SABEU compiles customized production concepts for the assembly based on product specifications. They ensure a safe, economic production of systems in clean rooms and controlled areas.

Concepts for

- assembly lines
- rotary systems
- linear systems
- automatic testing devices

Processes:

- component assembly (fully automated, semi-automated or manual)

Depending on the component, different production steps such as welding, gluing, hot caulking, riveting and in-line tests – dimensional or visual inspections by means of camera systems – can be integrated into the assembly process.

Ultrasonic welding

High-frequency mechanical oscillations during ultrasonic welding cause interface friction in the assembly zone. The heat required for welding is generated in the process and the material is plasticized.

Thermal bonding

The wax applied to the cardboard is liquefied by infrared waves and dissolves the seals on the cardboard. The heat makes the sealing ring adhere to the bottle neck. After cooling off, the lid is unscrewed from the bottle neck and the cardboard removed. This type of bonding is useful for sealing containers filled with liquids.

Friction welding

Two components to be welded are mounted and one of them is set into a turning motion. The other stationary component is pushed against the moving one, thus heating up the welding points. The rotating component is slowed down, creating a bond at the joining level.

Edge over-molding

Edge over-molding involves the clip fastening of two components and the injection molding with various materials, thus joining the components.

- Components
- R&D / Design
- Mold manufacturing
- Injection molding