



# MCG Industries Narrow transport crates for South Africa

*Engineering Passion*

***Krauss Maffei***

## Overview

**Customer:** MCG Industries, Johannesburg  
**Country or region:** South Africa  
**Industry:** Logistics / Packaging

### Application: Milk crate

- Cavities: 2
- Shot weight: 2745 g
- Cycle time: 28 s
- Material: PE-HD  
(new materials + regranulate)

### Machine details: MX 1000/17200

- Clamping force: 10,000 kN
- Screw diameter: 150 mm
- Handling: Falling

### Customer profile:

MCG Industries is a South African premium provider of plastic transport packaging items and primarily serves the beverage, brewing and dairy industries.

[www.mcgindustries.com](http://www.mcgindustries.com)

### Requirements:

- The use of an innovative 2-cavity mold
- Higher output at lower costs
- Optimum product quality
- Long-lasting machine
- High user-friendliness

### Individualized solution:

- HPS barrier screw
- Machine bed elevation of the clamping unit by 600 mm
- Performance-optimized media supply of the mold with water and oil
- Intensive training for the operators in Munich

### Benefits:

- Short cycle times
- Energy consumption reduced by 20%
- High throughput with maximum material homogenization
- Easy discharge of the crate in all four directions within the clamping unit

## Highly efficient manufacturing Cleverly produced milk crates

An advanced manufacturing system for producing milk crates is to be created: by investing in three large MX 1000/17200 machines from KraussMaffei, MCG Industries lowers its cycle times and energy consumption significantly and, in doing so, gains a competitive advantage.

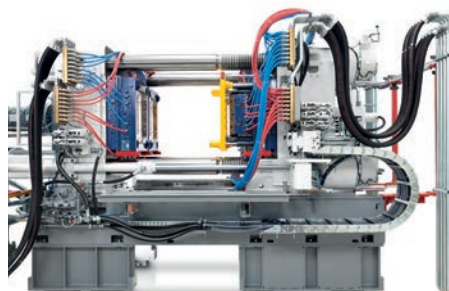
First, the focus was on the mold. "We wanted the best and most productive mold there is for such applications," stipulated the guideline. This is where Schoeller Allibert came into play, known worldwide for the development of innovative reusable packaging products. The bid entailed a mold with two cavities. Due to the high requirements, a special injection molding machine was needed that went beyond the usual specifications. Schoeller Allibert recommended KraussMaffei as the machine supplier for this project.

The large MX 1000/17200 type offered by KraussMaffei fit the bill perfectly. In terms of a two-cavity mold, this injection molding machine offers optimal utilization of platen dimensions and clamping forces at an excellent price/performance ratio. On-site service and a training concept for every employee involved, from the operator to the project manager, proved to be another important factor in the decision.

And the success is measurable. MCG had specified a cycle time of 30 seconds, quite a challenge for the product size (424 x 334 x 310 millimeters). At machine acceptance, KraussMaffei was able to run a stable process at a cycle time of 28 seconds. Meanwhile, the system and two additional ones (identical in design) are producing successfully at the Johannesburg location.

"Schoeller Allibert, KraussMaffei and its South African representative, P&CT, have developed a solution perfectly tailored to our requirements."

(Ian Victor, Managing Director MCG)

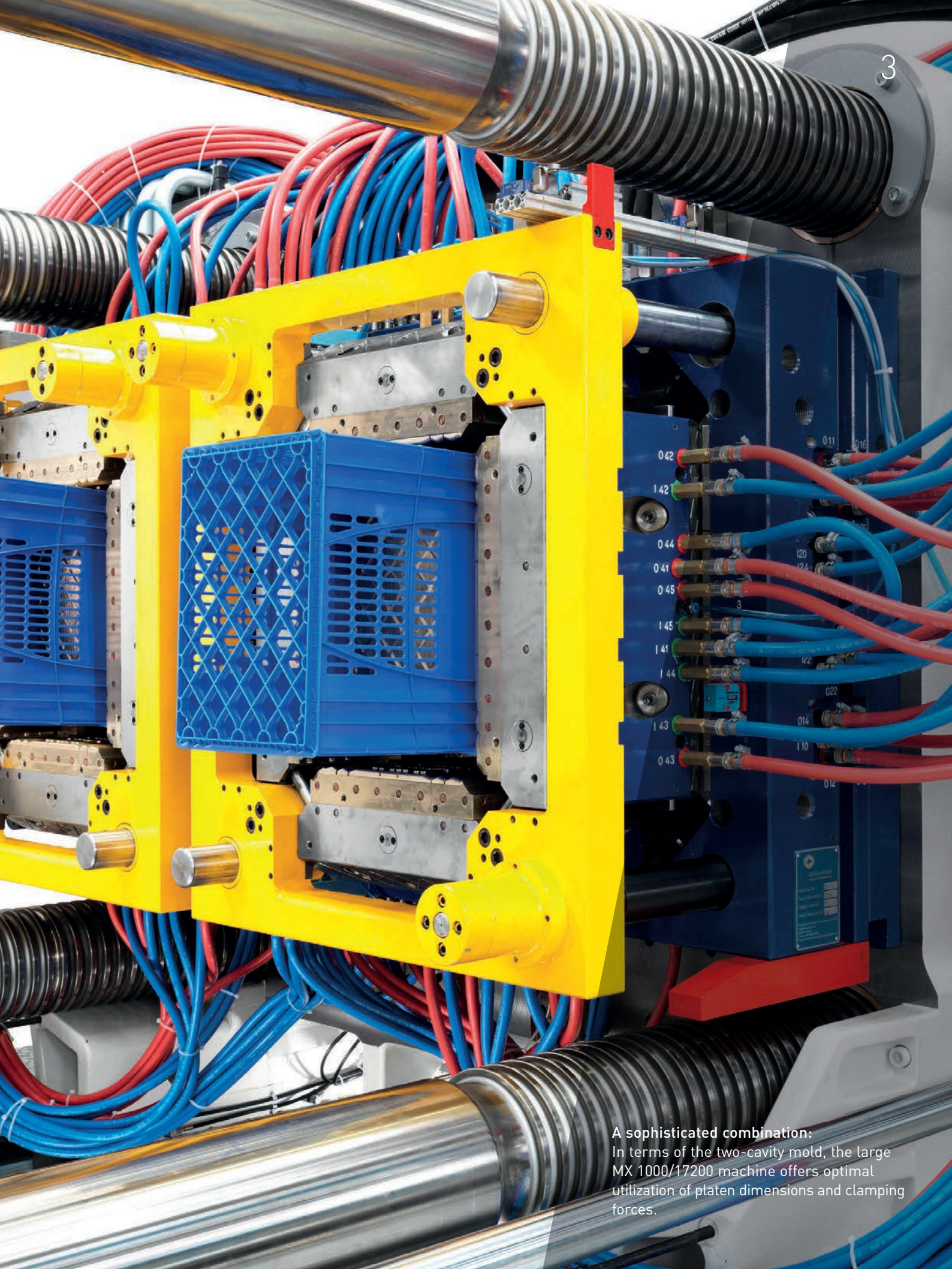


### Short distances:

The optimized media supply of the mold with water and oil.

### Succeeding together:

The employees of MCG, Schoeller Allibert, KraussMaffei and P&CT.



**A sophisticated combination:**  
In terms of the two-cavity mold, the large MX 1000/1720 machine offers optimal utilization of platen dimensions and clamping forces.