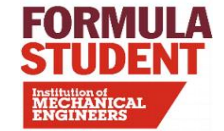


Car No 106
University Hacettepe University
Team Name Hacettepe Racing



Formula Student 2018: 11-15 July 2018

€ 0.00

System	Assembly	Part	M/B	P/M/F/T	Comments	Qt	Cost (per piece)	Cost Comments	ID
BRAKES					Total	1	€ 0.00	€ 0.00	
BR	Brake Discs				Steel brake discs	1			BR-A-0100
	Front brake discs	m			Air-cooled 220mm brake discs	2			BR-100-010
			M	Steel,Stainless	5mm Sheet Stainless Steel	1			BR-100-010-01
			P	Water Cut		1			BR-100-010-02
			P	Assemble	Assemble to front hub	1			BR-100-010-028
			F	Bolt	M10x15	4			BR-100-010-030
	Rear brake discs	m	F	Fastener Install(every)	M8x55	8			BR-100-010-043
			F	Nut	M10	4			BR-100-010-048
					Air-cooled 200mm steel brake di:	2			BR-100-011
			M	Steel,Stainless	5mm Sheet Stainless Steel	1			BR-100-011-06
			P	Water Cut		1			BR-100-011-07
			P	Assemble	Assemble to the rear hub	1			BR-100-011-029
			F	Bolt	M10x15	4			BR-100-011-031
			F	Nut	M10	4			BR-100-011-049
			P	Fastener Install (every)		8			BR-100-011-053
BR	Brake Fluid				(BOF) Silicone-free synthetic brake fluid	1			BR-A-0102
	Brake fluid	b			Motul DOT 5.1 (0.3 liter used)	1			BR-102-012
	Brake Bleed	m				1			BR-102-042
			P	Per Bleed Valve		4			BR-102-042-034
BR	Brake Pads				(BOF)	8			BR-A-0105
	Front Brake Pads	b			ISR Brake Pads 29-002 x2	4			BR-105-032
	Rear Brake Pads	b			ISR Brake Pads 29-002	4			BR-105-033
	Assembling Brake Pads	m				1			BR-105-039
			P	Assemble	Assemble to the calipers	1			BR-105-039-032
BR	Calipers				(BOF)	1			BR-A-0106
	Front Caliper	b			ISR 22-049 (4 piston)	2			BR-106-031
	Rear Caliper	b			ISR 22-048 (2 piston)	2			BR-106-034
	Assembling Calipers	m				1			BR-106-040
			P	Assemble	Front caliper to the front upright	1			BR-106-040-033

			P	Assemble	Rear calipers to the rear uprights	1	BR-106-040-055
	Hand Start	m				1	BR-106-041
	Fastener	m				4	BR-106-044
			F	Bolt	M8x30 Bolt	2	BR-106-044-035
			F	Fastener Install (every)		2	BR-106-044-045
BR	Brake Lines				High pressure,steel tubing	1	BR-A-0111
	Steel Tube	b				1	BR-111-021
	Brake Line	m				1	BR-111-022
			M	Steel	2.2mx2, 60cmx2, 10cmx2	1	BR-111-022-012
			P	Tube Process	Tube Flare/Bead	6	BR-111-022-013
			P	Tube Process	Tube Cut	8	BR-111-022-014
			F	Tie wrap		6	BR-111-022-015
			M	Plastic	60cm	6	BR-111-022-040
			F	Bolt	M10x55 Bolts	4	BR-111-022-041
			F	Washer	Copper Washer	8	BR-111-022-042
			F	Fastener Install (every)	M10x55	12	BR-111-022-046
	Fitting	m				1	BR-111-026
			P	Wrench	<25.4 mm	16	BR-111-026-016
			F	Washer	Copper Crush Washer	8	BR-111-026-024
			F	Adapter	Bulkhead Tee/Steel	2	BR-111-026-025
			F	Adapter	BarbtoMalePipe/Straight/Al	12	BR-111-026-026
			F	Adapter	Bulkhead Union/Aluminum	12	BR-111-026-027
	Hose	m			High Pressure,Stainless Steel Br	1	BR-111-027
BR	Brake Master Cylinder				(BOF)	2	BR-A-0114
	Fluid Reservoir	b			Large Reservoir(10.7 oz.)	1	BR-114-024
	Brake Master Cylinder	b			Tilton Model 75 master cylinder	1	BR-114-038
	Process and Fastener	m				1	BR-114-045
			P	Assemble	Fluid reservoir to master cylinder	1	BR-114-045-036
			P	Fastener Install (every)		3	BR-114-045-047
			F	Bolt	M6x30	1	BR-114-045-050
			F	Nut	M6	1	BR-114-045-051
			F	Hose Clamp	Fluid reservoir	1	BR-114-045-052
			P	Assemble	Brake master to the brake pedal	1	BR-114-045-054

ENGINE & DRIVETRAIN

Total 1 € 0.00 € 0.00

EN	Differential					1	EN-A-0200
	Differential Internal	b		(BOF) Drexler Mechanical		1	EN-200-010
				limited slip differential version1			
	Differential Short Shafts	m				2	EN-200-023
			M	Steel	Steel,Mild	1	EN-200-023-029
			P	Machining	Setup and Install	1	EN-200-023-030
			P	Machining		1	EN-200-023-031
			F	Bolt	M6x120	1	EN-200-023-0127
			P	Fastener Install (every)		1	EN-200-023-0128
	Process	m				1	EN-200-060
			P	Assemble	To Differential Mounting	1	EN-200-060-094
EN	Differential Bearings					1	EN-A-0201
	Left Bearing	b		Deep Groove Ball Bearing		2	EN-201-021
				SKF 6211-2RS1			
	Right Bearing	b		Deep Groove Ball Bearing		2	EN-201-022
				SKF 61910-2RS1			
	Left Bearing Process	m				1	EN-201-061
			P	Assemble	Loose to the differential mounts	1	EN-201-061-095
	Right Bearing Process	m				1	EN-201-063
			P	Assemble	Loose to the differential mounts	1	EN-201-063-098
EN	Fuel Pump			(BOF)		1	EN-A-0205
	Fuel Pump	b		Honda CBR 600RR fuel pump		1	EN-205-015
	Fuel pump pressure plate	b				1	EN-205-046
	Process and Fasteners	m				1	EN-205-066
			P	Assemble	Fuel pump to fuel tank	1	EN-205-066-0129
			P	Adhesive	Tightness sylicone applied	1	EN-205-066-0130

			P	Assemble	Fuel pump pressure plate to fuel pump and to the fuel pump bolt housing	1	EN-205-066-0131
			F	Hose Clamp		2	EN-205-066-0230
			P	Fastener Install (every)		2	EN-205-066-0231
EN	Fuel Pressure Reg.				(BOF)	1	EN-A-0206
	Pressure Regulator	b				1	EN-206-016
	Process	m				1	EN-206-068
			P	Assemble	To fuel rail	1	EN-206-068-0134
			F	Hose Clamp		1	EN-206-068-0135
EN	Fuel Filter				(BOF)	1	EN-A-0207
	Fuel Filter	b				1	EN-207-017
	Process	m				1	EN-207-067
			P	Assemble	To fuel hose after the fuel tank	1	EN-207-067-0133
			F	Hose Clamp		1	EN-207-067-0136
			P	Assemble	To the fuel level sensor	1	EN-207-067-0235
	Fuel level sensor	b				1	EN-207-093
EN	Sprocket/Pulleys					1	EN-A-0208
	Engine Sprocket	m				1	EN-208-018
			M	Steel	AISI 4340	1	EN-208-018-016
			P	Machining	Setup,Install and Remove	1	EN-208-018-017
			P	Machining	Machining Carrier	1	EN-208-018-018
			P	Assemble	To engine output shaft	1	EN-208-018-019
			P	Fastener Install (every)	Tighten Nut	1	EN-208-018-020
			F	Bolt	M10x20	1	EN-208-018-0137
	Differential Sprocket	m				1	EN-208-019
			M	Steel	Alloy, Sprocket Material	1	EN-208-019-022
			P	Machining	CNC Milling Machined	2	EN-208-019-023
			P	Assemble	To the differential sprocket housing	1	EN-208-019-025
			F	Bolt		6	EN-208-019-028
			F	Fastener Install (every)	Fasten Sprocket	6	EN-208-019-0110
	Differential sprocket housing	m				1	EN-208-069
			M	Aluminum	7075 T6	1	EN-208-069-0138
			P	Machining	Turning	1	EN-208-069-0139
			P	Machining	CNC Machined	1	EN-208-069-0140
			P	Threading	Spline	1	EN-208-069-0141

			P	Assemble	Differential	1	EN-208-069-0142
EN	Chain/ Belt				(BOF)	1	EN-A-0210
	Chain	m			Honda CBR 600 RR chain	1	EN-210-020
			P	Angle grinding		1	EN-210-020-093
			P	Assemble	To the engine sprocket	1	EN-210-020-0103
			P	Assemble	To the differential sprocket	1	EN-210-020-0104
EN	Axles					2	EN-A-0214
	Axles	m				1	EN-214-024
			M	Steel,Alloy	4340	1	EN-214-024-032
			P	Machining	Turning	1	EN-214-024-033
			P	Gear Shaping (hobbing)	For Spline of the left Half Shaft	1	EN-214-024-037
			P	Gear Shaping (hobbing)	For Spline of the right Half Shaft	1	EN-214-024-038
			F	Retaining Ring	26x1.2	4	EN-214-024-039
			P	Heat treatment		1	EN-214-024-040
			F	Retaining Ring	20x1	1	EN-214-024-0143
			P	Assemble	To CV joint outer	1	EN-214-024-0144
			P	Assemble	To CV joint inner	1	EN-214-024-0145
			P	Assemble	To inner tripod joint housing	1	EN-214-024-0146
			P	Assemble	To outer tripod joint housing	1	EN-214-024-0147
EN	CV Joints/U Joints					2	EN-A-0215
	CV Joint,Tripod, outer	b			RCV Lightened Tripod	1	EN-215-025
	CV Joint, Boot	b				1	EN-215-026
	CV Joint,Tripod, inner	b			Renault 19 Tripod	1	EN-215-030
	Tripod Housing, inner	b			Renault 19 Tripod housing	1	EN-215-031
	CV Joint, Tripod, Outer Process	m				1	EN-215-064
			P	Assemble	To Rear Hub	1	EN-215-064-0108
	Tripod Housing, Inner Process	m				1	EN-215-065
			P	Assemble	To differential short shaft	1	EN-215-065-0109
EN	Engine Electronics Assembly				(BOF)	1	EN-A-0217
	ECU	b			MOTEC M800	1	EN-217-027
	ECU MOTEC TCMUX	b			Traction Control Multiplexer	1	EN-217-028
EN	Coolant					1	EN-A-0222

