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Document number	3.03.3D Fc Document date	Document version	1.2			
Document owner(s)	Department, title	Date	Version			
E. Masih	Biomechanical engineering, BSc	1-7-2024	1.2			
G.J.M. Tuijthof	Biomechanical engineering, Pro-	f 1-7-2024	1.2			

Document release	Department, title Date	Version	
G.J.M. Tuijthof	Biomechanical engineering, Prof Date	1.2	

Document changes	Department, title Da	ate	Version	Summary of changes
E. Masih	Biomechanical engineering, BSc	26-3-2024	1.1	Doc setup
E. Masih E. Masih	Biomechanical engineering, BSc Biomechanical engineering, BSc	2-7-2024 18-7-2024	1.2 1.2	Part off-the-shelf and custom made filled in Additional parts added
E. Masih G.J.M. Tuijthof	Biomechanical engineering, BSc Biomechanical engineering, Prof	1-9-2024 4-8-2025	1.2 1.2	Adjustments to prices and manufacturers Final check and adjustments layout
				Adjustments to part names in alignment with CAD models and technical drawings;
G.J.M. Tuijthof	Biomechanical engineering, Prof	10-9-2025	1.2	addition risks

References

ISO 13485:2016 7.4, 7.5.8, 7.5.9, 7.6

Twente University

TechMed MDR Taskforce & Sustainable Healthcare Technology programme, GJM Tuijthof

Template name Bill of Material Template number 3.03.01.x Template version 1.2 Template date 241004

Template change history

210928 Added criticality assessment sheet

241004 Added worksheet 'Template instructions', updated layout of worksheets



Part Custom made components

Date 2-7-2024 Part ID Custom-made Revision

Component ID	Component description	Revision	Revision date	Quantity	Units	Cost	Total cost	Manufacturer	Supplier/Distributor	Supplier ref	Validation/Verification	Risk assesment?
1.1.0	Ground plate assembly							NOTE: Manufacturer/Supplier are options		ns s	Verification	Risk3, Risk9, Risk10
3.02.3D Footplate_cross_large	Ground plate	5.0	22-6-2024		pieces	The costs are determined by	?	De laser frezer	De laser frezer	https://www.delaserfrezer.com/	Verification	No
3.02.3D Footplate_Side	Side	5.0	22-6-2024		pieces	supplying the .dxf of all					Verification	No
3.02.3D Footplate_cross_small 3.02.3D Footplate_back	Leg support Back plate	5.0 5.0	22-6-2024 22-6-2024		pieces pieces	components to be made from PP with the correct					Verification Verification	No No
3.02.3D Footplate_Lock_new 1.2.0	Lock Footplate assembly	5.0	22-6-2024	16	pieces	quantities per piece. A quotation is made by the					Verification Verification	No No
3.02.3D Footplate_Footplate	Footplate	2.0	1-7-2024	1	pieces	supplier for this.					Verification	No
3.02.3D Footplate_Heel Support	Heel support	1.0	1-7-2024	1	pieces						Verification	No
3.02.3D Footplate_Heel lock	Heel locks	2.0	18-8-2024	3	pieces						Verification	No
1.3.0	3D printed components										Verification	Risk2, Risk 8, Risk9, Risk10
3D Footplate_Clamp_body	Telescopic clamp	1.0	16-5-2024	6	pieces	€ 2,93	?	Vormz	vormz.nl	Jouw 3D print service in Nederland Vormz - 3D Print Service Nederland	Verification	No
3D Footplate_Clamp lever	Telescopic lever	1.0	16-5-2024	6	pieces	€ 2,90	?	Vormz	vormz.nl	Jouw 3D print service in Nederland Vormz - 3D Print Service Nederland	Verification	No
3D Footplate_Clamp body enclosed_coup-tube	Connection clamp	2.0	17-5-2024	6	pieces	€ 2,38	?	Vormz	vormz.nl	Jouw 3D print service in Nederland Vormz - 3D Print Service Nederland	Verification	No



