

Class 1MCT2  
 First Name: Jens  
 Name Dumortier  
 Project Name : WUK Afhaalautomaat  
 Assembly Revision : 1  
 Approval Date : 16-Mar-21  
 Part Count : 67  
 Total Cost : €504

Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	Raspberry Pi 4GB	Main controller	1	1	<a href="https://unikits.be/product/mct-prototyping-kit-raspberry-pi-gedeelte/">https://unikits.be/product/mct-prototyping-kit-raspberry-pi-gedeelte/</a>	<a href="https://www.amazon.de/Raspberry-Pi-ARM-Cortex-A72-Bluetooth-Micro-USB/dp/B07TC9BK4Y/ref=">https://www.amazon.de/Raspberry-Pi-ARM-Cortex-A72-Bluetooth-Micro-USB/dp/B07TC9BK4Y/ref=</a>	1	€ 64.15	€ 64.15	€ 64.15
2	SD cart 16 GB	Raspberry Pi Storage	1	1	<a href="https://unikits.be/product/mct-prototyping-kit-raspberry-pi-gedeelte/">https://unikits.be/product/mct-prototyping-kit-raspberry-pi-gedeelte/</a>	<a href="https://www.amazon.de/SanDisk-Imaging-microSDHC-Speicherkarte-SD-Adapter/dp/B074BE72C4/ref=">https://www.amazon.de/SanDisk-Imaging-microSDHC-Speicherkarte-SD-Adapter/dp/B074BE72C4/ref=</a>	1	€ 6.99	€ 6.99	€ 6.99
3	Raspberry Pi Case	Case	1	1	<a href="https://www.aliexpress.com/item/4000181802427.html?spm=a2g0o.cart.0.0.45913c00NJCPo5&amp;mp=1">https://www.aliexpress.com/item/4000181802427.html?spm=a2g0o.cart.0.0.45913c00NJCPo5&amp;mp=1</a>	<a href="https://www.amazon.de/Geekworm-Raspberry-K%C3%BChlk%C3%B6rper-Aluminium/dp/B074B572C4/ref=">https://www.amazon.de/Geekworm-Raspberry-K%C3%BChlk%C3%B6rper-Aluminium/dp/B074B572C4/ref=</a>	1	€ 7.46	€ 7.46	€ 7.46
4	Raspberry Pi Voeding	5 V USB-C powersupply	1	1	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/Raspberry-Pi-offizielles-Netzteil-Model/dp/B07TMPC9FG/ref=">https://www.amazon.de/Raspberry-Pi-offizielles-Netzteil-Model/dp/B07TMPC9FG/ref=</a>	1	€ 11.99	€ 11.99	€ 11.99
5	Flatcable 40 pin	Flatcable for GPIO pins	1	1	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/ARC-ELI-Breakout-Erweiterungskarte-Flashboard-GPIO/dp/B074B572C4/ref=">https://www.amazon.de/ARC-ELI-Breakout-Erweiterungskarte-Flashboard-GPIO/dp/B074B572C4/ref=</a>	1	€ 5.99	€ 5.99	€ 5.99
6	Power supply 12 V	Power supply locks	1	1	<a href="https://www.aliexpress.com/item/32983648084.html?spm=a2g0o.cart.0.0.45913c00NJCPo5&amp;mp=1">https://www.aliexpress.com/item/32983648084.html?spm=a2g0o.cart.0.0.45913c00NJCPo5&amp;mp=1</a>	<a href="https://www.amazon.de/Redrexx-Transformator-LED-Streifen-Sicherheit-Computer/dp/B01M73">https://www.amazon.de/Redrexx-Transformator-LED-Streifen-Sicherheit-Computer/dp/B01M73</a>	1	€ 14.01	€ 14.01	€ 14.01
7	Nextion Enhanced NX4832K035	Display met touchscreen	1	1	<a href="https://www.banggood.com/Nextion-Enhanced-NX4832K035-3-5-Inch-HMI-Intelligent-Smart-USART-UART-Serial-Touch-Screen-TFT-LCD-Module-p">https://www.banggood.com/Nextion-Enhanced-NX4832K035-3-5-Inch-HMI-Intelligent-Smart-USART-UART-Serial-Touch-Screen-TFT-LCD-Module-p</a>	<a href="https://www.amazon.de/Tamko-Geeignet-Enhanced-NX4832K035-Universal-Schwarz/dp/B08VWUNTCQ/ref=">https://www.amazon.de/Tamko-Geeignet-Enhanced-NX4832K035-Universal-Schwarz/dp/B08VWUNTCQ/ref=</a>	1	€ 31.21	€ 31.21	€ 31.21
