

3D Printing Slicer 사용법

Slicer란?

3D 프린터가 어떤 경로로 움직이며 재료를 사용해야 하는지에 대한 정보를 3D 모델 소스에 포함시켜주는 프로그램.

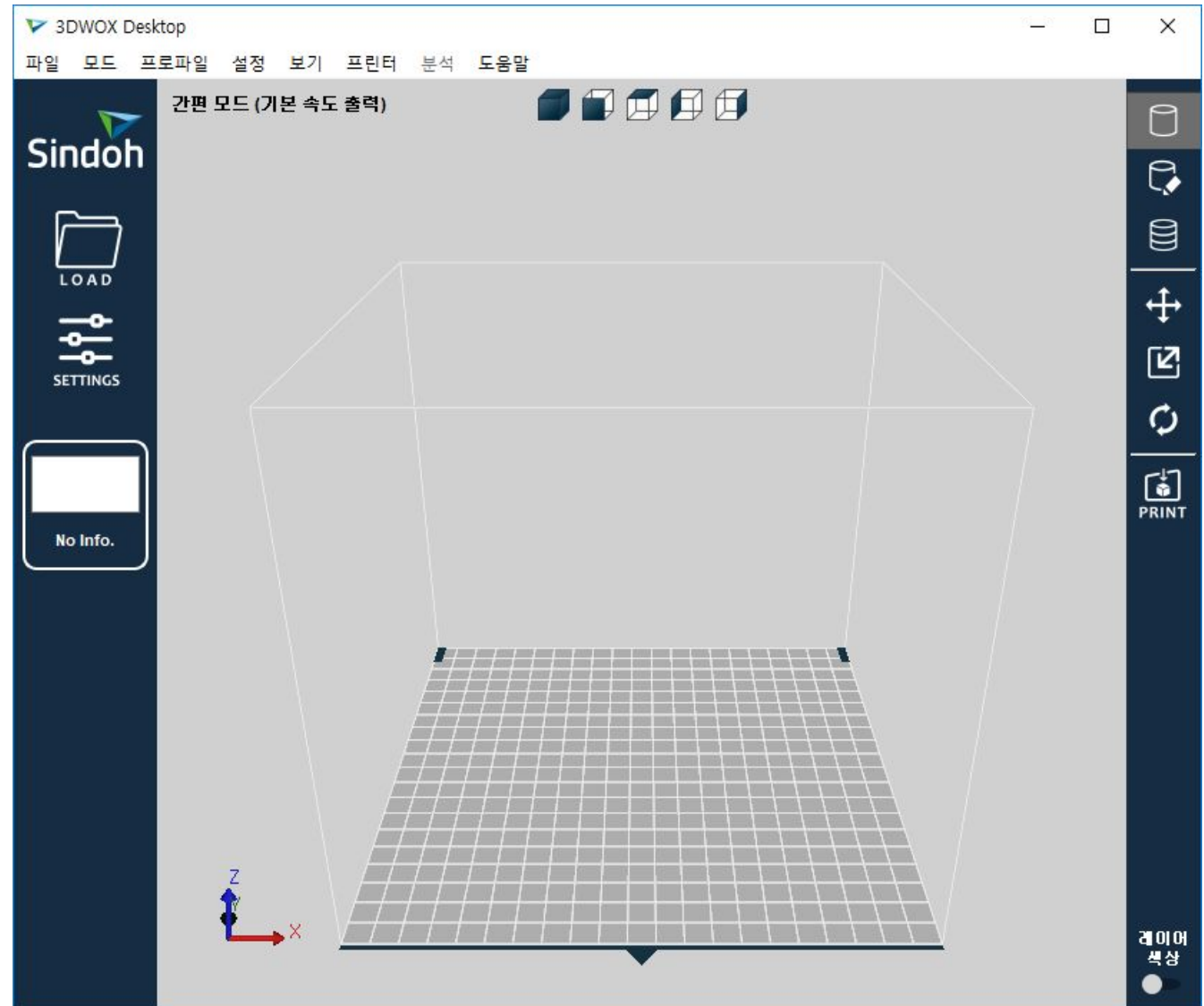
FABLAB에 구비된 3D 프린터의 종류는 세가지이며 각각 다른 slicer로 작업 필요

