





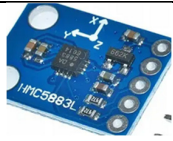




List of parts for assembling a scanner with two degrees of freedom

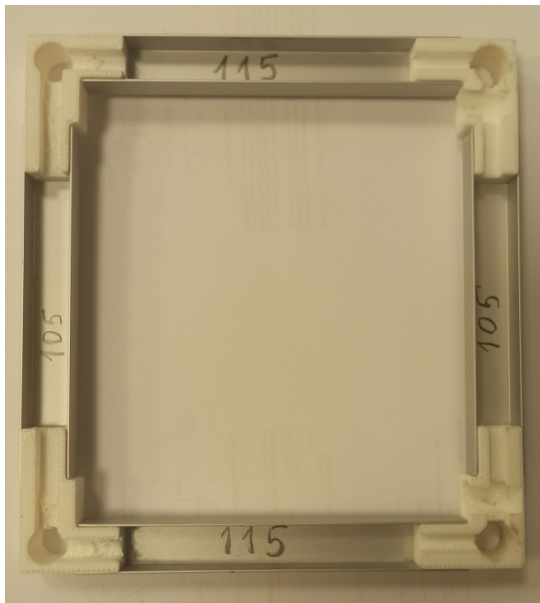
		pcs	Links	description	Cost
1	Set No. 1 of plastic parts	1		bolt D5-3pcs Bolt_D7-4pcs cap-1pcs carriage-1pcs Case_L-1pcs Case_R-1pcs Corner1-1pcs Corner2-1pcs Corner3-1pcs Corner4-1pcs Holder_morors-1pcs Holder_sens1-1pcs Holder_sens2-1pcs Nut bolt D5-2pcs Nut_bolt_D7-4pcs Rack-2pcs Shutter-2pcs	2\$
2	U-shaped profile 1 meter aluminum	1	https://lemanapro.ru/product/profil-alyuminiyvy-p-obraznyy-10x15x1x1000-mm-12370172/?utm_referrer=https%3A%2F%2Fya.ru%2F	The workpiece is cut into 5 parts L=105mm – 2pcs L=115mm – 2pcs L=130mm – 1pcs	1.5\$
3	Magnetic field sensor HMC5883	1	https://www.wildberries.ru/catalog/72703928/detail.aspx		3\$
4	Stepper motors 5V	3	https://aliexpress.ru/item/1005006140958230.html?sku_id=12000035942630447&spm=a2g2w.productlist.search_results.9.573a1468qr3SW8	D=10mm H=10mm 	2\$
5	Stepper motor drivers based on L298N	3	https://aliexpress.ru/item/1005007537417112.html?sku_id=12000041200968162&spm=a2g2w.productlist.search_results.16.4c4523beYxxljm		3\$
6	PCB	1	https://aliexpress.ru/item/1005007500028592.html?sku_id=120000041037644235&spm=a2g2w.productlist.search_results.9.57a06640XC4BoP https://aliexpress.ru/item/1005002551425471.html?sku_id=12000021105563098&spm=a2g2w.productlist.search_results.5.54022b821Fqq7l https://aliexpress.ru/item/1005005135314074.html?sku_id=12000031802851035&spm=a2g2w.productlist.search_results.0.1	PIC16F877A – 1шт HC-49US-8MHz – 1шт 0603-0.1uf-50V – 2шт 0603-2,2kOhm-5% – 2шт 0603-10kOhm-5% – 2шт	6\$

