FULLY AUTOMATIC MACHINES FOR PET BOTTLES PRODUCTION

HS series
HS series are linear automatic blow moulding machines suitable for production of PET bottles 200 ml – 3 000 ml. Thanks to a reliable construction, easy operation and maintenance HS series meets all requirements for cost effective production of a very good quality PET bottles.

HS series consist of fully automatic pneumatic machines with automatization of all operations such as preforms loading and orientating. Movements of the closing unit and stretch rods are done by FESTO pneumatic cylinders. Chains inside the heating system are moved by electric motors. Preform transportation system is based on specially designed pins suitable for a stable work of the machine with different neck types water, carbonated soft drinks, oil and chemical preforms.

Modular construction allows to combine machine sections together on one frame. Through adding of one (HS3000), two (HS6000) and more sections (HS9000, HS12000), it is possible to design a machine installation with a total capacity suitable for customers’ needs. Modules can either work fully integrated giving maximal machine’s output, or in case it is necessary any of the modules can be switched off.

HS machines are very efficient and can work as stands alone or as in-line machines connected with fillers via SMF bottles unscrambling units.

HS series key points:
- compact size and durability of the equipment,
- flexible and efficient – heating system with heating modules- each of them consisting of 7 heating zones (steered from machine’s HMI) ensures proper heating of even long preforms – guaranteeing a full control of preform material distribution during blowing process,
- easy and flexible operation – easy mould change-over system and possibility to work with many types of neck rings,
- advanced PLC with build-in memory to keep blowing parameter recipes for many types of bottles,
- stable production with high performance per cavity – short decompression time,
- reliable, heavy duty machines ensuring cost-saving production,
- modular construction – modules can be combined together on one frame – each module can work integrated to get maximal machine’s efficiency or can be switched off to adjust production to the needs during the low season,
- high performance per cavity, perfect machine for untypical preforms and neckrings.
HS are very efficient machines and can work as a stand alone or in-line with SMF bottle unscrambler between the blower and filler. SMF offers linear "belt type" unscramblers (SB6 or SB10) as well as "pocket type" rotary unscrambler SB20 – most suitable for very light bottles. Two-stage process of production is divided into the following actions:

- preform loading from the feeding system to the loading wheel,
- conveying the preforms with internal holders,
- preform heating,
- preform transfer to the handling chain,
- preform grip and transfer,
- bottle production by stretch and blow process,
- in-line offloading of the ready bottles.