Production in two decks reduces costs

Image: DESMA 969.400 Sealmaster

Due to a central arrangement of the cold runner in the injection moulding process, elastomer parts can be produced in two decks. This increases productivity by 70 % on an average.

The two-deck production is possible with **both horizontal and vertical machines**. This variant is particularly suited for the **production of seals**, because **two-platen moulds** are mainly used here. Beside the central cold runner system, a **dipping machine nozzle** is also required in this case.

The **additional investments for a second mould** and the **two-deck cold runner** as well as additions on the injection moulding machine **only involve an average of 30 % extra costs**. This enables on an average - with the machine size remaining the same - an **increase in productivity by 70 %**. On top of this is the fact that the two-deck production can be easily automated on horizontal machines.

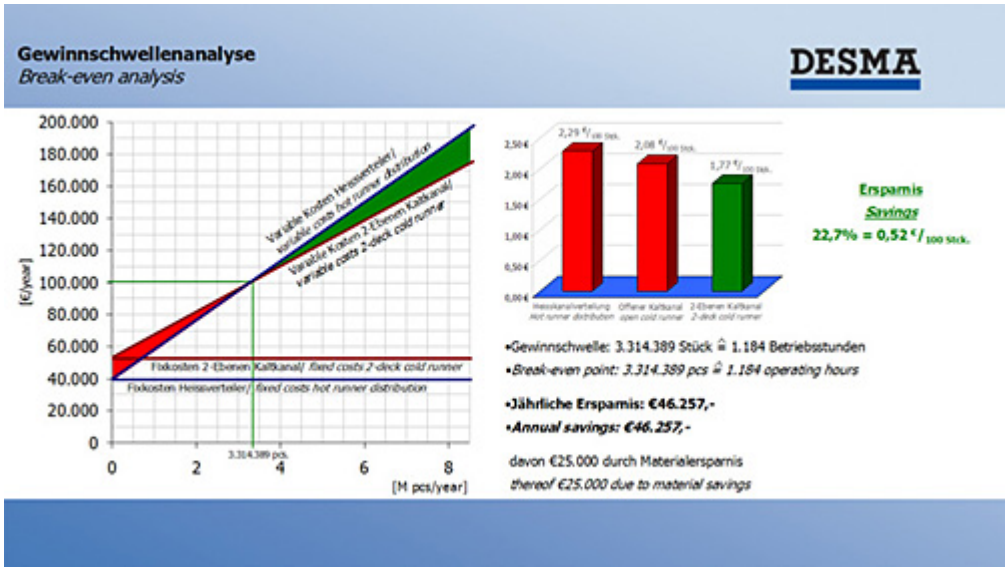

Image: Break-even analysis

Since all DESMA injection moulding machines can be equipped with **high-pressure injection units (HP)** with injection pressures up to 3,500 bar, sufficient pressure reserves even for **high-viscosity compounds** are available also when applying **multi-nozzle central cold runners**.

The following **example analysis** shows for which quantities and in which scope such a production is worthwhile:

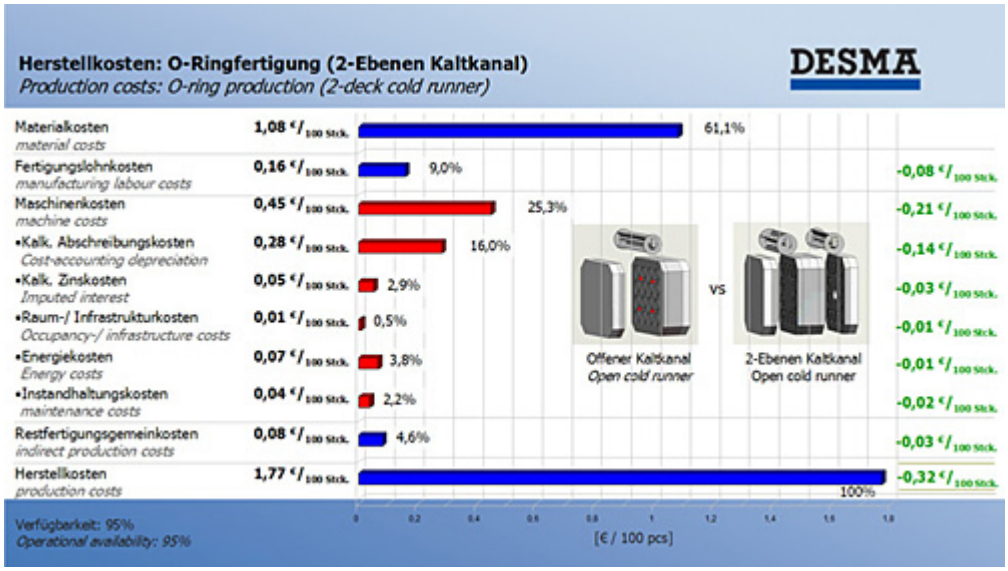

Image: Production costs 1

Image: Production costs 2