



Service documents



02-2018

SERVICE MANUAL

The latest version of service manual is available at:
www.dudek.eu/en/service-and-inspections/

TECHNICAL INSPECTIONS

Full Inspection is recommended every 24 months or every 150 hours whatever comes first, if not advised otherwise by the inspecting person due to paraglider's condition.

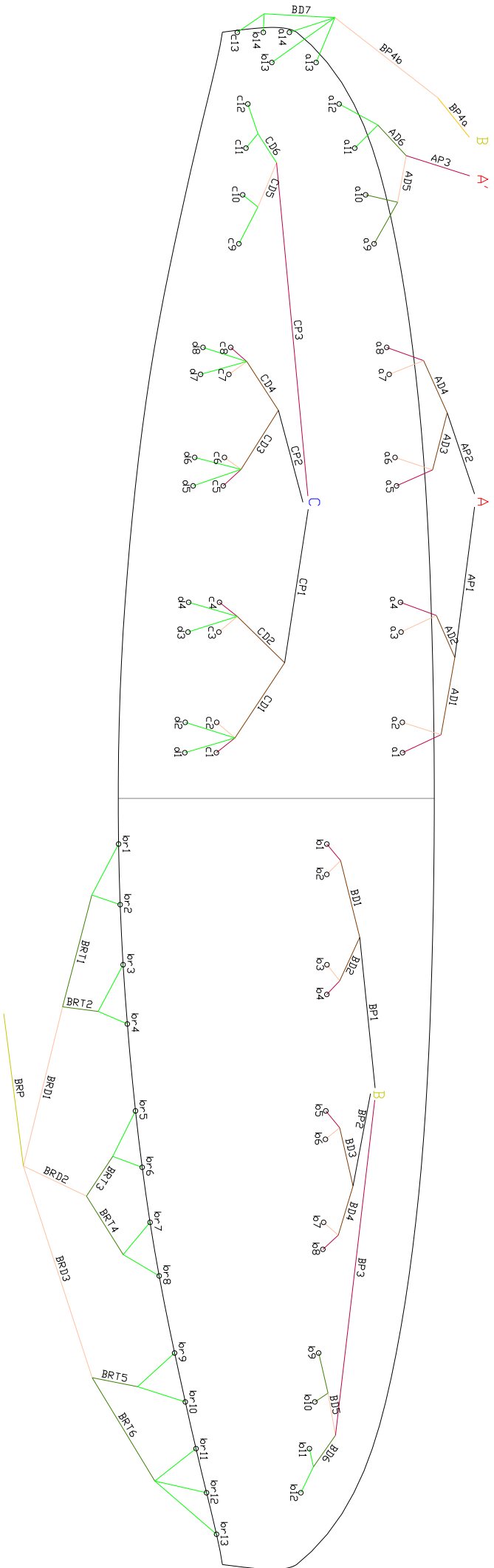
In case of paragliders used commercially (e.g. in schools or tandem flying) a Full Inspection is recommended every 12 months after first 24 months from purchase date or every 100 hours airtime (whatever comes first).

A paraglider can be officially inspected only by the manufacturer or a dealer (authorised to do so).

TECHNICAL DATA

Colt 2 Light	21	23	25	27	30
Certification	EN C	EN C	EN C	EN C	EN C
	LTF C	LTF C	LTF C	LTF C	LTF C
Number of cells	61	61	61	61	61
Surface area (flat) [m²]	21,20	23,20	25,00	27,20	30,00
Surface area (projected) [m²]	18,14	19,86	21,40	23,28	25,67
Span (flat) [m]	11,47	11,99	12,45	12,99	13,64
Span (projected) [m]	9,20	9,62	9,99	10,42	10,94
Aspect Ratio (flat)	6,20				
Aspect Ratio (projected)	4,66				
Sink rate [m/s]	min = 1,0 + - 0,1m/s				
Speed [km/h]	trim = 38; max = 54 + - 2km/h				
Max. cord [mm]	2333,00	2440,00	2533,00	2642,00	2774,00
Min. cord [mm]	550,00	575,00	597,00	622,00	654,00
Distance pilot to wing [m]	7,11	7,44	7,72	8,05	8,46
Total line length [m]	233,48	244,67	253,98	264,92	278,23
Weight range EN [kg]	60-85	65-90	85-105	95-120	110-130
Maximum symmetric control travel at maximum weight in flight [cm]	>55	>55	>60	>60	>65
Weight [kg]	3,93	4,37	4,64	4,99	5,39
Lines	Edelrid A-8000U: 050 & 070 & 090 & 130 & 190 & 230				
Fabric	Porcher 32 & 27 g/m ²				
	Porcher Hard 40 & 27 g/m ²				
	SR Scrim, SR Laminate 180 g/m ²				
Risers	Cousin Trestec, France				