8	Electromagnetic lock 12 V	Lock met feedback	1	2	<a href="https://www.banggood.com/K02-12V-DC-2A-Electric-Magnetic-Lock-Intelligent-Cabinet-Door-Lock-Fail-Secure-with-Feedback-Signals-p">https://www.banggood.com/K02-12V-DC-2A-Electric-Magnetic-Lock-Intelligent-Cabinet-Door-Lock-Fail-Secure-with-Feedback-Signals-p</a>	<a href="https://www.amazon.de/T%C3%B6chler-3%BCrschloss-T%C3%BCriegel-Intelligent-Ausfallen-Feedback-p">https://www.amazon.de/T%C3%B6chler-3%BCrschloss-T%C3%BCriegel-Intelligent-Ausfallen-Feedback-p</a>	1	€ 7.52	€ 15.04	€ 15.04

9	IRF3205	MOSFET for opening locks	1	1	<a href="https://www.banggood.com/10Pcs-IRF3205-IRF3205PBF-MOSFET-MOSFT-55V-98A-8mOhm-97_3nC-TO-220-Transistor-p-22674.html?rmmd=mvorder">https://www.banggood.com/10Pcs-IRF3205-IRF3205PBF-MOSFET-MOSFT-55V-98A-8mOhm-97_3nC-TO-220-Transistor-p-22674.html?rmmd=mvorder</a>	<a href="https://www.amazon.de/ILS-IRF3205-IRF3205PBF-220-Transistor/dp/B07MFQW7P?ref=ast_spl_de_DE">https://www.amazon.de/ILS-IRF3205-IRF3205PBF-220-Transistor/dp/B07MFQW7P?ref=ast_spl_de_DE</a>	10	€	4.51	€	4.51	€	4.51
10	DS18B20	Waterproof temperature sensor	1	1	<a href="https://www.banggood.com/Wholesale-DS18B20-Waterproof-Digital-Temperature-Temp-Sensor-Probe-p-52674.html?rmmd=mvorder">https://www.banggood.com/Wholesale-DS18B20-Waterproof-Digital-Temperature-Temp-Sensor-Probe-p-52674.html?rmmd=mvorder</a>	<a href="https://www.amazon.de/Busir-de-DS18B20-Edelstahl-wasserdicht-Temperatur-%C2%BCbles/de/">https://www.amazon.de/Busir-de-DS18B20-Edelstahl-wasserdicht-Temperatur-%C2%BCbles/de/</a>	1	€	3.61	€	3.61	€	3.61
11	AM312	Detector	1	1	<a href="https://www.aliexpress.com/item/32989306356.html?spm=a2g0o.cart.0.0.c5543c00UyFAud&amp;mp=1">https://www.aliexpress.com/item/32989306356.html?spm=a2g0o.cart.0.0.c5543c00UyFAud&amp;mp=1</a>	<a href="https://www.amazon.de/Aidee-pen-menschlicher-Sensor-AM312-Mini-Infrarot-Bewegungsmelder/dp/B08D6">https://www.amazon.de/Aidee-pen-menschlicher-Sensor-AM312-Mini-Infrarot-Bewegungsmelder/dp/B08D6</a>	1	€	1.54	€	1.54	€	1.54
12	LCD 1602	Display	1	1	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/AZDe-livery-HD44780-Display-Zeichen-Hintergrund/dp/B070T26477/">https://www.amazon.de/AZDe-livery-HD44780-Display-Zeichen-Hintergrund/dp/B070T26477/</a>	1	€	4.29	€	4.29	€	4.29
13	Diode 1N4007	diode for MOSFET circuit	1	2	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/Haobase-IN4007-DO-41-Gleichrichter-Diode/dp/B01F4806K1/ref=CCI-YUN-Schalttafeleinbau-kaltger%C3%A4tebuchse-Kaltger%C3%A4tebo">https://www.amazon.de/Haobase-IN4007-DO-41-Gleichrichter-Diode/dp/B01F4806K1/ref=CCI-YUN-Schalttafeleinbau-kaltger%C3%A4tebuchse-Kaltger%C3%A4tebo</a>	1	€	0.05	€	0.10	€	0.10
14	C14 connector	AC power connector	1	1	<a href="https://nl.aliexpress.com/item/32804170262.html?spm=a2g0o.productlist.0.0.30587aef5AImny&amp;algo_pvid=a1415ffc-d091-45cc-8d08">https://nl.aliexpress.com/item/32804170262.html?spm=a2g0o.productlist.0.0.30587aef5AImny&amp;algo_pvid=a1415ffc-d091-45cc-8d08</a>	<a href="https://www.amazon.de/RUNCCI-YUN-Schalttafeleinbau-kaltger%C3%A4tebuchse-Kaltger%C3%A4tebo">https://www.amazon.de/RUNCCI-YUN-Schalttafeleinbau-kaltger%C3%A4tebuchse-Kaltger%C3%A4tebo</a>	5	€	3.54	€	3.54	€	3.54
