

Showcase

# HIGHER QUANTITIES, ENHANCED QUALITY

Compact racks with 96 sample tubes and caps facilitate automated diagnosis and a variety of lab processes in biotechnology and medical engineering.

## INITIAL SITUATION

Mythentec took charge of the existing cap moulds and was tasked with improving the quality of the product and ensuring that this improvement was sustained. The individually marked caps were to be used for sealing glass tubes.

## DEVELOPMENT

The required quality levels were achieved by strategic optimisation of the mould. The new and further improved hot runner moulds now achieve a significantly higher output rate.

## INJECTION MOULDING

Mythentec produces a total of six cap types in different colours with 4- or 8-cavity moulds within cycle times of between 7 and 12 seconds. All caps are then conditioned to meet the customer's requirements. The central master computer system continually archives actual injection moulding cycle parameters on the server.

## FURTHER PROCESSING

Thanks to a high degree of customer satisfaction, Mythentec today acts as a general contractor and takes charge of all subsequent steps. Each cap is laser marked with a unique code for automated sample processing in the lab. Mythentec takes care of the procurement of all purchased parts, assembles complete racks and packages these in units ready for sale. Further processing steps are carried out under enhanced hygienic conditions. The ERP system guarantees complete batch traceability throughout every process. A kanban system ensures short delivery times of one week.



INITIAL SITUATION



DEVELOPMENT



INJECTION MOULDING



FURTHER PROCESSING

FINAL PRODUCT

## KEY FACTORS

- Significant cost saving through direct purchasing
- One central contact for the customer
- Further processing under enhanced hygienic conditions
- Complete batch traceability of all articles
- Kanban system allows delivery durations of one week



Conditioning means that the absorption of water in the plastic over several months is realised within a few hours.



The caps are coded by laser to facilitate clear identification of samples in the lab.



The glass tubes are fitted with the coded caps and then assembled in a rack with 96 sample tubes.