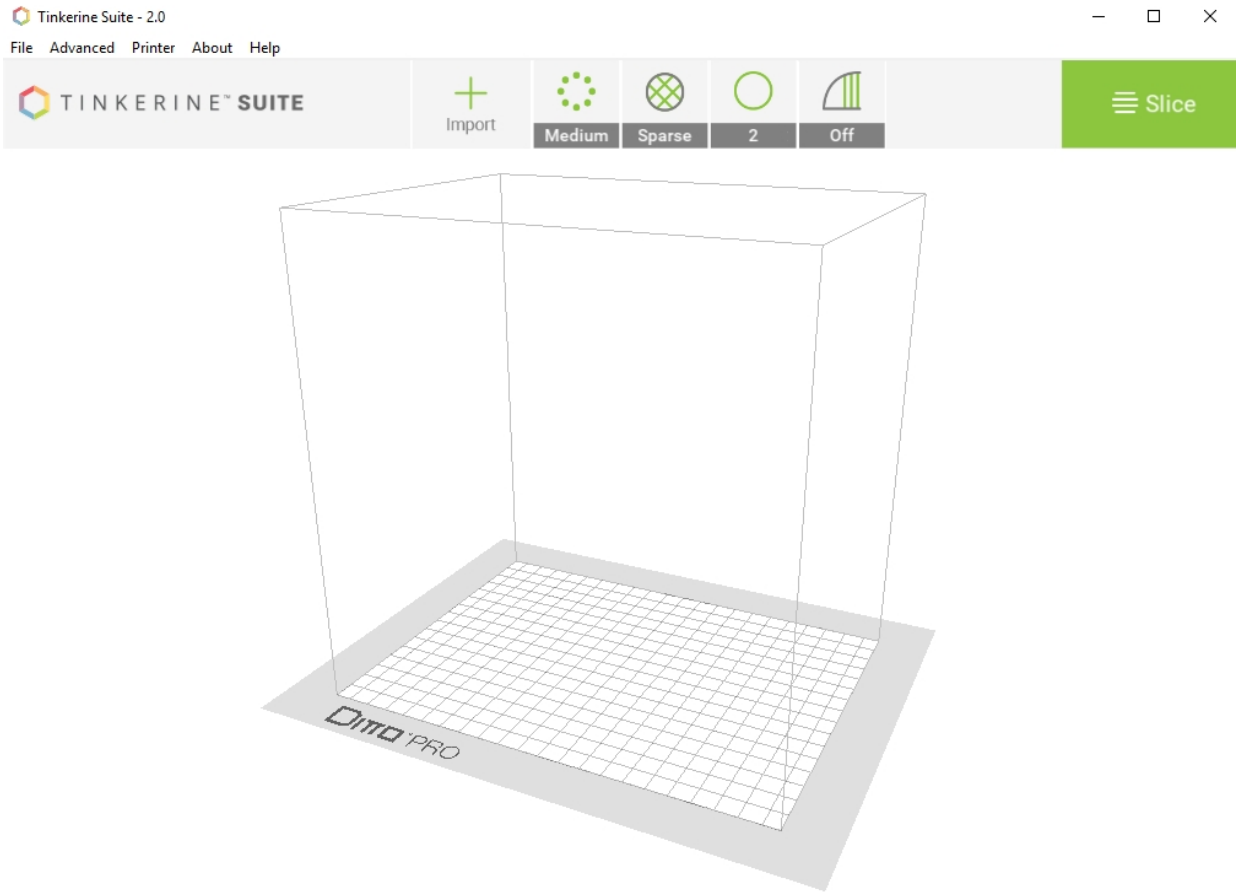
Getting More Done In Less Time

We understand that 3D printing can be challenging to manage inside a classroom. Managing the print queue and ensuring you have enough time to get through all the students projects is important. Because of this, we have come up with a few software tips to help you print quicker in the classroom.

