

Bill of materials. uCF·SPS

Part nr.	Description	Price (€)
Mechanical parts		
uCF0001	Steeper motor. RS Components part nr. 440-458	61.90
uCF0002	Threaded rod M8x190 mm (Amazon.com)	3.17
uCF0003	Motor shaft to threaded rod coupler Ø15x15 mm (RS Components, Aluminium)	19.76
uCF0004	Hexagonal nut M8 (Amazon.com)	5.80
uCF0005	1.5x20 mm 'cotter' split pins (x2) (Amazon.com)	11.47
uCF0006	60x75x20 mm front plastic paw (RS Components, Black Nylon)	34.90
uCF0007	60x75x10 mm rear plastic paw (RS Components, Black Nylon)	
uCF0008	50x75x10 mm actuator (RS Components, Black Nylon)	
uCF0009	75x60x10 mm motor support (RS Components, Black Nylon)	
uCF0010	Polished guide stainless steel shaft Ø8x195 mm (x2) (Amazon.com)	146.17
uCF0011	Brass bushing Ø8x8 mm (x2)	
uCF0012	Cone point grub screw M4x6 mm (x4) (Amazon.com, M4x4)	2.05
uCF0013	Spacer tube Ø10x25 mm (x4) (RS Components, Acrylic)	14.06
uCF0014	Flat head bolt M6x50 mm w/ nut (x4) (Amazon.com)	7.73
uCF0015	Flat head bolt M4x8 mm w/ nut (x4) (Amazon.com)	3.27
uCF0016	Double syringe grip 10x75x10 mm	
uCF0017	Mushroom head screw M5x40 (Amazon.com)	2.97
uCF0018	Double syringe plunger lock 30x60x1.5 mm	
uCF0019	Hex head bolt M5x16 mm w/ nut (x3) (Amazon.com)	1.64
Electronic parts		
uCF0020	RSSM2 steeper motor drive. RS Components part nr. 240-7920	61.59
uCF0021	Arduino Duemillanove (RS Components)	20.62
uCF0022	Connection Shield Board (double sided, photosensitive, positive) 53x50 mm	5.22
uCF0023	6 pin header 45° (x2) (RS Components)	1.094
uCF0024	4 pin header 45° (RS Components)	0.334
uCF0025	8 pin straight PCB header (x2) (RS Components)	0.862
uCF0026	6 pin straight PCB header	
uCF0027	10 pin straight PCB header (RS Components)	1.132
uCF0028	Panel Board (double sided, photosensitive, positive) 70x35 mm (RS Components)	
uCF0029	6 pin straight PCB header (x4) (RS Components)	0.764
uCF0030	NPN transistor BC548-B (TO-92) (RS Components)	0.252
uCF0031	Panel mount pushbutton (x2) (RS Components)	6.40
uCF0032	Diffuse red Ø 5 mm LED (RS Components)	0.208
uCF0033	Diffuse yellow Ø 5 mm LED (RS Components)	0.236
uCF0034	1W, 10 k potentiometer panel-mount (RS Components)	6.90
uCF0035	47 k trimmer PCB mount (LI15 package) (RS Components)	0.308
uCF0036	1/4W, 5%, 1k resistor (x3) (RS Components)	0.019
uCF0037	1/4W, 5%, 10 k resistor (x4) (RS Components)	0.015
uCF0038	1/4W, 5%, 22 k resistor (RS Components)	0.02
uCF0039	1/4W, 5%, 220 ohms resistor (RS Components)	0.019
uCF0040	16 Vdc, 75 dB continuous tone buzzer 5V (RS Components)	3.52
uCF0041	Limit micro switch SPDT-NO/NC (x2) (RS Components)	3.26
uCF0042	Cabinet	
uCF0043	Knob for potentiometer (RS Components)	0.419
uCF0044	5 mm LED holder (x2)	0.08
	TOTAL	428.162