	Engine coolant	b		Pure water	1	EN-222-032
EN	Coolant Lines				1	EN-A-0223
	Coolant Hose	m		Inlet d=28mm	1	EN-223-033
			M	Rubber	1	EN-223-033-041
			P	Cut (scissors, knife)	1	EN-223-033-042
			P	Assemble	1	EN-223-033-0194
			P	Assemble	1	EN-223-033-0195
	Coolant Hose	m		Outlet d=28mm	1	EN-223-034
			M	Rubber	1	EN-223-034-043
			P	Cut (scissors, knife)	1	EN-223-034-044
			P	Assemble	1	EN-223-034-0196
			P	Assemble	1	EN-223-034-0197
EN	Fuel Injectors			(BOF)	1	EN-A-0225
	Fuel injector	b		Honda CBR 600 RR 205cc fuel injectors	4	EN-225-035
	Process	m			1	EN-225-070
			P	Assemble	1	EN-225-070-0148
			P	Assemble	1	EN-225-070-0149
EN	Fuel Tank - NOT the HV Battery				1	EN-A-0226
	Fuel tank box	m			1	EN-226-036
			M	Aluminum	1	EN-226-036-045
			P	Laser Cut	1	EN-226-036-046
			P	Bending	4	EN-226-036-047
			P	Weld	1	EN-226-036-0215
			P	Assemble	1	EN-226-036-0216
			F	Bolt	3	EN-226-036-0217
			F	Nut	3	EN-226-036-0218
			P	Fastener Install (every)	6	EN-226-036-0219
	Filling pipe	m		Fuel tank filling pipe	1	EN-226-039
			M	Aluminum	1	EN-226-039-049
			P	Machining	1	EN-226-039-050
			P	Machining	1	EN-226-039-051
			P	Threading	1	EN-226-039-052
			P	Weld	1	EN-226-039-072
	Fuel filler cap	m		To the fuel tank box	1	EN-226-040
			M	Braze	1	EN-226-040-053
			P	Machining	1	EN-226-040-054
			P	Threading	1	EN-226-040-055

Venting hose	m	P	Machining	Milling	1	EN-226-040-0150
		P	Assemble	To the filling pipe	1	EN-226-040-0214
					2	EN-226-041
		M	Rubber		1	EN-226-041-056
		P	Cut (scissors, knife)		1	EN-226-041-057
		P	Assemble	To the check valve	1	EN-226-041-070
Check valve housing	m	F	Hose Clamp		1	EN-226-041-071
				Check valve male threaded housing	2	EN-226-042
		M	Aluminum	6061 T6 Aluminum	1	EN-226-042-066
		P	Machining	Turning	1	EN-226-042-067
		P	Threading		1	EN-226-042-068
		P	Coating	Teflon band	1	EN-226-042-069
Bleeder screw	m	P	Weld	Fuel tank box	1	EN-226-042-073
		P	Assemble	To the check valve	1	EN-226-042-0151
					1	EN-226-043
		P	Fastener Install (every)		1	EN-226-043-0115
				Bleeder screw female threaded housing	1	EN-226-044
		M	Aluminum	6061 T6 Aluminum	1	EN-226-044-078
Fuel pump bolt housing	m	P	Machining	Turning	1	EN-226-044-079
		P	Threading		1	EN-226-044-080
		P	Weld	To the fuel tank box	1	EN-226-044-082
					1	EN-226-045
		M	Aluminum	6061 T6 Aluminum	1	EN-226-045-074
		P	Laser Cut		1	EN-226-045-075
Sight tube housing tube	m	P	Threading		1	EN-226-045-076
		F	Bolt	M6x15	6	EN-226-045-077
		P	Weld	To the fuel tank box	1	EN-226-045-081
		F	Fastener Install(every)	M6x15	12	EN-226-045-0111
		F	Nut		6	EN-226-045-0132
					2	EN-226-058
Sight pipe	m	M	Aluminum	6061 T6	1	EN-226-058-087
		P	Machining	Turning	1	EN-226-058-088
		P	Weld	To the bleeder screw housing	1	EN-226-058-089
		M	Rubber		1	EN-226-059
					1	EN-226-059-090

	Fluid breaker	m	P	Cut (scissors, knife)		1	EN-226-059-091
			F	Hose Clamp		2	EN-226-059-092
			P	Fastener Install (every)		2	EN-226-059-0220
						1	EN-226-092
			M	Aluminum	0.5mm aluminum	1	EN-226-092-0232
			P	Laser Cut		1	EN-226-092-0233
			P	Weld	Inside of the fuel box	1	EN-226-092-0234
EN	Fuel Vent /Check Valve			(BOF)		1	EN-A-0227
	Check valve	b		1/8" steel pneumatic check valve female-female		2	EN-227-037
EN	Muffler			(BOF)		1	EN-A-0228
	Muffler	b		Honda CBR 600 RR muffler		1	EN-228-038
	Muffler pipe	m				1	EN-228-072
			M	Steel	Steel pipe 40mm	1	EN-228-072-0152
			P	Cutting(Hand tool)		2	EN-228-072-0153
			P	Weld		2	EN-228-072-0154
	Process(Muffler)	m				1	EN-228-073
			F	Bolt	M6x20	2	EN-228-073-0155
			F	Nut	M6	2	EN-228-073-0156
			P	Assemble	To the muffler tabs	1	EN-228-073-0157
EN	Engine/Diff Oil			(BOF)		1	EN-A-0237
	Engine oil	b		Motul 15w-50 300V COMPETITION		1	EN-237-047
EN	Differential Mounts					1	EN-A-0238
	Differential mount left	m				1	EN-238-048
			M	Aluminum	7075 T6	1	EN-238-048-058
			P	Machining	CNC Machining	1	EN-238-048-059
			P	Assemble	To the differential left bearing	1	EN-238-048-0158
			P	Assemble	To the differential tab	1	EN-238-048-0160
			F	Bolt		2	EN-238-048-0201
			F	Nut		2	EN-238-048-0202
			P	Fastener Install (every)		4	EN-238-048-0203
			P	Assemble	To the rod end of differential mount tensioner	1	EN-238-048-0207
	Differential mount right	m				1	EN-238-049

			M	Aluminum	7075 T6	1	EN-238-049-060
			P	Machining	CNC machining	1	EN-238-049-061
			P	Assemble	To the differential right bearing	1	EN-238-049-0159
			P	Assemble	To the differential tab	1	EN-238-049-0161
			F	Bolt		1	EN-238-049-0204
			F	Nut		1	EN-238-049-0205
			P	Fastener Install (every)		4	EN-238-049-0206
					To the rod end of differential		
			P	Assemble	mount tensioner	1	EN-238-049-0208
	Rod end	b			M10 Right hand male	2	EN-238-074
	Rod end	b			M10 left hand, left hand male	2	EN-238-075
	Differential mount						
	tensioner	m				2	EN-238-076
			M	Steel		1	EN-238-076-0162
			P	Drilled hole	8.5mm	2	EN-238-076-0163
			P	Threading	M10 female (Left and right hand)	2	EN-238-076-0164
			F	Nut	M10 right hand nut	2	EN-238-076-0165
			F	Nut	M10 left hand nut	2	EN-238-076-0166
			P	Fastener Install (every)		4	EN-238-076-0167
			P	Assemble	To the rod end left hand	1	EN-238-076-0168
			P	Assemble	To the rod end right hand	1	EN-238-076-0169

EN	Overflow Bottles					1	EN-A-0240
	Catchcan tank	m				1	EN-240-050
			P	Assemble	To the catchcan tabs	1	EN-240-050-0105
			F	Bolt	M6x15	3	EN-240-050-0106
			F	Nut	M6	3	EN-240-050-0107
			F	Fastener Install (every)	M6	6	EN-240-050-0114
			M	Aluminum	1.5mm sheet metal	1	EN-240-050-0170
			P	Laser Cut		1	EN-240-050-0171
			P	Bending	45 degrees	4	EN-240-050-0172
			P	Weld		1	EN-240-050-0173
	Radiator overflow tank	b			Honda CBR600RR radiator overflow tank	1	EN-240-051
	Catchcan cap pipe	m				1	EN-240-077
			M	Aluminum		1	EN-240-077-0174
			P	Machining	Turning	1	EN-240-077-0175
			P	Threading		1	EN-240-077-0176
			P	Weld	To the catchcan box	1	EN-240-077-0180

