



# WELCOME TO

# AgXRP

experiential robotics platform

## BETA

## DIY KIT

### PARTS CHECKLIST:

#### VISUAL GUIDE FOR THE AGXRP STARTER KIT-DIY-BETA, KIT-30713

#### ELECTRONICS



1X SPARKFUN XRP CONTROLLER V2 WITH AGXRP FIRMWARE



1X QWIC SOIL MOISTURE SENSOR (CAPACITIVE)



1X WALL ADAPTER AGXRP POWER SUPPLY - 9V



1X FLEXIBLE QWIC CABLE (B) 500MM



1X HOBBY MOTOR WITH ENCODER & W 200MM WIRE

#### OTHER PARTS



1X LATEX TUBING



10X DEEP GROOVE BALL BEARINGS



2X VELCRO STRAPS

#### USER WILL NEED TO PROVIDE:



1X EMPTY, CLEAR WATER BOTTLE (16-20OZ)

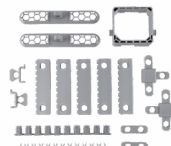


1X PLANT IN SOIL

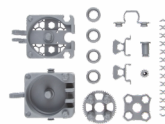
NOTE:  
THESE PARTS  
ARE NOT  
INCLUDED  
IN THE KIT

#### USER WILL NEED TO 3D PRINT ADDITIONAL PARTS:

*This is the DIY kit, which means the user 3D prints the plastic/structural parts.*



1X U-STAND BUNDLE



1X SINGLE PUMP ENCLOSURE BUNDLE

3D PRINT FILES  
CAN BE FOUND AT:  
[https://www.printables.com/  
model/1411123-agxrp-beta-  
educational-agriculture-  
automation-kit/files](https://www.printables.com/model/1411123-agxrp-beta-educational-agriculture-automation-kit/files)



#### WANT TO ADD MORE PLANTS TO YOUR SYSTEM?

Your kit has the parts to support one plant. To add more plants (up to three more) to this watering system, please purchase the **AgXRP Pump & Soil Moisture Sensor Expansion Pack - Beta (item # KIT-30716)** or the **AgXRP Pump & Soil Moisture Sensor Expansion Pack - DIY - Beta (item # KIT-30715)**. If you choose the DIY expansion pack, the 3D printed parts are not included and you will need to print the Single-Pump Enclosure Bundle for each plant you add.

FOR MORE INFORMATION, VISIT [SPARKFUN.COM/AGXRP](http://SPARKFUN.COM/AGXRP)

