

Face Shield Update

DONATE, CREATE, PUNCH, GLUE, DELIVER, SMILE, REPEAT



THE NUMBERS

620

As of Monday, 4/6/20, the number of headbands and an equal number of sheets with stiffeners delivered to Faith Regional Health Services.

7,000

Approximately number of overhead transparency sheets donated by local schools.

14

Number of football fields the amount of plastic used so far would travel if unrolled end to end.



MUSTANGS STEP UP

Rick Spotanski, master of 3D printing and all things Sith or Jedi, cranking out head seats in Stanton. His two printers are a welcome addition to our mechanical army fighting the Corona Virus.



SUPPORT FROM A HARD HIT AREA

Many schools order filament from 3D Solutech. This Seattle-based company makes great filament in a huge selection of colors. They currently are supporting groups that are helping local hospitals with PPE. They said they would donate three “boxes”, but what arrived was three CASES. What a great company!

<https://www.3dsolutech.com/>



NO BETTER TIME

Nucor teammate Jake Wemhoff had been thinking about getting involved with 3D printing with his son, Tommie. They decided that getting involved with the face shield project would be a great introduction. They purchased a printer kit, assembled it and are now part of the movement. They will be helping with donations to FRHS as well as the Battle Creek Nursing home. Welcome to the team, Jake and Tommie!

A NUCOR FAMILY

As word has spread through the NUCOR family, many teammates are looking for ways to help. Roll Shop Supervisor, Brett Jackson, stopped by the Detailing Center to ask what he could do. One answer for him was to get his son, Nathan, involved. Nathan owns a Prusa 3D printer and he has already dropped off his first two batch of headbands. Thanks for using your 3D printing skills to keep our local medical providers safe.



A STICKY SITUATION

Norfolk Junior High Panther staff are tackling the gargantuan task of gluing stiffeners on the plastic sheets to make the shields stronger. Principal Robinson confirmed that no one has glued their fingers together yet; at least they are not admitting it.

Thanks Heidi Korth, Ashley Lanman, Stacy Witt, Kaitlyn VanSurksum, Tammy Prauner



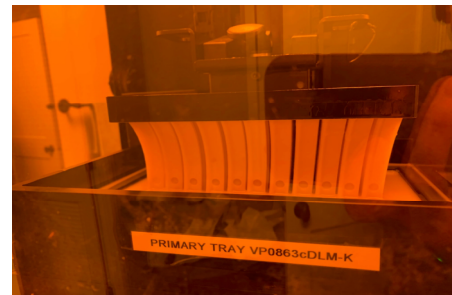
DRAGONS LEAD THE WAY

The Madison Dragons were the first school to donate filament to our project. Before we even picked up their Makergear printer, they volunteered two rolls of plastic to get us going. They have followed up with a large donation of plastic sheets. Thanks, Reid, Bobbi and the Madison staff for showing your Dragon spirit!



A DENTIST WITH NEW TOOLS

We always tell students that dentists are a leading user of 3D printing technology (along with jewelers). A Norfolk dentist, Dr. Adam Langan, has reached out with an offer to help with our face shield project. He has five high quality resin (liquid) 3D printers in his office. Not only are his printers cool, they are FAST. He can create 99 stabilizer clips in one printer in the time it takes one of our machines to make just 20. Who's jealous? It's Dave.



Tielke Sandwich has donated an insane amount of clear plastic on gigantic rolls. This plastic will be distributed along with the headbands so health care providers in local facilities can create as many face shields as they need. These rolls will also allow larger shields to be created as needed, offering more protection. Please remember this generous community partner the next time you are hungry.

WRAPPED UP

NEW GUY IN A BRAVE WORLD



Battle Creek students not only have a Creation Station 3D printer, the school also bought a Makergear printer of their own. An amazing first-year teacher, Seth Montag, usually oversees the kids using the BC Creation Station. Without his student around, he has taken on the lonely task of printing headbands. In addition to keeping the printer going in Battel Creek, he has proven to be the fastest three-hole punch operator in Northeast Nebraska.



A NEW TREND IN SELFIES

Faith Regional Health staff are showing the love on social media with selfies featuring our face shields. If you see any posts like this, be sure to send the love right back and thank them for their incredible bravery in dealing with the COVID-19 pandemic. These are true heroes.



PAYING IT BACK

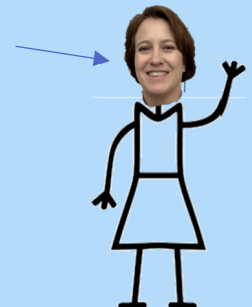
During his senior year, Austin Marx of Battle Creek received a Makergear 3D printer for Christmas. He is very talented at 3D software and even modeled and printed a pivot irrigation system using TinkerCAD. The very first email that Nucor received after the story was featured on television simply said *"Would you like me to assist in printing those masks?"* Austin is now printing headbands in his home. The staff at Battle Creek say this former student is a good kid, his actions prove them right.

EXTRA HELP FROM PIERCE



Crys Bauermeister would not send me a picture, so I made one.

Her students were working on assembling two 3D printer kits when COVID shut their school down. To help boost production, Crys finished the assembly in a day and delivered them to the Detailing Center along with a large donation of overhead sheets. These two printers are making it possible to supply PPE to as many health workers as possible. Thanks, Crys!



WHERE DO WE GO FROM HERE?

We will be finishing the initial request from FRHS for 1,000 headbands in the next few days. Thanks to everyone who has made this possible, you are all amazing.

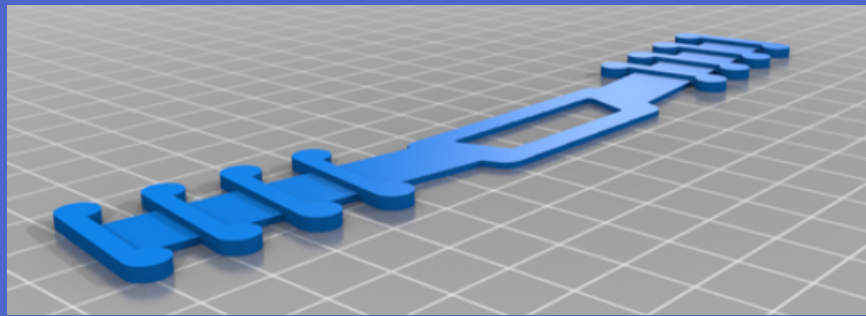
We will continue to work on the plastic shields for the hospital including gluing the stabilizers.
If anyone can help with this, we only have about 9,000 to go.

Sadly, we have received requests for face shields from hospitals, nursing homes, fire/rescues, assisted living facilities, group homes and more from all over our area. We will continue to keep the printers going as long as there are health care providers in our community in need of face shields.

If you know of anyone in our community who needs face shields, please let Dave or Justin know and we will get them on our list.

Thanks to a shout out from Governor Ricketts and some media coverage, we have been contacted by many Nebraska schools who are using your program as a model to help their own communities. We will continue to provide help to any group that asks for our assistance.

The staff at Faith Regional Health has asked us to look into facemask ear guards to help relieve the pain from having an elastic strap around your ear all day. Prototypes are being researched and printed for their approval.



Thank
You!

GETTING YOUR KIDS INVOLVED

It is so unfortunate that your students are not able to use this project as a hands-on learning experience.

However, if any of your students, in any grade level, would like to write a message, draw a picture or compose a poem expressing thanks to our local health care providers, please collect them and send to dave.decarolis@nucor.com. I will print them off and include them in upcoming deliveries.