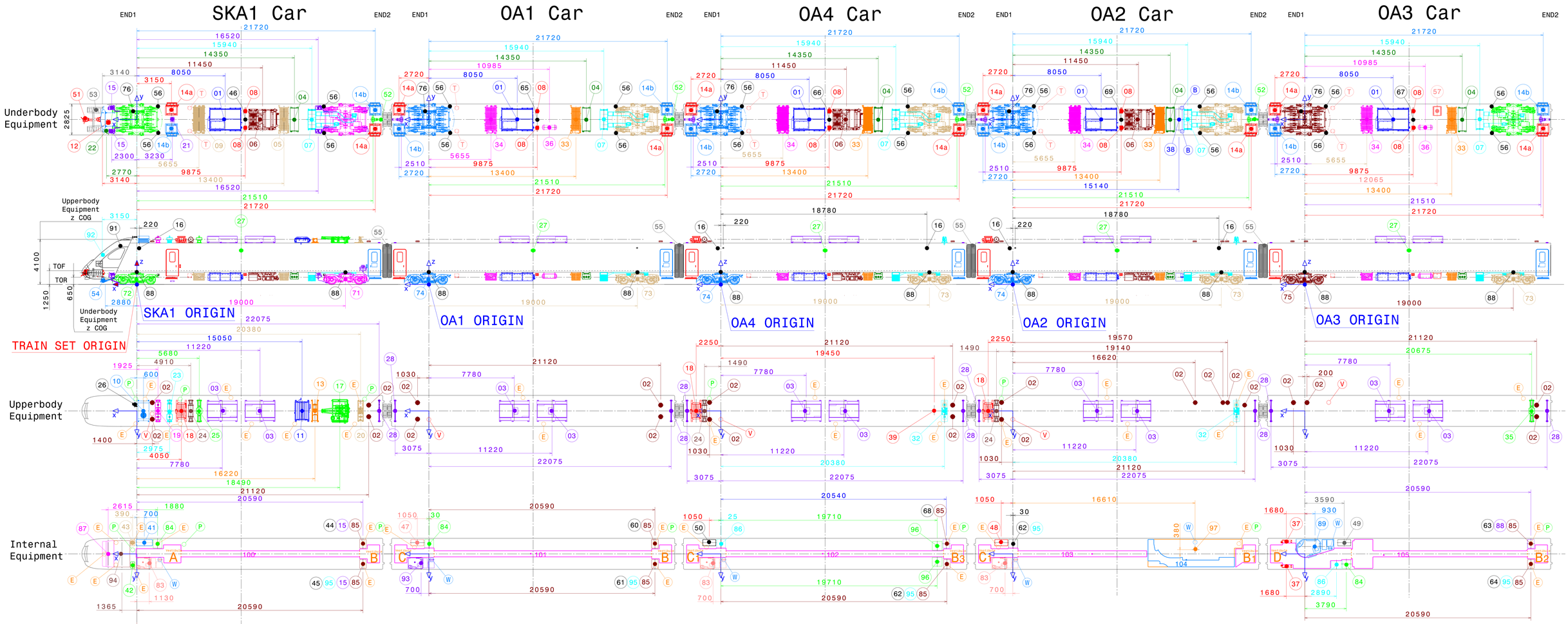

Equipment installation					
No	Description	x Dimension (mm)	y Dimension (mm)	z Dimension (mm)	Weight** (kg)
01	Traction Converter (Full)	3050	1960	700	1730
02	Air Extractor Fan	400	400	150	7
03	Compartment HVAC	2750	1800	600	650
04	Battery Box	770	2100	600	690
05	Motor EPC Package Type 1	800	2350	730	268
06	Transformer	2410	1830	740	3300
07	Motor Cooling	700	1830	750	300
08	Supply Socket	260	470	200	15
09	Trailer EPC Package	1010	2570	660	319
10	Cabin HVAC	1000	1800	600	150
11	Mod Box	1300	1670	540	(350+2)352
12	Savronic Antenna	380	420	200	(11+12)23
13	Pack Group Pantograph	540	2010	360	(108+42)150
14a	Door With Display	1180	820	3740	(258+30)288
14b	Door	1180	820	3740	(240+30)270
15	Sanding (Full)	580	400	480	76
16	Camera	50	50	50	1
17	Pantograph Intergameter Surge Arrester	1490	2100	630	(198+115)313
18	Air Production	840	1490	600	(415+2)417
19	Antennas (tGSMR - tGPS - Aselsan)	500	2000	650	(46+51)97
20	HV Disconnector	520	610	590	(59+36)95
21	Euro Balise Antenna / 2 Radar	390	450	100	(21+28)49
22	Lubricating Device (Full)	400	360	400	(33+9)42
23	Cab Air Tank Antenna(GSMR)	500	2000	650	(52+41)93
24	Air Production Tank	400	2000	550	(78+37)115
25	Antenna (GSMR)	500	2000	650	(15+33)48
26	Horns	440	380	200	(3+18)21
27	Out Speaker	380	100	200	2
28	Jumper Interface	170	1930	60	16
32	HV Disconnector With Earth	580	660	550	(69+36)105
33	Motor EPC Package Type 2	800	2360	730	246
34	Trailer EPC Package Type 2	800	2350	730	319
35	Antenna (Repeater)	500	2000	650	(17+33)48
36	Main Pipe Tank	1350	500	500	(54+11)65
37	PRM Lift	1000	300	1200	310
38	Bistro Waste Water Tank 700lt (Empty)	600	1920	700	276
39	Voltage Sensor	-	-	-	-

Mechanical installation					
No	Description	x Dimension (mm)	y Dimension (mm)	z Dimension (mm)	Weight** (kg)