	Catchcan cap	m				1	EN-240-078
			M	Aluminum		1	EN-240-078-0177
			P	Machining	Turning	1	EN-240-078-0178
			P	Assemble	Tighten to the catchcan pipe	1	EN-240-078-0179
	Catchcan sight tube mount	m				2	EN-240-079
			M	Aluminum		1	EN-240-079-0181
	Catchcan bleeder housing mount	m	P	Weld	To the catchcan box	1	EN-240-079-0182
						1	EN-240-080
			M	Aluminum		1	EN-240-080-0183
			P	Machining	Turning	1	EN-240-080-0184
			P	Threading		1	EN-240-080-0185
			P	Weld	To the catchcan box	1	EN-240-080-0186
			F	M8	M8x25	1	EN-240-080-0187
	Sight tube	b	P	Fastener Install (every)	With a sealing tape	1	EN-240-080-0188
						1	EN-240-082
	Oil vapor pipe inlet	m				1	EN-240-086
			M	Aluminum	Aluminum pipe	1	EN-240-086-0198
			P	Weld	To the catchcan box	1	EN-240-086-0199
			P	Assemble	Oil vapor pipe	1	EN-240-086-0200

EN	Radiator Fans					1	EN-A-0242
	Radiator fan	b				1	EN-242-052
		m				1	EN-242-083
	Process and fastener		P	Assemble	To the radiator	1	EN-242-083-0189
			F	Bolt	M5x25	4	EN-242-083-0190
			F	Nut	M5	4	EN-242-083-0191
			F	Washer	M5	4	EN-242-083-0192
			P	Fastener Install (every)		4	EN-242-083-0193

EN	Shields					1	EN-A-0243
	Radiator fan shield	b				1	EN-243-053
		m				1	EN-243-087
	Chain shield	m	P	Assemble	To the radiator fan	1	EN-243-087-0209
						1	EN-243-099
			M	Steel		1	EN-243-099-0245
			P	Laser Cut		1	EN-243-099-0246
			P	Bending		2	EN-243-099-0247

	P	Assemble	To the left differential mounting	1	EN-243-099-0248					
	P	Assemble	To the engine	1	EN-243-099-0249					
	F	Bolt		2	EN-243-099-0250					
	F	Nut		2	EN-243-099-0251					
	F	Washer		2	EN-243-099-0252					
	P	Fastener Install (every)		2	EN-243-099-0253					
EN	Intake Manifold			1	EN-A-0245					
	Bottom, Runner, Intake manifold	m		1	EN-245-055					
			M	Plastic	ABS Plastic	1	EN-245-055-083			
			P	3D Printing		1	EN-245-055-084			
			P	Assemble	To the intake port line on line	1	EN-245-055-0118			
			F	Bolt	M6x40	8	EN-245-055-0119			
			F	Washer	M6	16	EN-245-055-0120			
			F	Nut	M6	8	EN-245-055-0121			
			P	Fastener Install (every)		32	EN-245-055-0126			
			P	Sealing	Liquid seal applied	1	EN-245-055-0210			
			P	Assemble	To the upper, Intake manifold	1	EN-245-055-0240			
			Upper, Plenum, Intake manifold	m		1	EN-245-096			
					M	Plastic	ABS Plastic	1	EN-245-096-0237	
	P	3D Printing				1	EN-245-096-0238			
	P	Assemble			To the restrictor	1	EN-245-096-0239			
	F	Bolt			M4x25	8	EN-245-096-0241			
	F	Washer			M4	16	EN-245-096-0242			
	F	Nut			M4	8	EN-245-096-0243			
	P	Fastener Install (every)				32	EN-245-096-0244			
	EN	Restrictor			1	EN-A-0246				
		Restrictor			m		1	EN-246-056		
						M	Plastic	ABS Plastic	1	EN-246-056-085
						P	3D Printing		1	EN-246-056-086
			P	Assemble		To the throttle body	1	EN-246-056-0116		
P			Assemble	To the intake manifold		1	EN-246-056-0117			
F			Bolt	M6x20		6	EN-246-056-0122			
F			Washer			8	EN-246-056-0123			
F			Nut			6	EN-246-056-0124			
P			Fastener Install (every)			20	EN-246-056-0125			
EN			Throttle Body			(BOF)	1	EN-A-0247		

	Throttle Body	b		Bosch DBW 32mm electronic throttle body	1	EN-247-057
EN	Fuel Lines/Rails			(BOF)	1	EN-A-0261
	Fuel rail	b		Honda CBR 600 RR fuel rail	1	EN-261-071
	Fittings and adapters	m			1	EN-261-090
			F	Male flare to pipe	1	EN-261-090-0221
			F	Tube sleeve	1	EN-261-090-0222
			F	Tube nut	1	EN-261-090-0223
			F	Adapter, Male branch te	1	EN-261-090-0224
			F	Adapter, union	1	EN-261-090-0225
			P	Fastener Install (every)	9	EN-261-090-0226
			F	Hose Clamp	4	EN-261-090-0227
	Fuel hose	m		1.1 meters	1	EN-261-091
			P	Cut (scissors, knife)	6	EN-261-091-0228
			M	Silicone	1	EN-261-091-0229
EN	Radiator				1	EN-A-0271
	Heat exchanger	b		330x270mm(Kale radiator)	1	EN-271-081
	Radiator tank upper	b			1	EN-271-084
	Radiator tank lower	b			1	EN-271-085
EN	Exhaust Manifold			(BOF)	1	EN-A-0278
	Exhaust Manifold	b		Honda CBR 600RR Original Manifold	1	EN-278-088
	Assembling	m			1	EN-278-089
			F	Nut	8	EN-278-089-0211
			P	Fastener Install (every)	8	EN-278-089-0212
			P	Assemble	1	EN-278-089-0213
EN	Air Filter			(BOF)	1	EN-A-0284
	K&N Open Air Filter	b			1	EN-284-094
	Process	m			1	EN-284-095
			P	Assemble	1	EN-284-095-0236
EN	Engine			(BOF)	1	EN-A-0287
	Honda CBR 600RR 2016	b			1	EN-287-097

FRAME & BODY

Total

1

€ 56,303.51

€ 56,303.51

FR	Pedals				1	€ 969.50		FR-A-0300
	Pedals	b		Tilton 72-680	1	€ 625.00		FR-300-010
	Pedal Mounting Plate	m			1	€ 268.87		FR-300-011
			M	Carbon Fiber, 1 Ply	14	€ 3.74	0.32x0.32=0.1m2 0.1m2*200tl=20tl	FR-300-011-0103
			P	Vacuum Form	1	€ 8.42	0.1m2	FR-300-011-0104
			P	Cure	1	€ 196.00		FR-300-011-0105
			P	Machining	1	€ 1.14	29200m^3/piece	FR-300-011-0106
			F	Bolt	2	€ 0.04	0.19tl/piece	FR-300-011-0200
			F	Bolt	4	€ 0.03	0.15tl/piece	FR-300-011-0201
			P	Assemble	2	€ 0.37		FR-300-011-0205
			P	Assemble	1	€ 0.37		FR-300-011-0206
			P	Fastener Install (every)	12	€ 0.03		FR-300-011-0233
			F	Nut	6	€ 0.02	0.12tl/piece	FR-300-011-0250
			P	Lamination	14	€ 0.19	0.1 m2	FR-300-011-0268
			P	Resin Application	14	€ 0.47	0.1 m2	FR-300-011-0271
	Linear Guide	b			4	€ 4.68	25tl/piece	FR-300-012
	Linear Guide Mounting	b			4	€ 2.81	15tl/piece	FR-300-013
	Linear Guide Rail	m			2	€ 2.16		FR-300-014
			M	Steel	1	€ 1.05	0.28kgx20tl/kg=5.6t/piece	FR-300-014-028
			P	Tube cut	1		25s+tool	FR-300-014-029
			P	Assemble	2	€ 0.37		FR-300-014-0236
			P	Assemble	1	€ 0.37		FR-300-014-0377
	Power Screw	b			1	€ 6.55	35tl	FR-300-057
	Power Screw Mounting	b			1	€ 5.61	30tl	FR-300-058
	Electric Motor	b		12V DC	1	€ 13.10	70tl	FR-300-059
	Power Screw Nut	b			1	€ 2.06	11tl	FR-300-060
	Brake Pedal Potantimeter Linkage 1	m			1	€ 2.18		FR-300-063
			M	Aluminum	1	€ 0.17	36grams, 150x30mm	FR-300-063-0114
			P	Laser Cut	1	€ 0.34	2472mm^2	FR-300-063-0115

	P	Assemble		To the Brake Potantimeter Linkage 2	1	€ 0.37		FR-300-063-0116
					2	€ 0.65		FR-300-063-0121
	m	Assemble		To the Brake Potantimeter Linkage 2	1	€ 1.45		FR-300-064
					1	€ 0.07	15grams, 25x70mm	FR-300-064-0117
					1	€ 0.36	1310mm^2	FR-300-064-0118
					1	€ 0.37		FR-300-064-0119
					1	€ 0.65		FR-300-064-0123
					3	€ 1.44	8TL	FR-300-065
	m	Assemble		Needle Roller Bearing K4x7x7TN	1			FR-300-080
					1	€ 2.55		
					1	€ 0.14	70grams	FR-300-080-0208
					1			FR-300-080-0209
					2	€ 0.56		FR-300-080-0210
					4	€ 0.04		FR-300-080-0211
					1	€ 0.65		FR-300-080-0212
					12	€ 0.03		FR-300-080-0213
					4	€ 0.02	0.12tl/piece	FR-300-080-0251
					4	€ 0.01	0.06tl/piece	FR-300-080-0252
					1	€ 1.02	10tl	FR-300-081
					1	€ 2.52		FR-300-085
					4	€ 0.04	0.19tl/piece	FR-300-085-0237
					4	€ 0.02	0.12tl/piece	FR-300-085-0238
					8	€ 0.03		FR-300-085-0239
					1	€ 0.37		FR-300-085-0240
					1	€ 0.37		FR-300-085-0241
					2	€ 0.65		FR-300-085-0320

