10.0 parts list

10.1 version control

Version 1.0 - first version

10.2 introduction

This is the parts list of all critical components. Resistors, capacitors, wires, mounting brackets, nuts and bolts et cetera are not detailed for now.

10.3 electronics

This is for all 6 planets the same:

raspberry pi	6	RPI Zero W, any type will do as long as it has WiFi
motor HAT	6	Adafruit DC & Stepper Motor HAT for Raspberry Pi - Mini Kit
40 pin male header	6	to mount the HAT to the RPI
SD kaart 16 gig	6	preferably industrial grade
motor HAT	6	NEMA17
local power supply	6	L7805CP, 1.5 A
local reed switch	6	preferably in plastic case because switches are vulnerable as they are made from glass
magnets	6	small and flat
GT2 pulley	6	to mount to NEMA17

10.4 frame

power supply 12V 10A	1	220 VAC input, 12VDC 10 A output
copper tape	1	CFT-25/33M copper tape CFT25 (l x b) 33 m x 25 mm 33 meter

10.5 outer planets

copper wire	1	Kabeltronik copper wire woven band, 1 meter will do
GT2 belt	3	mars, jupiter and saturn
set of 1 axle and 2 front wheels and pulley	3	any wheel will do
set of 2 rear wheels	3	any wheel will do

10.6 inner planets

GT2 belt	2	earth and venus
GT2 pulley	2	to propel the dish

10.7 other materials

Furthermore: you need to think with what material you want to build your frame, lightning of the DMO if needed, paint, graphics etc.

You lift your DMO manually or do you have otherwise access? If you need a winch you have to figure out that construction as well.

10.8 costs

The DMO as pictured on the website has roughly about 4500 euro of materials and services (mostly CNC cutting of the orbits) in it.

That is if you do not brake anything along the project….