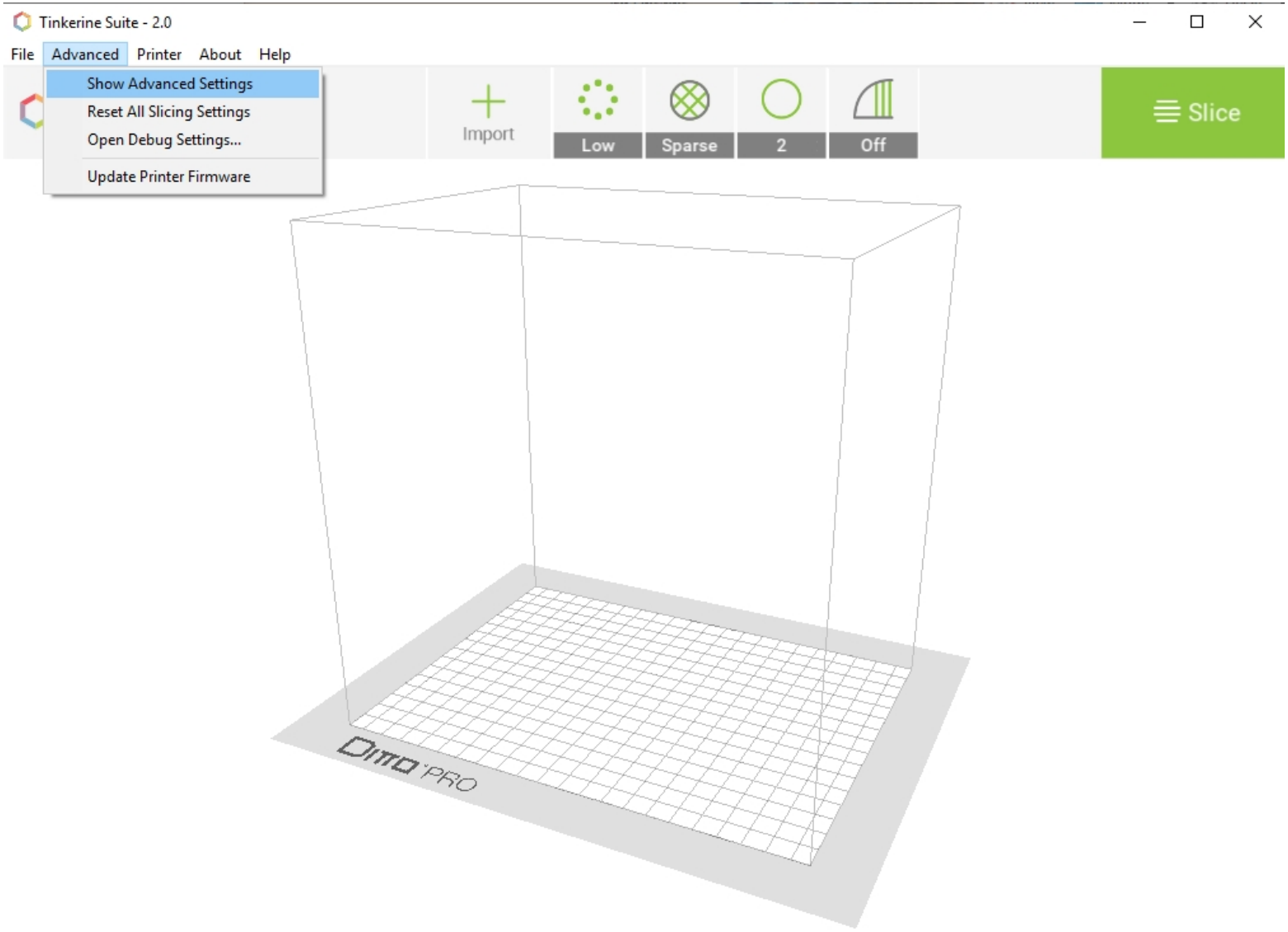


Critical

In order to do this, we have to ensure the printer components are in tiptop shape. **Otherwise, these adjustments may cause prints to fail more often due to the stresses exerted on the components.**

