CLIMBING SYSTEM FOR WALL

Climbing formwork is a specialized type of formwork for vertical concrete structures that rises with the building process. While relatively costly but highly versatile, it is an effective solution for buildings that are very repetitive in nature (such as towers or skyscrapers).

Usually, a climbing formwork system consists of the formwork and working platform for cleaning/fixing of the formwork, steel fixing and concreting. The formwork supports itself on the concrete cast earlier so it does not rely on support or access from other parts of the building or permanent works.

A simple climbing formwork is typically used on buildings of five storeys or more. Full self climbing systems are generally used on structures with more than 12 floor levels. However, a combination of crane-handled and self climbing system platforms is viable on lower structures.

One of the most distinct advantages of using automatic or full self climbing system is that through crane-independent forming, striking and climbing, the work process is optimised on the construction site and makes them independent of each other. This allows the planned operational sequences to be maintained and can even be accelerated, regardless of weather conditions.

MAIN FIELDS OF EFFICIENT AND ECONOMICAL USE OF THE CLIMBING FORMWORK SYSTEM

- Walls (large-area surfaces of all types)
- Partition or shear walls
- Supporting and retaining walls
- Lift shafts, core areas
STENN-BAGIO CLIMBING SYSTEM

STENGULF has put its great and vast experience on construction project to designing a system that offers the ideal climbing formwork solution. Crane-assisted or automatic –the principle is the same safety, economical fast and excellent concrete finish.

DIAGRAM FOR EXTERNAL CLIMBING SYSTEM
The system is designed to climb all together as one by the use of Crane.
Even the largest wall form panel can be moved easily, 750mm distance to form a comfortable work space when wall form retracted: The move-off device provides a safe and easy access for reinforcement fixing.
STENN--BAJIO CLIMBING SYSTEM FOR WALL

Stenn-Bajio climbing system for walls is simple fast and user friendly. The whole system can be lifted together as one, the panel together with the climbing apparatus. Insert in the concrete wall allow the climbing brackets to be supported, the climbing brackets support in turn the panels, working and recovery platforms.

STANDARD CLIMBING PROCESS

1. Set up the formwork by wall-through tie-rods and pull-push props, embed anchors and do the first concrete pouring.
2. Remove the formwork after the first pouring and fix anchor shoes on the finished wall, lift the brackets and formwork to the right position, match the formwork and do the second pouring.
3. Lift formwork and brackets to the higher floor; fix climbing rail and climbing system.
4. Match the formwork to the right position and do the second pouring.
5. Strip the formwork and fix anchor shoes on the finished wall and lift the whole system to the anchor shoes.
6. Match the formwork, do the concrete pouring, and proceed into the standard climbing stage.
Illustration of Vertical Climbing

1 prop-up procedure of hydraulic system