

Line Check Sheet for Paragliders

Piece Check

Glider Type: XD89 MERU L (LTF/EN D)	Serial No.:
Rev. No.: 5	Date: 21.06.2021 (updated)

Line lengths [mm]

R. No.	Area A										Area B										Area C												
	Nom.	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	Nom.	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	Nom.	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm
3	7649										7613											7585											
6	7533										7496												7470										
9	7496										7459												7435										
12	7536										7503												7490										
16	7426										7394												7375										
19	7301										7275												7249										
22	7242										7219												7193										
25	7260										7244												7218										
29	7035										7012												7047										
32	6921																						6937										
35	6863																						6882										
37	6876																						6891										
40	6708										6698												6723										
41	6694																						6711										
42	6691																						6722										

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area D										Brake										rib no. brakes		
	Nom.	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	Nom.	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm		+10 mm	+20 mm
3	7663										8296												3
6	7556										8048												7
9	7525										7931												10-11
12	7571										7931												13
16	7474										7818												17-18
19	7342										7637												20-21
22	7277										7564												24
25	7287										7643												27
29											7450												30-31
32											7425												33-34
35											7475												37
37											7609												40
40																							
41																							
42																							

brakes measured inkl. 10cm-loop

Loops on Quick link		Loop Index MTS
Factory setting		
A1	--	0
A2	--	0
A3	--	0
B1	--	0
B2	--	0
B3	--	0
C1	Round turn *	1
C2	Round turn *	1
C3	Round turn *	1
STI	Round turn *	1

* additional loop only when using rev 5 line set (Aramid 8000U lines on Cmain1/2.)

Single Line Lengths

Glider Type: XD89 MERU L (LTF/EN D)
Rev. No.: 5

Serial No.:
Date: 21.06.2021 (updated)

Line no.	Quantity	Length [mm]	material	colour
a1	2	297	DC 100	Red
a2	2	281	DC 60	Red
a3	2	261	DC 60	Red
a4	2	259	DC 60	Red
a5	2	278	DC 60	Red
a6	2	259	DC 60	Red
a7	2	267	DC 60	Red
a8	2	247	DC 60	Red
a9	2	336	DC 60	Red
a10	2	772	8000U-070	Red
a11	2	559	8000U-050	Red
a12	2	572	8000U-050	Red
a13	2	219	DC 35	Orange
a14	2	205	DC 35	Orange
a15	2	347	DC 35	Orange
A1	2	1239	DC 161	Red
A2	2	1139	DC 120	Red
A3	2	1122	DC 120	Red
A4	2	1164	DC 120	Red
A5	2	932	DC 120	Red
A6	2	826	DC 100	Red
A7	2	759	DC 100	Red
A8	2	797	DC 100	Red
A9	2	550	DC 100	Red
AVI	2	907	8000U-090	Red
AI	2	1287	DC 200	Red
AII	2	1287	DC 201	Red
AIII	2	1184	DC 201	Red
AIV	2	1184	DC 161	Red
AV	2	752	DC 120	Red
Amain1	2	4841	DC 300	Red
Amain2	2	5047	DC 200	Red
Amain3	2	5407	DC 161	Red
b1	2	261	DC 100	Red
b2	2	244	DC 60	Red
b3	2	224	DC 60	Red
b4	2	226	DC 60	Red
b5	2	246	DC 60	Red
b6	2	233	DC 60	Red
b7	2	244	DC 60	Red
b8	2	231	DC 60	Red
b9	2	313	DC 60	Red
b10	2	209	DC 35	Orange
ST1		536	8000U-050	Red
ST2		536	8000U-050	Red
ST3		391	8000U-050	Red
STI		5963	8000U-070	Grey