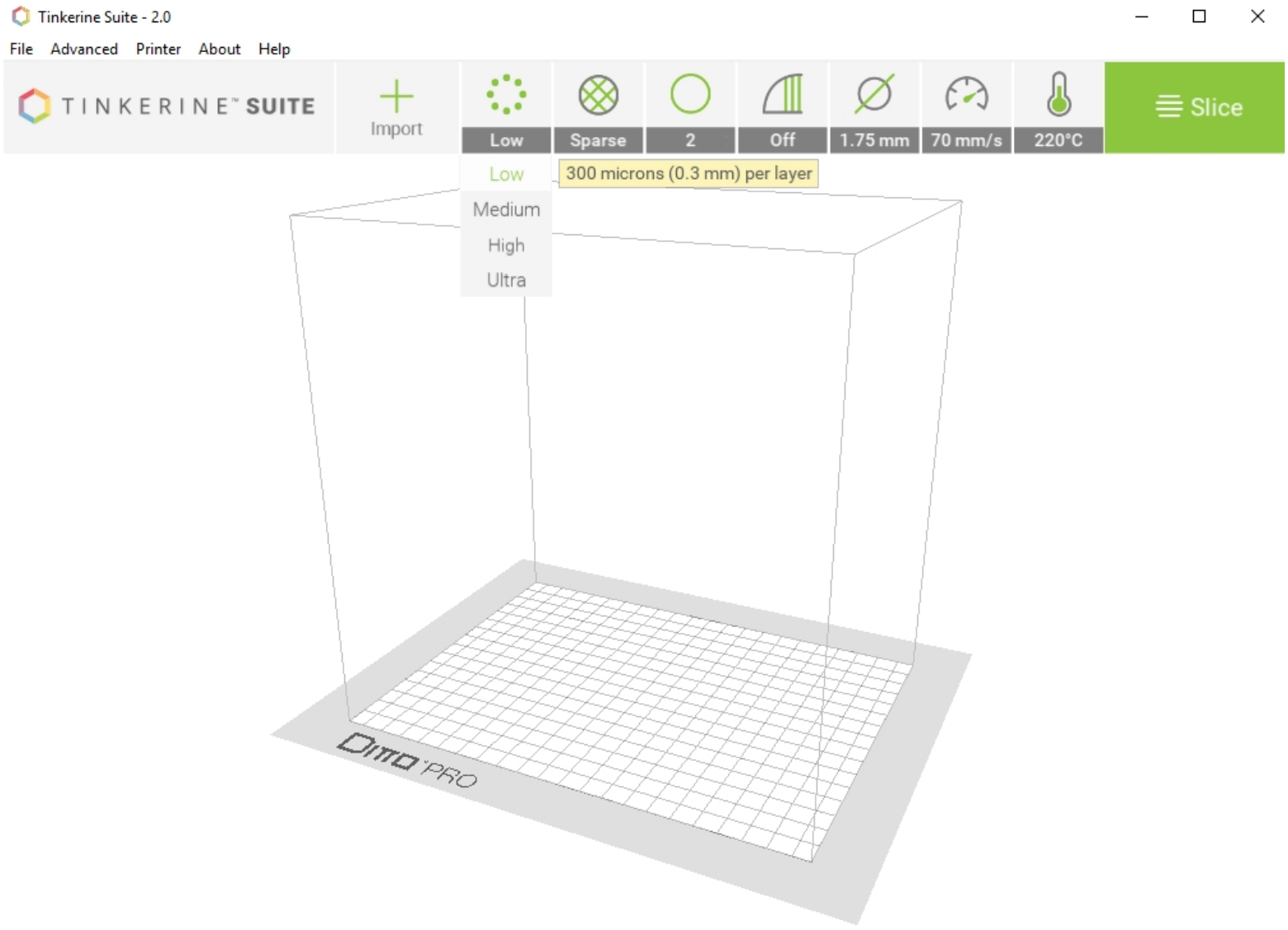
Few things to check:
- Outer gantry rods are clean and oiled, not tacky to the touch.
- Print head is not clogged.
- Print surface is well leveled.

