Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 L (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C									
		Left					Right						Left					Right						Left					Right				
	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
2	7525											7483											7515									
5	7477											7432											7465									
8	7453											7401											7436									
11	7416											7364											7389									
14	7357											7318											7348									
16	7238											7202											7230									
18	7135											7101											7121									
19	7120											7085											7099									
21	6817											6774											6829									
22	6690																																
24	6588											6602											6702									

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
		Left					Right						Left					Right					
	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	
2	7648											8467											**3**
5	7596											8120											**5**
8	7560											7964											**8**
11	7497											7813											**10**
14	7453											7659											**12**
												7657											**14**
												7514											**17**
												7396											**19**
												7386											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 L (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	2335	6480D-130	Yellow
a2	2	2287	6480D-130	Yellow
a3	2	2263	6480D-130	Yellow
a4	2	2226	6480D-130	Yellow
a5	2	912	6480D-090	Yellow
a6	2	793	6480D-090	Yellow
a7	2	374	6480D-090	Yellow
a8	2	359	6480D-090	Yellow
a9	2	1268	6480D-090	Yellow
a10	2	1141	6480D-090	Yellow
b1	2	2293	6480D-130	Yellow
b2	2	2242	6480D-130	Yellow
b3	2	2211	6480D-130	Yellow
b4	2	2174	6480D-130	Yellow
b5	2	901	6480D-090	Yellow
b6	2	785	6480D-090	Yellow
b7	2	364	6480D-090	Yellow
b8	2	348	6480D-090	Yellow
b9	2	1225	6480D-090	Yellow
c1	2	2330	6480D-090	Yellow
c2	2	2280	6480D-090	Yellow
c3	2	2251	6480D-090	Yellow
c4	2	2204	6480D-090	Yellow
c5	2	894	6480D-090	Yellow
c6	2	776	6480D-090	Yellow
c7	2	356	6480D-090	Yellow
c8	2	334	6480D-090	Yellow
c9	2	1280	6480D-090	Yellow
d1	2	2463	6480D-090	Yellow
d2	2	2411	6480D-090	Yellow
d3	2	2375	6480D-090	Yellow
d4	2	2312	6480D-090	Yellow
d5	2	999	6480D-090	Yellow
st1	2	1039	6480D-090	Yellow
st2	2	1053	6480D-090	Yellow
st3	2	1153	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	1260	6480D-130	Yellow
A2	2	1576	6480D-090	Yellow
B1	2	1233	6480D-130	Yellow
B2	2	1552	6480D-090	Yellow
C1	2	1274	6480D-130	Yellow
C2	2	1585	6480D-090	Yellow
AI	2	5200	7950-200	Red
AII	2	5200	7950-200	Red
AIII	2	5200	7950-150	Green
BI	2	5200	7950-200	Blue
BII	2	5200	7950-200	Blue
BIII	2	5200	7950-150	Blue
CI	2	5200	7950-200	Yellow
CII	2	5200	7950-200	Yellow
CIII	2	5200	7950-150	Yellow
STI	2	5564	7950-100	Fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2396	989/1,1	Pink
br2	2	2049	989/1,1	Pink
br3	2	1893	989/1,1	Pink
br4	2	1742	989/1,1	Pink
br5	2	1588	989/1,1	Pink
br6	2	1586	989/1,1	Pink
br7	2	1443	989/1,1	Pink
br8	2	1325	989/1,1	Pink
br9	2	1315	989/1,1	Pink
BR1	2	3120	989/1,3	Pink
BR2	2	3120	989/1,3	Pink
BR3	2	3120	989/1,3	Pink
Brmain	2	2866	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	**no. of lines**
282836	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com

Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 M (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C									
		Left					Right						Left					Right						Left					Right				
	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
2	7227											7188											7214									
5	7177											7137											7163									
8	7152											7106											7134									
11	7114											7069											7089									
14	7053											7012											7040									
16	6938											6900											6926									
18	6838											6804											6822									
19	6825											6790											6802									
21	6531											6489											6543									
22	6408																																
24	6310											6324											6423									

