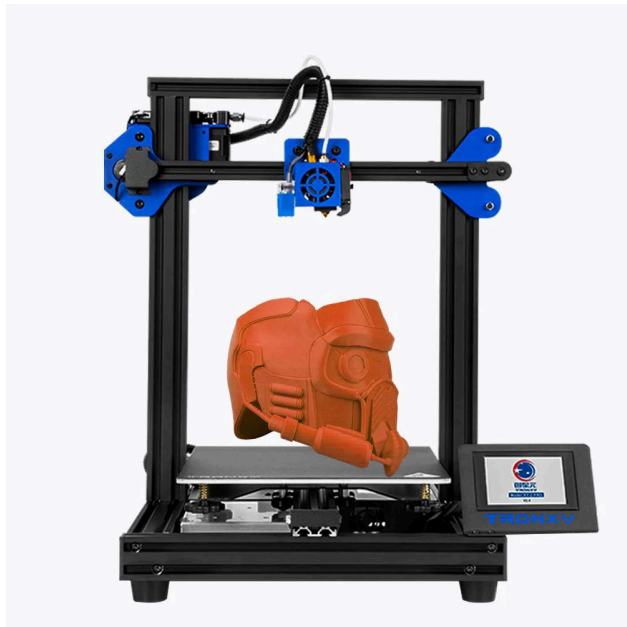


My SKR/Klipper build is a nonstandard build.  
The original was a Trony Xy-2 Pro V3 MCU printer from Dec 2019



## MACHINE PARAMETERS



<https://www.tronxy3d.com/collections/xy-2-pro-series/products/tronxy-xy-2-pro-3-structure-3d-printer-255mm-255mm-260mm>

## Features

- TRONXY Y-2 Pro
- Print Size 255X 255X260MM,
- Prusa I3 Structure,
- Automatic Leveling,
- Quick Installation of Beginner 3D Printer,
- Resume Printing Function After Power Off,
- Intelligent Broken Material Detection Function

## Slicing software: Tronxy slicer

- File format: G-Code
- Operation software: Repetier-Host/Cura
- Operation system: Windows
- Connection: USB cable, TF card
- Power input: 110V/220V
- Power output: 24V/360W
- Machine weight: 8.5kg
- Package weight: 12kg

**Print size:**

- Print Area: 255×255×260mm(10.1×10.1×10.24in)
- Print speed: 20-100mm/s (60mm/s is preferred)
- Print thickness: 0.1-0.3mm (Optional)
- Positioning accuracy: X/Y: S0.00625mm, Z: S0.00125mm
- Nozzle size: 0.4 mm
- Materials support: 1.75mm, PLA/ABS/PETG
- Nozzle temp: Max 275°C (Max 527°F)
- Heat bed temp: Max 120°C (Max 248°F)
- Machine size: 478×455×520mm (18.82×17.92×20.48 in)
- Packing size: 520x290x250mm
- Package weight: 12KG
- Environmental temperature: 8°C-40°C(46.4°F-104°F)
- Environmental humidity: 20-80%
- Power Input: 110V/220V
- Power Output: 24V 360W

**Why the upgrades:**

Out of the Box everything work. But the print quality was not excellent & the original controller worked but had a LOT of glitches it made sense to upgrade:

All the Glitches tracked back to:

- Cheap, dangerous power supply,
- Odd Trony MCU Firmware( although it was based on a branch of Marlin)
- Magnetic proximity centers
- Cheap filament run-out sensor
- No web-based management
- Cheap end-stop switches

What I have replaced/added:

- MCU BTT SMR3
- Steppers: BTT EX 29022
- Display: BTT FTF35-v3 \*\* Dec 2023 Firmware, Jan 2024 Firware does not work
- Power supply New Power supply
- Power supply ICE outlet. The original one was Dangerous with exposed 120V wire!!
- Bed Probe: BTT MicroProb
- Filament runout Detector: BTT Smart Filament Runout Sensor V2
- Pi 3B - to run Klipper & provide a web interface
- End stops
- All fans!
- Cables stepping motor cable
- New Endstop cables

- New Power supply cables
- New Cable Power Jack
- I removed the Trony Ribin motor to PCB due to ground issues.
- Added LED lights
- 2 USB webcams

Trony parts that are left ( for the moment)

- 2020 frame,
- X,Y,Z stepping motors
- Z lead screw system
- X&Y Belts system
- Bed & Heater
- HotEnd
- Y gantry system.

Software:

- Pi Mainsail Image w/ updates
- BTT Hurakan MainSail/Klipper configs Modded for the SKR3 Board & Accessories
- Hurakan MainSail/Klipper Skin that I have modded for the SKR3

At this point, the Printer is 90% BTT then Trony!

Now the Trony BED is a bit bigger then BTT Hurakan. But just to get it up and running that dose not matter.

Once it's running, we can optimize it to a new version with just a configuration file update.