- Sindoh(신도리코) → 3DWOX Desktop
- Cubicon → Cubicreator
- FlashForge → FlashPrint

3DWOX Desktop

3DWOX

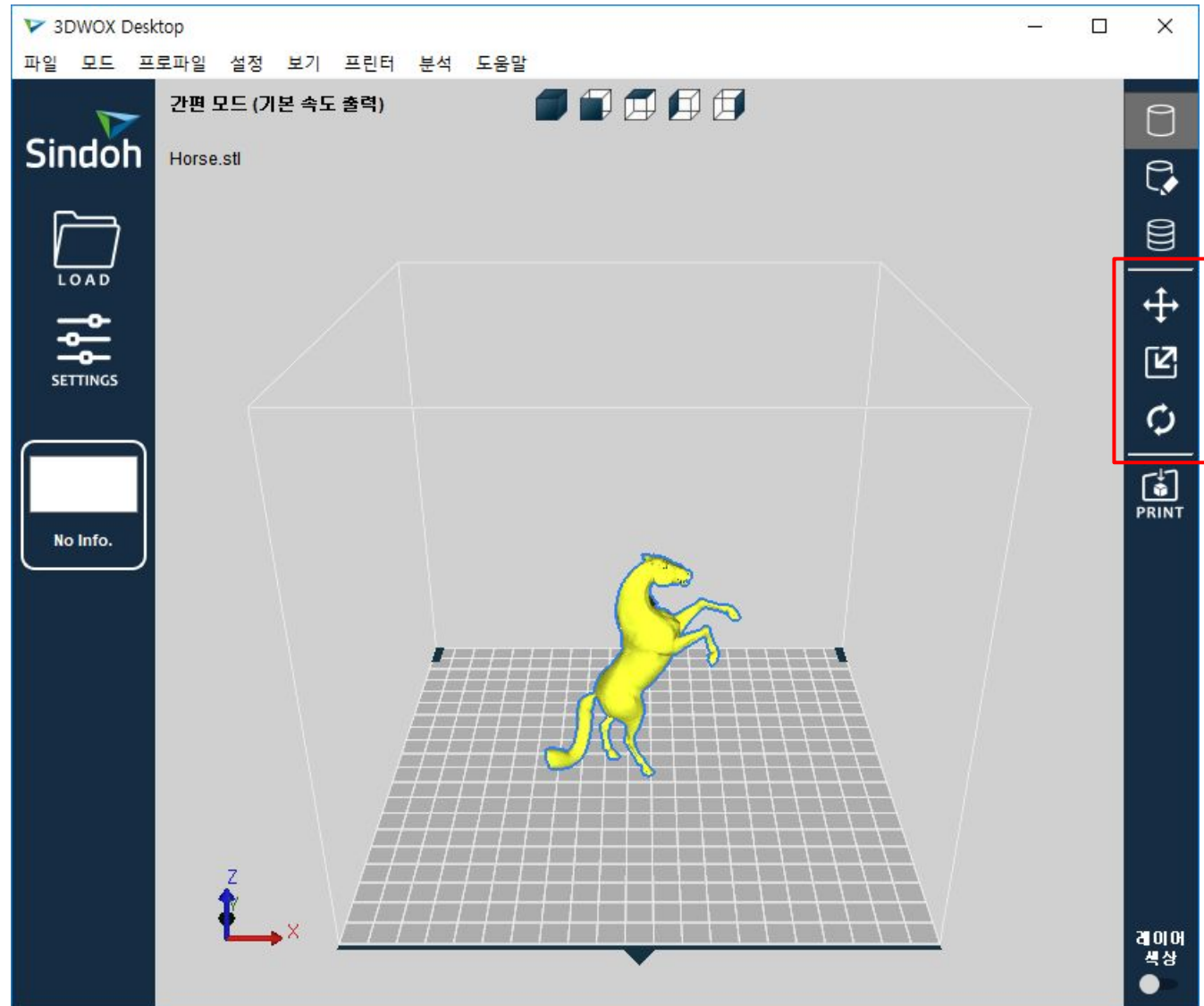
실행



3DWOX

파일 열기 →

이동/스케일/회전



3DWOX

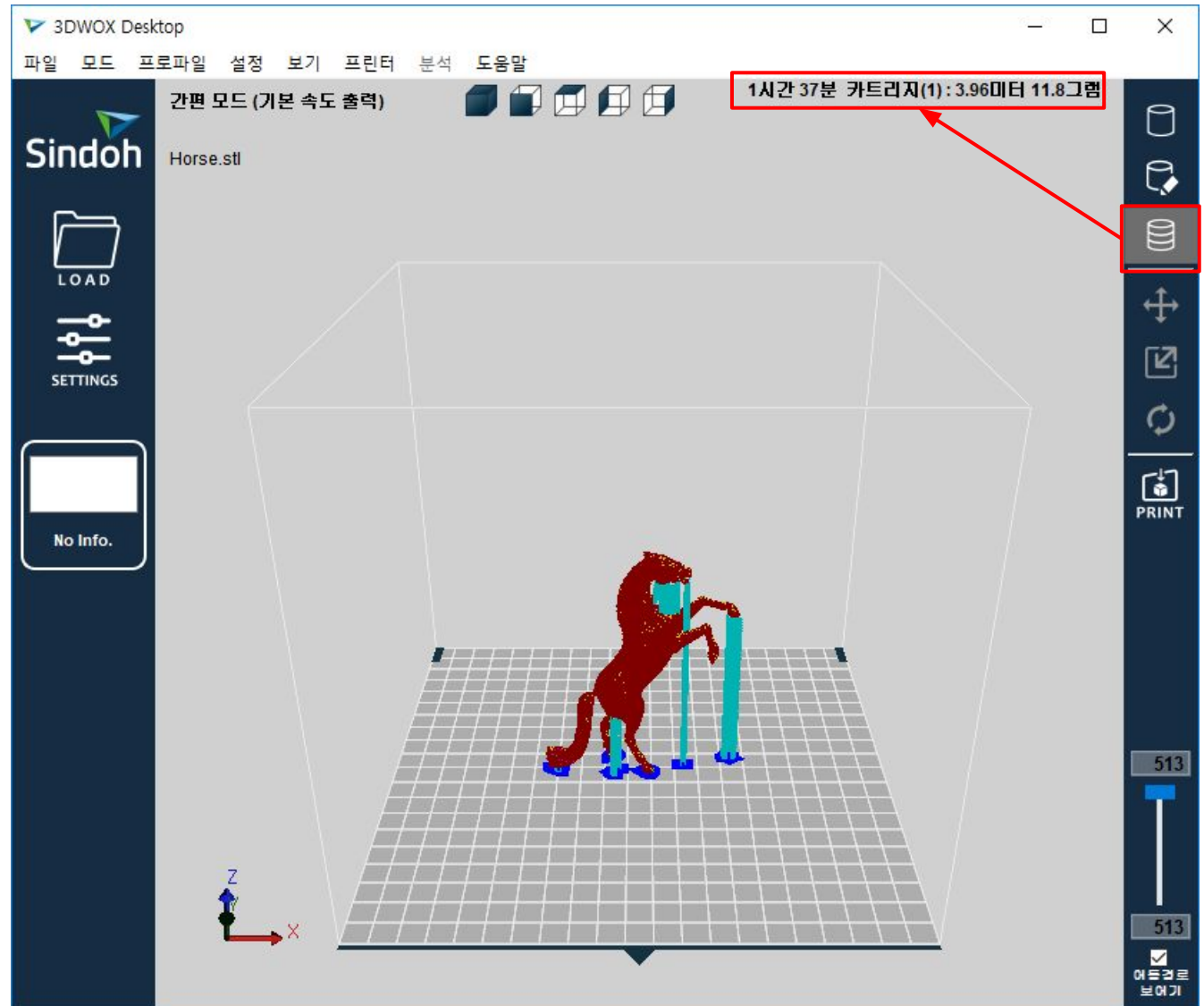
설정:

- 기본속도
- 서포트 생성위치
- 서포트 구조
- 재질 → PLA



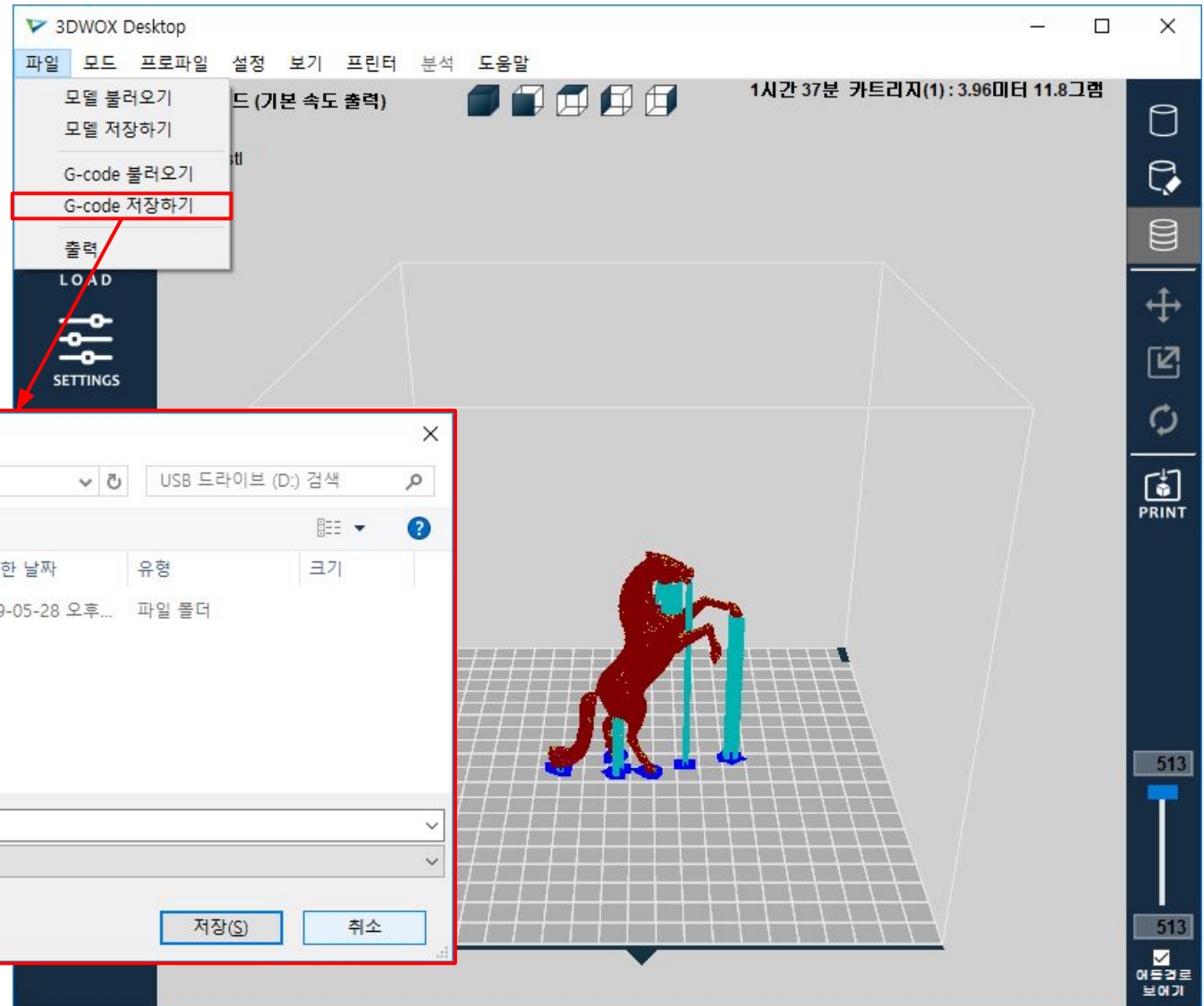
3DWOX

Slicing 실행 →
예상 시간 확인 가능



3DWOX

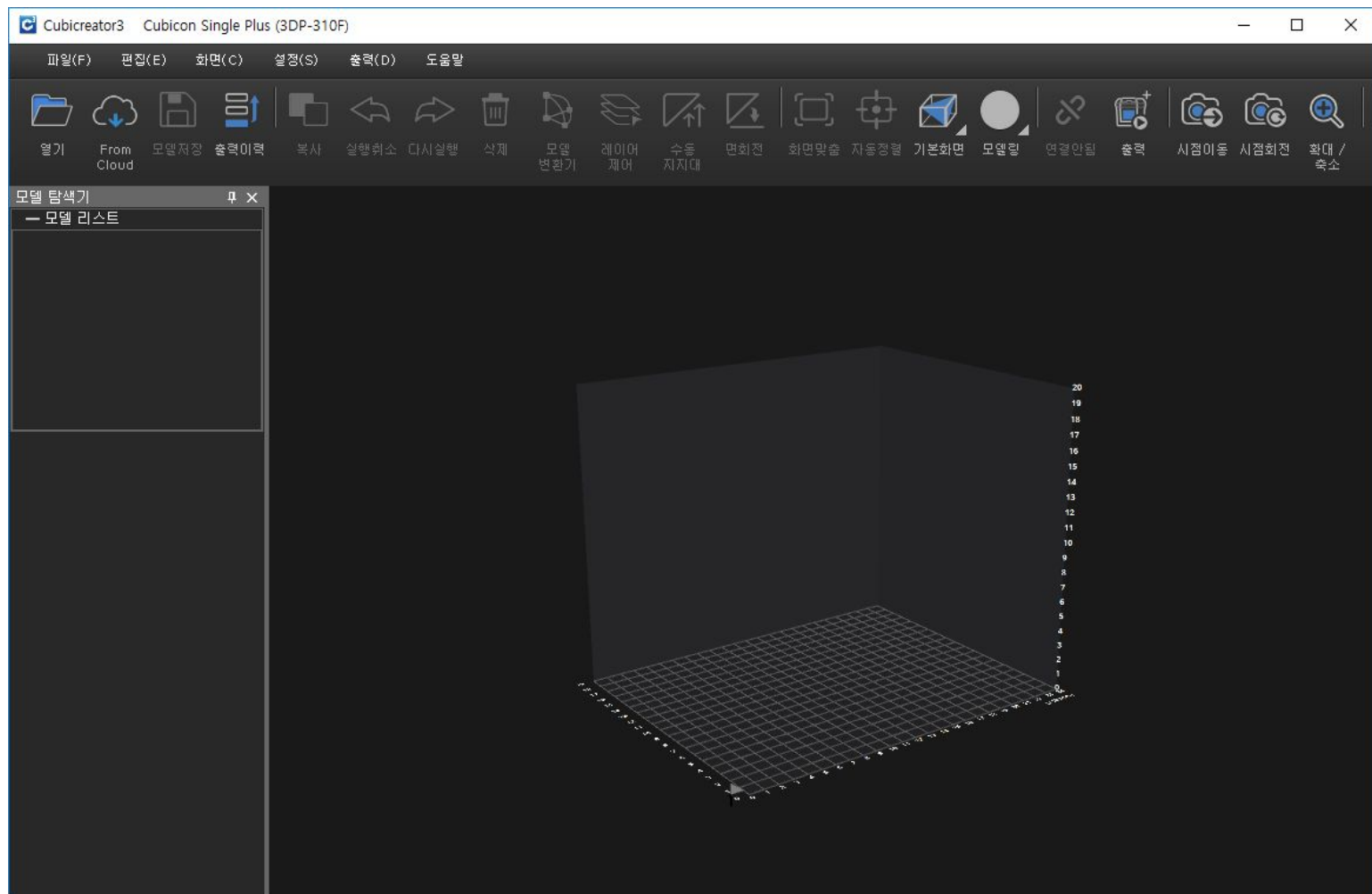
G-code 저장



Cubicreator

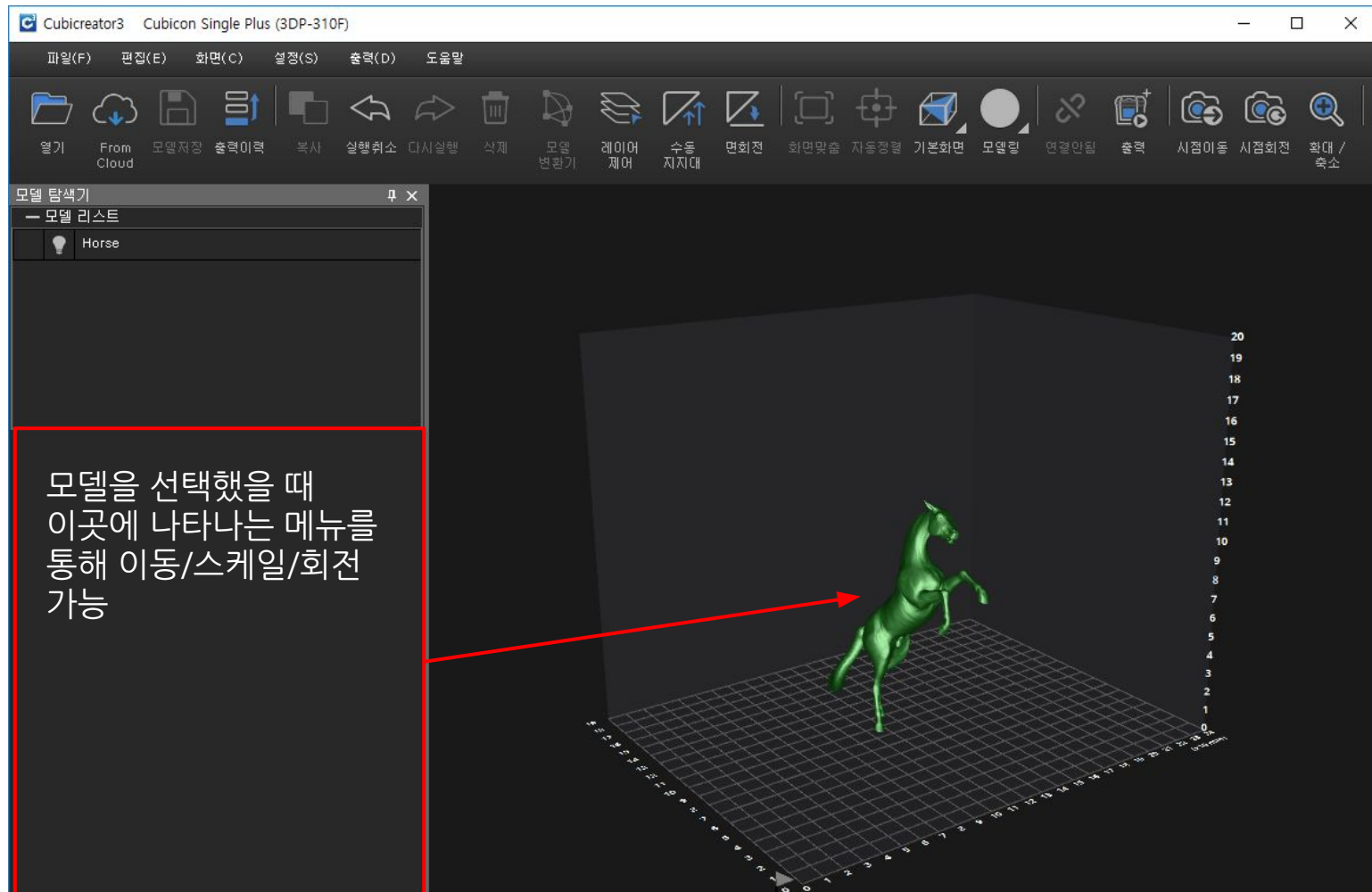
Cubicreator

실행



Cubicreator

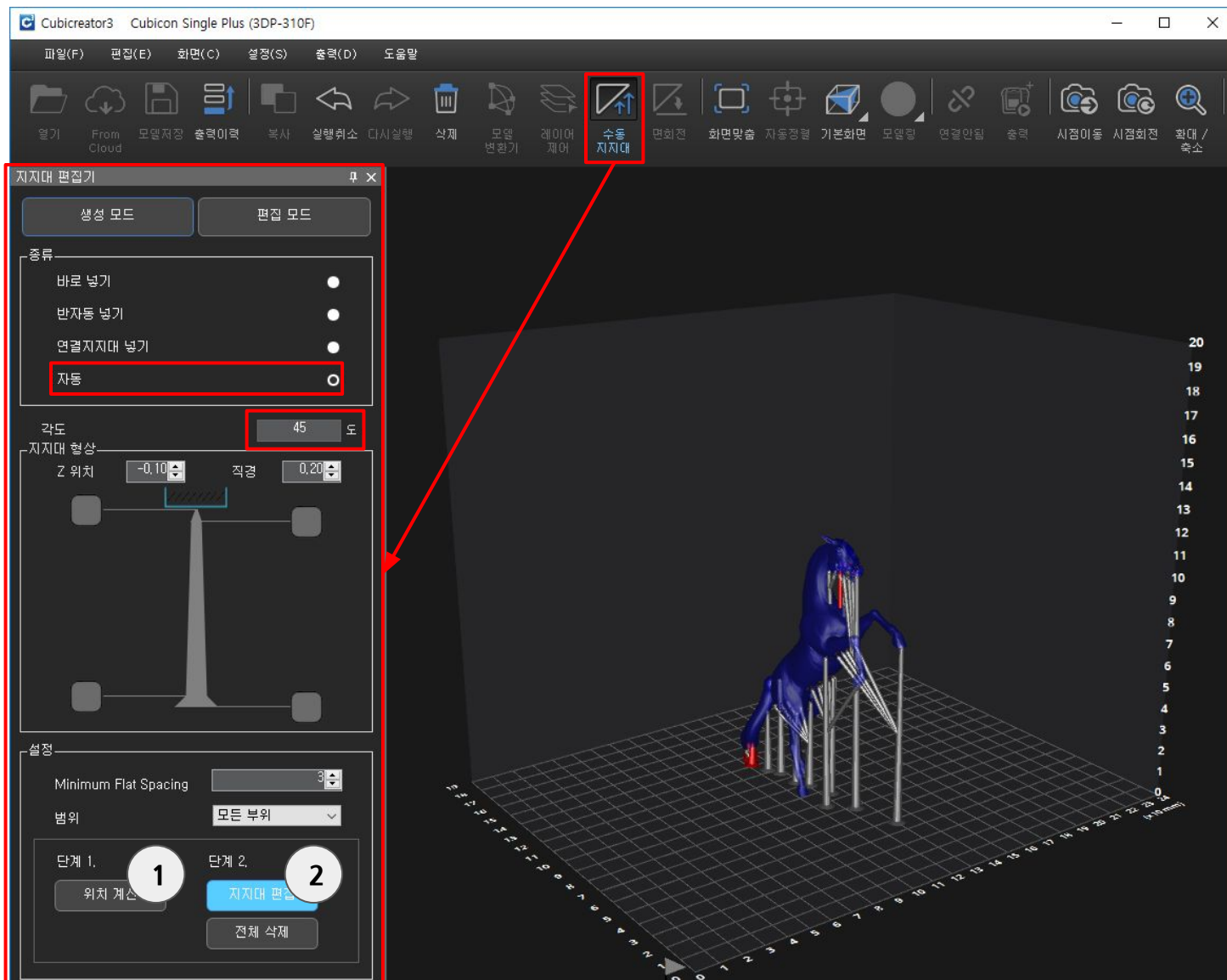
파일 열기 → 이동/스케일/회전



Cubicreator

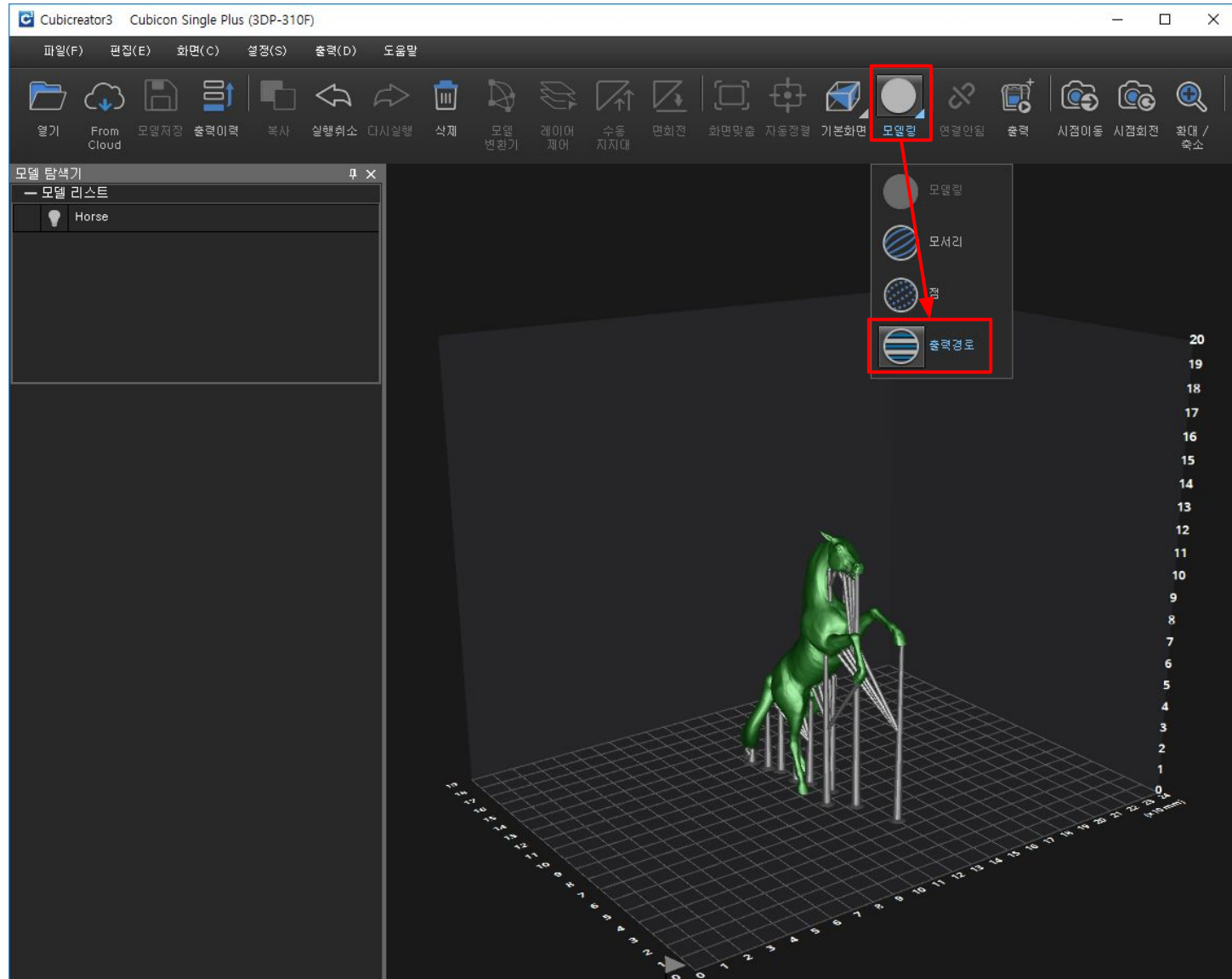
수동 지지대

각도 45도 설정



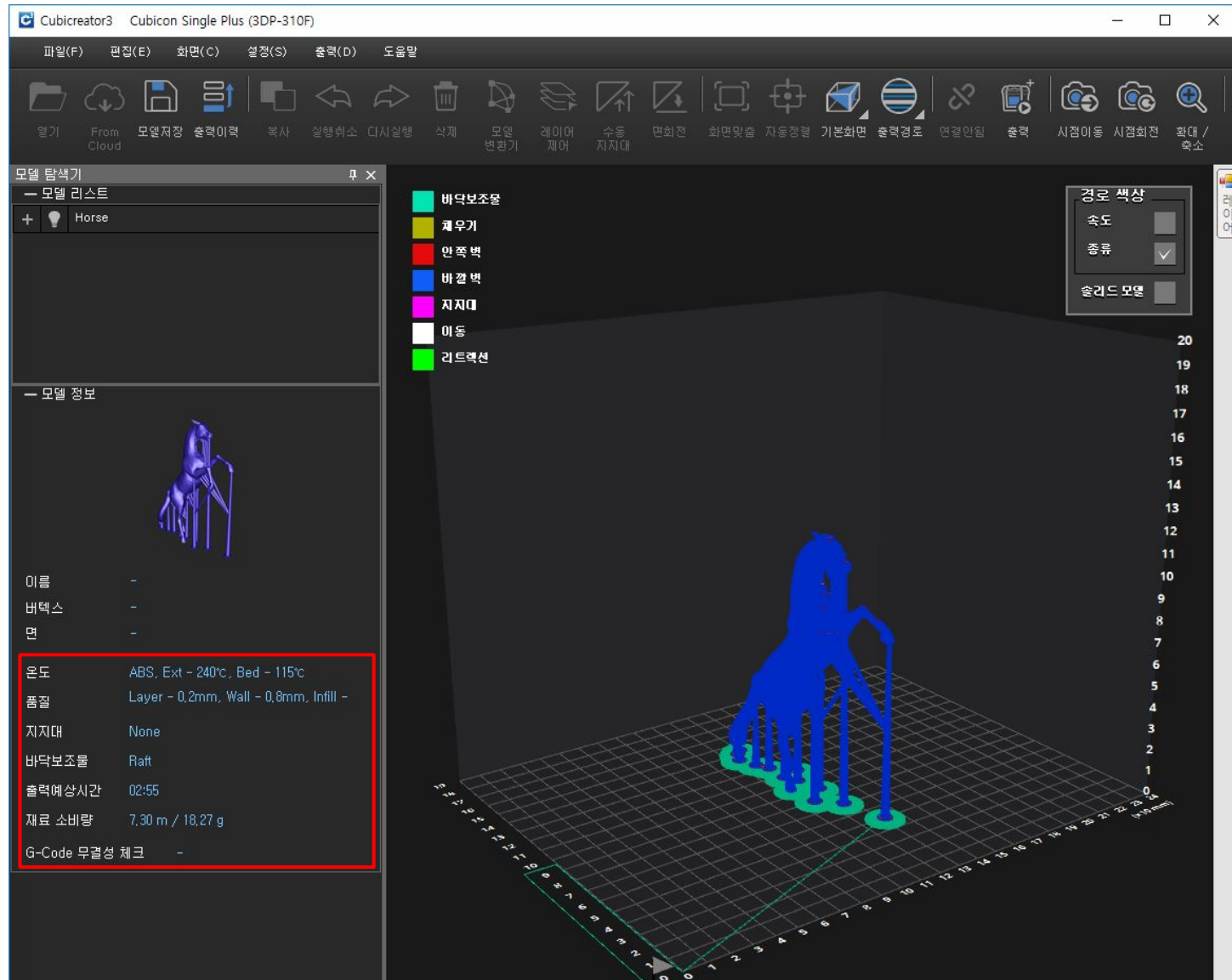
Cubicreator

출력경로 보기



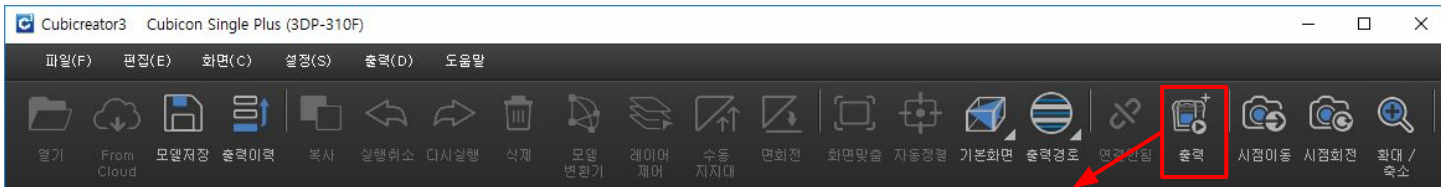
Cubicreator

출력 시간 확인



Cubicreator

출력 옵션



The screenshot shows the Cubicreator3 software interface. The title bar reads "Cubicreator3 Cubicon Single Plus (3DP-310F)". The menu bar includes "파일(F)", "편집(E)", "화면(C)", "설정(S)", "출력(D)", and "도움말". The toolbar contains various icons for file