Step One Enable Advanced Settings



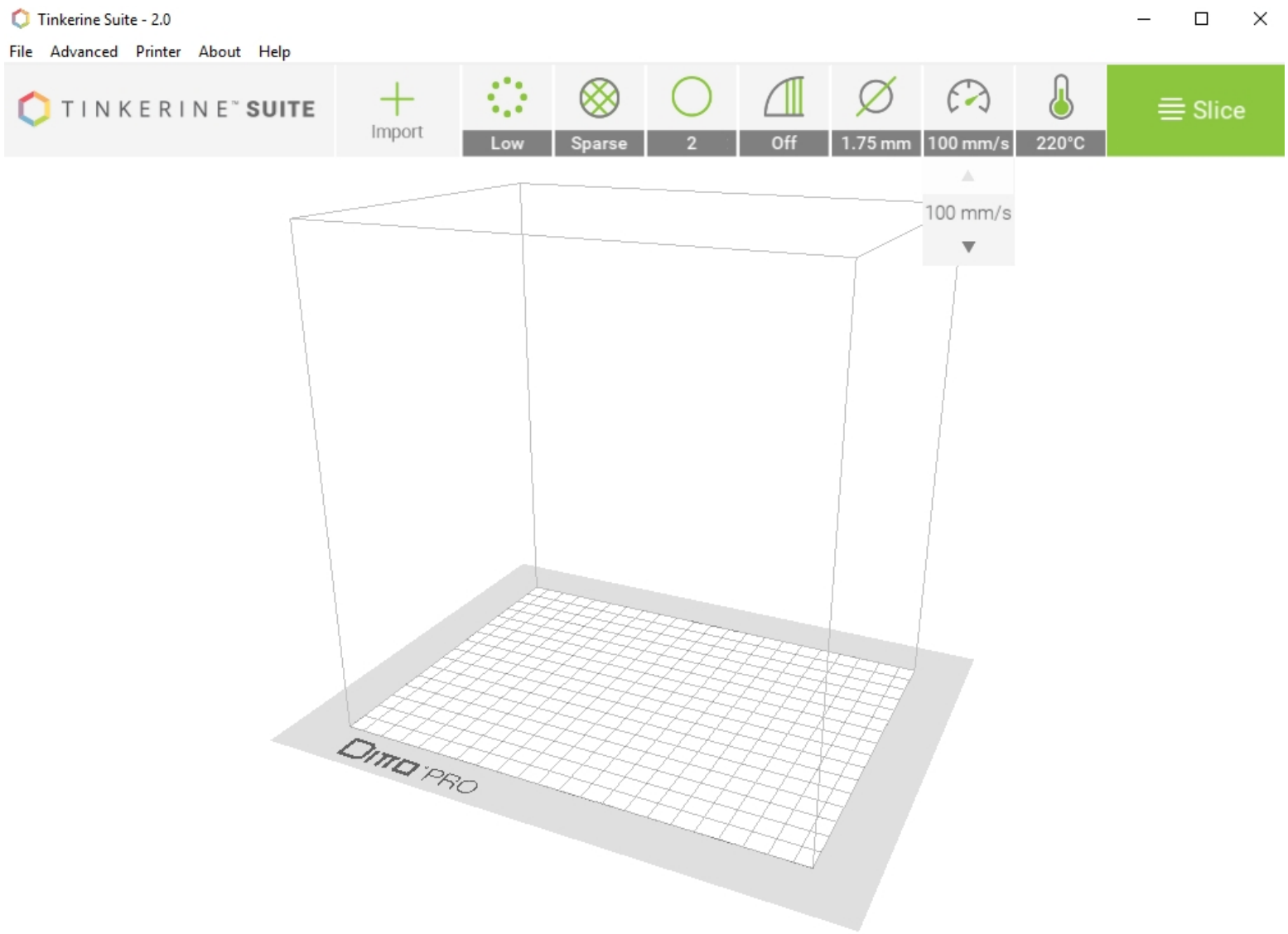
Enabling Advanced Settings allow us to tweak some parameters not available in normal view.