FR	Frame/Frame Tubes				1	€ 258.45		FR-A-0305
	Anti Intrusion Plate	m	M	Steel,Alloy	1	€ 4.91		FR-305-015
					1	€ 1.09	1.45kg/piece	FR-305-015-020

		P	Cut (manual)		2	€ 0.19		FR-305-015-021
		P	Weld	To the front bulkhead	1	€ 2.80	1420mm	FR-305-015-0214
		P	Assemble	To the impact attenuator with adhesive	1	€ 0.65		FR-305-015-0373
	Frame tubes I	m		Front bulkhead, front and main hoop bracings, side and side support members, middle lower support members	1	€ 12.95		FR-305-026
		M	Steel	Grade:S460MC (25x1.6mm tube)	1	€ 12.95	11.246meters/piece, 10.56kg	FR-305-026-0215
	Frame tubes II	m		Rear bulkhead tubes, rear side members, front lower diagonal member, front side diagonal members	1	€ 16.35		FR-305-027
		M	Steel	Grade:S460MC (25x1.4mm tube)	1	€ 16.35	16.32meters/piece, 13.34 kg	FR-305-027-0216
	Frame tubes III	m		Main hoop, front hoop and shoulder harness tubes	1	€ 7.97		FR-305-029
		M	Steel	Grade:S355MC (30x2mm tube)	1	€ 7.97	7.8meters/piece ,6.5 kg	FR-305-029-0218
	Process and Tooling	m			1	€ 216.27		FR-305-083
		P	Weld	TIG Welding	1	€ 32.74	16820mm	FR-305-083-0224
		T	Welding Fixture	At below	1			FR-305-083-0322
		M	Steel	AISI 1020 Sheet metal(Fixture material I)	1	€ 26.00	34.55kg/piece	FR-305-083-0382
		P	Laser Cut		1	€ 32.36	57,792m*2mm =115584mm^2	FR-305-083-0383
		M	Steel	AISI 1020 Steel profile(Fixture material II)	1	€ 42.56	56.74kg/piece	FR-305-083-0384
		P	Laser Cut	5 axes laser cut	1	€ 82.61	Total=10,340mm 11piecex1.87E/piece =20.57Euro	FR-305-083-0392
FR	Shifter			Flat Shifter Max, Electric Solenoid Gear Shift System	1	€ 863.57		FR-A-0307
	Electronic Actuator	b			1	€ 650.00		FR-307-017
	Paddle shift	b			1	€ 200.00		FR-307-018
	Assembling	m			1	€ 2.03		FR-307-090
		P	Assemble	Electronic actuator to the actuator mount	2	€ 0.37		FR-307-090-0277

Actuator mount	m	F	Bolt	M6x15(DIN 933)	4	€ 0.12		FR-307-090-0278
		F	Nut	M6(DIN 985)	4	€ 0.05		FR-307-090-0279
		P	Fastener Install (every)		8	€ 0.03		FR-307-090-0280
		P	Assemble	To the shifter linkage l	1	€ 0.37		FR-307-090-0281
					2	€ 5.77		FR-307-091
		M	Aluminum		1		72623	FR-307-091-0282
							35120m^3=0.54E	
		P	Machining	Turning	1	€ 1.00	1 piece=0.561E	FR-307-091-0283
		P	Drilled hole	D6	3	€ 0.56		FR-307-091-0284
		P	Assemble	To the quick shifter tab	1	€ 0.37		FR-307-091-0285
		F	Bolt	M6x25(DIN 933)	1	€ 0.04		FR-307-091-0286
		F	Nut	M6(DIN 985)	1	€ 0.02		FR-307-091-0287
		P	Fastener Install (every)		2	€ 0.03		FR-307-091-0288
		P	Attach wire	From paddle shifter	4	€ 0.65		FR-307-091-0321

FR	Floor Pan			Flat carbon fiber floor pan	1	€ 1,126.90		FR-A-0309
	Floor pan, front	m			1	€ 240.33		FR-309-019
			M	Carbon Fiber, 1 Ply	10	€ 13.85	0.37m^2	FR-309-019-025
			F	Bolt	10	€ 0.04		FR-309-019-0202
			P	Resin Application	10	€ 1.73	0.37m^2	FR-309-019-0228
			F	Nut	10	€ 0.02		FR-309-019-0245
			P	Fastener Install (every)	10	€ 0.03	5,33mins	FR-309-019-0246
			P	Drilled hole	10	€ 0.06		FR-309-019-0375
			F	Washer	10	€ 0.01		FR-309-019-0391
			P	Lamination	10	€ 0.69	0.37m^2	FR-309-019-0393
			T	Infusion Molding	1	€ 31.15	0.37m^2	FR-309-019-0395
			P	Cure	1	€ 44.88	8 hours	FR-309-019-0396
	Diffuser with middle floor pan	m			1	€ 886.57		FR-309-042
			M	Carbon Fiber, 1 Ply	5	€ 62.12	1.66m^2	FR-309-042-035
			P	Resin Application	5	€ 7.75	1.66m^2	FR-309-042-0243
			F	Bolt	10	€ 0.05	0.25tl/piece	FR-309-042-0247
			F	Nut	10	€ 0.02		FR-309-042-0248
			P	Fastener Install (every)	20	€ 0.03		FR-309-042-0249
			T	Infusion molding	1	€ 139.73	1.66m^2	FR-309-042-0260
			P	Drilled hole	10	€ 0.06	10minutes	FR-309-042-0376
			P	Lamination	5	€ 3.10	1.66m^2	FR-309-042-0394
			P	Cure	1	€ 44.88	8 hours	FR-309-042-0397
			T	Mold	1	€ 335.23	Material weight(wood)=83kg CNC Router machining=75742160	FR-309-042-0398

FR	Mounts Integral to Frame				1	€ 142.65		FR-A-0312
	Engine Mounting tube	m			2	€ 19.47		FR-312-022
		M	Steel	Steel tube AISI1020 (19x1)	2	€ 0.45 0.93meter,0.6kg		FR-312-022-036
		M	Steel	Steel tube S460MC (25.4x1.4)	1	€ 0.74 0.72meters,0.6kg		FR-312-022-0125
		P	Laser Cut		1	€ 6.24 1040		FR-312-022-0126
						6600mm^2 laser cut=		
		T	Welding Fixture		1	€ 3.31 1.85Euro		FR-312-022-0132
						124000mm^2 steel		
		P	Weld	To the chassis	1	€ 4.32 720mm		FR-312-022-0136
		P	Assemble	To the engine	3	€ 0.65		FR-312-022-0374
		F	Bolt	M12X90 (DIN 912)	1	€ 0.33 1.78		FR-312-022-0385
		F	Nut	M12 (DIN 985)	3	€ 0.14 0.76		FR-312-022-0386
						240mm		
		F	Bolt	M12 (DIN 976) threaded rod	1	€ 1.26 36.5tl/meter=6.82E/meter		FR-312-022-0387
	Steering mounting tube	m			2	€ 2.69		FR-312-024
		M	Steel	AISI 1020 Steel tube (19x1.5mm)	1	€ 0.10 0.17m,0.125		FR-312-024-0124
						1368mm^3=0.025E		
		P	Machining	Milling	1	€ 1.15 2 side of the tube(2 setup)		FR-312-024-0129
						=1.122E		
						2240mm^2 laser cut=		
		T	Welding Fixture		1	€ 0.80 0.64Euro		FR-312-024-0131
						11600mm^2 steel		
						area,0.2kg= 0.15Euro		
		P	Weld	To the front suspension mounting profile	1	€ 0.65 0.333m		FR-312-024-0137
	Front suspension mounting profile	m			1	€ 2.40		FR-312-025
		M	Steel	Steel tube AISI 1020 30x35mm	1	€ 0.59 0.4meter 0.78kg		FR-312-025-0128
						2026m^2=0.38E		
						2 side of the tube(2 setup)		FR-312-025-0130
		P	Machining	Milling	1	€ 1.50 =1.122E		
		P	Weld	To the chassis	1	€ 0.31 159.6mm		FR-312-025-0138
	Differential housing tab	m			8	€ 4.04		FR-312-030
		M	Steel	AISI 1020 5mm	1	€ 0.02 595.42mm^2x5mm,0.0233kg		FR-312-030-041
		P	Laser Cut		1	€ 0.22 162mm*5mm=810mm^2		FR-312-030-042
		P	Weld	To the chassis	1	€ 0.36 185mm		FR-312-030-043

					1	12310mm^2 laser cut= 3.44Euro	
						11600mm^2 steel area are, 1.36kg= 1.02Euro	FR-312-030-044
Fuel tank tab	m	T	Welding Fixture		3	€ 3.44	
		M	Steel	AISI 1020 1mm	1	€ 0.13	FR-312-031
		P	Laser Cut		1	€ 0.01	1309mm^2*1mm, 0.01kg
		P	Weld	To the chassis	1	€ 0.05	180mm^2
					1	€ 0.07	35mm
Battery mounting tab	m				3	€ 0.15	FR-312-032
		M	Steel	AISI 1020 2 mm	1	€ 0.02	1310mm^2 0.02kg
		P	Laser Cut		1	€ 0.06	113mm*2mm=226mm^2
		P	Weld	To chassis	1	€ 0.07	35mm
Seat bracket tab	m				2	€ 3.57	FR-312-033
		M	Steel	AISI 1020 3mm	1	€ 0.03	1830mm^2, 0.043kg(total)
		P	Laser Cut		1	€ 0.25	178mm*5mm=890mm^2(total)
		P	Weld	To the chassis	2	€ 0.26	138mm(total)
		T	Welding Fixture		1	€ 2.77	Material weight(Al)=0.45kg
Fire wall tab	m				6	€ 0.12	Laser area=1785*1.5=2678
		M	Steel	AISI 1020 1mm	1	€ 0.01	970mm^2, 0.008kg
		P	Laser Cut		1	€ 0.05	165mm^2
		P	Weld	To the chassis	1	€ 0.06	28mm
Suspension arm tabs	m				2	€ 10.87	FR-312-035
		M	Steel	AISI 1020 5mm	16	€ 0.03	1100.68mm^2*5mm(average), 0.043kg
		P	Laser Cut		16	€ 0.30	215mm*5mm=1075(average)
		P	Weld	To the chassis	16	€ 0.15	78.84mm(average)
		T	Welding Fixture		1	€ 3.09	Material weight(St1020)=0.85kg
Bell crank tab	m				2	€ 2.50	Laser area=5842*1.5=8763
		M	Steel	AISI 1020 5mm	4		925mm^2
		P	Laser Cut		4	€ 0.30	214.5mm*5mm=1072.5mm^2
		P	Weld	To the chassis	4	€ 0.16	86mm
		T	Welding Fixture		1	€ 0.66	Material weight (St1020)=0.18kg
Damper tab	m				2	€ 2.66	Laser area=1251*1.5=1876mm^2
		M	Steel	AISI 1020 5mm	4		912mm^2