Colt 2 Light



Lining scheme

Length of the lines

Colt 2 Light- 21

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	419	417	473	537	641
2	367	362	416	488	401
3	372	367	427	495	534
4	393	391	455	516	516
5	380	377	438	498	586
6	342	336	389	449	460
7	340	333	410	460	443
8	356	352	426	464	485
9	620	604	591		491
10	526	516	493		432
11	559	526	514		639
12	560	536	501		670
13	969	948	465		814
14	840	407			

Sumaryczna długość linek (z ta mami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	7119	7055	7160	7237	7428
2	7073	6999	7104	7190	7189
3	7041	6969	7073	7152	7052
4	7060	6989	7099	7171	7035
5	7031	6949	7043	7115	6850
6	6998	6914	6998	7068	6729
7	6959	6880	6946	7006	6682
8	6973	6899	6960	7011	6725
9	6840	6782	6856		6675
10	6748	6694	6756		6617
11	6670	6665	6687		6603
12	6673	6670	6674		6640
13	6455	6432	6396		6782
14	6326	6338			

	AD	BD	CD	DD	BRT
1	1559	1453	1381		922
2	1520	1412	1334		654
3	1463	1356	1298		909
4	1426	1319	1221		879
5	884	824	870		720
6	769	775	770		499
7		451			

	AP	BP	CP	DP	BRD
1	4658	4699	4822		3125
2	4705	4739	4825		2620
3	4827	4850	4881		2725
4b		4163			
4a		810			

BRP 2710

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

Technora A 8000U-230: XXXX

Technora TSL 90: XXXX

Technora TSL 190: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Colt 2 Light- 23

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	438	435	494	561	670
2	384	378	435	510	420
3	388	383	445	517	558
4	411	409	475	540	540
5	397	394	457	520	612
6	357	351	406	470	481
7	355	348	428	481	463
8	372	368	445	485	508
9	648	631	618		513
10	550	539	515		451
11	585	550	537		667
12	585	561	523		700
13	1013	990	486		851
14	878	426			

Sumaryczna długość linek (z ta mami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	7469	7390	7497	7573	7784
2	7417	7338	7442	7525	7533
3	7385	7305	7405	7485	7392
4	7405	7327	7436	7511	7373
5	7350	7265	7376	7451	7189
6	7314	7229	7333	7403	7057
7	7272	7188	7275	7336	7011
8	7285	7206	7290	7340	7055
9	7155	7110	7159		7003
10	7056	7018	7055		6939
11	6975	6977	6980		6927
12	6972	6987	6964		6960
13	6762	6744	6696		7110
14	6627	6637			

	AD	BD	CD	DD	BRT
1	1629	1517	1442		963
2	1590	1478	1395		685
3	1529	1416	1356		950
4	1491	1379	1277		921
5	924	861	910		752
6	804	809	805		522
7		471			

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

Technora A 8000U-230: XXXX

Technora TSL 90: XXXX

Technora TSL 190: XXXX

	AP	BP	CP	DP	BRD
1	4926	4964	5088		3265
2	4948	4984	5092		2741
3	5074	5112	5123		2854
4b		4422			
4a		810			

BRP 2850

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Colt 2 Light- 25

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	454	451	511	582	696
2	398	393	451	530	436
3	402	397	462	536	578
4	426	424	493	560	560
5	412	408	474	539	635
6	370	364	421	487	500
7	368	360	444	499	480
8	386	381	461	503	527
9	673	655	641		532
10	570	559	534		469
11	607	570	558		692
12	607	582	543		727
13	1051	1026	504		883
14	911	442			