Step Two Select Low Resolution



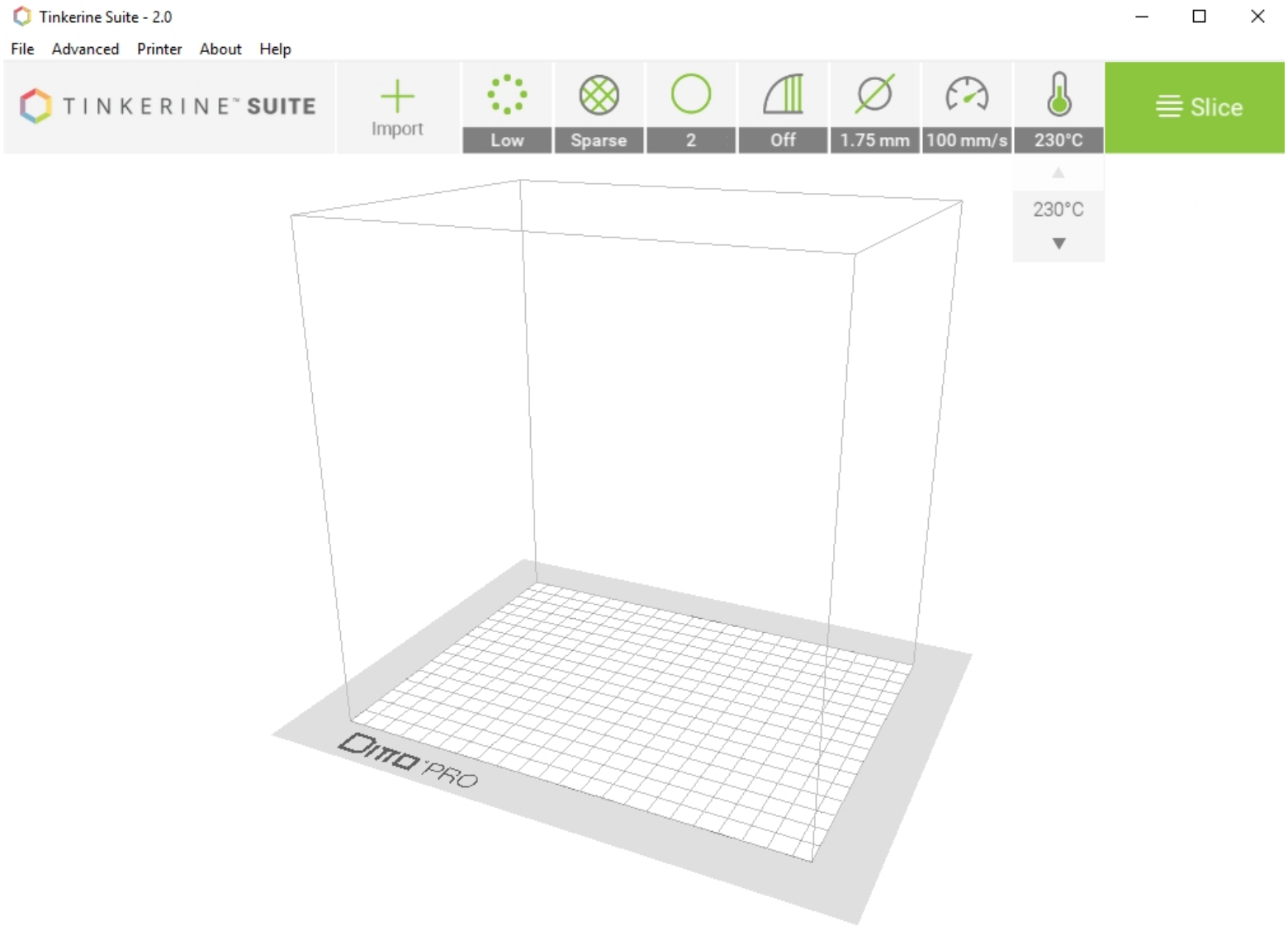
Low resolution (0.3mm per layer) is our Draft mode for faster prints. It deposits more material per layer resulting in less time to print.

