

# How Sand 3D Printing is Reviving Foundries - Introduction to Robotic Binder Jetting

written by Lauri Moon | May 10, 2022

Binder jet 3D printing is revolutionizing sand casting - capable of producing complex cores that cannot be produced in any other way - and organic rigging designs that help to make successful precision pours and decrease scrap rates significantly. Foundries embracing the digital workflow are expanding business by offering rapid prototyping with easy design iterations, fast turnarounds without lead times, and more efficient production in the absence of hard-to-find workers.

Technological advances in robotics are making 3D printing more accessible than ever and the all-new S-Max Flex binder jetting system was developed to help smaller foundry businesses survive and thrive.

In this webinar we'll explore the economics of integrating a digital workflow with 3D printing to help get products to market faster, made locally, and with fewer labor requirements. Participants will learn how sand 3D printing fits in their foundry and they'll be introduced to the S-Max Flex robotic 3D printing process that delivers quality parts from an affordable, easy-to-use system.

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**Speakers**

**Joe Phillips**

## **VP of Engineering**

### **Desktop Metal**

Joe Phillips is the VP of Engineering at Desktop Metal and the chief engineer of the S-Max Flex. He previously led development of the Desktop Metal Production System P-1 metal binder jet printer. Joe has B.S. in Mechanical Engineering from the Rochester Institute of Technology.

## **Kirk Keithly**

### **Technical Application Director**

#### **ExOne, a Desktop Metal Company**

Kirk Keithly is the Technical Application Director for sand machines and parts at ExOne. Working closely with foundries and pattern shops, for over seven years he has been involved in applications, process development, and castings. Keithly has a B.S. in Chemical Engineering from California State Polytechnic University, in Pomona California.

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