CLAIMS

1. Method for determining the position of a formwork fitted onto at least one existing formwork (25), comprising:
transmitting a locating signal from the fitted formwork (25);
receiving the transmitted locating signal with a receiver (5) at at least one reference point (3);
determining a distance (26) between the fitted formwork (25) and the at least one reference point (3) based on the received locating signal;
determining a fitting position (28) of the fitted formwork (25) on the at least one existing formwork (20) compatible with the determined distance (26) on the basis of formwork geometries of the fitted formwork (25) and the at least one existing formwork, and
saving the determined fitting position (28) as the position of the fitted formwork (25).

2. Method according to Claim 1, characterized in that determining the fitting position (28) comprises:
determining all possible fitting positions (28) of the fitted formwork (25) on the at least one existing formwork (20);
determining the associated distance of each determined possible fitting position (28) to the at least one reference point (3);
determining those fitting positions (28) as compatible with the determined distance (26) whose associated distance is within a tolerance range around the determined distance (26).

3. Method according to Claim 2, characterized in that determining the fitting position (28) comprises:
limiting the possible fitting positions (28) based on a local zone boundary.

4. Method according to Claim 2 or 3, characterized in that determining the fitting position (28) comprises:
limiting possible fitting positions (28) on the basis of an orientation information concerning the fitted formwork (25).

5. Method according to any one of the Claims 1 to 4, characterized in that the locating signal is transmitted together with the geometry of the fitted formwork (25) and/or with an orientation information from the fitted formwork (25) to the receiver (4; 5).

6. Method for determining the position of a fitted formwork (25), comprising:
determining the number of reference points (3) with a direct line of sight to the fitted formwork (25);
if the determined number of reference points (3) is less than three or less than two, performing the method according to any one of the Claims 1 to 5.

7. Method according to Claim 6, characterized in that if the determined number of reference points (3) is at least three, the position of the fitted formwork (25) is determined on the basis of the distances to the at least three reference points (3) and associated with a probability of one.

8. Method according to Claim 6 or 7, characterized in that the position of the fitted formwork (25) determined by the method according to any one of the Claims 1 to 5 is associated with a reduced probability less than one, wherein the probability associated with the at least one existing formwork (20), to which the fitted formwork (25) is fitted, is taken into account.

9. Method according to Claim 8, characterized in that the reduced probability is determined as a function of a deviation of the determined distance (26) from the distance corresponding to the stored fitting position (28).

10. Method according to any one of the Claims 1 to 9, characterized in that determining the fitting position (28) comprises:
determining a connection geometry (55) for at least two positioning options (47-50);
determining the fitting position (28) in the context of the position determination of a subsequent formwork (46), wherein

the position of the subsequent formwork (46) is determined at a fitting position compatible with the connection geometry (55).

11. Method according to any one of the Claims 1 to 10, characterized in that the method is carried out on the basis of a stored installation sequence of a plurality of formworks (2) and the respectively determined positions and/or distances, wherein, in the case of a plurality of possible fitting positions for a fitted formwork, the probability of the possible fitting positions (28) is evaluated on the basis of other chronologically subsequently erected formworks and that of the possible fitting positions (28) is determined as the position of the fitted formwork to which the greatest probability is associated.

12. System (1) for determining the position of formworks (2), comprising:
a fitted formwork (25) with a transmitter (11) for a locating signal,
at least one reference point (3) with a receiver (5) for a locating signal,
a distance determination unit (6) set up to determine a distance (26) between the fitted formwork (25) and the at least one reference point (3) based on a locating signal sent by the transmitter (11) and received by the receiver (5);
a position database (7) with stored positions of at least one existing formwork (20); and
an adjustment unit (9) set up to determine a fitting position (28) of the fitted formwork (25) on an existing formwork (20) compatible with a distance (26) determined by the distance determination unit (6) based on the formwork geometries of the fitted formwork and the at least one existing formwork, and to store the determined fitting positions (28) in the position database (7) as the position of the fitted formwork (25).

13. System (1) according to Claim 12, characterized in that the adjustment unit (9) is connected to a geometry database (8) with stored formwork geometries of the fitted formwork and at least one existing formwork.

14. System (1) according to any one of the Claims 12 or 13, characterized in that the transmitter (11) is centred on the fitted formwork (25).

15. System (1) according to any one of the Claims 12 to 14, characterized in that the fitted formwork (25) comprises an orientation sensor, wherein the orientation sensor is connected to the transmitter (11).