

CASE STUDY

FLIP TOP CLOSURE – EDIBLE OIL

Challenge:

A producer of edible oils, located in West Africa, created a new application of flip top closure for their 1L oil bottle. A multifaceted closure design featured a tear-off membrane, non-drip spout, flow control and the ability for embossing. A plug & play solution was required while achieving an aggressive cycle time target.



Husky Solution: High Performance Turnkey System

Integrated Hylecric closure system:

- Turnkey Husky system including high performance Hylecric 225T molding machine, 24 cavity specialty closure mold with purposed built Hot Runner system and with in-mold-closing device, Temperature Controller & Auxiliary equipment.
- Hylecric machine with Reflex platens & highly capable injection unit to support application & tooling requirements.
- Full synchronization between IMM and in-mold-closing (IMC) device for safe & stable production without a need of a secondary, offline operation for caps closing.

Added Values

- Increased productivity
- 60 million parts per year
- Reduced operational costs
- Fully Integrated turnkey solution

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 Optimum clamp size for multi-cavity molds
Robust clamp base & 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 Ease of mold installation
High injection performance	Optimum process window Faster injection & recovery rates High throughput capability	Higher part quality Operational flexibility