15	C14 power cord	C14 power cord	1	1	From old desktop	<a href="https://www.amazon.de/Naths-Hardware-Kaltger%C3%A4tekabel-Kaltger%C3%A4tebo">https://www.amazon.de/Naths-Hardware-Kaltger%C3%A4tekabel-Kaltger%C3%A4tebo</a>	1	€	7.99	€	7.99	€	-
16	Breadboard		1	1	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/Elegoo-Breadboard-Solderless-Distribution-Verbindungsbl%C3%B6cke/d">https://www.amazon.de/Elegoo-Breadboard-Solderless-Distribution-Verbindungsbl%C3%B6cke/d</a>	1	€	3.33	€	3.33	€	3.33
17	Prototype PCB	For mosfet circuit	1	1	<a href="https://www.banggood.com/Geekcreit-40pcs-FR-4-2_54mm-Double-Side-Prototype-PCB-Printed-Circuit-Board-p-205722.html?rmmd=mvorder">https://www.banggood.com/Geekcreit-40pcs-FR-4-2_54mm-Double-Side-Prototype-PCB-Printed-Circuit-Board-p-205722.html?rmmd=mvorder</a>	<a href="https://www.amazon.de/Doppelseitig-Prototype-Lochrasterplatte-Verbindungsbl%C3%B6cke/d">https://www.amazon.de/Doppelseitig-Prototype-Lochrasterplatte-Verbindungsbl%C3%B6cke/d</a>	40	€	8.13	€	8.13	€	8.13
18	2 pin screw terminal	Screw terminal 12 V and locks	1	1	<a href="https://www.banggood.com/20pcs-2-Pin-Plug-In-Screw-Terminal-Block-Connector-5_08mm-Pitch-p-202187.html?rmmd=mvorder">https://www.banggood.com/20pcs-2-Pin-Plug-In-Screw-Terminal-Block-Connector-5_08mm-Pitch-p-202187.html?rmmd=mvorder</a>	<a href="https://www.amazon.de/ANGEEK-2-Pin-Terminal-Connector-5-08-301-2P/dp/B07XYRBDYV/ref=ast_spl_de_DE">https://www.amazon.de/ANGEEK-2-Pin-Terminal-Connector-5-08-301-2P/dp/B07XYRBDYV/ref=ast_spl_de_DE</a>	20	€	2.70	€	2.70	€	2.70
19	3 pin screw terminal	Screw terminal temperature sensor	1	1	<a href="https://www.banggood.com/10pcs-5mm-KF-301-3-Pin-PCB-Mount-Block-Screw-Terminal-NF-Connector-p-112670.html?rmmd=mvorder">https://www.banggood.com/10pcs-5mm-KF-301-3-Pin-PCB-Mount-Block-Screw-Terminal-NF-Connector-p-112670.html?rmmd=mvorder</a>	<a href="https://www.amazon.de/TOOGOO-KF301-3P-Anschlussklemme-Schraubanschluss">https://www.amazon.de/TOOGOO-KF301-3P-Anschlussklemme-Schraubanschluss</a>	10	€	2.70	€	2.70	€	2.70
20	AC socket	AC socket for raspberry pi power supply	1	1	Old wall socket	<a href="https://www.amazon.de/Merten-MEG2301-8719-Schuko-Socket-Outlet-Socket-outlet/dp/B00-WGCT176/ref=ast_spl_de_DE">https://www.amazon.de/Merten-MEG2301-8719-Schuko-Socket-Outlet-Socket-outlet/dp/B00-WGCT176/ref=ast_spl_de_DE</a>	1	€	5.00	€	5.00	€	-
21	Resistorkit		1	1	<a href="https://unikits.be/product/howest-mct-arduino/">https://unikits.be/product/howest-mct-arduino/</a>	<a href="https://www.amazon.de/AZDe-livery-Widerst%C3%A4nde-Resistor-Widerstand-Setiment/dp/B07Q87170C/ref=ast_spl_de_DE">https://www.amazon.de/AZDe-livery-Widerst%C3%A4nde-Resistor-Widerstand-Setiment/dp/B07Q87170C/ref=ast_spl_de_DE</a>	1	€	8.99	€	8.99	€	8.99

22	40 x 60 mm impregnated den bar Locker frame	1	18	<a href="http://www.hout-vanhaverbeke.be/nl">http://www.hout-vanhaverbeke.be/nl</a>	<a href="https://www.tuinhoutmarkt.be/detail.php?id=481">https://www.tuinhoutmarkt.be/detail.php?id=481</a>	3 m	€	4.16	€ 74.88	€ 74.88