operations, editing, and printing. A red box highlights the "출력" (Print) icon in the toolbar, with a red arrow pointing to it.

The "출력 옵션" (Print Options) dialog box is open, showing the "기본 설정" (Basic Settings) tab. The "출력 옵션" title is also highlighted with a red box. The dialog box is divided into several sections:

- 빠른 설정** (Quick Settings):
 - ☐ 고속 (저품질) (High Speed (Low Quality))
 - ☒ 보통 (Normal)
 - ☐ 저속 (고품질) (Low Speed (High Quality))
 - ☐ 사용자 설정 (User Settings)
- 필라멘트** (Filament):
 - 재료 (Material): (highlighted with a red box)
- 출력속도 (10~200)** (Print Speed):
 - ☐ 고속 (저품질) (High Speed (Low Quality))
 - ☒ 보통 (Normal) (highlighted with a red box)
 - ☐ 저속 (고품질) (Low Speed (High Quality))
- 채우기** (Infill):
 - ☒ 솔리드 (Solid)
 - ☐ 보통 (Normal)
 - ☒ 적게 (Less) (highlighted with a red box)
 - ☐ 없음 (None)
 - ☐ 사용자 설정 (User Settings)
- 보조물** (Support):
 - ☐ 지지대 (Support)
 - 적용각도 (Apply Angle):
 - ☒ 바닥보조물 (Bottom Support)
 - 바닥보조물 (Bottom Support):
- 조형냉각** (Cooling):
 - 팬 속도(50) (Fan Speed (50))
 - ☐ 저속 (Low Speed)
 - ☐ 보통 (Normal)
 - ☒ 빠름 (Fast)
 - ☐ 사용자 설정 (User Settings)

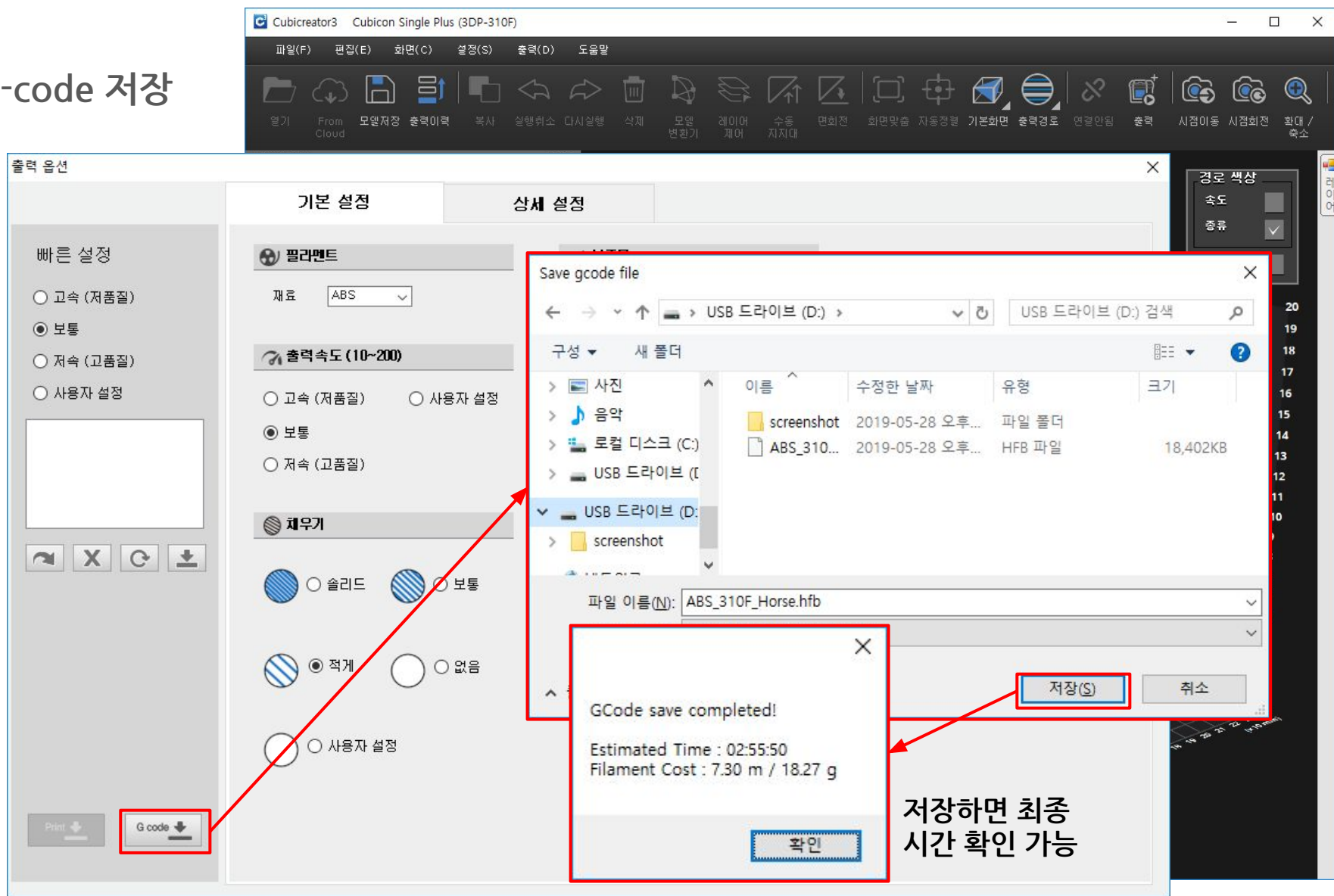
On the right side of the dialog box, there are three arrows pointing to the text:

- 재료: ABS
- 출력속도 보통
- 채우기 적게

The background of the software shows a 3D model of a cube on a grid. The right side of the interface has a "레이어" (Layer) panel with a "경로 색상" (Path Color) section and a "속도" (Speed) section. The "속도" section has a "종류" (Type) dropdown set to "속도" (Speed) and a "슬러드 모델" (Slur Model) checkbox. The "레이어" panel shows a vertical list of layers from 1 to 20.

