



RECORD-BREAKING PERFORMANCE

WITH ITS LONGEST WORKING RADIUS IN THE WORLD, SERMAC'S NEW BS57 STATIONARY PLACING BOOM WAS CHOSEN FOR PUMPING 20,300 M3 OF CONCRETE ON A RESIDENTIAL CONSTRUCTION SITE IN GENEVA

The Bachel-de-Pesay construction site, in the southern part of Geneva, plans to build and complete 228 housing units by summer 2022. It is one of the most important residential building projects, currently operating in the Swiss city.

The construction of the housing complex was entrusted to Maulini Sa. of Geneva, one of the leading Swiss companies operating in the French-speaking canton, specializing in the construction, renovation, civil engineering and general procurements.

An exceptional team work

The need of the customer – explains Alessandro Viello, Sales & Marketing Department SERMAC – was to have a great stationary boom to complete the structural works and to easily reach the entire working area of the jobsite, without having to move the stationary tower with considerable savings in time and costs. A construction site project involving the pumping of 20,300 m3 of concrete until completion of the work.

For this reason, the Swiss company turned to SERMAC, confident to count on a reliable and helpful partner that could take into account the specific needs of the construction site.

Thanks to the teamwork of Maulini's engineering team and the S-Design&Calculation Center of SERMAC, it was then possible to verify, build and assemble the BS57 stationary boom. A real pride for SERMAC, which managed to complete all the steps leading to the delivery and commissioning of this equipment because, with 56 m of range, the BS57 is currently the stationary boom with the longest working radius in the world.

In detail, the supply consisted of a sub-turret with gearmotor (which specifically interfaces with the customer's crane structure already on site), the counter-arm equipped with concrete ballasts, the working and inspection gallery and the hydraulic control unit for the movement of the boom, remotely controlled with a proportional radio control.

The BS57 stationary boom is equipped with 6 sections, able to reach a record maximum horizontal and vertical extension,

with a radius of 56 m. The maximum working depth exceeds 47 m with standard pipe diameter (5" – 125 mm) and 3 m rubber end hose.

Finally, additional accessories such as the automatic lubrication system, the unlocking of the rubber hose and the stop-flow ,add functionality to this model.

A constant research

SERMAC stationary booms of the BS series have a standard configuration of 34 m length with 4 section "Z" folding type or, as in this case, with 6 section "RZ" folding. The BS equipment provides an easy and quick assembly on site between boom and column, by means of quick couplings for the connection of hydraulic hoses.



The load-bearing structure of the stationary boom can be provided in three different configurations:

- on a fixed column: Boxed sheet metal column with square section mounted on a special fixed structure and anchored to the ground by special tie rods.
- on a climbing column: A square section box-made sheet metal column with self-climbing system that can be positioned in the lift compartment or in special openings on the slabs with anchoring on two floors.
- on a reticular column: anchoring to a reticular column inside or outside the construction provided by the customer. In this case, SERMAC designs and implements an adaptation interface to the boom, as in this specific case (BS57). ◀



TECHNICAL DATA

Stationary boom model	BS 57
Pipeline diameter	5" – 125 mm
Max. vertical reach	56,35 m
Max. horizontal distance	56 m
Max reach depth	47,7 m
Sections number	6
1st section opening angle	0-90°
2nd section opening angle	0-180°
3rd section opening angle	0-180°
4th section opening angle	0-225°
5th section opening angle	0-180°
6th section opening angle	0-90°
Slewing range	360° - 0/-5°
Slewing range	3 m