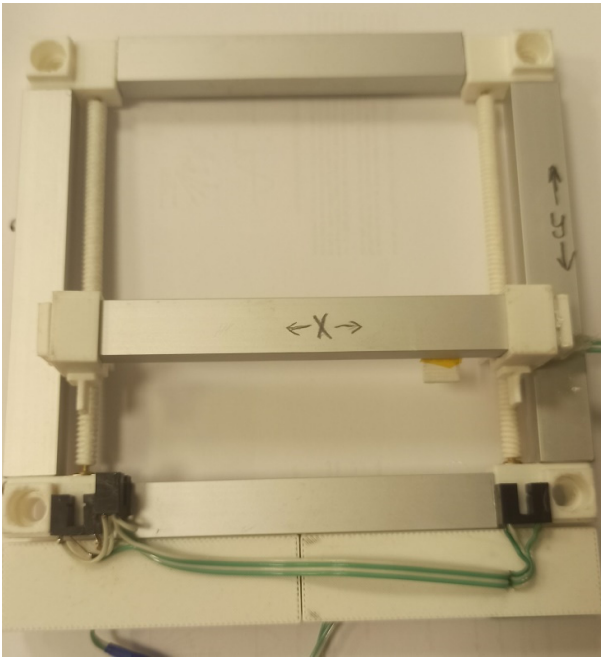
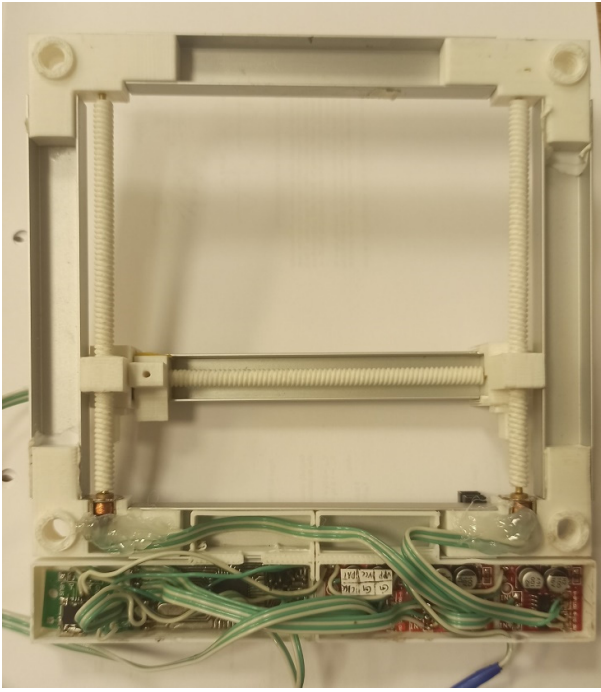
			223144atj35M4		
7	Optical sensors	3	https://aliexpress.ru/item/1005003411501711.html?sku_id=12000025694566875&spm=a2g2w.productlist.search_results.13.7ad27a5argeb14		1.5\$
8	Brass tube 2 mm	1	https://www.vseinstrumenti.ru/product/trubka-gah-alberts-latunnaya-diametr-2x0-3h1000mm-471217-942318/?utm_source=yandex&utm_medium=cp&utm_campaign=dsa_na_na_rf_po-top-tovaram&utm_content=11599202156&utm_term=ST%3Asearch%7CS%3Aone%7CAP%3A%7CPT%3APremium%7CP%3A1%7CDT%3Adesktop%7CRI%3A213%7CCI%3A70106953%7CGI%3A4790378506%7CPI%3A52845259633%7CAI%3A11599202156%7CRT%3A52845259633%7CKW%3A---autotargeting%7CRN%3AMockba&yclid=15896244319048957951	The workpiece is cut into 3 parts L=111mm – 1pcs L=130mm – 2pcs	2\$
9	USB-UART Cable	1	https://aliexpress.ru/item/32757421855.html?sku_id=10000000774449167&spm=a2g2w.productlist.search_results.15.3fe9462bjtApyZ	 <small>TX to the target board RX, GND to GND. If not possible, (ish RX to TX, RX to TX, TX to RX, GND to GND (ound to ground))</small>	1\$
10	5V 1A power supply	1	https://aliexpress.ru/item/1005004463495551.html?sku_id=12000029256341662&spm=a2g2w.productlist.search_results.4.63d01984sPCEdm		1\$

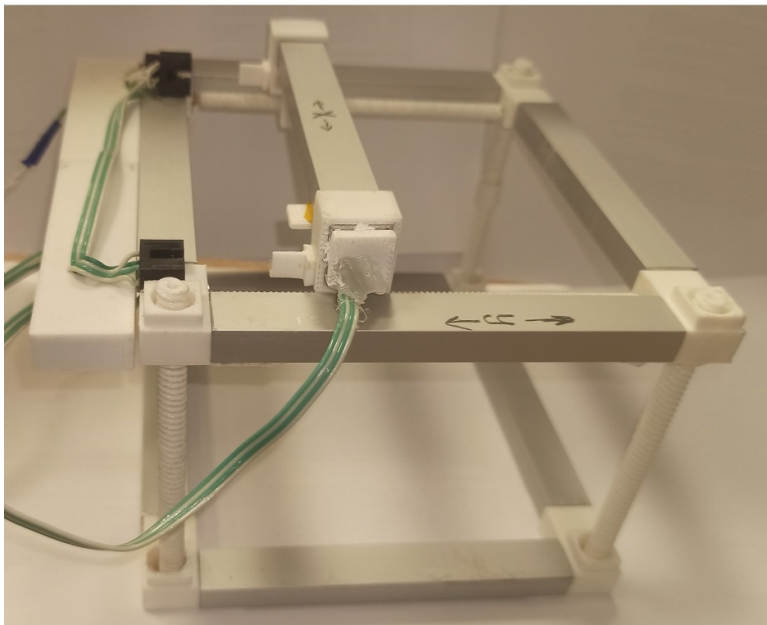
List of parts for assembling a scanner with three degrees of freedom