Line no.	Quantity	Length [mm]	material	colour
c1	2	770	8000U-090	Red
c2	2	656	8000U-070	Red
c3	2	569	8000U-070	Red
c4	2	621	8000U-070	Red
c5	2	436	8000U-070	Red
c6	2	410	8000U-050	Red
c7	2	418	8000U-050	Red
c8	2	446	8000U-050	Red
c9	2	868	8000U-050	Red
c10	2	758	8000U-050	Red
c11	2	548	8000U-050	Red
c12	2	557	8000U-050	Red
c13	2	234	DC 35	Orange
c14		222	DC 35	Orange
c15	2	378	DC 35	Orange
		0		
C1	2	918	8000U-130	Red
C2	2	917	8000U-090	Red
C3	2	969	8000U-090	Red
C4	2	972	8000U-090	Red
C5		887	8000U-090	Red
C6	2	787	8000U-070	Red
C7	2	723	8000U-070	Red
C8	2	720	8000U-070	Red
CV	2	772	8000U-090	Red
CVI	2	927	8000U-050	Red
		0		
CI	2	1061	DC 120	Red
CII	2	1061	DC 100	Red
CIII	2	1010	DC 100	Red
CIV	2	1010	DC 100	Red
Cmain3	2	5417	8000U-130	Red
		0		
Cmain1	2	4851	8000U-230	Red
Cmain2	2	5057	8000U-190	Red
Cmain1	2	4841	DC201	Red
Cmain2	2	5047	DC161	Red
<i>If you use the DC lines (rev.4) on you glider, there is no additional loop on the mailon. The loop is only necessary for rev. 5.</i>				
d1	2	848	8000U-070	Red
d2	2	742	8000U-050	Red
d3	2	659	8000U-050	Red
d4	2	702	8000U-050	Red
d5	2	535	8000U-050	Red
d6	2	503	8000U-050	Red
d7	2	502	8000U-050	Red
d8	2	515	8000U-050	Red

Brake no.	Quantity	Length [mm]	material	colour
br1	2	1037	DC 35	Orange
br2	2	789	DC 35	Orange
br3	2	671	DC 35	Orange
br4	2	671	DC 35	Orange
br5	2	671	DC 35	Orange
br6	2	490	DC 35	Orange
br7	2	363	DC 35	Orange
br8	2	442	DC 35	Orange
br9	2	416	DC 35	Orange
br10	2	391	DC 35	Orange
br11	2	371	DC 35	Orange
br12	2	505	DC 35	Orange
BR1	2	1298	8000U-050	Red
BR2	2	1299	8000U-050	Red
BR3	2	1041	8000U-050	Red
BR4	2	1095	8000U-050	Red
BR5	2	872	8000U-050	Red
BR6	2	942	8000U-050	Red
BR1	2	4635	8000U-090	Red
BRIII	2	2416	8000U-090	Red
BRIV	2	2472	8000U-070	Red
BRII	2	2369	8000U-130	Red
brmain	2	1236	7950-150	41 Citro y

Line material:

- Liros DC 300
- Liros DC 201
- Liros DC 200
- Liros DC 161
- Liros DC 120
- Liros DC 100
- Liros DC 60
- Liros DC 35
- Edelrid 8000U-230
- Edelrid 8000U-190
- Edelrid 8000U-130
- Edelrid 8000U-090
- Edelrid 8000U-070
- Edelrid 8000U-050
- Edelrid 7950-150

OPTIONAL (rev.4)
OPTIONAL (rev.4)

total length	no. of lines
245552	212

Line Check Sheet for Paragliders

Piece Check

Glider Type: XD89 MERU M (LTF/EN D)	Serial No.:
Rev. No.: 5	Date: 21.06.2021 (updated)

Line lengths [mm]

R. No.	Area A										Area B										Area C												
	Nom.	Left			Right				Nom.	Left			Right				Nom.	Left			Right												
		-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm
3	7412											7377												7338									
6	7299											7263												7225									
9	7261											7225												7191									
12	7301											7268												7245									
16	7192											7160												7133									
19	7070											7045												7009									
22	7013											6990												6955									
25	7030											7015												6979									
29	6810											6788												6814									
32	6701																							6707									
35	6646																							6654									
37	6661																							6664									
40	6484											6474												6498									
41	6471																							6488									
42	6468																							6499									