	AD	BD	CD	DD	BRT
1	1689	1573	1495		999
2	1651	1534	1448		712
3	1586	1468	1407		985
4	1548	1431	1325		956
5	959	893	944		780
6	834	838	836		543
7		488			

	AP	BP	CP	DP	BRD
1	5123	5167	5301		3387
2	5159	5196	5299		2845
3	5290	5329	5341		2966
4b		4643			
4a		810			

BRP 2970

Sumaryczna długość linek (z ta mami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	7746	7671	7782	7867	8078
2	7697	7618	7730	7814	7818
3	7662	7587	7693	7775	7678
4	7683	7610	7720	7799	7658
5	7644	7556	7655	7734	7460
6	7608	7517	7609	7683	7327
7	7567	7477	7549	7612	7279
8	7583	7494	7565	7618	7327
9	7433	7387	7439		7275
10	7329	7293	7333		7211
11	7246	7251	7254		7199
12	7246	7259	7240		7234
13	7026	7002	6957		7389
14	6888	6896			

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

Technora A 8000U-230: XXXX

Technora TSL 90: XXXX

Technora TSL 190: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Colt 2 Light- 27

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	473	470	533	607	725
2	415	409	470	552	455
3	418	413	481	559	602
4	444	442	514	584	584
5	429	425	494	562	662
6	386	379	439	508	522
7	383	375	463	520	500
8	402	397	481	525	550
9	701	682	668		555
10	594	583	557		489
11	632	594	581		721
12	633	606	566		757
13	1096	1069	525		921
14	950	460			

	AD	BD	CD	DD	BRT
1	1759	1639	1558		1041
2	1722	1600	1510		743
3	1653	1530	1466		1026
4	1614	1492	1381		998
5	999	931	984		812
6	869	872	871		566
7		509			

	AP	BP	CP	DP	BRD
1	5336	5381	5522		3530
2	5406	5445	5541		2968
3	5545	5574	5616		3097
4b		4904			
4a		810			

BRP 3115

Sumaryczna długość linek (z ta mami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	8058	7974	8091	8177	8445
2	7999	7918	8031	8119	8175
3	7964	7879	7996	8079	8025
4	7991	7907	8028	8106	8006
5	7973	7885	7984	8065	7806
6	7933	7841	7932	8010	7665
7	7890	7799	7870	7933	7615
8	7908	7817	7886	7940	7665
9	7759	7704	7782		7613
10	7650	7602	7669		7548
11	7563	7559	7592		7533
12	7563	7568	7576		7570
13	7327	7302	7254		7734
14	7180	7190			

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

Technora A 8000U-230: XXXX

Technora TSL 90: XXXX

Technora TSL 190: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Colt 2 Light- 30

Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	495	493	558	636	761
2	436	430	493	580	478
3	438	433	504	586	632
4	465	464	539	613	613
5	449	446	517	590	694
6	405	398	460	533	548
7	401	393	485	546	524
8	421	416	504	551	577
9	736	716	701		582
10	624	612	584		514
11	664	624	610		755
12	664	636	594		795
13	1151	1120	551		967
14	997	483			

	AD	BD	CD	DD	BRT
1	1845	1718	1634		1091
2	1808	1681	1586		781
3	1734	1605	1538		1077
4	1694	1566	1450		1049
5	1049	977	1032		852
6	912	914	914		596
7		533			

	AP	BP	CP	DP	BRD
1	5675	5717	5856		3704
2	5710	5751	5867		3117
3	5854	5883	5910		3256
4b		5221			
4a		810			

BRP 3290

Sumaryczna długość linek (z ta mami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	8499	8406	8528	8614	8880
2	8443	8346	8466	8561	8596
3	8408	8314	8430	8522	8440
4	8434	8342	8462	8549	8421
5	8374	8281	8399	8482	8211
6	8332	8237	8346	8425	8065
7	8289	8192	8289	8355	8013
8	8306	8212	8302	8359	8066
9	8145	8083	8154		8013
10	8035	7978	8037		7945
11	7938	7928	7952		7930
12	7938	7939	7934		7970
13	7698	7669	7622		8142
14	7549	7556			

