

Marchesini Group

The sterile line for bottles designed and built by Marchesini Group provides highly innovative technological solutions, able to effectively cater for the requirements of a sector that is constantly growing at international level.

The line is made up of the WRB24-8 rotary washing machine, the NLT120S depyrogenation tunnel, the Steril 300 filling – stoppering machine, the ML670 cap seal machine and the BL600 labeller. The heart of the line is the Steril 300, a linear continuous-motion machine for filling with liquid products in a sterile environment and application of a closure with rubber stopper operating at a top speed of 300 bottles per minute. Suitable for installation under an isolator, RABS (Restricted Area Barrier System) or Laminar Flow, the machine has a balcony structure which, thanks to complete separation of the mechanical parts and the filling zone, allows access to the mechanical parts only from the back of the machine, thus avoiding any contamination in the front part protected by the recirculating air of the laminar flow. The machine structure guarantees a perfect laminar flow to protect the product during and after filling. The bottles are held by dedicated supports which avoid rubbing on the bottle and so prevent particle formation. The filling system is of the rotary piston pump type, with 8 in the standard version and up to a maximum of ten. Each pump, consisting of two parts, can be disassembled and perfectly sanitised in an autoclave. Each rotary piston pump is controlled by a brushless motor, providing precise, independent adjustment of the volume dosed. This allows automatic correction of the dose based on the measurements taken by the statistical weight check system. The closing turret, stopper loading system and the vibrating base come with automatic height-adjustment.