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area D										Brake										rib no. brakes		
	Nom.	Left			Right				Nom.	Left			Right										
		-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm	-20 mm	-10 mm	0 mm	+10 mm	+20 mm	
3	7415											8053											3
6	7309											7810											7
9	7279											7695											10-11
12	7324											7693											13
16	7228											7588											17-18
19	7099											7411											20-21
22	7036											7340											24
25	7046											7417											27
29												7229											30-31
32												7205											33-34
35												7251											37
37												7380											40
40																							
41																							
42																							

brakes measured inkl. 10cm-loop

Loops on Quick link		Loop Index MTS
Factory setting		
A1	--	0
A2	--	0
A3	--	0
B1	--	0
B2	--	0
B3	--	0
C1	Round turn *	1
C2	Round turn *	1
C3	Round turn *	1
STI	Round turn *	1

* additional loop only when using rev 5 line set (Aramid 8000U lines on Cmain1/2.)

Single Line Lengths

Glider Type: XD89 MERU M (LTF/EN D)
Rev. No.: 5

Serial No.:
Date: 21.06.2021 (updated)

Line no.	Quantity	Length [mm]	material	colour
a1	2	289	DC 100	Red
a2	2	273	DC 60	Red
a3	2	254	DC 60	Red
a4	2	252	DC 60	Red
a5	2	271	DC 60	Red
a6	2	251	DC 60	Red
a7	2	260	DC 60	Red
a8	2	240	DC 60	Red
a9	2	290	DC 60	Red
a10	2	731	8000U-070	Red
a11	2	526	8000U-050	Red
a12	2	541	8000U-050	Red
a13	2	194	DC 35	Orange
a14	2	181	DC 35	Orange
a15	2	318	DC 35	Orange
A1	2	1188	DC 161	Red
A2	2	1091	DC 120	Red
A3	2	1072	DC 120	Red
A4	2	1114	DC 120	Red
A5	2	886	DC 120	Red
A6	2	784	DC 100	Red
A7	2	718	DC 100	Red
A8	2	755	DC 100	Red
A9	2	550	DC 100	Red
AVI	2	880	8000U-090	Red
AI	2	1250	DC 200	Red
AII	2	1250	DC 201	Red
AIII	2	1150	DC 201	Red
AIV	2	1150	DC 161	Red
AV	2	730	DC 120	Red
Amain1	2	4700	DC 300	Red
Amain2	2	4900	DC 200	Red
Amain3	2	5250	DC 161	Red
b1	2	254	DC 100	Red
b2	2	237	DC 60	Red
b3	2	218	DC 60	Red
b4	2	219	DC 60	Red
b5	2	239	DC 60	Red
b6	2	226	DC 60	Red
b7	2	237	DC 60	Red
b8	2	225,0	DC 60	Red
b9	2	268,0	DC 60	Red
b10	2	184	DC 35	Orange
ST1		520	8000U-050	Red
ST2		520	8000U-050	Red
ST3		380	8000U-050	Red
		0		
STI		5790	8000U-070	Grey

