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## 3D Platform brings new technologies and tools to the additive manufacturing process!


Roscoe, Illinois, USA – May 17, 2019 – 3D Platform™ (3DP), a global leader in manufacturing large-format, industrial-strength 3D printers, has introduced open market developments in extruder technology and materials, and educational tools for additive manufacturing. Companies seeking to drive innovation and competitive advantage with 3D printing technology are invited to engage with 3DP in person at booth #2047 at the RAPID+TCT show in Detroit, MI, May 21 – 23, 2019.

### New Extruder Technology and materials

The **open market** approach employed by 3DP has further enabled new developments in End of Arm Tooling (EOAT) options (e.g. extruders, dispensers, etc.), along with new materials. Not as widely known but certainly advantageous is the ability of 3DP printers to accept new and different types of dispensers and extruders. Two new end of arm tools that represent that flexibility, and were designed within 3DP partnerships, will be on display at the RAPID+TCT show as examples of future possibilities on 3DP machines:

- **Dispensers**—Engineers at 3DP EMEA and Delta 3D Print have been working together to develop a new dispenser which is capable of dispensing/extruding **silicone** and other thermoset materials. This will alllow customers to choose either a single dispenser, two dispensers, or a single dispenser *and* a thermoplastic extruder. This combination of hard plastic and soft silicone will be optimal for making parts with integrated gaskets, or work/part rests that require a hard under-section coupled with a soft, non-marking part, interface layer.
- **Extruders**—The innovative team at Dyze Design has developed an innovative pellet-fed extruder which is perfectly sized for a 1 m x 1 m platform. With flow rates up to 1,000 $mm^3/s$ (4.5 kg/hr), large-format customers can quickly realize their designs. The large-format printers from 3D Platform are expected to be one of the first customer introductions to Dyze Design's 'Pulsar' pellet extruder.
- **Open call for start-ups, entrepreneurs and innovators!** 3D Platform is seeking companies who want to integrate their tool head onto 3DP's large-format machines. These companies can benefit by focusing their resources on their core IP (tool heads), while leaving the difficulties associated with large-format machine design to 3DP. Businesses interested in integrating their tooling heads with 3DP machines can use the contact information provided, or visit 3DP at booth #2047 at the RAPID+TCT show in Detroit, MI, May 21 – 23, 2019.



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**Educational tools of the trade**

Additive manufacturing is a highly skilled trade that requires trained technicians to operate correctly. With this in mind, 3DP has introduced a comprehensive portfolio of competency tools coupled with print process best-practices to help elevate their customer knowledge base. Together, these offer a rich roadmap of support for customers that are looking to develop their key skillsets in additive manufacturing. Educational tools include:

- **Building blocks of Success:** 3DP has designed a series of nine calibration parts to ensure that hardware and software are set to maximize printer performance.

  *Problem:* Traditional benchmark tests combine a large number of features into a single print — which often takes several hours to complete. This can lead to user frustration, as sometimes changing a single variable can have unintended consequences in other areas of a print.

  *Solution:* 3DP has designed their files to verify either a single or limited number of process settings, thereby reducing the chances of unintended consequences. Each building block is designed to build upon the previous one and introduces a few new variables. Building blocks are designed to print in a short period of time, allowing users to quickly lock in a couple of options before moving on to the next one. Prints like Thin-Wall Box, Single-Color Infill, and Breakaway Support take just a few minutes, and cost pennies in material.

  *Access* to all nine of these building blocks are available at: https://3dplatform.com/print-process-training/. They are available as generic STL files and can be used on any FFF style 3D printer. They can be scaled down to work with small, micro-sized printers or scaled up to work with extra large-sized printers. These files will also work with extruder throughputs ranging from grams up to kilograms per hour.

- **Case Studies:** These 2-page downloads are an easy reference for remedying common issues experienced during prints such as: Oozing Filament & Poor Print Quality, Blobs and Zits; De-Laminating Layers, Stringing; Support Material; Warping; and more. Those wishing to learn more can download any of these case stories and more at: https://3dplatform.com/case-studies/

3D Platform demonstrates its commitment to the **open market** approach by providing these training materials for free, and therefore benefiting the entire additive manufacturing community.

**Meet 3DP!**

3D Platform is always looking to expand their open market solutions and bring a higher level of expertise to the world of additive manufacturing. Industry leaders interested in the latest advancements in additive manufacturing are invited to stop by booth #2047 at the RAPID+TCT show in Detroit, MI, May 21 – 23, 2019 to meet, learn, and find out more about 3D Platform.

**About 3D Platform™**

3D Platform is the trusted global leader in industrial-strength, large-format 3D printers. Based in Roscoe, Illinois, USA, the entire 3D Platform team is focused on driving advancements in technology to innovate, design, and build next-generation equipment for additive manufacturing.



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Our global distribution network supported by Certified Service Providers has helped us deploy more large-format, open-market 3D printers than anyone else. To learn more about 3D Platform, visit www.3dplatform.com.

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