51	Automatic Coupler	1690	860	630	(502+142)644
52	Semipermanent Coupler (2 Half)	2580	860	460	(518+256)774
53	Shock Absorber	1380	2280	800	769
54	Obstacle Deflector	1330	2450	400	217
55	Gangway (Complete)	800	1315	2750	410
56	Rotation Limiter	200	200	200	8
57	Rescue Adaptor	770	830	560	(43+87)130

Bogies (With Bolsters)					
No	Description	x Dimension (mm)	y Dimension (mm)	z Dimension (mm)	Weight** (kg)
71	Motor Bogie SKA1	4020	2825	1110	9900
72	Trailer Bogie SKA1	3970	2825	1110	8300
73	Motor Bogie OA	3970	2825	1110	9900
74	Trailer Bogie OA1/4/2	3970	2825	1110	8050
75	Trailer Bogie OA3	3970	2825	1110	8050
76	Magnetic Brake (Predisposition Only)	1200	1300	300	500

Other					
No	Description	x Dimension (mm)	y Dimension (mm)	z Dimension (mm)	Weight** (kg)
83	Standard Toilet fwt 640 lt (Empty Water)	2400	1030	2000	1200
84	Luggage Rack (Empty)	800	800	2200	150
85	Service	600	800	1800	0
86	Vending Machine (Empty)	1000	700	1800	200
87	Driver Desk Equipments	1040	2200	1200	70
88	Body-Bogie_Interface	800	2825	50	49
89	Universal Toilet 640 lt (Empty Water)	3540	1700	2000	1500
91	Cab Mask With Coupler Hatch	4500	2825	3600	760
92	Windscreen	850	1800	700	120
93	Alaturca Toilet 640 lt (Empty Water)	2400	1030	2000	1200
94	Cab Equipments	1590	2400	2200	50
95	Bracket Adaptor For Wire Lifting Tools	350	475	800	(112+13)125
96	Luggage Rack Compartment	890	800	1700	160
97	Bistro fwt 600lt (Empty Water)	8760	1700	2200	3303

Passengers Areas				
No	Description	x COG (mm)*	y COG (mm)*	Area (m²)
100	Standing Area SKA1	-10780	-10	16
101	Standing Area OA1	-9290	-10	17
102	Standing Area OA4	-9290	-10	17
103	Standing Area OA2	-7225	5	13
104	Bistro Standing Area OA2	-15810	550	6
105	Standing Area OA3	-7200	115	25
106	Standing Area SKA2	-10985	165	19