Step Three Adjust Speed to 100mm/s



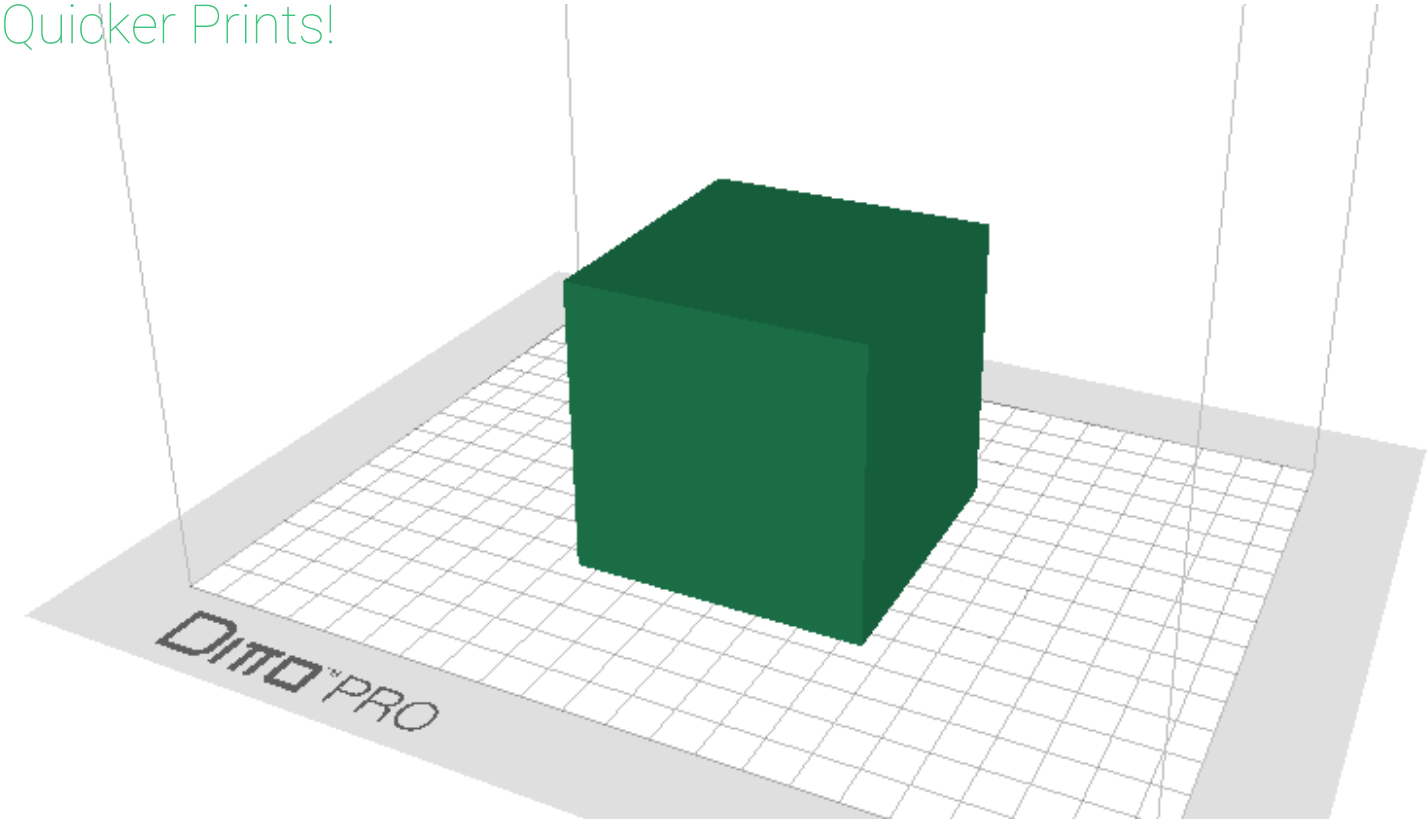
Increasing the speed allows the printers to move faster from point to point. There is a very slight tradeoff for surface quality of the object, but we don't think you'll notice much.

Step Four Adjust Temperature to 230°C



Since we are moving faster and depositing more material from Draft mode, we need to ensure that there is enough molten plastic in the print head. To solve that, we would need to increase the temperature a little to melt the plastic faster in the print head.

Result Quicker Prints!



70mm cube: Default Settings

70mm cube: Adjusted Settings