Line no.	Quantity	Length [mm]	material	colour
c1	2	748	8000U-090	Red
c2	2	636	8000U-070	Red
c3	2	552	8000U-070	Red
c4	2	603	8000U-070	Red
c5	2	425	8000U-070	Red
c6	2	398	8000U-050	Red
c7	2	406	8000U-050	Red
c8	2	433	8000U-050	Red
c9	2	824	8000U-050	Red
c10	2	717	8000U-050	Red
c11	2	514	8000U-050	Red
c12	2	524	8000U-050	Red
c13	2	208	DC 35	Orange
c14		198	DC 35	Orange
c15	2	349	DC 35	Orange
C1	2	875	8000U-130	Red
C2	2	874	8000U-090	Red
C3	2	924	8000U-090	Red
C4	2	927	8000U-090	Red
C5		843	8000U-090	Red
C6	2	746	8000U-070	Red
C7	2	684	8000U-070	Red
C8	2	681	8000U-070	Red
CV	2	750	8000U-090	Red
CVI	2	900	8000U-050	Red
CI	2	1030	DC 120	Red
CII	2	1030	DC 100	Red
CIII	2	980	DC 100	Red
CIV	2	980	DC 100	Red
Cmain3	2	5260	8000U-130	Red
Cmain1	2	4710	8000U-230	Red
Cmain2	2	4910	8000U-190	Red
Cmain1	2	4700	DC201	Red
Cmain2	2	4900	DC161	Red
<i>If you use the DC lines (rev.4) on you glider, there is no additional loop on the mailon. The loop is only necessary for rev. 5.</i>				
d1	2	825	8000U-070	Red
d2	2	720	8000U-050	Red
d3	2	640	8000U-050	Red
d4	2	682	8000U-050	Red
d5	2	520	8000U-050	Red
d6	2	488	8000U-050	Red
d7	2	487	8000U-050	Red
d8	2	500	8000U-050	Red

Brake no.	Quantity	Length [mm]	material	colour
br1	2	1007	DC 35	Orange
br2	2	764	DC 35	Orange
br3	2	649	DC 35	Orange
br4	2	647	DC 35	Orange
br5	2	648	DC 35	Orange
br6	2	471	DC 35	Orange
br7	2	347	DC 35	Orange
br8	2	424	DC 35	Orange
br9	2	397	DC 35	Orange
br10	2	373	DC 35	Orange
br11	2	352	DC 35	Orange
br12	2	481	DC 35	Orange
BR1	2	1261	8000U-050	Red
BR2	2	1261	8000U-050	Red
BR3	2	1010	8000U-050	Red
BR4	2	1063	8000U-050	Red
BR5	2	847	8000U-050	Red
BR6	2	914	8000U-050	Red
BR1	2	4500	8000U-090	Red
BR111	2	2345	8000U-090	Red
BR1111	2	2400	8000U-070	Red
BR11	2	2300	8000U-130	Red
brmain	2	1200	7950-150	41 Citro y

Line material:

- Liros DC 300
- Liros DC 201
- Liros DC 200
- Liros DC 161
- Liros DC 120
- Liros DC 100
- Liros DC 60
- Liros DC 35
- Edelrid 8000U-230
- Edelrid 8000U-190
- Edelrid 8000U-130
- Edelrid 8000U-090
- Edelrid 8000U-070
- Edelrid 8000U-050
- Edelrid 7950-150

OPTIONAL (rev.4)
OPTIONAL (rev.4)

total length	no. of lines
237136	212

Line Check Sheet for Paragliders

Piece Check

Glider Type: XD89 MERU SM (LTF/EN D)	Serial No.:
Rev. No.: 5	Date: 21.06.2021 (updated)

Line lengths [mm]

R. No.	Area																
	A					B					C						
	Nom.	Left		Right		Nom.	Left		Right		Nom.	Left		Right			
	-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm
3	7173					7139						7099					
6	7062					7027						6990					
9	7024					6990						6956					
12	7063					7031						7008					
16	6958					6927						6900					
19	6839					6815						6780					
22	6783					6761						6727					
25	6800					6785						6750					
29	6583					6561						6590					
32	6480											6487					
35	6427											6435					
37	6443											6444					
40	6268					6258						6281					
41	6256											6272					
42	6253											6283					

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area															rib no. brakes	
	D					Brake											
	Nom.	Left		Right		Nom.	Left		Right								
	-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm		-20 mm	-10 mm	0 mm	+10 mm	+20 mm
3	7173					7799						3					
6	7070					7563						7					
9	7041					7451						10-11					
12	7084					7447						13					
16	6992					7342						17-18					
19	6867					7168						20-21					
22	6805					7099						24					
25	6814					7172						27					
29						6989						30-31					
32						6965						33-34					
35						7008						37					
37						7132						40					
40																	
41																	
42																	

brakes measured inkl. 10cm-loop

Loops on Quick link		Loop Index MTS
Factory setting		
A1	--	0
A2	--	0
A3	--	0
B1	--	0
B2	--	0
B3	--	0
C1	Round turn *	1
C2	Round turn *	1
C3	Round turn *	1
STI	Round turn *	1

* additional loop only when using rev 5 line set (Aramid 8000U lines on Cmain1/2.)

