

Parts list V1.0

Mechanical

	Quantity	Description
1	2x	Aluminum profile 20x40mm * 1m (V-Slot)
2	xx	Aluminum 10x10mm * 1m (according to build plans)
3	8x	POM V-Slot wheels & bearings (Big) 24.4mm
4		
5		
6		
7		
8		
9		
10	4x	V623ZZ Bearing
11	6x	605ZZ 5x14x5mm Bearing
12	4x	685ZZ 5x11x5mm Bearing
13		
14		
15		
16		
17		
18		

Electrical

	Quantity	Description	
1	3x	ESP32 / 8266 NodeMCU	
2	2x	AS5600 Magnetic Encoder	https://de.aliexpress.com/item/1005003080438185.html
3	2x	H9730 180LPI strip	https://de.aliexpress.com/item/32990646120.html
4	2x	H9730 encoder	https://de.aliexpress.com/item/32975487761.html
5	2x	18650 Battery	
6	2x	18650 controller / BMS	https://de.aliexpress.com/item/3262444293.html
7	2x	ON/OFF Switch	https://de.aliexpress.com/item/32765155281.html
8	2x	WS2812B LED Indicator	https://de.aliexpress.com/item/1897830725.html
9	1x	0.96 inch oled	https://de.aliexpress.com/item/32896971385.html
10	2x	Boost converter DC-DC	https://de.aliexpress.com/item/4001066566291.html
11	1x	RP2040	
12			
13			
14			
15			
16			
17			
18			

3D Printable Parts

	Quantity.	Description	CAD Name	3D File No
1	2x	Back sled	Schlitten	P01.1v1
2	2x	Front sled	Schlitten	P01.2v1
3	2x	Back pivot right	Hinterschlitten Gelenk	P02.1v1
4	2x	Back pivot left	Hinterschlitten Gelenk	P02.2v1
5	2x	Heel-block right	HinterBlock	P03.1v1
6	2x	Heel-block left	HinterBlock	P03.2v1
7	2x	Heel-block right cover	Deckel_Block	P03.3v1
8	2x	Heel-block left cover	Deckel_Block	P03.4v1
9	2x	Bearing holder	Drehgelenk	P04.1v1
10	2x	Encoder mount	Drehgelenk	P04.2v1
11	2x	Lock-mechanism bottom	Drehgelenk	P04.3v1
12	2x	Lock-mechanism top	Drehgelenk	P04.4v1
13	1x	Spacer Right	Frontplattenspacer	P05.1v1
14	1x	Spacer Left	Frontplattenspacer	P05.2v1
15	2x	Spring mount	SpringHolder	P06.1v1
16	4x	Encoder strip mount	EncoderBandHalter	P07.1v1

All parts were printed with a 0.6mm nozzle with HQ PLA

The parts marked green are printed in conductive PLA for touch down detection.