

## CASE STUDY

### CLOSURE – WATER DISPENSER BOTTLE



#### Challenge:

A water processing company, located in Eastern Europe, required a cost-effective turnkey production system to manufacture a 2-component closure for 5-gallon/19L water dispenser bottle. Limited by the ceiling height of their production facility, a custom designed solution was developed incorporating a horizontal 2<sup>nd</sup> injection unit. The closure fit to different capping lines & bottle neck geometries was a prerequisite.







#### Husky Solution: Turnkey Compact Production System

#### Added Values

#### Integrated Hylectric closure system:

- Turnkey Husky system including high performance Hylectric molding machine equipped with 2 injection units, specialty closure mold with purposed built Hot Runner system, Temperature Controller and Auxiliary equipment.
- Hylectric machine features Reflex platens and 2 high performance injection units to support demanding process parameters and cycle time <15 seconds.
- Husky application expertise & tooling experience.

-  Compact production cell
-  3% cycle time reduction vs target
-  45 million closures per year
-  Fully integrated turnkey system

Husky Machine Technology	Area of Improvement	Added Values
High Performance clamping unit	Cycle time reduction	Higher production volumes
Reflex Platens	Equal clamp force distribution Lower tonnage requirements	Higher part quality
Robust clamp base & low friction linear bearings	Higher mold weight carrying capability Excellent platens parallelism Minimum core shift	Low reject rate Longer mold lifetime
Generous tie-bar spacing & daylight	Max mold cavitation increase	Compact & high productive molding cell
Fully integrated 2nd injection unit	Optimum process window Ease of operation	Higher part quality Operational flexibility