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
		Left					Right						Left					Right					
	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	
2	7341											8138											**3**
5	7289											7803											**5**
8	7253											7650											**8**
11	7192											7506											**10**
14	7141											7357											**12**
												7354											**14**
												7215											**17**
												7101											**19**
												7091											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 M (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	2237	6480D-130	Yellow
a2	2	2187	6480D-130	Yellow
a3	2	2162	6480D-130	Yellow
a4	2	2124	6480D-130	Yellow
a5	2	881	6480D-090	Yellow
a6	2	766	6480D-090	Yellow
a7	2	361	6480D-090	Yellow
a8	2	348	6480D-090	Yellow
a9	2	1196	6480D-090	Yellow
a10	2	1073	6480D-090	Yellow
b1	2	2198	6480D-130	Yellow
b2	2	2147	6480D-130	Yellow
b3	2	2116	6480D-130	Yellow
b4	2	2079	6480D-130	Yellow
b5	2	867	6480D-090	Yellow
b6	2	754	6480D-090	Yellow
b7	2	350	6480D-090	Yellow
b8	2	336	6480D-090	Yellow
b9	2	1154	6480D-090	Yellow
c1	2	2229	6480D-090	Yellow
c2	2	2178	6480D-090	Yellow
c3	2	2149	6480D-090	Yellow
c4	2	2104	6480D-090	Yellow
c5	2	859	6480D-090	Yellow
c6	2	746	6480D-090	Yellow
c7	2	341	6480D-090	Yellow
c8	2	321	6480D-090	Yellow
c9	2	1208	6480D-090	Yellow
d1	2	2356	6480D-090	Yellow
d2	2	2304	6480D-090	Yellow
d3	2	2268	6480D-090	Yellow
d4	2	2207	6480D-090	Yellow
d5	2	960	6480D-090	Yellow
st1	2	975	6480D-090	Yellow
st2	2	989	6480D-090	Yellow
st3	2	1088	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	1187	6480D-130	Yellow
A2	2	1492	6480D-090	Yellow
B1	2	1161	6480D-130	Yellow
B2	2	1469	6480D-090	Yellow
C1	2	1200	6480D-130	Yellow
C2	2	1500	6480D-090	Yellow
AI	2	5000	7950-200	Red
AII	2	5000	7950-200	Red
AIII	2	5000	7950-150	Green
BI	2	5000	7950-200	Blue
BII	2	5000	7950-200	Blue
BIII	2	5000	7950-150	Blue
CI	2	5000	7950-200	Yellow
CII	2	5000	7950-200	Yellow
CIII	2	5000	7950-150	Yellow
STI	2	5350	7950-100	Fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2303	989/1,1	Pink
br2	2	1968	989/1,1	Pink
br3	2	1815	989/1,1	Pink
br4	2	1671	989/1,1	Pink
br5	2	1522	989/1,1	Pink
br6	2	1519	989/1,1	Pink
br7	2	1380	989/1,1	Pink
br8	2	1266	989/1,1	Pink
br9	2	1256	989/1,1	Pink
BR1	2	3000	989/1,3	Pink
BR2	2	3000	989/1,3	Pink
BR3	2	3000	989/1,3	Pink
Brmain	2	2750	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	**no. of lines**
270854	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com

Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 S (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C										
		Left					Right						Left					Right						Left					Right				
	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
2	6644											6608											6630										
5	6596											6559											6582										
8	6572											6528											6553										
11	6535											6493											6519										
14	6477											6439											6463										
16	6369											6334											6357										
18	6277											6245											6260										
19	6266											6232											6242										
21	5994											5956											6005										
22	5880																																
24	5789											5802											5894										

