

*SUCCESS STORY*

# *INTERSURGICAL*

*VITAL RESPIRATORY  
PRODUCTS*

***Krauss Maffei***

*Pioneering Plastics*



# EFFECTIVE PROTECTION FAST ASSISTANCE IN TIMES OF COVID 19

## OVERVIEW

**CUSTOMER:** Intersurgical  
**COUNTRY OR REGION:** UK  
**INDUSTRY:** Medical technology

### APPLICATION: OXYGEN MASK

- Cavities: 2 + 2
- SHOT WEIGHT: 18 g PP & 12 g TPE
- CYCLE TIME: 18 s
- Material: PP & TPE

### MACHINE DETAILS: CX 200-380-180

- Clamping force: 2.000 kN
- Screw diameter: 35 mm & 30 mm
- Handling: N/A

### CUSTOMER PROFILE:

Intersurgical is a global designer, manufacturer and supplier of a wide range of medical devices for respiratory support.  
[www.intersurgical.com](http://www.intersurgical.com)

### REQUIREMENTS:

- Excellent product quality
- High precision
- Fast cycle time
- Suits cleanroom manufacturing
- Extremely fast delivery times

### INDIVIDUALIZED SOLUTION:

- Ideal machine mix of CX, CX ClassiX and PX machines
- Multicomponent technology
- Extremely fast delivery and commissioning times despite travel restrictions

### BENEFITS:

- Massive increase of production despite Covid-19 restrictions
- Ability to cope with market fluctuations thanks to increased capacity
- Excellent cost-efficiency

Oxygen masks are life-saving. The same applies to respiratory filters that prevent mutual contamination between the patient and the ventilator or anesthesia facilities. Intersurgical manufactures these products and had to massively increase its capacities in the run of the corona pandemic.

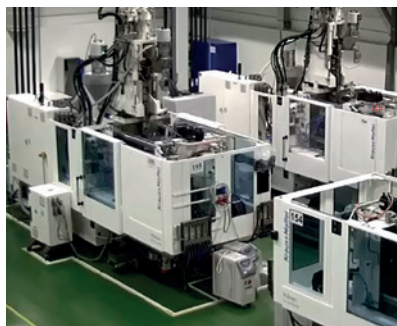
Intersurgical is an innovative market leader for high quality respiratory care products for the hospital sector worldwide. Therefore, precision is a key factor for any products manufactured by them; selecting KraussMaffei as a trusted business partner for high tech injection molding machines was the preferred choice. Since its inception in 1982, Intersurgical has been completely focused on providing medical devices for respiratory care such as airway management, anaesthesia or aerosol therapy.

As the first factory closed in February 2020 due to the Covid crisis, the global demand started to increase from both governments and hospitals directly. The management team implemented a strategy to increase the production capacities. It quickly became clear that a solution needed to be found to respond to demand and KraussMaffei responded with exceptional speed of machine delivery.

Thus, a CX 200 with an electric turntable found its way to Lithuania, where it is now producing high quality oxygen masks that are used in conjunction with a breathing tube and respiratory machines (which can also have filters added to them if required), providing patient protection. In a four-cavity mold the two halves of the oxygen mask are produced from polypropylene (PP) and thermoplastic elastomer (TPE), in a cycle time of 18 seconds.

***“In this crisis, we have learned how to be as efficient as possible, and also who we can rely on.”***

(Charles Bellm, Managing Director Intersurgical)



*In the run of the pandemic Intersurgical invested in several new KraussMaffei machines*



*The production of oxygen masks was also massively increased*



*Special filters (here in yellow) are integrated between machine and patient into the hose*