		P	Laser Cut		4	€ 0.24	173.21mm*5mm=866m^2	FR-312-037-067
		P	Weld	To the chassis	4	€ 0.12	64mm	FR-312-037-068
		T	Welding Fixture		1	€ 1.21	Material weight (St1020)=0.33kg Laser area=2324*1.5=3486	FR-312-037-069
	Muffler mounting tab				2	€ 0.18		FR-312-039
		M	Steel	AISI 1020 3mm	1	€ 0.02	1410mm^2,0.033kg	FR-312-039-094
		P	Laser Cut		1	€ 0.10	120.27mm*3mm=360.81m^2	FR-312-039-095
		P	Weld	To the chassis	1	€ 0.06	33mm	FR-312-039-096
	Quick shifter tab				2	€ 0.26		FR-312-043
		M	Steel	AISI 1020 3mm	1	€ 0.02	1387mm^2,0.033kg	FR-312-043-070
		P	Laser Cut		1	€ 0.15	174.14mm*3mm=522.42	FR-312-043-071
		P	Weld	To the chassis	1	€ 0.09	48mm	FR-312-043-072
	Dashboard tab				4	€ 0.11		FR-312-044
		M	Steel	AISI 1020 1.5mm	1	€ 0.01	841mm^2,0.01kg	FR-312-044-073
		P	Laser Cut		1	€ 0.06	137.49mm*1.5mm=206.2m^2	FR-312-044-074
		P	Weld	To the chassis	1	€ 0.05	28mm	FR-312-044-075
	Catchcan tab				2	€ 0.10		FR-312-055
		M	Steel	AISI 1020 1mm	1	€ 0.01	1242mm^2,0.01kg	FR-312-055-076
		P	Laser Cut		1	€ 0.03	108.56mm^2	FR-312-055-077
		P	Weld	To the chassis	1	€ 0.06	31mm	FR-312-055-078
	Electronic box tab				2	€ 0.15		FR-312-056
		M	Steel	AISI 1020 1.5mm	1	€ 0.01	885mm^2,0.01kg	FR-312-056-097
		P	Laser Cut		1	€ 0.06	152.3mm*1.5mm=228.45m^2	FR-312-056-098
		P	Weld	To the chassis	1	€ 0.08	46mm	FR-312-056-099
	Rack mounting profile				1	€ 2.13		FR-312-066
		M	Steel	AISI1020 Steel profile(50x25mm)	1	€ 0.67	0.4m, 0.9kg 1368mm^3=0.025E	FR-312-066-0127
		P	Machining	Milling	1	€ 1.15	2 side of the tube(2 setup) =1.122E	FR-312-066-0133
		P	Weld	To the chassis	1	€ 0.31	160.7mm	FR-312-066-0139
	Head restraint tube				3	€ 2.78		FR-312-082
		M	Steel	Grade:AISI 1020(19X1.5mm)	1	€ 0.11	0.22m, 0.14kg(avarage)	FR-312-082-0220
		P	Laser Cut	5 axes laser cut	1	€ 2.48	102.68mm(avarage) 1 piece	FR-312-082-0221
		P	Weld	To the main hoop and to between	1	€ 0.19	102.68mm(avarage)	FR-312-082-0222
	Head restraint tab				2	€ 0.29		FR-312-084

<	Battery box	m	M	Steel	AISI 1020 3 mm	1		2347mm^2*3mm	FR-312-084-0225
			P	Laser Cut		1	€ 0.23	283.3mm*3mm=849.9mm^2	FR-312-084-0226
			P	Weld	To the head restraint tube	1	€ 0.06	32mm	FR-312-084-0227
						1	€ 10.02		FR-312-086
			M	Aluminum	1.5mm sheet aluminum 6061 T6	1	€ 0.76	37410mm^2*1.5mm,0.17kg	FR-312-086-0253
			P	Cut(Manual)		14	€ 0.19		FR-312-086-0254
			P	Bending		9	€ 0.56		FR-312-086-0255
			P	Weld	With the sheet aluminum	1	€ 0.08	42mm(total)	FR-312-086-0256
			P	Drilled hole	D5	2	€ 0.56		FR-312-086-0257
			P	Assemble	To the battery mounting tabs	1	€ 0.37		FR-312-086-0258
			P	Fastener install(every)		1	€ 0.03		FR-312-088
			F	Bolt	M6x16(DIN 933)	2	€ 0.03	0.15tl/piece	
			F	Nut	M6(DIN 985)	2	€ 0.02		

FR	Tube End Preps					1	€ 8.16		FR-A-0313
	Chassis tubes	m				1	€ 8.16		FR-313-023
			P	Grinding	91 tubes	1	€ 8.16	Total=13.1m	FR-313-023-031

FR	Tube Cuts/Bends					1	€ 46,607.28		FR-A-0330
	Chassis tube cuts	m				91	€ 511.84		FR-330-040
			P	Laser Cut	5 axes laser cut	2	€ 255.92	Total=14.32m 91 piece=1.87E*91	FR-330-040-033
	Tube bend	m				1	€ 29.84		FR-330-041
			P	Bending	Roll bending(main hoop)	4	€ 7.46		FR-330-041-034

FR	Body Attachments					1	€ 14.40		FR-A-0335
	Body plate tabs	m				64	€ 0.14		FR-335-045
			M	Steel	AISI 1020 1.5mm	1	€ 0.01	841mm^2,0.01kg	FR-335-045-079
			P	Laser Cut		1	€ 0.06	152.3mm*1.5mm=228.45m^2	FR-335-045-080
			P	Weld	To the chassis	1	€ 0.07	36mm	FR-335-045-081
	Body nose tabs	m				4	€ 0.14		FR-335-047
			M	Steel	AISI 1020 1.5mm	1	€ 0.01	841mm^2,0.01kg	FR-335-047-091
			P	Laser Cut		1	€ 0.06	152.3mm*1.5mm=228.45m^2	FR-335-047-092
			P	Weld	To the chassis	1	€ 0.07	36mm	FR-335-047-093
	Diffuser and middle floor pan tabs	m				12	€ 0.22		FR-335-053
			M	Steel	AISI 1020 3mm	1	€ 0.02	1110mm^2*3mm,0.01kg	FR-335-053-085

	Floor pan tabs	m	P	Laser Cut		1	€ 0.13	157.3mm*3mm=472mm^2	FR-335-053-086
			P	Weld	To the chassis	1	€ 0.07	34mm	FR-335-053-087
						8	€ 0.29		FR-335-054
			M	Steel	AISI 1020 3mm	1	€ 0.03	1620mm^2(avarage)*3mm, 0.038kg	FR-335-054-088
			P	Laser Cut		1	€ 0.16	192mm(avarage)*3mm =576mm^2	FR-335-054-089
			P	Weld	To the chassis	1	€ 0.10	50mm	FR-335-054-090
FR	Shifter Cable/Linkage					1	€ 6.64		FR-A-0339
	Shifter linkage I	m				1	€ 0.74		FR-339-049
			M	Aluminum		1	€ 0.04	422mm^2*8mm,0.01kg	FR-339-049-037
	Shifter linkage II	m	P	Laser Cut		1	€ 0.33	149.12*8mm=1192.96mm^2	FR-339-049-038
			P	Assemble	To the Shifter linkage II	1	€ 0.37		FR-339-049-0272
						1	€ 0.79		FR-339-050
			M	Aluminum		1	€ 0.05	522mm^2,0.013	FR-339-050-039
			P	Laser Cut		1	€ 0.37	169.12*8=1353mm^2	FR-339-050-040
			P	Assemble	To the shifter stick	1	€ 0.37		FR-339-050-0273
	Rod end	b			M6 female right hand rod end	1	€ 2.43		FR-339-051
	Bearing	b			Needle roller bearing	2	€ 1.34		FR-339-052
FR	Throttle Controls					1	€ 19.06		FR-A-0357
	Accelerator Potantimeter Linkage 2	m				2			FR-357-076
							€ 2.46		
	Potentiometer rod	m	M	Aluminum	8mm sheet aluminum (6061 T6)	1	€ 0.17	37grams	FR-357-076-0190
			P	Laser Cut		1	€ 0.34	2472mm^2	FR-357-076-0191
			P	Assemble	To the Bearing (K4x7x7TN)	1	€ 0.65		FR-357-076-0193
			P	Assemble	To the roller thrust bearing	2	€ 0.65		FR-357-076-0194
						1	€ 3.52		FR-357-077
			M	Aluminum	Aluminum rod D=5mm	1	€ 0.05		FR-357-077-0195
			P	Cut(hand tool)	With Dremel	1	€ 2.80		FR-357-077-0196
					To accelerator Potantimeter Linkage 2	1	€ 0.00	2	FR-357-077-0197
	P	Weld							
	P	Assemble	Potentiometer	1	€ 0.67		FR-357-077-0198		
	Bearing	b			Needle roller bearing (K4x7x7TN)	4	€ 1.44		FR-357-078
	Bearing	b			Roller thrust bearing	2	€ 1.02		FR-357-079
	Accelerator Potantimeter Linkage 2	m			Same processes with brake potentiometer 1	2	€ 1.41		FR-357-0107