Cubicreator

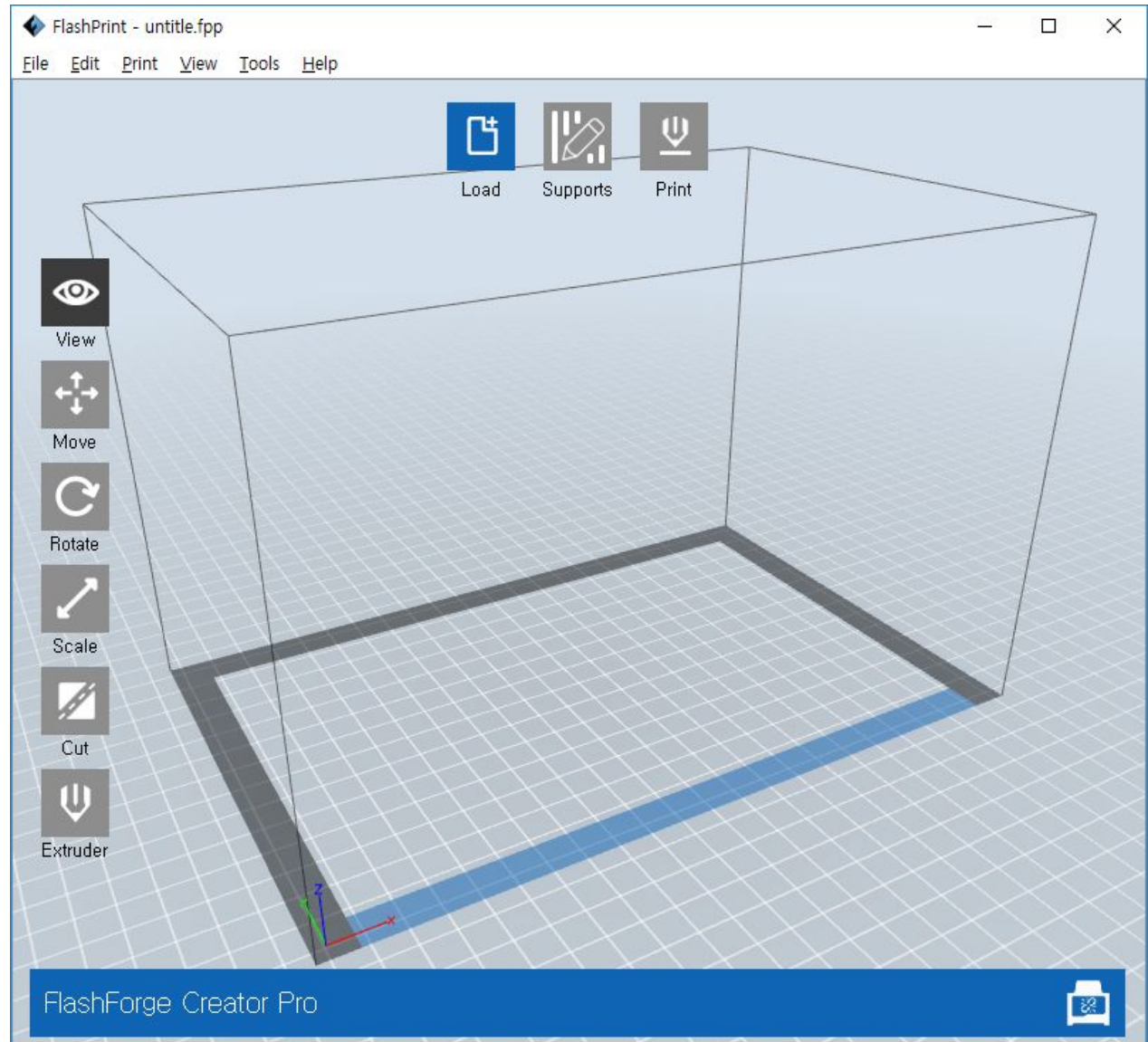
G-code 저장



FlashPrint

FlashPrint

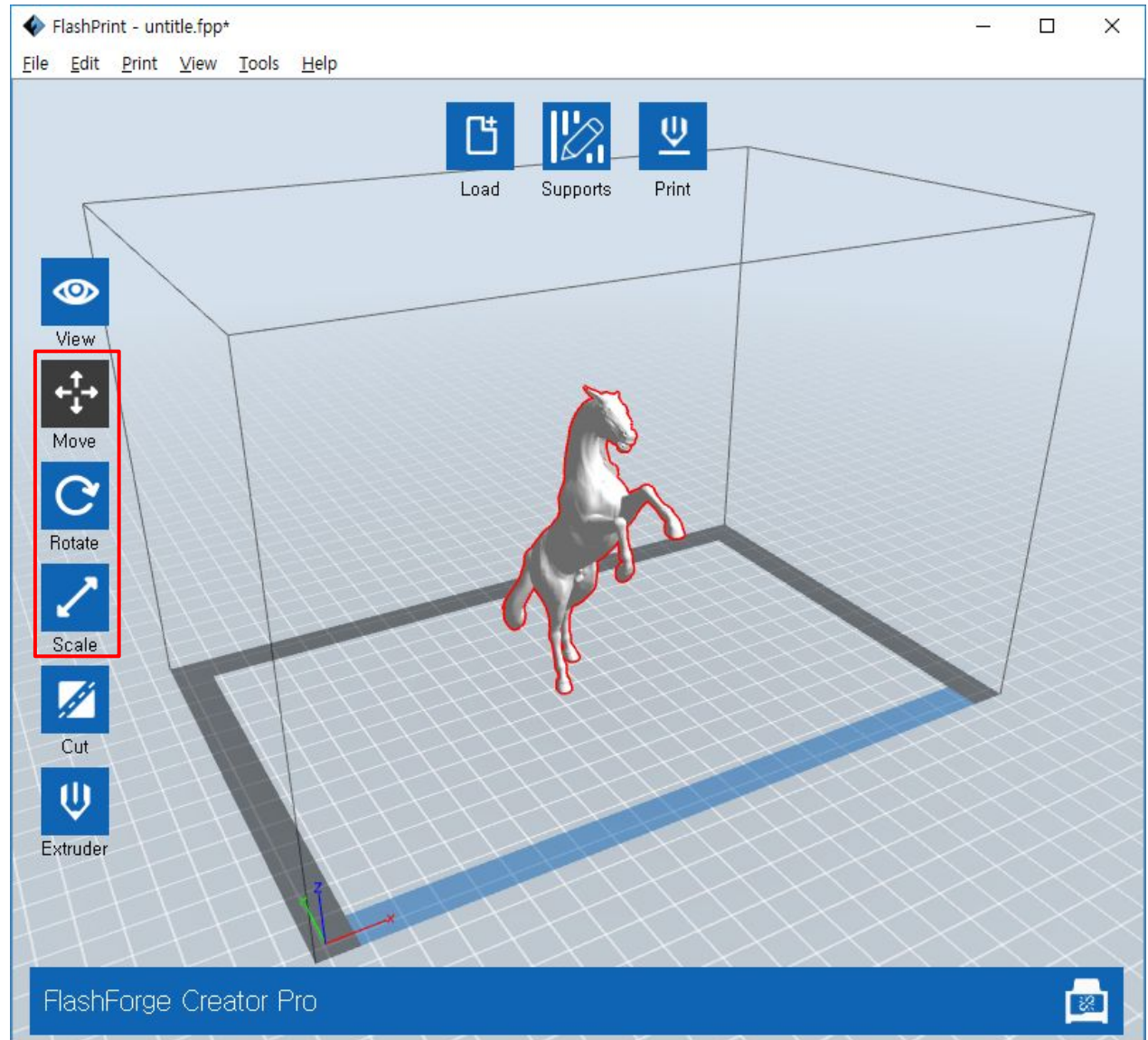
실행



FlashPrint

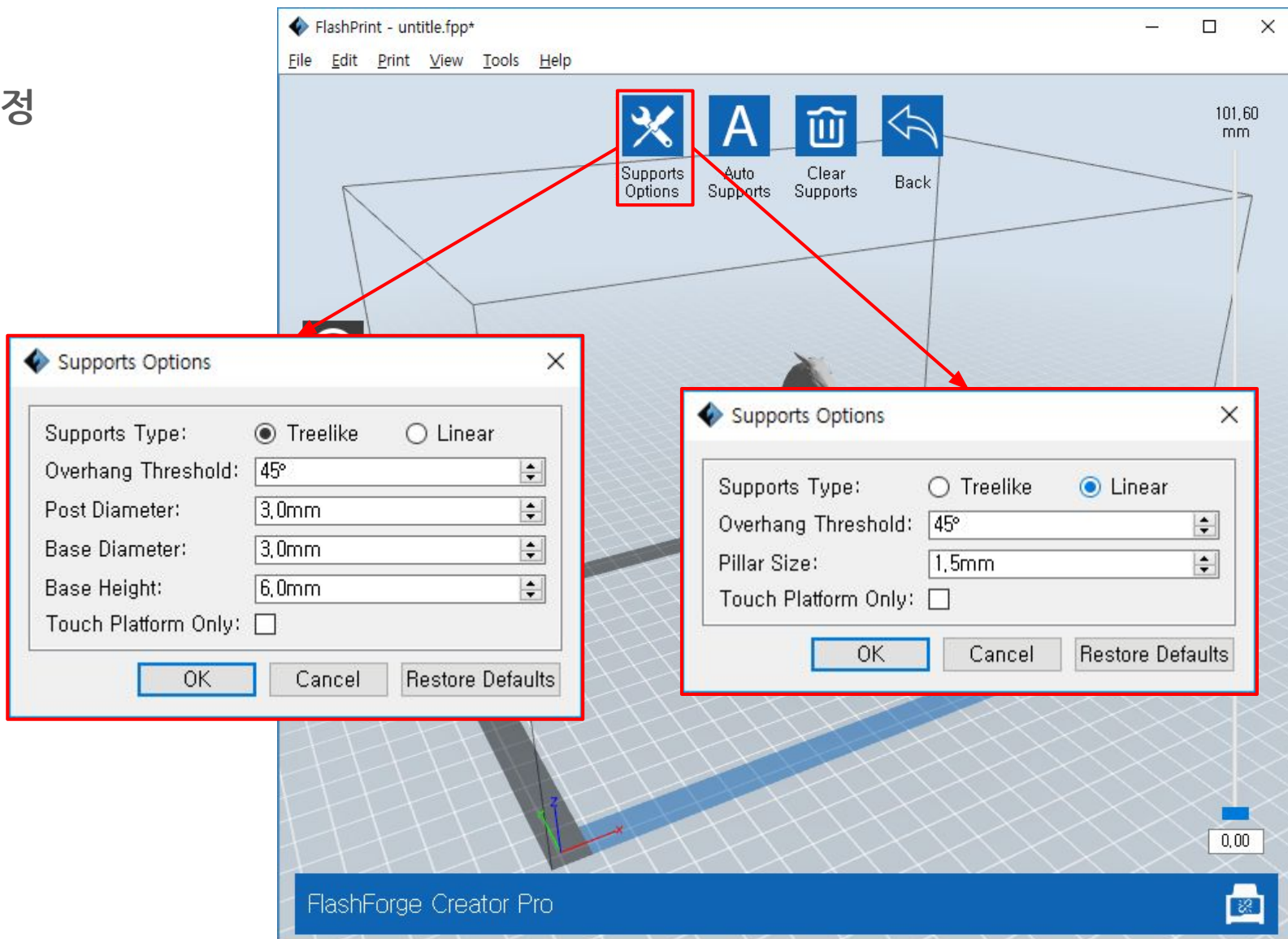
