



## CUSTOMER STORY

# Materia Srl

Supporting medical care during  
the COVID-19 crisis



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Riccardo Suriano  
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«We are very proud to have made a small contribution with this project in these difficult times.»



The modular Sintratec S2 system being operated at Materia's production.

**Materia Srl from Italy successfully uses the Sintratec S2 3D printing system in the fight against the coronavirus. With 3D-printed adapters, diving masks can be transformed into respiratory devices, thus significantly helping to relieve regional hospitals. Sintratec supports these efforts as far as possible and provides the company with the necessary printing material free of charge.**

### 3D printing for crisis management?

Materia Srl was one of the first companies in Italy to acquire a Sintratec S2 for its production. The SLS compact system was to be used primarily for engineering and prototyping purposes and to be applied in shipbuilding for example. But then everything turned out differently: at the beginning of March the Coronavirus epidemic broke out in Italy on an unprecedented scale, plunging the entire country into a state of emergency. Severe supply shortages, especially in the health sector, have prompted the team around operation manager Riccardo Suriano to make a contribution to combating the crisis and focus their work on new 3D solutions in the medical field. And successfully so.



The mask adapters are manufactured additively through selective laser sintering (SLS).

### 3D adapters for snorkeling masks

The situation in Italy has become increasingly critical in recent weeks. The quantity of ventilators in the intensive care units of hospitals was soon no longer able to meet the needs of the seriously ill. Following the calls of the national health system for alternative resources, the locally based market leader for diving equipment Mares developed an adapter for snorkeling masks in cooperation with Materia Srl. By means of a 3D printed component the «Sea Vu Dry+» model, normally part of underwater equipment, can be transformed into a functional face mask, suitable for artificial respiration in cases of respiratory failure.

### Support from Switzerland

Sintratec, the Swiss manufacturer of the 3D printing system, was also able to make a contribution through its Italian partner CMF Marelli: to support the company in production, Sintratec provided print-ready Sintratec PA12 powder, from which the mask adapters are made, free of charge. «In one of the most affected areas of the world, such creative measures are especially needed now. We hope that Materia Srl will be able to produce a large number of parts and save human lives,» summarizes Sintratec CEO Dominik Solenicki.



The modification of the diving masks can be done within minutes.