		M	Aluminum	Aluminum plate	1	€ 0.07	0.07	FR-357-0107-0400
		P	Laser Cut		1	€ 0.04	1310mm^2	FR-357-0107-0401
		P	Assemble	To the potentiometer	1	€ 0.65		FR-357-0107-0402
		P	Assemble	To the needle bearing(k4x7x7tn)	1	€ 0.65		FR-357-0107-0403
FR	Aerodynamic Wings				1	€ 4,582.09		FR-A-0358
	Front wing air foils	m	Made as upper-lower		7	€ 482.93		FR-358-068
		M	Carbon Fiber, 1 Ply	3k carbonfiber 200gr/m2	3	€ 44.90	1,2m^2	FR-358-068-0140
		T	Mold	Wooden mold	2	€ 32.74	2hours	FR-358-068-0141
		P	Resin Application		6	€ 5.60	1,2m^2	FR-358-068-0142
		P	Cure	at 30 degree C	1	€ 44.88	8 hours	FR-358-068-0143
		P	Lamination		1	€ 2.24	1,2m^2	FR-358-068-0264
		T	Infusion molding	As upper and lower	2	€ 101.01	1.2m^2	FR-358-068-0270
	Front end plate	m			2	€ 83.73		FR-358-069
		M	Carbon Fiber, 1 Ply	3k carbonfiber 200gr/m2	3	€ 3.74	0,1m^2	FR-358-069-0144
		M	Wood	Balsa wood-1mm	1	€ 1.26	0.1m^2,0.079kg	FR-358-069-0145
		P	Resin Application		3	€ 0.47	0,1m^2	FR-358-069-0146
		P	Cure		1	€ 44.88		FR-358-069-0147
		T	Mold	Wooden mold	1	€ 16.37		FR-358-069-0150
		P	Lamination		1	€ 0.19		FR-358-069-0265
		T	Infusion molding		1	€ 8.41	0,1m^2	FR-358-069-0269
	Rear end plate	m			2	€ 117.05		FR-358-070
		M	Carbon Fiber, 1 Ply	3k carbonfiber 200gr/m2	6	€ 9.73	0,26m^2	FR-358-070-0148
		M	Wood	Balsa wood-1mm	1	€ 3.17	0,2kg	FR-358-070-0149
		P	Resin Application		6	€ 1.21	0,26m^2	FR-358-070-0151
		P	Cure		1	€ 44.88		FR-358-070-0152
		P	Lamination		1	€ 0.48		FR-358-070-0266
		P	Drilled hole		1	€ 0.19		FR-358-070-0341
		P	Assemble	To the front air foils	3	€ 0.67		FR-358-070-0345
		F	Bolt	M6x25(DIN 933)	4	€ 0.04		FR-358-070-0388
		F	Nut	M6(DIN 985)	4	€ 0.02		FR-358-070-0389
		F	Washer	M6(DIN 125)	4	€ 0.01		FR-358-070-0390
		P	Fastener Install (every)		12	€ 0.03		FR-358-070-0399
	Front middle plate	m			2	€ 71.32		FR-358-075
		M	Carbon Fiber, 1 Ply	3k carbonfiber 200gr/m2	4	€ 4.11	0,11m^2	FR-358-075-0175
		P	Resin Application		4	€ 0.51		FR-358-075-0176
		P	Cure		1	€ 44.88		FR-358-075-0177
		P	Lamination		1	€ 0.75		FR-358-075-0267
		P	Drilled hole	D6	7	€ 0.19		FR-358-075-0336

Assembling, front wing	m	F	Bolt	M6x25(DIN 933)	7	€ 0.16		FR-358-075-0337
		F	Washer	M6(DIN 985)	7	€ 0.20		FR-358-075-0338
		F	Bolt	M6(DIN 125)	7	€ 0.01		FR-358-075-0339
		P	Fastener Install (every)		21	€ 0.03		FR-358-075-0340
		P	Assemble	To the front wing tabs	1	€ 0.65		FR-358-075-0343
		P	Assemble	To the front wing foils	3	€ 0.65		FR-358-075-0344
					1	€ 9.10		FR-358-099
		P	Assemble	Front foils to the front middle plate	7	€ 0.65		FR-358-099-0325
		P	Assemble	Front end plate to the front air foils	7	€ 0.65		FR-358-099-0326
					17	€ 21.33		FR-358-0100
Core, front wing air foils	m	M	Aluminum	5mm sheet aluminum	1	€ 0.18	40grams=0.04kg	FR-358-0100-0328
		P	Laser Cut		1	€ 2.01	1436mm*5mm=7180mm^2	FR-358-0100-0329
		P	Bonding	In to the front air foils (Epoxy adhesive)	1	€ 0.25	0,0034m^2	FR-358-0100-0330
		P	Grinding	P80 Sandpaper	1	€ 0.89	1.436m	FR-358-0100-0331
		F	Screw gear	M5	12	€ 0.04		FR-358-0100-0332
		F	Nut	M5(DIN 985)	24	€ 0.02		FR-358-0100-0333
		P	Fastener Install (every)		60	€ 0.28		FR-358-0100-0334
		F	Washer	M5(DIN 985)	24	€ 0.01		FR-358-0100-0335
					1	€ 233.31		FR-358-0101
		M	Carbon Fiber, 1 Ply	3k carbon fiber 200gr/m2	3	€ 12.35	0,33m^2	FR-358-0101-0346
Rear wing air foils	m	P	Resin Application		6	€ 1.54		FR-358-0101-0347
		P	Cure		2	€ 28.00		FR-358-0101-0348
		P	Vacuum Form		2	€ 27.78		FR-358-0101-0349
		P	Lamination		1	€ 0.62		FR-358-0101-0350
		T	Injection Molding	As upper and lower	2	€ 37.42	1hour	FR-358-0101-0351
					1	€ 51.67		FR-358-0102
		M	Aluminum	5mm and 8mm sheet aluminum	1	€ 0.27	60grams	FR-358-0102-0352
		P	Laser Cut		1	€ 39.38	1,5meters	FR-358-0102-0353
		P	Bonding	In to the front air foils (Epoxy adhesive)	1	€ 0.02	0034m^2	FR-358-0102-0354
		P	Grinding	P80 Sandpaper	1	€ 0.08	30seconds	FR-358-0102-0355
Core, rear wing air foils	m	F	Screw gear	M5 (DIN 976)	6	€ 1.77	7.9tl/m, 1.2m	FR-358-0102-0356
		F	Nut	M5 (DIN 985)	12	€ 0.02	0.1tl/piece	FR-358-0102-0357
		F	Washer	M5 (DIN 125)	12	€ 0.01	0.04tl/piece	FR-358-0102-0358

	Assembling, rear wing foils	m	P	Fastener Install (every)		30	€ 0.03		FR-358-0102-0359
						1	€ 0.67		FR-358-0103
			P	Assemble	To the chassis with rear wing mountings	1	€ 0.67		FR-358-0103-0360
FR	Body Material					1	€ 0.00		FR-A-0361
	Carbon fiber	m		3k carbonfiber 200gr/m2		3	€ 0.00	2.4	FR-361-071
FR	Body Processing					1	€ 1,468.12		FR-A-0362
	Mold	m				3	€ 382.81		FR-362-072
			M	Wood		1	€ 61.44	72kg+55kg=128kg	FR-362-072-0153
			P	Machining	CNC Milling-	1	€ 321.37	CNC Router=71353142mm^3+93455203m m^3	FR-362-072-0154
			P	Grinding		1			FR-362-072-0155
	Lay out, nose body I and II	m	P	Liquid Application	Release agent application	1			FR-362-072-0156
					To the mold(1,3m^2)	1	€ 180.27		FR-362-073
			P	Lamination	3k carbonfiber 200gr/m2	1	€ 2.43	(1,3m^2)	FR-362-073-0157
			P	Resin Application		1	€ 6.07	(1,3m^2)	FR-362-073-0158
			P	Lamination	3k carbonfiber 200gr/m2	1	€ 2.43	(1,3m^2)	FR-362-073-0159
			P	Resin Application		1	€ 6.07	(1,3m^2)	FR-362-073-0160
			P	Lamination	3k carbonfiber 200gr/m2	1	€ 2.43	(1,3m^2)	FR-362-073-0161
			P	Resin Application		1	€ 6.07	(1,3m^2)	FR-362-073-0162
			P	Cure		1	€ 44.88	8 hours	FR-362-073-0163
			P	Cut(hand tool)	With Dremel	1	€ 8.24	2.93m	FR-362-073-0164
			P	Grinding		1	€ 1.83	2.93m	FR-362-073-0165
			P	Infusion molding		1	€ 84.18	(1,3m^2)	FR-362-073-0179
			P	Vacuum fabric lay down	Flow mesh	1	€ 2.43	(1,3m^2)	FR-362-073-0229
			P	Vacuum fabric lay down	Peel ply	1	€ 2.43	(1,3m^2)	FR-362-073-0230
			M	Peel ply		1	€ 8.02	(1,3m^2)	FR-362-073-0378
	M	Flow mesh		1	€ 2.76	(1,3m^2)	FR-362-073-0379		
	Lay out, body panels	m			2.2m^2	1	€ 139.42		FR-362-074
			P	Lamination	3k carbonfiber 200gr/m2	1	€ 4.11	(2.2m^2)	FR-362-074-0166
			P	Resin Application		1	€ 10.27	(2.2m^2)	FR-362-074-0167
			P	Lamination	3k carbonfiber 200gr/m2	1	€ 4.11	(2.2m^2)	FR-362-074-0168
			P	Resin Application		1	€ 10.27	(2.2m^2)	FR-362-074-0169