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
		Left					Right						Left					Right					
	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	
2	6745											7478											**3**
5	6696											7168											**5**
8	6660											7023											**8**
11	6602											6889											**10**
14	6553											6748											**12**
												6748											**14**
												6618											**17**
												6510											**19**
												6502											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 S (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	2054	6480D-130	Yellow
a2	2	2006	6480D-130	Yellow
a3	2	1982	6480D-130	Yellow
a4	2	1945	6480D-130	Yellow
a5	2	811	6480D-090	Yellow
a6	2	704	6480D-090	Yellow
a7	2	333	6480D-090	Yellow
a8	2	321	6480D-090	Yellow
a9	2	1087	6480D-090	Yellow
a10	2	973	6480D-090	Yellow
b1	2	2018	6480D-130	Yellow
b2	2	1969	6480D-130	Yellow
b3	2	1938	6480D-130	Yellow
b4	2	1903	6480D-130	Yellow
b5	2	798	6480D-090	Yellow
b6	2	693	6480D-090	Yellow
b7	2	321	6480D-090	Yellow
b8	2	308	6480D-090	Yellow
b9	2	1049	6480D-090	Yellow
c1	2	2045	6480D-090	Yellow
c2	2	1997	6480D-090	Yellow
c3	2	1968	6480D-090	Yellow
c4	2	1924	6480D-090	Yellow
c5	2	790	6480D-090	Yellow
c6	2	684	6480D-090	Yellow
c7	2	312	6480D-090	Yellow
c8	2	294	6480D-090	Yellow
c9	2		6480D-090	Yellow
d1	2	2160	6480D-090	Yellow
d2	2	2111	6480D-090	Yellow
d3	2	2075	6480D-090	Yellow
d4	2	2017	6480D-090	Yellow
d5	2	881	6480D-090	Yellow
st1	2	882	6480D-090	Yellow
st2	2	895	6480D-090	Yellow
st3	2	987	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	1080	6480D-130	Yellow
A2	2	1360	6480D-090	Yellow
B1	2	1056	6480D-130	Yellow
B2	2	1339	6480D-090	Yellow
C1	2	1093	6480D-130	Yellow
C2	2	1368	6480D-090	Yellow
AI	2	4600	7950-200	Red
AII	2	4600	7950-200	Red
AIII	2	4600	7950-150	Green
BI	2	4600	7950-200	Blue
BII	2	4600	7950-200	Blue
BIII	2	4600	7950-150	Blue
CI	2	4600	7950-200	Yellow
CII	2	4600	7950-200	Yellow
CIII	2	4600	7950-150	Yellow
STI	2	4922	7950-100	fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2115	989/1,1	Pink
br2	2	1805	989/1,1	Pink
br3	2	1660	989/1,1	Pink
br4	2	1526	989/1,1	Pink
br5	2	1385	989/1,1	Pink
br6	2	1385	989/1,1	Pink
br7	2	1255	989/1,1	Pink
br8	2	1147	989/1,1	Pink
br9	2	1139	989/1,1	Pink
BR1	2	2760	989/1,3	Pink
BR2	2	2760	989/1,3	Pink
BR3	2	2760	989/1,3	Pink
Brmain	2	2518	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	no. of lines
246136	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com

Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 S (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C										
		Left					Right						Left					Right						Left					Right				
	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
2	6644											6608											6630										
5	6596											6559											6582										
8	6572											6528											6553										
11	6535											6493											6519										
14	6477											6439											6463										
16	6369											6334											6357										
18	6277											6245											6260										
19	6266											6232											6242										
21	5994											5956											6005										
22	5880																																
24	5789											5802											5894										

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
		Left					Right						Left					Right					
	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	
2	6745											7478											**3**
5	6696											7168											**5**
8	6660											7023											**8**
11	6602											6889											**10**
14	6553											6748											**12**
												6748											**14**
												6618											**17**
												6510											**19**
												6502											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 S (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	2054	6480D-130	Yellow
a2	2	2006	6480D-130	Yellow
a3	2	1982	6480D-130	Yellow
a4	2	1945	6480D-130	Yellow
a5	2	811	6480D-090	Yellow
a6	2	704	6480D-090	Yellow
a7	2	333	6480D-090	Yellow
a8	2	321	6480D-090	Yellow
a9	2	1087	6480D-090	Yellow
a10	2	973	6480D-090	Yellow
b1	2	2018	6480D-130	Yellow
b2	2	1969	6480D-130	Yellow
b3	2	1938	6480D-130	Yellow
b4	2	1903	6480D-130	Yellow
b5	2	798	6480D-090	Yellow
b6	2	693	6480D-090	Yellow
b7	2	321	6480D-090	Yellow
b8	2	308	6480D-090	Yellow
b9	2	1049	6480D-090	Yellow
c1	2	2045	6480D-090	Yellow
c2	2	1997	6480D-090	Yellow
c3	2	1968	6480D-090	Yellow
c4	2	1924	6480D-090	Yellow
c5	2	790	6480D-090	Yellow
c6	2	684	6480D-090	Yellow
c7	2	312	6480D-090	Yellow
c8	2	294	6480D-090	Yellow
c9	2		6480D-090	Yellow
d1	2	2160	6480D-090	Yellow
d2	2	2111	6480D-090	Yellow
d3	2	2075	6480D-090	Yellow
d4	2	2017	6480D-090	Yellow
d5	2	881	6480D-090	Yellow
st1	2	882	6480D-090	Yellow
st2	2	895	6480D-090	Yellow
st3	2	987	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	1080	6480D-130	Yellow
A2	2	1360	6480D-090	Yellow
B1	2	1056	6480D-130	Yellow
B2	2	1339	6480D-090	Yellow
C1	2	1093	6480D-130	Yellow
C2	2	1368	6480D-090	Yellow
AI	2	4600	7950-200	Red
AII	2	4600	7950-200	Red
AIII	2	4600	7950-150	Green
BI	2	4600	7950-200	Blue
BII	2	4600	7950-200	Blue
BIII	2	4600	7950-150	Blue
CI	2	4600	7950-200	Yellow
CII	2	4600	7950-200	Yellow
CIII	2	4600	7950-150	Yellow
STI	2	4922	7950-100	fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2115	989/1,1	Pink
br2	2	1805	989/1,1	Pink
br3	2	1660	989/1,1	Pink
br4	2	1526	989/1,1	Pink
br5	2	1385	989/1,1	Pink
br6	2	1385	989/1,1	Pink
br7	2	1255	989/1,1	Pink
br8	2	1147	989/1,1	Pink
br9	2	1139	989/1,1	Pink
BR1	2	2760	989/1,3	Pink
BR2	2	2760	989/1,3	Pink
BR3	2	2760	989/1,3	Pink
Brmain	2	2518	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	no. of lines
246136	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com

Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 SM (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C									
		Left					Right						Left					Right						Left					Right				
	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
2	6952											6926											6960									
5	6906											6877											6911									
8	6883											6846											6882									
11	6847											6811											6838									
14	6796											6760											6790									
16	6685											6651											6681									
18	6589											6557											6579									
19	6575											6543											6559									
21	6295											6255											6306									
22	6177																																
24	6082											6094											6188									

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
		Left					Right						Left					Right					
	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	
2	7080											7725											**3**
5	7030											7401											**5**
8	6995											7251											**8**
11	6935											7113											**10**
14	6886											6969											**12**
												6966											**14**
												6831											**17**
												6720											**19**
												6711											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 SM (EN B)	Serial No.:
Rev. No.: 6	Date: 24.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	2164	6480D-130	Yellow
a2	2	2116	6480D-130	Yellow
a3	2	2092	6480D-130	Yellow
a4	2	2054	6480D-130	Yellow
a5	2	846	6480D-090	Yellow
a6	2	735	6480D-090	Yellow
a7	2	347	6480D-090	Yellow
a8	2	334	6480D-090	Yellow
a9	2	1159	6480D-090	Yellow
a10	2	1041	6480D-090	Yellow
b1	2	2126	6480D-130	Yellow
b2	2	2077	6480D-130	Yellow
b3	2	2046	6480D-130	Yellow
b4	2	2011	6480D-130	Yellow
b5	2	832	6480D-090	Yellow
b6	2	723	6480D-090	Yellow
b7	2	336	6480D-090	Yellow
b8	2	321	6480D-090	Yellow
b9	2	1119	6480D-090	Yellow
c1	2	2156	6480D-090	Yellow
c2	2	2107	6480D-090	Yellow
c3	2	2078	6480D-090	Yellow
c4	2	2034	6480D-090	Yellow
c5	2	824	6480D-090	Yellow
c6	2	715	6480D-090	Yellow
c7	2	327	6480D-090	Yellow
c8	2	307	6480D-090	Yellow
c9	2	1170	6480D-090	Yellow
d1	2	2276	6480D-090	Yellow
d2	2	2226	6480D-090	Yellow
d3	2	2191	6480D-090	Yellow
d4	2	2131	6480D-090	Yellow
d5	2	920	6480D-090	Yellow
st1	2	946	6480D-090	Yellow
st2	2	958	6480D-090	Yellow
st3	2	1052	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	1153	6480D-130	Yellow
A2	2	1444	6480D-090	Yellow
B1	2	1128	6480D-130	Yellow
B2	2	1422	6480D-090	Yellow
C1	2	1166	6480D-130	Yellow
C2	2	1452	6480D-090	Yellow
AI	2	4800	7950-200	Red
AII	2	4800	7950-200	Red
AIII	2	4800	7950-150	Green
BI	2	4800	7950-200	Blue
BII	2	4800	7950-200	Blue
BIII	2	4800	7950-150	Blue
CI	2	4800	7950-200	Yellow
CII	2	4800	7950-200	Yellow
CIII	2	4800	7950-150	Yellow
STI	2	5136	7950-100	Fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2211	989/1,1	Pink
br2	2	1887	989/1,1	Pink
br3	2	1737	989/1,1	Pink
br4	2	1599	989/1,1	Pink
br5	2	1455	989/1,1	Pink
br6	2	1452	989/1,1	Pink
br7	2	1317	989/1,1	Pink
br8	2	1206	989/1,1	Pink
br9	2	1197	989/1,1	Pink
BR1	2	2880	989/1,3	Pink
BR2	2	2880	989/1,3	Pink
BR3	2	2880	989/1,3	Pink
Brmain	2	2634	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	no. of lines
260666	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com

Line Check Sheet for Paragliders — Piece Check

Glider Type: XB44 Makalu 4 XS (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line lengths [mm]