Technora A 8000U-050: XXXX

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora A 8000U-190: XXXX

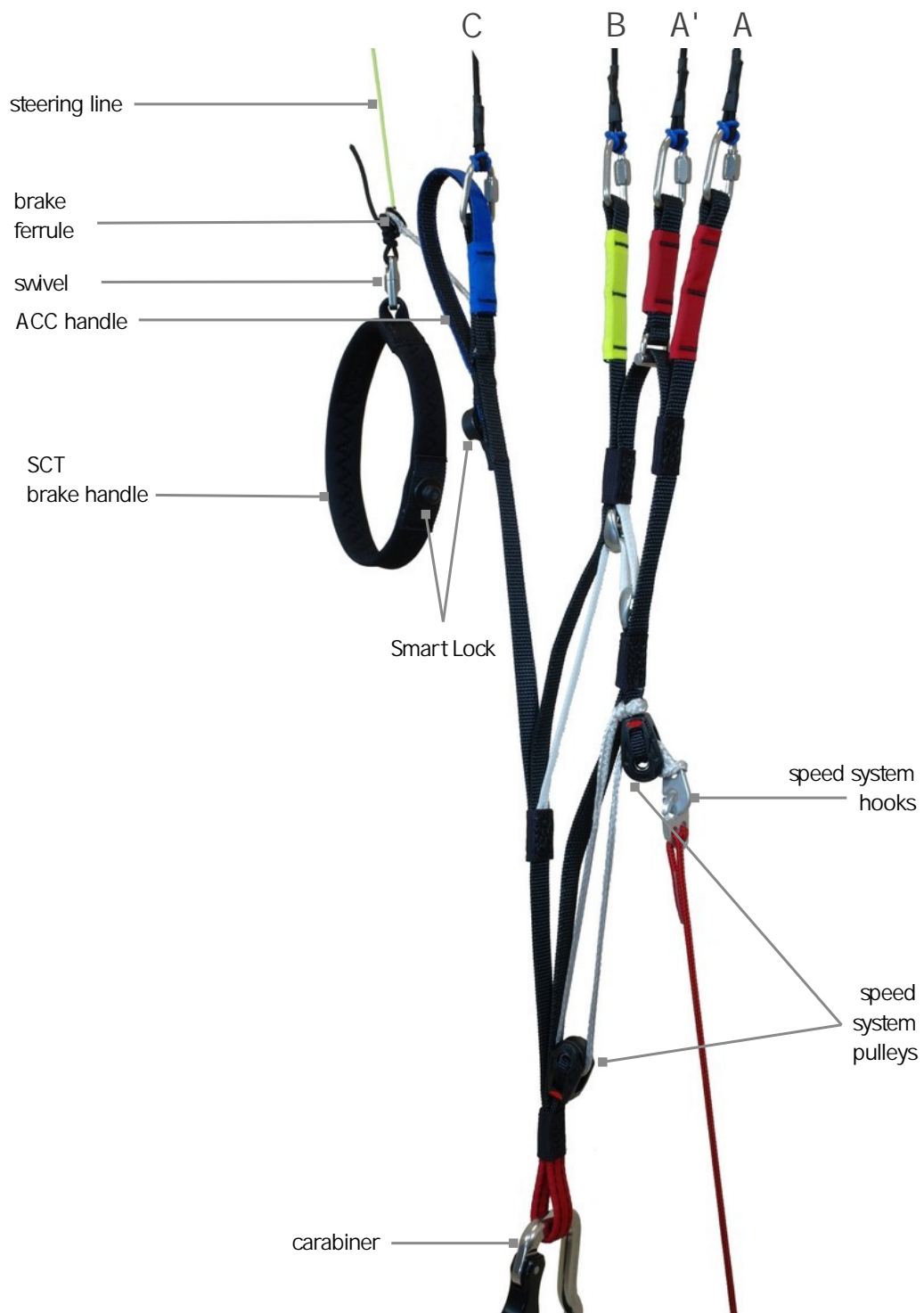
Technora A 8000U-230: XXXX

Technora TSL 90: XXXX

Technora TSL 190: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Colt2 Light risers



Other informations:

- number of risers: 3 (with A riser split into A and A')
- trimmers: No

Speed system influence on the aerofoil

Neutral risers position

Slowest speed,
minimum sink.
Launch configuration.



