



# Device Production for ICU Ventilator

*(History and current demand for devices used in ICU Ventilator)*

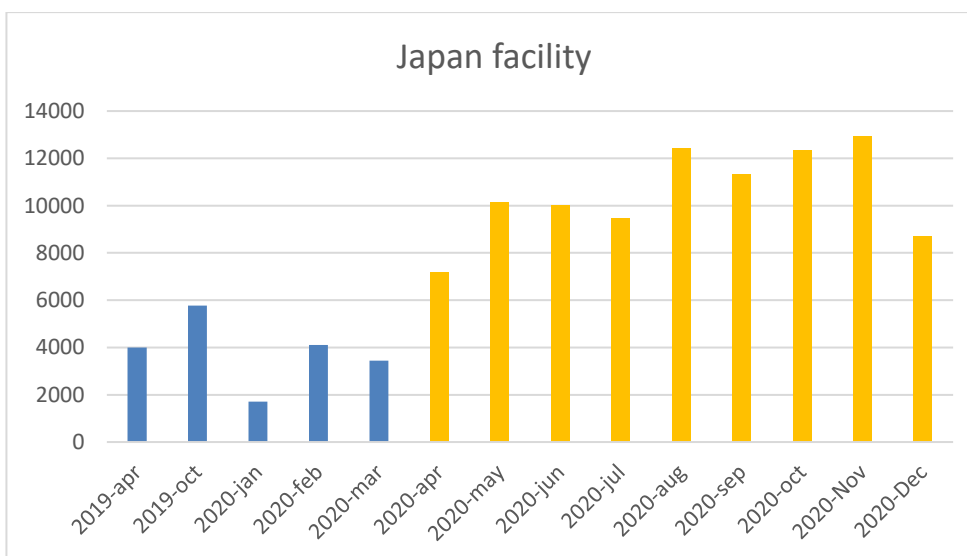
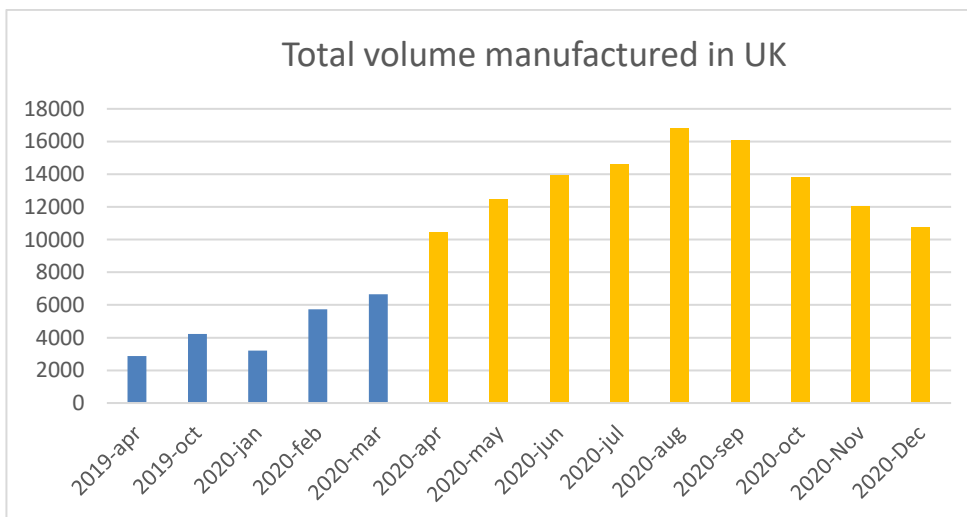
## **Background**

Geeplus Europe supplies actuator devices to a number of medical ventilator manufacturers worldwide. These companies are now striving to increase production to support the most affected areas where COVID-19 has taken hold. See [www.geeplus.com](http://www.geeplus.com)

The devices supplied are proportional and on-off actuators used to control the flow and pressure of breathing gases (Air and Oxygen) in Intensive Care Ventilators.

In the past 15 years Geeplus has supplied more than 700,000 such devices to manufacturers of ICU ventilators including Maquet (Getinge), Hamilton, Mindray, Loewenstein (Salvia), Spacelabs (Blease), Northern Meditec, Dixtal and others.

At the present time, we have projected demand in 2020 for more than 150,000 devices for ICU ventilator application. A ventilator may use one, or as many as five devices, so this represents probably 50,000 to 75,000 ventilators. Current orders (devices) for ICU ventilator application are shown in attached graphs.



We have personnel working overtime, and night-time shifts to maximise use of resources, and suppliers around the world have been increasing production of component parts / materials needed for this.

We have letters requesting support from customers / overseas governments. With closures / restrictions on Schools and Transportation, we are concerned about being able to continue operating at this rate.

For the past week, we have been trying to elicit the support of government to provide support needed to ensure our workforce and their families are healthy, able to travel, and able to continue work.

We have sent communications to the Ventilator Support initiative, Department of International Trade, Department of Health and Social Care, Bob Stewart as our constituency MP, Matt Hancock, Boris Johnson, Dominic Cummings, asking for support, or for communication to be passed on to appropriate parties.

The DIT has replied and passed on further contacts but are unable to help further with our immediate concerns, the DHSC has advised they are unable to help (including with staff health and care issues). We have received offer of support with schooling for children of personnel, and a letter of support from the cabinet office.

Please forward this to anyone who may be able to help. The immediate areas where we would like support are described in the attached letter. These immediate requests are what is needed to maintain our present levels of production, an infection amongst staff could have a massive negative impact on this.

With additional skilled personnel and resources, production could be increased, without the requested support, we cannot realistically consider further increase at this time.

Julian Chapman

Managing Director

Geeplus Europe Ltd

2<sup>nd</sup> April 2020