파일 열기 →

이동/스케일/회전



FlashPrint

서포트 설정

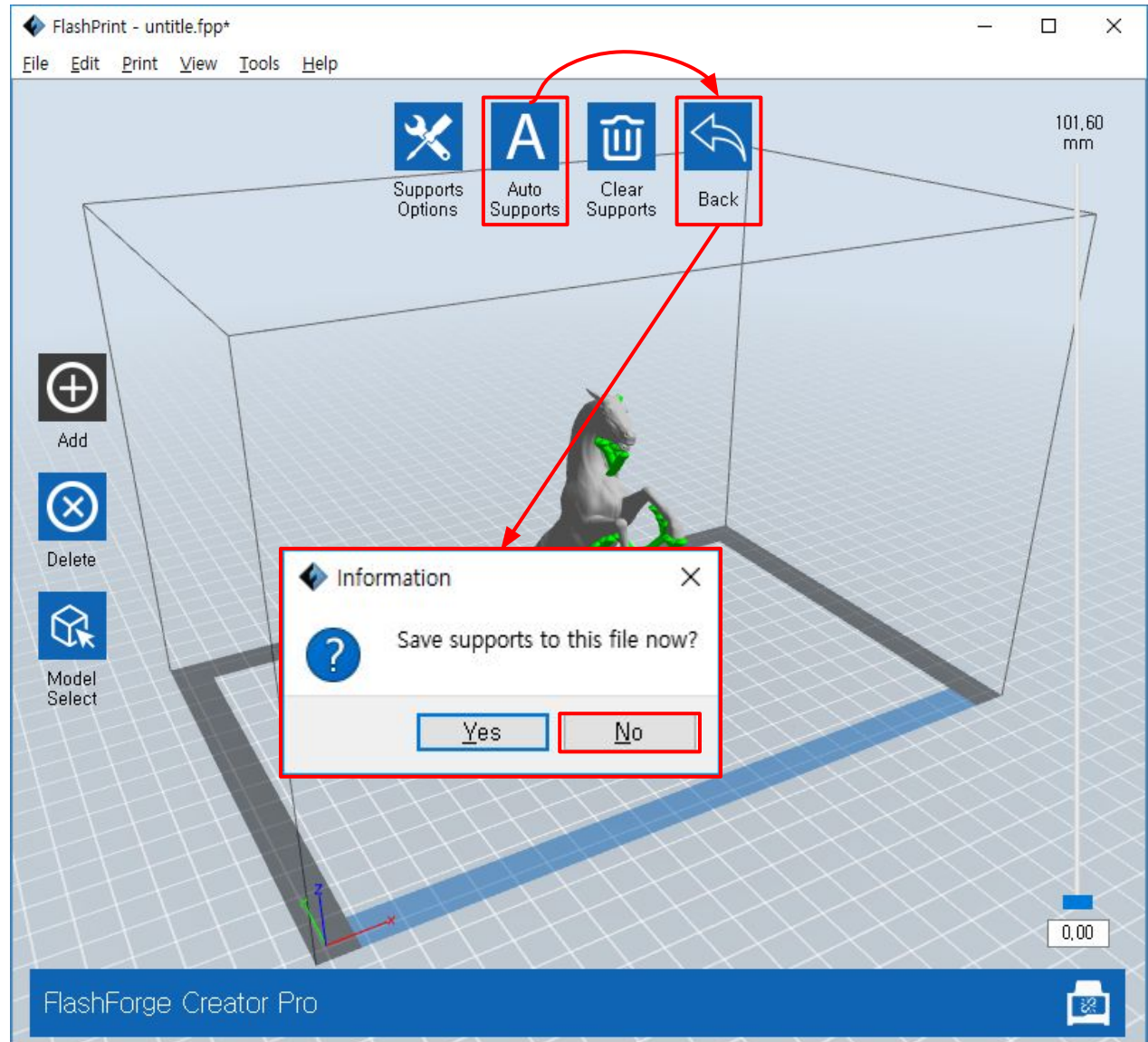


FlashPrint

자동 서포트 생성

→ 돌아가기

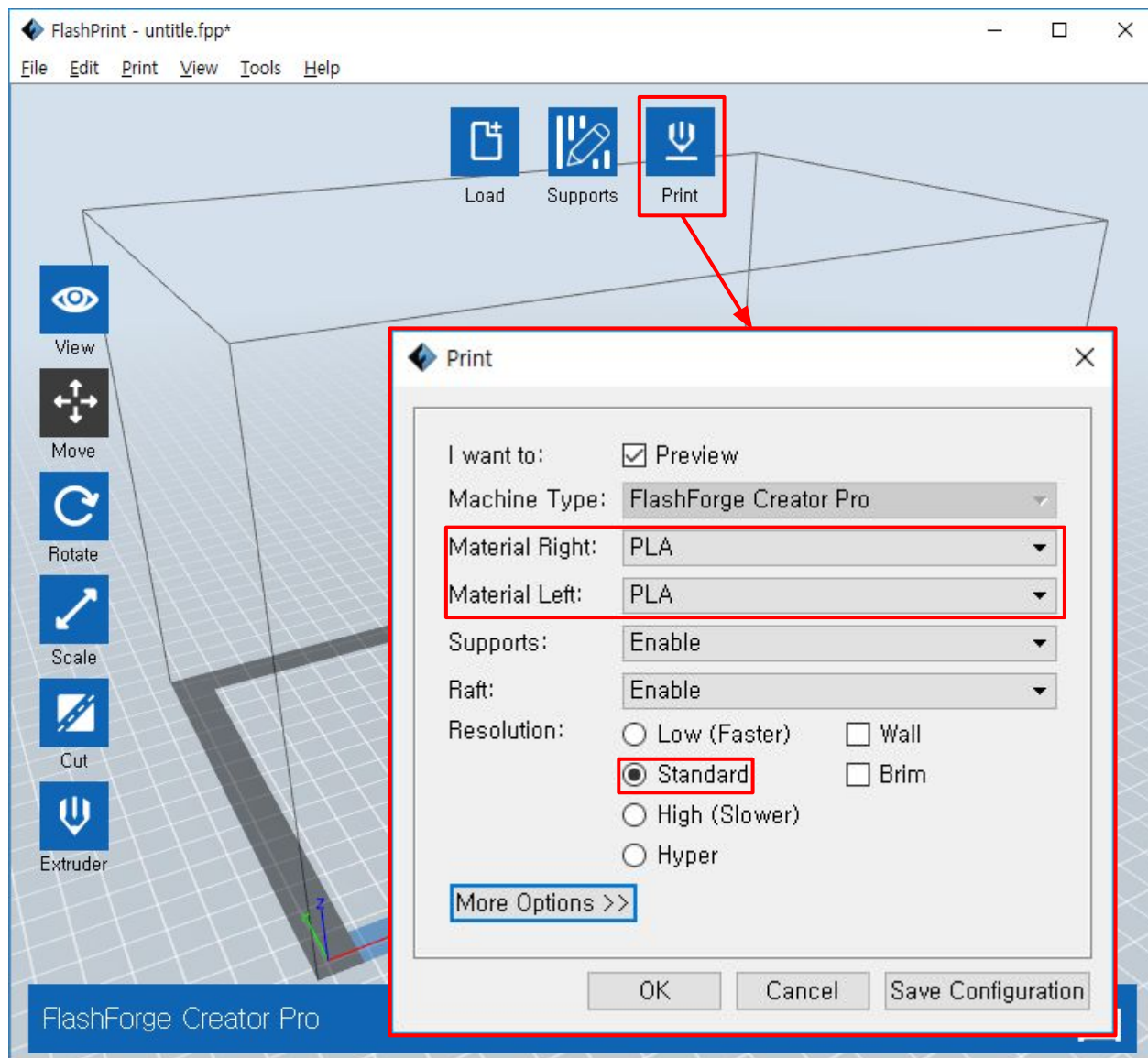