Neutral risers' length:

- A - 553
- A' - 553
- B - 553
- C - 553

Full speed

Increased speed,
increased sink.



Speed system size 21, 23 & 25: Speed system size 27 & 30:

- | | |
|----------|----------|
| A - 408 | A - 383 |
| A' - 432 | A' - 411 |
| B - 456 | B - 439 |
| C - 553 | C - 553 |

* lengths of the risers incl. maillons, length tolerance +/- 5mm



Components

List of components and materials for Colt 2 Light

Name of product	Dimension	Supplier	Location of use								
			Top			Bottom			Vector –		
			Others	front	surface	front	surface	Ribs suspended	Ribs unsuspended	Diagonals	stripes
CANOPY											
Porcher 70000 1580 E71	26gr	NCV industries			x		x				
Porcher 70000 1580 E91	26gr	NCV industries						x	x	x	
Porcher 70032 1580 E3W	32gr	NCV industries		x							
Porcher 09017 1580 E29	40gr	NCV industries					x		x	x	
Porcher 09017 1520 001	80gr	NCV industries	Reinforcements								
Porcher 06382 1450 X15	180gr	NCV industries	Reinforcements								
Porcher 02420 1450 X15	180gr	NCV industries	Reinforcements								
Porcher 06382 1450 X15	10mm/180gr	NCV industries	Edging on intake								
Nylon Fibre 2,4mm	fi 2,4mm	Zarys	Reinforcements on ribs								
Webbing 57 501/9,5	9,5mm	GUTH & WOLF	Suspension points			& On trailing edge					
D-ring St.St 8x6x2mm welded	8/6/2mm	B2-Engineering	On trailing edge								
Machine thread Durafix size 60	60	Durak	Canopy sewing								
Dyneema Top Line 16175	0,8mm/87 daN	Cousin	On trailing edge								
LINES											
Technora A-8000/U-050	0,5mm/50 daN	Edelrid	x							x	
Technora A-8000/U-070	0,7mm/70 daN	Edelrid	x							x	
Technora A-8000/U-090	0,8mm/90 daN	Edelrid	x	x						x	
Technora A-8000/U-130	1,0mm/130 daN	Edelrid	x	x							
Technora A-8000/U-190	1,2mm/190 daN	Edelrid			x						
Technora A-8000/U-230	1,3mm/230 daN	Edelrid				x					
Technora TSL00-0090	1,2mm/90 daN	Liros				x					
Technora TSL00-0190	1,55mm/190 daN	Liros								x	
Machine thread Durafix size 60	60	Durak	Lines sewing								
RISERS & METAL PARTS											
Webbing polyester/technora	12mm	Cousin	Riser main								
Webbing TS501/12	12mm	Pasamon	Suspension for accelerator pulley								
Webbing TS555/20	20mm	Pasamon	Brake handle construction								
Webbing Slide Protect XTR	5-6mm	Liros	Accelerator construction tape								
Rubber O-rings 16x2Si850,B/VMQ 50	16x2mm	ABS Serwis	For lines protection								
Line D-pro 3,0	fi 3,0mm	Liros	Accelerator line								
Dyneema Top Line 12999	1,9mm/550 daN	Cousin	Suspension for brake ferrule								
Smart Lock - SNAP Female/male	size M	Fidlock	Brake handle magnet								
Rolls – Ronstan Orbit Block 20	fi 20mm	Ronstan	Accelerator pulley								
Ferrule FR4	16/4mm	Tylaska	Brake ferrule								
Ferrule BLOCK SHOCK	5mm/6mm	Ronstan	Accelerator construction								
Delta Inox MRDI03.5 S12	fi 3,5mm	Pequet	Maillon								
Brummel Hook Be 180	25mm	Finsterwalder	Accelerator hook								
Brake swivel	29x9mm	NINGBO	Suspension brake handles								
Rectangle inox - welded	13/7 fi6/fi3 mm	Sow-Yacht	Riser construction								
Machine thread Durafix size 40	40	Durak	Riser sewing								
Machine thread Durafix size 20	20	Durak	Riser sewing								