

3M and Ford Begin Shipping Newly Designed Powered Air-Purifying Respirators for Health Care Workers Fighting COVID-19

ST. PAUL, Minn.--(BUSINESS WIRE)-- Newly designed powered air-purifying respirators (PAPRs), developed by Ford in close collaboration with 3M, are on the way to health care workers fighting COVID-19.

Since late March, the companies have been working rapidly to design and deliver urgently needed PAPRs, drawing on 3M's expertise in personal safety equipment, technology and regulatory requirements. Through the collaboration, 3M and Ford brought the new PAPR from idea to product in 40 days. Now, more than 10,000 of the newly designed PAPRs are ready to be shipped from Ford's Vreeland facility near Flat Rock, Michigan.

"We are dedicated to helping support and protect the health care workers fighting COVID-19," said Bernard Cicut, vice president, 3M Personal Safety Division. "We thank Ford for partnering with us to quickly develop and deliver more of these critical health care supplies to the heroes working on the frontlines of this unprecedented health crisis."

3M is a leading provider of personal protective equipment, including powered air-purifying respirators. Demand for 3M PAPRs is exceeding supply due to the COVID-19 pandemic. Through partnerships with companies like Ford and Cummins, 3M plans to increase capacity of its own PAPRs by ten-fold within the next several months.

"Ford could not stand by while health care workers in this country placed their lives on the line to help others without even having proper protection," said Jim Baumbick, vice president, Ford Enterprise Product Line Management. "That's why we kicked off an all-out sprint to protect those who are so selflessly helping patients afflicted with this terrible virus."

The Ford Limited-Use Public Health Emergency PAPR includes a hood and face shield to cover health care professionals' heads and shoulders, while a high-efficiency (HEPA) filter system provides a supply of filtered air for up to eight hours on a single battery charge. The air blower system—built around fan components found in Ford F-150's ventilated seats—is powered by a rechargeable, portable battery, helping keep the respirator in constant use by first-line defenders.

The 3M and Ford development team worked closely with the U.S. Centers for Disease Control and Prevention's (CDC) NIOSH National Personal Protective Technology Laboratory. NIOSH provided timely guidance to encourage the development of PAPRs to help respond to the COVID-19 emergency. NIOSH has issued temporary approval under its limited-use protocol to respond to the COVID-19 public health emergency.

3M will sell and distribute the newly designed Ford Limited-Use Public Health Emergency PAPR through select 3M-authorized U.S. distributors to quickly and efficiently deploy these technologies to health care workers. The company will also provide technical support for health care workers using the new PAPRs. These 3M-authorized distributors moved exceptionally fast to make the PAPRs available for order within days.

3M and Ford will donate any profits they earn from the sale of the PAPR to COVID-19 related nonprofit organizations.

Since the initial outbreak, 3M has doubled its global output of filtering facepiece respirators, such as N95s, to a rate of more than 1.1 billion per year, or nearly 100 million per month. In the United States, 3M is producing 35 million N95 respirators per month, with more than 90 percent going to health care workers. 3M has already put

into motion investments and actions that will enable it to double its N95 and other filtering facepiece respirator capacity once again to two billion globally within the next 12 months. To learn more about the Ford Limited-Use Public Health Emergency PAPR visit [3M.com/FordPAPR](https://www.3M.com/FordPAPR) or how 3M is responding to the COVID-19 pandemic, visit [3M.com/Covid-19](https://www.3M.com/Covid-19).

Forward-Looking Statements

This news release contains forward-looking information about 3M's financial results and estimates and business prospects that involve substantial risks and uncertainties. You can identify these statements by the use of words such as "anticipate," "estimate," "expect," "aim," "project," "intend," "plan," "believe," "will," "should," "could," "target," "forecast" and other words and terms of similar meaning in connection with any discussion of future operating or financial performance or business plans or prospects. Among the factors that could cause actual results to differ materially are the following: (1) worldwide economic, political, regulatory, capital markets and other external conditions and other factors beyond the Company's control, including natural and other disasters or climate change affecting the operations of the Company or its customers and suppliers; (2) risks related to public health crises such as the global pandemic associated with the coronavirus (COVID-19); (3) liabilities related to certain fluorochemicals, including lawsuits concerning various PFAS-related products and chemistries, and claims and governmental regulatory proceedings and inquiries related to PFAS in a variety of jurisdictions; (4) legal proceedings, including significant developments that could occur in the legal and regulatory proceedings described in the Company's Annual Report on Form 10-K for the year ended Dec. 31, 2019, and any subsequent quarterly reports on Form 10-Q (the "Reports"); (5) competitive conditions and customer preferences; (6) foreign currency exchange rates and fluctuations in those rates; (7) the timing and market acceptance of new product offerings; (8) the availability and cost of purchased components, compounds, raw materials and energy (including oil and natural gas and their derivatives) due to shortages, increased demand or supply interruptions (including those caused by natural and other disasters and other events); (9) unanticipated problems or delays with the phased implementation of a global enterprise resource planning (ERP) system, or security breaches and other disruptions to the Company's information technology infrastructure; (10) the impact of acquisitions, strategic alliances, divestitures and other unusual events resulting from portfolio management actions and other evolving business strategies, and possible organizational restructuring; (11) operational execution, including scenarios where the Company generates fewer productivity improvements than estimated; (12) financial market risks that may affect the Company's funding obligations under defined benefit pension and postretirement plans; and (13) the Company's credit ratings and its cost of capital. Changes in such assumptions or factors could produce significantly different results. A further description of these factors is located in the Reports under "Cautionary Note Concerning Factors That May Affect Future Results" and "Risk Factors" in Part I, Items 1 and 1A (Annual Report) and in Part I, Item 2 and Part II, Item 1A (Quarterly Reports), as updated by applicable Current Reports on Form 8-K. The information contained in this news release is as of the date indicated. The Company assumes no obligation to update any forward-looking statements contained in this news release as a result of new information or future events or developments.

About 3M

At 3M, we apply science in collaborative ways to improve lives daily. With \$32 billion in sales, our 96,000 employees connect with customers all around the world. Learn more about 3M's creative solutions to the world's problems at www.3M.com or on Twitter @3M or @3MNews.

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