	P	Lamination	3k carbonfiber 200gr/m2	1	€ 4.11	(2.2m^2)	FR-362-074-0170
	P	Resin Application		1	€ 10.27	(2.2m^2)	FR-362-074-0171
	P	Cure		1	€ 44.88	8 hours	FR-362-074-0172
	P	Machining	CNC Router 2.2 m2 cut to 20 parts(as 10 left and 10 right body panels)	1	€ 8.18	with 6mm milling cutter From 1 piece plate	FR-362-074-0173
	P	Grinding		1	€ 16.82	26994mm	FR-362-074-0174
	P	Vacuum fabric lay down	Peel ply	1	€ 4.11	(2.2m^2)	FR-362-074-0231
	P	Vacuum fabric lay down	Flow mesh	1	€ 4.11	(2.2m^2)	FR-362-074-0232
	M	Peel ply		1	€ 13.50	(2.2m^2)	FR-362-074-0380
	M	Flow mesh		1	€ 4.68	(2.2m^2)	FR-362-074-0381
FR	Rear Wing Attachments			1	€ 219.69		FR-A-0382
		Rear wing attachment mount(wing side)	m				
				Integrals to the rear wing	5	€ 4.67	FR-382-092
	M	Aluminum	3mm	1	€ 0.07	1813mm^2*3mm,0.017kg	FR-382-092-0289
	P	Laser Cut		1	€ 0.21	258mm*3mm=774mm^2	FR-382-092-0290
	P	Bending		1	€ 0.56		FR-382-092-0291
	P	Bonding	To the rear wing (Epoxy based adhesive)	1	€ 0.04	562mm^2	FR-382-092-0292
	P	Surface cleaning	Clean the wing surface with acetone	1	€ 0.13	7252mm^2	FR-382-092-0293
	P	Etching	Rear wing attachments with phosphoric acid	1	€ 2.81	1813mm^2	FR-382-092-0294
	P	Assemble	To the rear wing attachment	1	€ 0.37		FR-382-092-0295
	P	Surface cleaning	Water and acetone applied to the rear wing attachment mount	1	€ 0.13	7252mm^2	FR-382-092-0307
	P	Assemble	To the rear wing	1	€ 0.35		FR-382-092-0364
		Tube, rear wing attachment	m				
					5	€ 9.61	FR-382-093
	M	Carbon Fiber, 1 Ply	Carbon fiber pipe 20x1mm(+90-0 degrees plies)	1	€ 8.48	432mm(avarage)	FR-382-093-0296
	P	Tube cut	Diamond saw	1	€ 0.93		FR-382-093-0297
	P	Grinding	With p80 sandpaper	1	€ 0.04	62.83mm	FR-382-093-0298

Insert, rear wing wing attachment	m	P	Covering	To prevent the adhesive rub on	1	€ 0.06		FR-382-093-0299
		P	Surface cleaning	Acetone applied	1	€ 0.11	6361.7mm^2	FR-382-093-0300
				D=17.85 M8 left and right thread	10	€ 5.38		FR-382-094
		M	Aluminum	7075 T6	1	€ 0.11	9424.78mm^3,0.025kg	FR-382-094-0301
		P	Machining	Turning	1	€ 0.58	1531mm^3 1 piece=0.561Euro	FR-382-094-0302
		P	Tapping Holes	D4.5	1	€ 0.56		FR-382-094-0303
		P	Threading	M6	1	€ 0.94		FR-382-094-0304
		P	Etching	Phosphoric acid	1	€ 2.81	1233mm^2	FR-382-094-0305
		P	Surface cleaning	Water and acetone applied	1	€ 0.02	1233mm^2	FR-382-094-0306
Assembling, rear wing wing attachment	m	P	Assemble	To the rear wing attachment tube	1	€ 0.37		FR-382-094-0308
					5	€ 13.65		FR-382-095
		P	Bonding	Insert and tube of the rear wing attachment	2	€ 0.09	1233mm^2	FR-382-095-0309
		P	Cure	Thermal curing	1	€ 11.68	75 minutes	FR-382-095-0310
		P	Assemble	Rod end install M6(M6 right and left thread male)	2	€ 0.37		FR-382-095-0311
		P	Assemble	To rear wing mount (wing side)	1	€ 0.37		FR-382-095-0312
		P	Assemble	To rear wing mount (chassis side)	1	€ 0.37		FR-382-095-0313
		F	Bolt	M6x40(DIN 933)	2	€ 0.07	0.39tl/piece	FR-382-095-0314
		F	Nut	M6 (DIN 985)	2	€ 0.02		FR-382-095-0315
M6 Male Joint Right Thread Rod End	b	P	Fastener Install (every)		4	€ 0.03		FR-382-095-0316
					5	€ 2.43		FR-382-096
M6 Male Joint Left Thread Rod End	b				5	€ 2.43		FR-382-097
Rear wing attachment tabs	m				10	€ 0.19		FR-382-098
		M	Steel	AISI 1020 (3mm)	1	€ 0.01	628.5mm^2(avarage),0.015kg	FR-382-098-0317
		P	Laser Cut		1	€ 0.10	120.27mm*3mm=360.81mm^2	FR-382-098-0318
		P	Weld		1	€ 0.08	46mm	FR-382-098-0319

FR	Clutch					1	€ 17.00		FR-A-0394
	Clutch mechanism	m				1	€ 2.30		FR-394-0104
			M	Plastic	Polyamid bar	1	€ 0.93	5tl/piece	FR-394-0104-0365
			P	Machining	Turning	1	€ 0.61	3740mm^3	FR-394-0104-0366
			F	Bolt	M6x40(DIN 933)	1	€ 0.07		FR-394-0104-0367
			F	Nut	M6 (DIN 985)	2	€ 0.02		FR-394-0104-0368
			P	Assemble	To the clutch wire	1	€ 0.65		FR-394-0104-0369
	Clutch wire	b				1	€ 14.02	30tl/meter ,2.5meters	FR-394-0105
	Clutch wire bracket	m				1	€ 0.68		FR-394-0106
			M	Steel		1	€ 0.03	0.043kg	FR-394-0106-0370
			P	Laser Cut		1	€ 0.09	328.45m^2	FR-394-0106-0371
			P	Bending		1	€ 0.56		FR-394-0106-0372

ELECTRICAL

Total **1** **€ 0.00** **€ 0.00**

EL	Dash Panel					1			EL-A-0400
	Dashboard	m				1			EL-400-010
			M	Carbon Fiber, 1 Ply		4			EL-400-010-01
			M	Wood	Balsa wood 1mm	1			EL-400-010-02
			P	Resin Application		4			EL-400-010-03
			P	Machining	CNC Router	1			EL-400-010-04
			F	Bolt	M5x25	4			EL-400-010-05
			F	Washer	M5	4			EL-400-010-06
			F	Nut	M5	4			EL-400-010-07
			P	Fastener Install (every)		12			EL-400-010-08
			P	Lamination		1			EL-400-010-09
			P	Vacuum Form		1			EL-400-010-010
			P	Cure		1			EL-400-010-011
			T	Crimp Tooling		1			EL-400-010-012
			P	Assemble	To Chassis	1			EL-400-010-013
	RA8875 TFT								
	Screen Driver	b				1			EL-400-011
	Switcher	b				4			EL-400-012
	Molex MX150L 10pin	b				1			EL-400-013
	PCB Header								
	Dash Panel								
	Controller Board	b				3			EL-400-014
	STM F103 C8 T6								
	Micro Controller	b				1			EL-400-015
	MCP 2551 IC	b				1			EL-400-016
	MCP 2515 IC	b				1			EL-400-017

	Resistor	b			6	EL-400-018	
	27 PF Capacitor	b			2	EL-400-019	
	Catalex SD Card Modul	b			1	EL-400-020	
	Transcent 16GB Class 10 SD Card	b			1	EL-400-021	
	Transcent 16GB Class 10 SD Card	b			1	EL-400-022	
	Cable	b		PVC Cable 2meters	1	EL-400-023	
	Screw Block Connector	b		2,3,8 Pins	8	EL-400-024	
EL	Brake Light				1	EL-A-0415	
	Red Light Stripe	b		Red Light Stripe 15cm	1	EL-415-025	
	Brake Light	b			1	EL-415-026	
	Brake Light P/M/F/T	m			1	EL-415-027	
			M	PVC	PVC Cable 150meters	1	EL-415-027-014
			M	Aluminum	Aluminum Plate 20x10meters	1	EL-415-027-015
			P	Cutting (Manual)	Aluminum Plate	1	EL-415-027-016
			P	Other		1	EL-415-027-017
			P	Twist	Aluminum Plate	1	EL-415-027-018
			P	Assemble	To Chassis	1	EL-415-027-019
			T	Crimpe Tooling		1	EL-415-027-020
	Connector	b			1	EL-415-028	
EL	ECM/ Engine Electronics				1	EL-A-0419	
	Controller Box	b		PVC Controller Box	1	EL-419-029	
	Controller Box Assembly	m		To Chassis	1	EL-419-030	
	Voltage Regulator	b		DSN 2596	5	EL-419-031	
	HüCO Ignition Regulator	b			1	EL-419-032	
	Voltage Regulator Board	m			1	EL-419-033	
			M	Carbon Fiber, 1 Ply	1	EL-419-033-021	
			P	Assemble	To Controller Box	1	EL-419-033-022
	Relay Board	b		8 Channels 12V Relay Board	1	EL-419-034	
	Vehicle Controller Board	b			1	EL-419-035	
	ECU	b		Motec M800 ECU	1	EL-419-036	
	Distrubution Board	m			1	EL-419-037	