Single Line Lengths

Glider Type: XD89 MERU SM (LTF/EN D)
Rev. No.: 5

Serial No.:
Date: 21.06.2021 (updated)

Line no.	Quantity	Length [mm]	material	colour
a1	2	280	DC 100	Red
a2	2	264	DC 60	Red
a3	2	245	DC 60	Red
a4	2	244	DC 60	Red
a5	2	262	DC 60	Red
a6	2	243	DC 60	Red
a7	2	251	DC 60	Red
a8	2	232	DC 60	Red
a9	2	258	DC 60	Red
a10	2	705	8000U-070	Red
a11	2	507	8000U-050	Red
a12	2	523	8000U-050	Red
a13	2	183	DC 35	Orange
a14	2	171	DC 35	Orange
a15	2	303	DC 35	Orange
A1	2	1152	DC 161	Red
A2	2	1057	DC 120	Red
A3	2	1038	DC 120	Red
A4	2	1078	DC 120	Red
A5	2	857	DC 120	Red
A6	2	757	DC 100	Red
A7	2	693	DC 100	Red
A8	2	729	DC 100	Red
A9	2	550	DC 100	Red
AVI	2	851	8000U-090	Red
AI	2	1209	DC 200	Red
AII	2	1209	DC 201	Red
AIII	2	1113	DC 201	Red
AIV	2	1113	DC 161	Red
AV	2	706	DC 120	Red
Amain1	2	4547	DC 300	Red
Amain2	2	4741	DC 200	Red
Amain3	2	5079	DC 161	Red
b1	2	246	DC 100	Red
b2	2	229	DC 60	Red
b3	2	211	DC 60	Red
b4	2	212	DC 60	Red
b5	2	231	DC 60	Red
b6	2	219	DC 60	Red
b7	2	229	DC 60	Red
b8	2	217	DC 60	Red
b9	2	236	DC 60	Red
b10	2	173	DC 35	Orange
ST1	2	503	8000U-050	Red
ST2	2	503	8000U-050	Red
ST3	2	368	8000U-050	Red
STI	2	5602	8000U-070	Grey

Line no.	Quantity	Length [mm]	material	colour
c1	2	724	8000U-090	Red
c2	2	616	8000U-070	Red
c3	2	534	8000U-070	Red
c4	2	583	8000U-070	Red
c5	2	411	8000U-070	Red
c6	2	385	8000U-050	Red
c7	2	393	8000U-050	Red
c8	2	419	8000U-050	Red
c9	2	795	8000U-050	Red
c10	2	692	8000U-050	Red
c11	2	495	8000U-050	Red
c12	2	504	8000U-050	Red
c13	2	196	DC 35	Orange
c14		187	DC 35	Orange
c15	2	333	DC 35	Orange
		0		
C1	2	847	8000U-130	Red
C2	2	846	8000U-090	Red
C3	2	894	8000U-090	Red
C4	2	897	8000U-090	Red
C5		815	8000U-090	Red
C6	2	721	8000U-070	Red
C7	2	660	8000U-070	Red
C8	2	657	8000U-070	Red
CV	2	726	8000U-090	Red
CVI	2	871	8000U-050	Red
		0		
CI	2	996	DC 120	Red
CII	2	996	DC 100	Red
CIII	2	948	DC 100	Red
CIV	2	948	DC 100	Red
Cmain3	2	5089	8000U-130	Red
		0		
Cmain1	2	4557	8000U-230	Red
Cmain2	2	4751	8000U-190	Red
Cmain1	2	4557	DC201	Red
Cmain2	2	4751	DC161	Red
<i>If you use the DC lines (rev.4) on you glider, there is no additional loop on the mailon. The loop is only necessary for rev. 5.</i>				
d1	2	798	8000U-070	Red
d2	2	696	8000U-050	Red
d3	2	619	8000U-050	Red
d4	2	659	8000U-050	Red
d5	2	503	8000U-050	Red
d6	2	472	8000U-050	Red
d7	2	471	8000U-050	Red
d8	2	483	8000U-050	Red

