

Material	Description	Link	Quantity	Cost	
Snap blades	Will be used as the metal scraping tool	https://www.uline.ca/Product/Detail/H-1371B/Blades-and-Dispensers	1	1.25	
PVC tubes	Will be used as the body of the product	https://www.homedepot.ca/product/ipex-central-vac-tubing-2-x5-/100	4	19.92	
ESP32	Will be used for feedback system	ESP32 MakerLab	1	13.99	
Touch sensor	Will be used for feedback system	TTP223B Digital Touch Capacitive Sensor Switch Module DIY for Ard	1	1.45	
Coupling	Used to connect tubes	IPEX Central Vac 2 inch PVC Stop Coupling - H The Home Depot C	2	3.16	
90 degree PVC Elbow	Connect handle to body	https://www.homedepot.ca/product/ipex-central-vac-2-inch-90-degree	1	2.98	
Wheels	Will be attached to body of product to allow for rotation to scrape	https://a.co/d/7WD4VLb	1	22	
Filament - 3D printing	13 cents/gram, sample containment	n/a	128g	16.64	
Velcro	connect feedback system to tube	Velcro. Sticky Back™ Strips - 4 Sets, Black, 3 1/2" x 3/4" (8.89cm x 1	1	3.94	
jumper wires	feedback system	5/10pcs 4pin Dupont Line Female To Female Pitch 2.54mm 20cm Dc	1	1.25	
			Subtotal	86.58	
			tax	11.2554	0.13
			total	97.8354	