second portion prescribed for installing at least one foundation member;~~
- ~~picking up the foundation member on the ground area with a lifting device (19) mounted on the cantilever arm;~~
- ~~moving the lifting device along the cantilever arm from the first portion to said prescribed position;~~
- ~~installing the foundation member in the construction area using the foundation building tool;~~
- ~~displacing the cantilever arm perpendicularly to the cantilever arm to a second position along the shoreline; and~~
- ~~with the cantilever arm at the second position, repeating the steps of moving the foundation building tool (15) along the cantilever arm, picking up at least one foundation member, moving the lifting device (19) along the cantilever arm and installing the foundation member.~~

~~11. The method of claim 10, wherein arranging the cantilever arm (11) comprises placing a support member (18) to bear on ground in the construction area so as to support the second portion (14) of the cantilever arm.~~

~~12. The method of claim 11, wherein the support member (18) is placed at a distal end of the cantilever arm (11).~~

~~13. The method of any one of claims 10 to 12, further comprising:~~

- ~~picking up deck parts on the ground area with the lifting device (19);~~
- ~~moving the lifting device along the cantilever arm from the first portion to the second portion of the cantilever arm; and~~
- ~~installing the deck parts on the foundation members.~~

~~14. The method of claim 13, wherein the foundation members comprise piles driven into the ground using the foundation building tool (15), and the deck parts comprise beams mounted on top of the piles and panels supported by the beams.~~

~~15. A dock comprising a deck and a foundation comprising a plurality of piles installed using a method according to any one of claims 10-14.~~

1. A dock building apparatus, comprising:

- a cantilever arm having a first portion configured to be supported on a ground area and a second portion for overhanging a construction area, the cantilever arm being displaceable perpendicularly to the length of the cantilever arm;
- a lifting device movable along the cantilever arm for bringing construction materials including foundation members from the ground area to the second portion of the cantilever arm; and
- a foundation building tool movable along the cantilever arm for installing the foundation members in the construction area.

2. The dock building apparatus of claim 1, further comprising a retractable support member mounted on the second portion of the cantilever arm and adapted to be arranged for bearing on ground in the construction area so as to support the second portion of the cantilever arm.

3. The dock building apparatus of claim 2, wherein the support member is located at a distal end of the cantilever arm.

4. The dock building apparatus of claim 2 or 3, wherein the support member is retractable by folding and/or lifting.

5. The dock building apparatus of any one of the preceding claims, wherein the lifting device comprises at least one gantry crane slidable along the cantilever arm.

6. The dock building apparatus of any one of the preceding claims, wherein the foundation building tool comprises a pile driver.

7. The dock building apparatus of claim 6, wherein the lifting device is integrated with the pile driver and movable together with the pile driver along the cantilever arm to pick up piles and position such piles in a driving position of the pile driver.

8. The dock building apparatus of claim 6 or 7, wherein the pile driver is configured to install an inclined foundation by driving a pile at an angle with respect to a vertical direction.

9. A method of building a dock, the method comprising:

- arranging a cantilever arm at a first position along a shoreline such that the cantilever arm has a first portion supported on a ground area and a second portion overhanging a construction area;
- moving a foundation building tool along the cantilever arm to a position in the second portion prescribed for installing at least one foundation member;
- picking up the foundation member on the ground area with a lifting device mounted on the cantilever arm;
- moving the lifting device along the cantilever arm from the first portion to said prescribed position;
- installing the foundation member in the construction area using the foundation building tool;
- displacing the cantilever arm perpendicularly to the cantilever arm to a second position along the shoreline; and
- with the cantilever arm at the second position, repeating the steps of moving the foundation building tool along the cantilever arm, picking up at least one foundation member, moving the lifting device along the cantilever arm and installing the foundation member.

10. The method of claim 9, wherein arranging the cantilever arm comprises placing a support member to bear on ground in the construction area so as to support the second portion of the cantilever arm.

11. The method of claim 10, wherein the support member is placed at a distal end of the cantilever arm.

12. The method of any one of claims 9 to 11, further comprising:

- picking up deck parts on the ground area with the lifting device;

- moving the lifting device along the cantilever arm from the first portion to the second portion of the cantilever arm; and
- installing the deck parts on the foundation members.

13. The method of claim 12, wherein the foundation members comprise piles driven into the ground using the foundation building tool, and the deck parts comprise beams mounted on top of the piles and panels supported by the beams.

14. A dock comprising a deck and a foundation comprising a plurality of piles installed using a method according to any one of claims 9 to 13.