		pcs	Links	description	Cost
1	Set No. 2 of plastic parts	1		bolt D5-7pcs cap-1pcs carriage-1pcs Case_L-2pcs Case_R-2pcs Corner1-2pcs Corner2-2pcs Corner3-2pcs Corner4-2pcs Holder_morors-1pcs Holder_sens1-1pcs Holder_sens2-1pcs Nut bolt D5-6pcs Rack-2pcs Shutter-2pcs	2\$
2	U-shaped profile 1 meter aluminum	2	https://lemanapro.ru/product/profil-alyuminievyy-p-obraznyy-10x15x1x1000-mm-12370172/?utm_referrer=https%3A%2F%2Fya.ru%2F	The workpiece is cut into 9 parts L=105mm – 4pcs L=115mm – 4pcs L=130mm – 1pcs	3\$
3	Magnetic field sensor HMC5883	1	https://www.wildberries.ru/catalog/72703928/detail.aspx		3\$
4	Stepper motors 5V	7	https://aliexpress.ru/item/1005006140958230.html?sku_id=12000035942630447&spm=a2g2w.productlist.search_results.9.573a1468qr3SW8	D=10mm H=10mm 	5\$
5	Stepper motor drivers based on L298N	7	https://aliexpress.ru/item/1005007537417112.html?sku_id=12000041200968162&spm=a2g2w.productlist.search_results.16.4c4523beYxxljm		5\$
6	PCB	1	https://aliexpress.ru/item/1005007500028592.html?sku_id=12000041037644235&spm=a2g2w.productlist.search_results.9.57a06640XC4BoP https://aliexpress.ru/item/1005002551425471.html?sku_id=12000021105563098&spm=a2g2w.productlist.search_results.5.54022b821Fqq7l https://aliexpress.ru/item/1005005135314074.html?sku_id=12000031802851035&spm=a2g2w.productlist.search_results.0.1223144atj35M4	PIC16F877A – 1шт HC-49US-8MHz – 1шт 0603-0.1uf-50V – 2шт 0603-2,2kOhm-5% – 2шт 0603-10kOhm-5% – 2шт	6\$

7	Optical sensors	3	https://aliexpress.ru/item/1005003411501711.html?sku_id=12000025694566875&spm=a2g2w.productlist.search_results.13.7ad27a5argeb14		1.5\$
8	Brass tube 2 mm	1	https://www.vseinstrumenti.ru/product/trubka-gah-alberts-latunnaya-diametr-2x0-3h1000mm-471217-942318/?utm_source=yandex&utm_medium=cpc&utm_campaign=dsa_na_na_rf_po-top-tovaram&utm_content=11599202156&utm_term=ST%3Asearch%7CS%3Anone%7CAP%3Aano%7CPT%3Apremium%7CPI%3A1%7CDT%3Adesktop%7CRI%3A213%7CCI%3A70106953%7CGI%3A4790378506%7CPI%3A52845259633%7CAI%3A11599202156%7CRT%3A52845259633%7CKW%3A---autotargeting%7CRN%3AMockba&yclid=15896244319048957951	The workpiece is cut into 3 parts L=111mm – 1pcs L=130mm – 2pcs	2\$
9	USB-UART Cable	1	https://aliexpress.ru/item/32757421855.html?sku_id=10000000774449167&spm=a2g2w.productlist.search_results.15.3fe9462bJtApyZ	 <small>U to the target board RX, GND to GND. If not possible, link RX to TX, TX to RX, GND to GND (ground to ground)</small>	1\$
10	5V 2A power supply	1	https://aliexpress.ru/item/1005004463495551.html?sku_id=12000029256341662&spm=a2g2w.productlist.search_results.4.63d01984sPCEdm		2\$







PCB (top)