23	15 x 110 mm impregnated den planchettes Locker	1	20	<a href="http://www.bouwstockdewulf.be/">http://www.bouwstockdewulf.be/</a>	<a href="https://gadero.be/grenen-dubbel-rabat-18x140mm/">https://gadero.be/grenen-dubbel-rabat-18x140mm/</a>	3 m	€	5.99	€ 119.80	€ 119.80
24	Screws 4x60	1	1	<a href="https://www.gamma.be/nl/assortiment/spax-schroef-pozi-geel-4x60-mm-200-stuks/p/B507590">https://www.gamma.be/nl/assortiment/spax-schroef-pozi-geel-4x60-mm-200-stuks/p/B507590</a>	<a href="https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Vollgewinde-1081020400603/dp/B0057W1081020400603/dp/B0057W1081020400603/">https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Vollgewinde-1081020400603/dp/B0057W1081020400603/dp/B0057W1081020400603/</a>	200	€	15.29	€ 15.29	€ 13.00
25	Screws 80 x 4	1	1	<a href="https://www.gamma.be/nl/assortiment/spax-schroef-pozi-geel-4x80-mm-50-stuks/p/B519853">https://www.gamma.be/nl/assortiment/spax-schroef-pozi-geel-4x80-mm-50-stuks/p/B519853</a>	<a href="https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Teilgewinde-0201020500803/dp/B00M5D1C0201020500803/dp/B00M5D1C0201020500803/">https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Teilgewinde-0201020500803/dp/B00M5D1C0201020500803/</a>	50	€	9.19	€ 9.19	€ 7.81
26	Screws 5x100	1	1	<a href="https://www.gamma.be/nl/assortiment/spax-schroef-pozi-yellox-5x100-l-30-stuks/p/B610832">https://www.gamma.be/nl/assortiment/spax-schroef-pozi-yellox-5x100-l-30-stuks/p/B610832</a>	<a href="https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Teilgewinde-1081020501005/dp/B00582BC1081020501005/dp/B00582BC1081020501005/">https://www.amazon.de/SPAX-Universalschraube-Kreuzschlitz-Teilgewinde-1081020501005/dp/B00582BC1081020501005/</a>	30	€	10.79	€ 10.79	€ 9.17
27	Nails 35 mm	1	2	<a href="https://www.gamma.be/nl/assortiment/gamma-spijker-2-0x35-mm-verzonken-kop-verzinkt-520-stuks/p/B457972">https://www.gamma.be/nl/assortiment/gamma-spijker-2-0x35-mm-verzonken-kop-verzinkt-520-stuks/p/B457972</a>	<a href="https://www.hubo.be/nl/p/samenagels-met-ronde-kop-2x35-mm-1kg/209685.html">https://www.hubo.be/nl/p/samenagels-met-ronde-kop-2x35-mm-1kg/209685.html</a>	520	€	5.99	€ 11.98	€ 10.18
30	Stainless steel hinge right	1	1	<a href="https://www.hubo.be/nl/p/yale-paumel-8x8-cm-rechts/202026.html">https://www.hubo.be/nl/p/yale-paumel-8x8-cm-rechts/202026.html</a>	<a href="https://www.gamma.be/nl/assortiment/suki-paumellen-inox-ronde-hoeken-rechts-80-x-80-mm/p/B614024">https://www.gamma.be/nl/assortiment/suki-paumellen-inox-ronde-hoeken-rechts-80-x-80-mm/p/B614024</a>	3	€	24.19	€ 24.19	€ 24.19
29	Stainless steel hinge left	1	1	<a href="https://www.hubo.be/nl/p/yale-paumel-8x8-cm-links/202025.html">https://www.hubo.be/nl/p/yale-paumel-8x8-cm-links/202025.html</a>	<a href="https://www.gamma.be/nl/assortiment/suki-paumellen-inox-ronde-hoeken-links-80-x-80-mm/p/B614022">https://www.gamma.be/nl/assortiment/suki-paumellen-inox-ronde-hoeken-links-80-x-80-mm/p/B614022</a>	3	€	24.19	€ 24.19	€ 24.19
<b>Total</b>		<b>67</b>							<b>€ 503.58</b>	<b>€ 483.50</b>