Electrical Cabinet/Box installation					
No	Description	x Dimension (mm)	y Dimension (mm)	z Dimension (mm)	Weight (kg)
41	Electric Cabinet EC1	1480	600	2000	(263+37)300
42	Electric Cabinet EC2	400	600	2000	(226+24)250
43	Electric Cabinet EC3	400	600	2000	(88+12)100
44	Technical Area TA1	500	300	600	50
45	Technical Area TA2	500	300	600	50
46	Underframe Cable Duct SKA1	19000	600	150	185
47	Electric Cabinet EC11	1200	600	2000	(215+35)250
48	Electric Cabinet EC12	1200	600	2000	(215+35)250
49	Electric Cabinet EC13	1200	600	2000	(215+35)250
50	Electric Cabinet EC14	1200	600	2000	(215+35)250
60	Technical Area TA11	500	300	600	50
61	Technical Area TA12	500	300	600	50
62	Technical Area TA41	500	300	600	50
63	Technical Area TA31	500	300	600	50
64	Technical Area TA32	500	300	600	50
65	Underframe Cable Duct OA1	19000	600	150	200
66	Underframe Cable Duct OA4	19000	600	150	200
67	Underframe Cable Duct OA3	19000	600	150	200
68	Technical Area TA42	500	300	600	
69	Underframe Cable Duct OA2	19000	600	150	200

Inside /Outside Carbodyshell Passage	
Item	Description
E	Electric Passage
P	Pneumatic Passage
W	Water Passage
V	Vent Hole
T	Toilet Water Refill Point

* Origin Reference On Relative Car
**(Element weight + Interfaces weight) Total weight
*** Only the differences from SKA1 Car are represented

Technical Specifications	-	-	-	-	-
Technical Document	-	-	-	-	-
Fixture/Mould Asset ID.	-	-	-	-	-
Coating/Heat Tre./Roughness	-	-	-	-	-
Paint/Color	-	Modf. No	Modification Description	Date	Sign

No	Parça Adı / Designation / Name of Item	Adet / Qty.	Resim No / Norm / Drawing No / Norm	Malzeme / Material	Ölçü / Dimension	Ağırlık / Weight (Kg)
	ISO 1302 ISO 8015 EN 22553		General Tol.	ISO 2768	f☐ m☐ H☐ K☐	
	EN 15085-2 Certification Level		Weld Pro.	ISO 13920	A☐ B☐ E☐ F☐	
			Cast Steel	ISO 12708	Un☐ Li☐ Sm☐ Sn☐	
	Approved P.Farina	14/05/2021	Scale			
	Checked M.Borlo	14/05/2021	-			
	Prepared M.Rapello	14/05/2021				

TYP

Equipment layout

-

TÜRASAŞ
Türkiye Raylı Sistem Araçları Sanayii A.Ş.

FT90.00.00.00010

Date: 14/05/2021 Sheet: 1/1 Size:A0 Rev:00

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Steel Castings (EN 10293 General Coarsings, EN 10295 Steel Casting)		
<1000	6,0	0,8
<630	4,0	0,7
<400	3,0	0,6
<250	3,0	0,4
100	2,0	0,3
40	1,5	0,2
L mm	Hem	Yüz
Nom. Size	Class	
<4000	2,0	0,4
<2000	1,2	0,4
<1000	0,8	0,3
<400	0,5	0,3
30-120	0,3	0,2
2-30	0,2	0,1
L mm	m ↕	K ↕
Nom. Size	Class	

ISO 13920 Welded Construction (EN 22768 General Coarsings)		
>20000	9,0	8,0
<20000	8,0	7,0
<16000	7,0	6,0
<12000	6,0	5,0
<8000	5,0	4,0
<4000	4,0	3,0
<2000	3,0	2,0
<1000	2,0	1,5
<400	1,0	1,0
30-120	1,0	0,5
2-30	1,0	0,5
L mm	A ↕	E ↕
Nom. Size	Class	

ALL WINDOWS