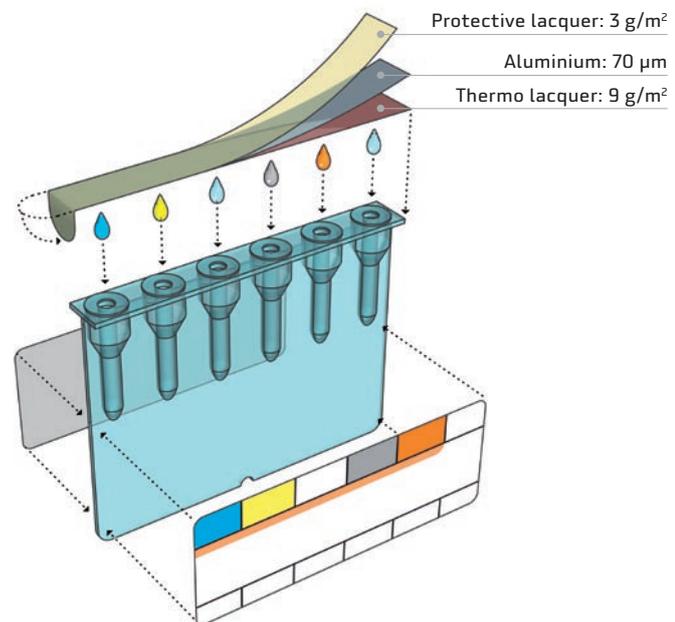


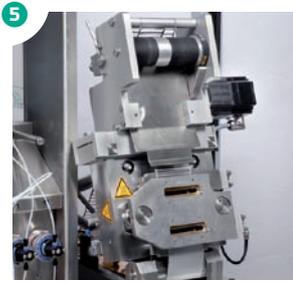
MEDICAL DIAGNOSTICS: ID CARDS FOR BLOODTESTS

Under contract with a leading manufacturer of medical diagnostics, Rychiger developed and produced a customer-specific filling and sealing machine. The revolutionary ID-micro typing system was designed for determining blood group and antibodies. The unique challenges: filling of the analytical gel, with a precise micro litre tolerance, into a hermetically sealed, easily peelable capillary tube.

PROCESS SEQUENCE

The cards are delivered in bulk and sorted by an oscillating conveyor. The twin-track, continuous infeed conveyor brings the cards to the main station and synchronises them with the transport system. At the filling station a pumping system fills the individual capillary tubes with up to six different analytical fluids – without spillage and in precise dosage. The cards are then sealed with the cover film. Thanks to Rychiger's unique «One-Stroke» technology, the punching and sealing are performed in a single step. The cards are then fed merged from two lanes to a single lane discharge conveyor where they are labelled.





THE DECISIVE ADVANTAGES

Precise Filling: The station handles filling volumes as low as 30 µl with the highest precision possible.

Rychiger's Leading Sealing Technology: Highest seal integrity with the best peel ability.

«Walking-Beam»: This linear transport system without a chain or timing belt minimises risk of contamination.

Multiple Fill Goods: Up to six different analytical fluids can be utilized.

Ergonomic Construction: Easy operation and clean ability.

Cleanroom Class: ISO 7 (ISO 14644-1)

TECHNICAL DATA

Packaging substrate: ID Card of PP, foil from roll (lacquered aluminium)

Card Dimensions: 70 x 9 x 53 mm

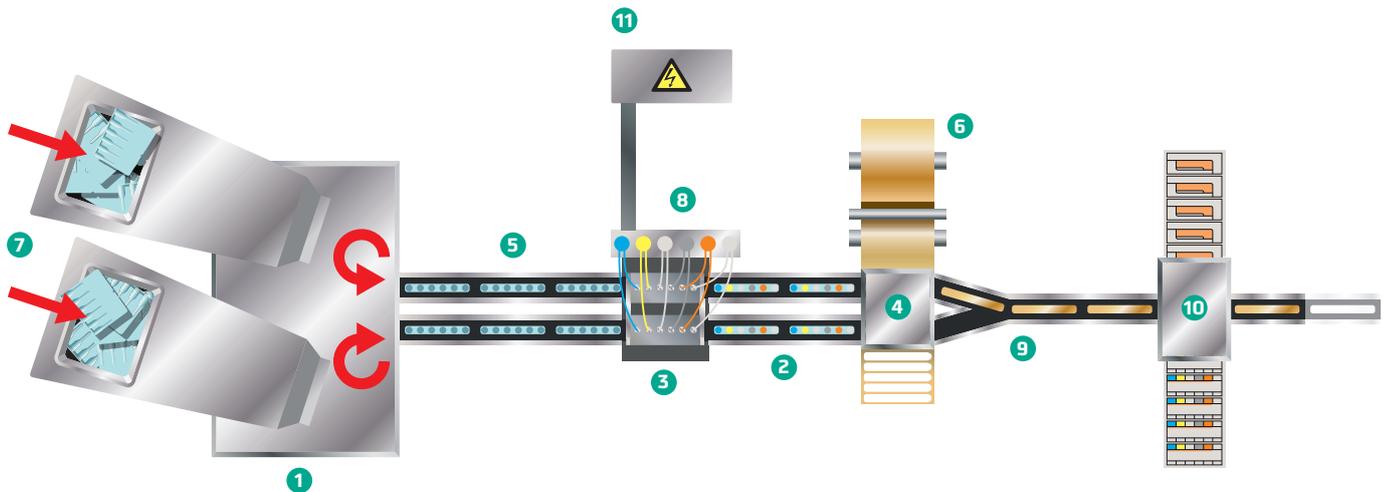
Number of lanes: 2

Cycle Time (Cycles/Min.): 40

Control: Allen Bradley

Machine Dimensions: ca. 8000 x 3800 mm (incl. control cabinet and oscillating conveyor)

OPERATION SEQUENCE



- | | |
|--|---|
| 1 Oscillating conveyor | 6 Spooler (cover film on roll) |
| 2 Main station (master shaft with cam discs and machine accessories) | 7 Filler |
| 3 Pumping system and filling nozzle | 8 Analytical fluids in packing drums (6-line) incl. agitator and pumping system (12-line) |
| 4 Punching and sealing tool incl. cover foil handling | 9 Flip-flop system incl. single-lane discharge conveyor |
| 5 Punching and sealing tool tilted up, maintenance and cleaning position | 10 Labelling system |
| | 11 Free-standing electrical cabinet |

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