Brake no.	Quantity	Length [mm]	material	colour
br1	2	974	DC 35	Orange
br2	2	738	DC 35	Orange
br3	2	626	DC 35	Orange
br4	2	622	DC 35	Orange
br5	2	624	DC 35	Orange
br6	2	450	DC 35	Orange
br7	2	330	DC 35	Orange
br8	2	403	DC 35	Orange
br9	2	377	DC 35	Orange
br10	2	353	DC 35	Orange
br11	2	331	DC 35	Orange
br12	2	455	DC 35	Orange
		0		
BR1	2	1220	8000U-050	Red
BR2	2	1220	8000U-050	Red
BR3	2	978	8000U-050	Red
BR4	2	1029	8000U-050	Red
BR5	2	819	8000U-050	Red
BR6	2	884	8000U-050	Red
		0		
BR1	2	4354	8000U-090	Red
BRIII	2	2269	8000U-090	Red
BRIV	2	2322	8000U-070	Red
		0		
BRII	2	2225	8000U-130	Red
		0		
brmain	2	1161	7950-150	41 Citro y

Line material:

- Liros DC 300
- Liros DC 201
- Liros DC 200
- Liros DC 161
- Liros DC 120
- Liros DC 100
- Liros DC 60
- Liros DC 35
- Edelrid 8000U-230
- Edelrid 8000U-190
- Edelrid 8000U-130
- Edelrid 8000U-090
- Edelrid 8000U-070
- Edelrid 8000U-050
- Edelrid 7950-150

OPTIONAL (rev.4)
OPTIONAL (rev.4)

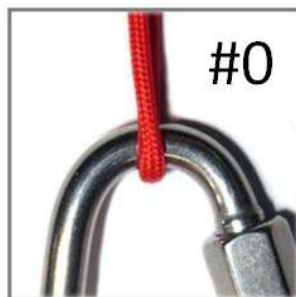
total length	no. of lines
229176	220

Austausch der MERU Leinen Cmain1 und Cmain2

Hallo liebe Pilotin, lieber Pilot

Wunschgemäß stellen wir dir die Cmain1 und Cmain2- Leine für deinen UP Meru zum Austausch zur Verfügung. Beim Austausch der Leinen auf der linken und rechten Seite ist bei Wechsel von der Dyneema- auf die Aramidbeileinung auf dem Leinenschloss an der Cmain1 und Cmain2 ein Trimmloop gemäß der Darstellung zu platzieren.

Bei Fragen hierzu kannst du uns gerne kontaktieren. Wir wünschen dir viele gute Flüge mit deinem UP Meru!



BISHERIGE LEINE Cmain1 und
Cmain2 : KEIN LOOP



NEUE LEINE Cmain1 und
Cmain2: EIN TRIMMLOOP

Replacement of the MERU lines Cmain1 and Cmain2

Dear pilot,

As requested, we provide you with the Cmain1 and Cmain2 line for your UP Meru for replacement. When replacing the lines on the left and right side, a trim loop must be placed on Cmain1 and Cmain2 according to the picture when changing from the Dyneema to the aramid lines on the quicklink.

If you have any questions feel free to contact us. We wish you many good flights with your UP Meru!



FORMER LINE Cmain1 and
Cmain2 HAS NO LOOP



NEW LINE Cmain1 und
Cmain2 NEEDS ONE LOOP