

0.1 COST


Table 1: here is the list of components

Components	Quantity	Price(per Unit)	ref
Raspberry Pi 4 8GB RAM	1	3127.03 ￡	
ESP32-S3-DevKitC-1-N8R8 - ESP32-S3-WROOM-1	2	1220 ￡	
Closed Loop Stepper Driver V4.1 0-8.0A 24-48VDC CL57T	2	1186 ￡	
Motorbit Weight Sensor 120 kg	2	768.2 ￡	
Weight Sensor - Load Sensor 50Kg.	4	29.7 ￡	
Load Cell Amplifier - HX711	4	27.3 ￡	
BTS7960B 40 Amp Motor Driver Board	1	188.82 ￡	
Barcode Scanner Module 1D/2D Codes Reader	1	1261.83 ￡	
QTRXL-MD-01A Re- flectance Sensor Array	4	90.57 ￡	

Gravity: HUSKYLENS	1	1723.14 ₪	
IMU Sensor / 9 Axis MPU9255 IMU and Barometric Sensor (Low Power)	1	1058.31 ₪	
RPLIDAR - 360 degree Laser Scanner Development Kit	1	5029.72 ₪	
TXS0108E 8 Channel Voltage Level Transducer	4	40 ₪	
The VL53L0X is a time-of-flight (ToF) distance sensor	10	101.76 ₪	
UV Solder Mask	3	180.78 ₪	
LM2596HV/LM2576 Voltage Regulator for Multiple power supply	4	36.09 ₪	
Aluminum heatsink	2	439 ₪	
5V 8 Channel Relay Card	1	154.68 ₪	
P Series Nema 23 Closed Loop Stepper Motor 2Nm(283.28oz.in) with Electromagnetic Brake	2	2971.78 ₪	

EG Series Planetary Gear-box Gear Ratio 20:1 Backlash 20arc-min for 10mm Shaft Nema 23 Stepper Motor	2	1642 ₺	
Shaft Sleeve Adaptor 11mm to 8mm for NMRV30 Worm Gearbox	4	35 ₺	
Single Output Shaft for NMRV30 Worm Gearbox	4	121.37 ₺	
Double Output Shaft for NMRV30 Worm Gearbox	4	121.37 ₺	
NEMA 23 Stepper Motor Vibration Damper	4	243.74 ₺	
Nema 23 Bracket for Stepper Motor	4	243.74 ₺	
Nema 23 Flange for ISC And ISD Series Drivers	3	175.28 ₺	
AWG 20 High-flexible with Shield Layer Stepper Motor Cable	2	43.25 ₺	
TP-Link TL-WR840N	1	569 ₺	
Raspberry Pi 4.3 Inch Capacitive Touch Screen DSI Interface 800"480	1	1750.28 ₺	

Nema 8R 5W 87dB 90X39mm Speaker	1	108.11 ₺	
Nema RS232 to Bluetooth Series Adapter	2	455 ₺	
12V 70 AH AGM BATTERY	1	5000 ₺	
Battery Chargers 6V/2A 12V/2A Full Automatic Smart Battery	1	642.99 ₺	
RS232 Adapter Cable to USB 2.0	2	453.65 ₺	
Motor and encoder extension cable kit	2	351 ₺	
DC 12V Electric Linear Ac- tuator Force 6000N	1	2479 ₺	
WM-045 DC-DC 150W Volt- age Booster	1	521.04 ₺	
Motorobit DC-DC 1500W 30A Voltage Boost Module	1	881.76 ₺	
TCA9548A I2C Çoklayıcı / Multiplexer Kartı	1	40.66 ₺	

3B Printer Limit Switch	2	37.07 ₺	
Drn956 16mm Acil - Stop Switch (Kafa 27mm)	1	145.08 ₺	