Part Off-the-shelf components

Replace symbol 'A' with subsystem or system ID

Date 2-7-2024 Part ID Off-the-shelf components Revision

Component ID	Component description	Revision	Revision date	Quantity	Units	Cost		Total cost	Manufacturer	Supplier/Distributor	Supplier ref	Validation/Verification	Risk assesment
2.1.0	Rods											Verification	Risk9, Risk10
BD Footplate_Tube_large	Outer PMMA rod - Ø25-21mm	1.0	13-5-2024	6 * 175 mm	2 meter	€	12,86	€ 12,86	Flexinplex Kunststoff	fe Flexinplex Kunststoffen E	Plexiglas XT Buis Glashelder Ø 25x2MM L=2000MM Flexinplex.nl	Verification	No
0	·												
D Footplate_Tube_small	Inner PMMA rod - Ø20-16mm	1.0	13-5-2024	6 * 200 mm	2 meter	€	11,91	€ 11,91	Flexinplex Kunststoff	Fe Flexinplex Kunststoffen E	Plexiglas XT Buis Glashelder Ø 20x2MM L=2000MM Flexinplex.nl	Verification	No
.3.0	Remaining components											Verification	Risk9, Risk10
	Ball-in-socket joint	1.0	1-5-2024	6	pieces	€	2,06	€ 12,36	igus	igus	https://www.igus.nl/product/igubal-AGRM_AGLM_LC?artnr=AGLM		No
											<u>08-LC</u>		
.3.2	Cardan	1.0	24-4-2024	6	pieces	€	6,19	€ 37,14	Reely	Conrad	https://www.conrad.nl/nl/p/kunststof-universele-koppeling-reely- o-x-l-12-5-mm-x-33-mm-226467.html	Verification	No
3.3	Tube insertion cap	1.0	13-5-2024	6	pieces	€	0,38	€ 1,88	Verpas B.V	Verpas B.V.	https://www.verpas.nl/insteekdoppen/rond-schroefdraad/pa-	Verification	No
											kunststof-schroefdraad/insteekbus-kunststof-draad-25-mm-m8-zwart/		
3.4	Threaded insert	1.0	28-6-2024	6	pieces	€	0,49	€ 48,61	RS	RS	https://nl.rs-online.com/web/p/threaded-inserts/0278578	Verification	No
3.5	RVS screw M6x12mm	1.0	23-7-2024	6	pieces	€	0,22	€ 1,32	Dresselhaus	Hornbach	https://www.hornbach.nl/p/dresselhaus-lenskopschroef- binnenzeskant-met-flens-m6x12-mm-iso-7380-galv-verzinkt-500-	Verification	No
3.6	Bolt with a cross nut	1.0	16-5-2024	6	pieces	€	0,70	€ 4,20	BAUHAUS	BAUHAUS	stuks/8699791/ https://nl.bauhaus/stokschroeven/bout-met-dwarsmoer- gecentreerd/p/23515361	Verification	No
.3.7	RVS screw M6x40mm	1.0	18-8-2024	6	pieces	€	0,13	€ 0.78	Dresselhaus	Hornbach	In-store availability	Verification	No
	Nylon bolt M5	1.0	16-5-2024	6	pieces	€	1,66		Unknown	Bol.	https://www.bol.com/nl/nl/p/m5x25-metaalschroef-nylon-din-84/9300000132859377/?bltgh=s0kF3fQf7JoEdF0JKihPAg.2 13.14.ProductTitle	Verification	No
.3.9	Nylon nut M5	1.0	18-8-2024	6	pieces	£	0,10	£ 0.60	Dresselhaus	Hornbach	In-store availability	Verification	No
	Nylon bolt M6	1.0	16-5-2024		pieces	Į€	0,30	-	Dresselhaus	Hornbach	In-store availability	Verification	No
	Nylon nut M6	1.0	16-5-2024		pieces	€	0,10	-	Dresselhaus	Hornbach	In-store availability	Verification	No
	Nylon bolt M8x20mm	1.0	23-7-2024	6	pieces	€	0,55	€ 3,30	Dresselhaus	Hornbach	In-store availability	Verification	No
3.13	Rubber O-ring	1.0	23-7-2024	6	pieces	€	0,06	€ 3,79	RS	RS	https://nl.rs-online.com/web/p/gaskets-o-rings/1964863?gb=s	Verification	No
	Torx cap	1.0	18-8-2024		pieces	€	0,06	-	Dresselhaus	Hornbach	In-store availability	Verification	No
.3.15	Velcro	1.0	13-5-2024	1	roll	€	30,14	€ 30,14	VELCRO®	Bol.	https://www.bol.com/nl/nl/p/velcro-one-wrap-klittenband-16-mmbreed-25-meter-groen/9300000153121278/?bltgh=tbfy4p0C-	Verification	No
											8F07NQBY1NJgA.vgMjvkOP71cz6q4sw1xLYA_0_4.26.ProductTitle		
						All pa		€ 184,41					

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