R. No.	Area A											Area B											Area C										
		Left					Right						Left					Right						Left					Right				
	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
2	6295											6261											6281										
5	6248											6212											6233										
8	6223											6181											6204										
11	6187											6147											6161										
14	6131											6094											6121										
16	6028											5994											6019										
18	5942											5911											5929										
19	5931											5900											5913										
21	5673											5636											5684										
22	5563																																
24	5476											5490											5581										

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
		Left					Right						Left					Right					
	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	
2	6390											7109											**3**
5	6340											6812											**5**
8	6305											6670											**8**
11	6249											6543											**10**
14	6202											6407											**12**
												6407											**14**
												6281											**17**
												6178											**19**
												6171											**22**
												brakes measured inkl.10cm-loop											

Loops on Quick links Factory setting		Loop Index MTS
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

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.co
www.up-paragliders.com

Single Line Lengths

Glider Type: XB44 Makalu 4 XS (EN B)	Serial No.:
Rev. No.: 6	Date: 16.05.2018

Line no.	Quan-tity	Length [mm]	material	colour
a1	2	1930	6480D-130	Yellow
a2	2	1883	6480D-130	Yellow
a3	2	1858	6480D-130	Yellow
a4	2	1822	6480D-130	Yellow
a5	2	773	6480D-090	Yellow
a6	2	670	6480D-090	Yellow
a7	2	316	6480D-090	Yellow
a8	2	306	6480D-090	Yellow
a9	2	1007	6480D-090	Yellow
a10	2	897	6480D-090	Yellow
b1	2	1896	6480D-130	Yellow
b2	2	1847	6480D-130	Yellow
b3	2	1816	6480D-130	Yellow
b4	2	1782	6480D-130	Yellow
b5	2	760	6480D-090	Yellow
b6	2	659	6480D-090	Yellow
b7	2	305	6480D-090	Yellow
b8	2	294	6480D-090	Yellow
b9	2	969	6480D-090	Yellow
c1	2	1921	6480D-090	Yellow
c2	2	1873	6480D-090	Yellow
c3	2	1844	6480D-090	Yellow
c4	2	1801	6480D-090	Yellow
c5	2	751	6480D-090	Yellow
c6	2	650	6480D-090	Yellow
c7	2	296	6480D-090	Yellow
c8	2	280	6480D-090	Yellow
c9	2	1018	6480D-090	Yellow
d1	2	2030	6480D-090	Yellow
d2	2	1980	6480D-090	Yellow
d3	2	1945	6480D-090	Yellow
d4	2	1889	6480D-090	Yellow
d5	2	837	6480D-090	Yellow
st1	2	810	6480D-090	Yellow
st2	2	824	6480D-090	Yellow
st3	2	915	6480D-090	Yellow

Line no.	Quan-tity	Length [mm]	material	colour
A1	2	998	6480D-130	Yellow
A2	2	1265	6480D-090	Yellow
B1	2	975	6480D-130	Yellow
B2	2	1246	6480D-090	Yellow
C1	2	1010	6480D-130	Yellow
C2	2	1273	6480D-090	Yellow
AI	2	4375	7950-200	Red
AII	2	4375	7950-200	Red
AIII	2	4375	7950-150	Green
BI	2	4375	7950-200	Blue
BII	2	4375	7950-200	Blue
BIII	2	4375	7950-150	Blue
CI	2	4375	7950-200	Yellow
CII	2	4375	7950-200	Yellow
CIII	2	4375	7950-150	Yellow
STI	2	4681	7950-100	fluored

Brake no.	Quan-tity	Length [mm]	material	colour
br1	2	2011	989/1,1	Pink
br2	2	1714	989/1,1	Pink
br3	2	1572	989/1,1	Pink
br4	2	1445	989/1,1	Pink
br5	2	1310	989/1,1	Pink
br6	2	1309	989/1,1	Pink
br7	2	1184	989/1,1	Pink
br8	2	1081	989/1,1	Pink
br9	2	1073	989/1,1	Pink
BR1	2	2625	989/1,3	Pink
BR2	2	2625	989/1,3	Pink
BR3	2	2625	989/1,3	Pink
Brmain	2	2387	989/2,1	Pink

Line material:

Edelrid	6480D-090
Edelrid	6480D-130
Edelrid	7950-100
Edelrid	7950-150
Edelrid	7950-200
Cousin	989/1,1
Cousin	989/1,3
Cousin	989/2,1

total length	**no. of lines**
234476	130

UP International GmbH, Kreuzeckbahnstraße 7, D-82467 Garmisch Partenkirchen
PHONE: +49 (0) 8821 73099-0 FAX: +49 (0) 8821 73099-16 E-mail: info@up-paragliders.com
www.up-paragliders.com