서포트 저장 안함



FlashPrint

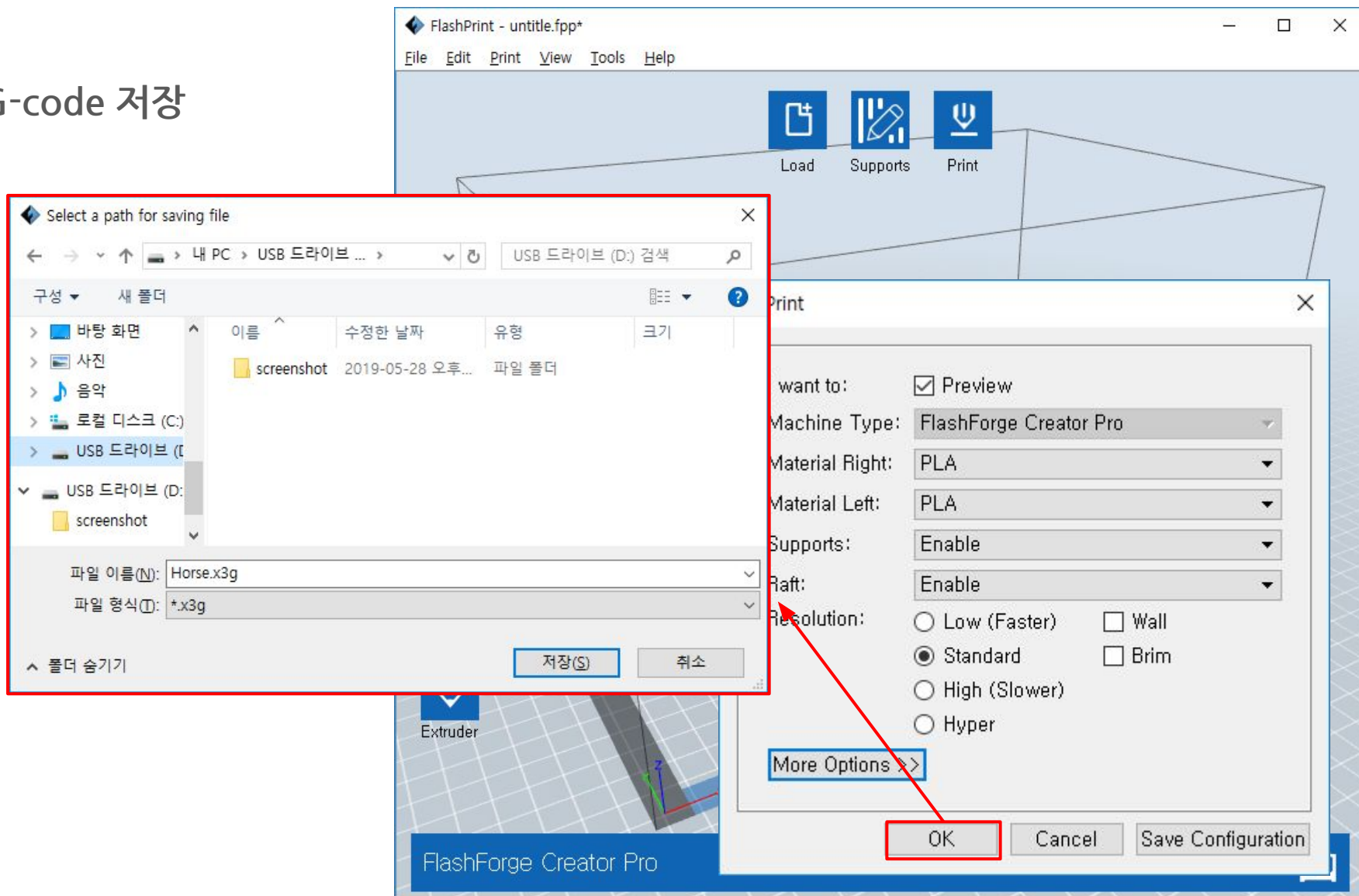
출력 설정 및 저장

→ 재료가 PLA로 되어
있는지 반드시
확인!!



FlashPrint

G-code 저장



FlashPrint

G-code 저장 후에 예상
시간 확인 가능

