SAR Scanners

By Josiah W. Smith

# AMC 4030 Motion Controller Settings

Large scanner (MJ50 rails): DIST = 110 mm/rev

Small scanner (MJ45 rails): DIST = 72 mm/rev

Rotator: DIST = 36 mm/rev

Old screw rail: DIST = 5 mm/rev

# Purchase Links

* AMC 4030 Motion Controller
  + <https://www.aliexpress.com/i/4000090367134.html>
* Nema 23 Motor
  + <https://www.omc-stepperonline.com/nema-23-stepper-motor/p-series-nema-23-bipolar-1-8deg-1-9-nm-269oz-in-2-8a-57x57x76mm-4-wires.html>
* 24 V 14.6 A Power Supply
  + <https://www.omc-stepperonline.com/350w-24v-146a-115230v-switching-power-supply-stepper-motor-cnc-router-kits-s-350-24.html?search=350W%2024V%2014.6A%20115%2F230V%20Switching%20Power%20Supply%20Stepper%20Motor%20CNC>
* Nema 23 DM542T Stepper Driver
  + <https://www.omc-stepperonline.com/digital-stepper-driver-10-42a-20-50vdc-for-nema-17-23-24-stepper-motor-dm542t.html>
* Tripod (UTD Approved Vendor)
  + <https://www.cdwg.com/product/anywhere-cart-ac-trpd-ha-tripod/6314280?pfm=srh>
* MJUNIT Linear Rails
  + Reach out to [sales@mjunit.com](mailto:sales@mjunit.com)
  + Consult PDF in this folder for part list
  + They will send Amazon link for purchase
* 80/20 Parts
  + [80/20 Website](https://8020.net/)
  + [3D Models of 80/20 Parts](https://www.3dcontentcentral.com/parts/supplier/80%2020-Inc.aspx)
  + [Shepherd Controls – Our 80/20 Supplier](http://www.shepherdcontrols.com/)