			M	Carbon Fiber, 1 Ply		1	EL-419-037-023
			P	Soldering		358	EL-419-037-024
			P	Plug	Connectors Plugged	26	EL-419-037-025
	Speed Censor	b				4	EL-419-038
	Terminal	m				1	EL-419-039
			T	Crimpe Tooling		1	EL-419-039-026
			P	Assemble	To Connector	1	EL-419-039-027
	Connector	b			Screw Block Connector	30	EL-419-040
	Resistor	b				38	EL-419-041
	Transistor	b			BC 548 Transistor	1	EL-419-042
	ESP 01 Wifi					1	
	Module	b					EL-419-043
					STM F103 C8 T6 Micro	2	
	Micro Controller	b			Controller		EL-419-044
	8000 Mhz Cyrstal	b				1	EL-419-045
	IDC Header	b				4	EL-419-046
	PCB Header	b				6	EL-419-047
	IRLZ 34N Mosfet	b				1	EL-419-048
						1	
	Printed Circuit Board	b					EL-419-049
EL	Harness					1	EL-A-0440
	Cable	m			150 meters PVC/Copper Cable	1	EL-440-050
	Terminal	b			Connector Terminal	234	EL-440-051
	Connector Terminal					1	
	P/M/F/T	m					EL-440-052
			P	Fixing	To Convertor	234	EL-440-052-028
			P	Crimping		234	EL-440-052-029
			T	Crimpe Tooling		234	EL-440-052-030
	Cable P/M/F/T	m				1	EL-440-053
			M	PVC	PVC/Copper Cable (150m)	1	EL-440-053-031
			T	Wire Cutting		117	EL-440-053-032
			T	Wire Stripping		234	EL-440-053-033
EL	Quick Shifter					1	EL-A-0444
	Solenoid	b	P	Assemble	To Chassis	1	EL-444-054
	Shift Paddle	b	P	Assemble	To Chassis	1	EL-444-055

MISCELLANEOUS, FIT, FINISH & ASSEMBLY

Total 1 € 0.00 € 0.00

MS	Fire Wall					1	MS-A-0500
	Fire wall (Part I)	m				1	MS-500-010
			M	Aluminum	Aluminum sheet- 3003 Alloy	1	MS-500-010-01
			P	Laser Cut		1	MS-500-010-02
			P	Bending		2	MS-500-010-03
	Fire wall(Part II)	m				1	MS-500-011
			M	Aluminum	Aluminum sheet- 3003 Alloy	1	MS-500-011-04
			P	Laser Cut		1	MS-500-011-05
			P	Weld	TIG Welding (Part I- Part II assembly)	1	MS-500-011-06
			P	Assemble	To firewall tabs	1	MS-500-011-028
			F	Bolt	M5x12	6	MS-500-011-029
			F	Nut	M5	6	MS-500-011-030
			P	Fastener Install (every)		18	MS-500-011-031
			F	Washer	M5	6	MS-500-011-032
MS	Driver's Harness				(BOF)	1	MS-A-0502
	Driver's Harness	b			OMP 802F	1	MS-502-012
	Harness tabs	m			Integrals to frame	1	MS-502-020
			M	Steel	5mm	1	MS-502-020-033
			P	Weld	To chassis	1	MS-502-020-034
			P	Laser Cut		1	MS-502-020-035
			P	Assemble	To driver's harness	1	MS-502-020-036
MS	Seats				(BOF)	1	MS-A-0503
	Seat	b			Tillett w1i, carbon fiber/grp racing seat	1	MS-503-013
MS	Seat mounting					1	MS-A-0504
	Seat bracket	m				1	MS-504-014
			M	Carbon Fiber, 1 Ply		8	MS-504-014-07
			M	Wood	Balsa wood 2 mm	1	MS-504-014-08
			P	Resin Application		8	MS-504-014-037
			P	Lamination		1	MS-504-014-038
			P	Vacuum Form		1	MS-504-014-039
			P	Cure		1	MS-504-014-040
			P	Assemble	To seat bracket tab	1	MS-504-014-041
			P	Assemble	To seat	1	MS-504-014-042
			F	Bolt		4	MS-504-014-043
			F	Washer		4	MS-504-014-044
			F	Nut		4	MS-504-014-045

	Seat mounting tabs	m	P	Fastener Install (every)		12	MS-504-014-046
						4	MS-504-021
			M	Polyamide		2	MS-504-021-047
			P	Machining	Turning	2	MS-504-021-048
			P	Drilled hole	D8	2	MS-504-021-049
			P	Assemble	Between seat and seat bracket	1	MS-504-021-050
			P	Assemble	To seat fixing hole with fastener	1	MS-504-021-051
MS	Paint-Frame					1	MS-A-0505
	Surface preperation	m				1	MS-505-015
			P	Grinding	With P600 sandpaper	1	MS-505-015-09
	Painting	m	P	Painting(Spray)	Filler paint(500ml)	4	MS-505-015-010
						1	MS-505-016
		P	Paint(Spray)	Spray oil-paint(500ml)	6	MS-505-016-011	
MS	Headrest/Restraints					1	MS-A-0507
	Head rest padding	m				1	MS-507-017
			M	Foam		1	MS-507-017-012
			M	Leather		1	MS-507-017-013
			P	Sewing	Leather to foam	1	MS-507-017-014
			P	Assemble	To head restraint plate	1	MS-507-017-015
			F	Bolt		2	MS-507-017-016
			F	Nut		2	MS-507-017-017
			F	Washer		2	MS-507-017-018
			P	Fastener Install(every)		4	MS-507-017-019
			P	Attaching	Adhesive tape	1	MS-507-017-023
	Head restraint plate	m				1	MS-507-018
			M	Aluminum	Sheet Aluminum 3mm	1	MS-507-018-020
			P	Laser Cut		1	MS-507-018-021
			F	Bolt		4	MS-507-018-022
			F	Nut		4	MS-507-018-024
			F	Washer		4	MS-507-018-025
			P	Assemble	To head restraint tabs	1	MS-507-018-026
			P	Fastener Install (every)		12	MS-507-018-027
MS			Impact Attenuator (BOF)				
	FSAE Standart Impact Attenuator	b				1	MS-512-022

STEERING SYSTEM

Total

1

€ 0.00

€ 0.00

ST	Steering Rack					1	ST-A-0600
	Rack	m				1	ST-600-010
			M	Steel	AISI 8640 Steel	1	ST-600-010-01
			P	Machining	Turning	1	ST-600-010-02
			P	Mill - Form Cutter	Milling	1	ST-600-010-04
			P	Threading	M8 Thread	2	ST-600-010-05
			P	Drilled hole	D6.5 Hole	2	ST-600-010-06
			P	Heat treatment		1	ST-600-010-07
			P	Gear Shaping (hobbing)		1	ST-600-010-030
			P	Assemble	To rack main housing	1	ST-600-010-078
	Pinion	m				1	ST-600-011
			M	Steel	AISI 8640 Steel	1	ST-600-011-08
			P	Machining	Turning	1	ST-600-011-09
			P	Mill - Form Cutter	Milling	1	ST-600-011-011
			P	Drilled hole	D6 Hole	1	ST-600-011-012
			P	Heat treatment		1	ST-600-011-013
			F	Retaining Ring	DIN471-15x1	2	ST-600-011-023
			P	Gear Shaping (hobbing)		1	ST-600-011-029
			P	Assemble	To rack housing tube	1	ST-600-011-079
	Rack Clevis	m				2	ST-600-012
			M	Aluminum	7075 T6	1	ST-600-012-014
			P	Machining	Turning	1	ST-600-012-015
			P	Drilled hole	D6 Hole	1	ST-600-012-016
			P	Threading	M8 thread	1	ST-600-012-017
			F	Bolt	DIN EN 24017 M8x50	1	ST-600-012-028
			F	Fastener Install(every)	M8x50	1	ST-600-012-076
			P	Assemble	To rack	1	ST-600-012-086
	Rack Main Housing	m				1	ST-600-013
			M	Aluminum	7075 T6	1	ST-600-013-018
			P	Mill - Form Cutter	CNC Milling	1	ST-600-013-019
			F	Retaining Ring	DIN472- 35X1.75	1	ST-600-013-020
			F	Retaining Ring	DIN472- 24X1.2	1	ST-600-013-021
			F	Bolt	DIN EN 24017 M4x20	2	ST-600-013-025
			F	Bolt	DIN 7991-M4 4x6	2	ST-600-013-026
			F	Bolt	Adjustment screw	1	ST-600-013-035
			F	Nut	Adjustment nut	1	ST-600-013-036
			P	Etching	With phosphoric acid	1	ST-600-013-040
			P	Surface cleaning	Water apply	1	ST-600-013-041
			P	Surface cleaning	Acetone apply	1	ST-600-013-042
			P	Assemble	To steering rack bracket	1	ST-600-013-077

	Rack Housing Tube	m	P	Assemble	With upper bearing	1	ST-600-013-084
			P	Assemble	With lower bearing	1	ST-600-013-085
			P	Fastener Install (every)		6	ST-600-013-0134
					20x1.5 tube bought	1	ST-600-014
			M	Carbon Fiber, 1 Ply	0,90,+37 degree plies	8	ST-600-014-037
			P	Tube cut	Diamond saw	1	ST-600-014-038
			P	Grinding	With P80 Sandpaper	1	ST-600-014-039
			P	Mill - Form Cutter	Milling	1	ST-600-014-043
			P	Drilled hole	D4	2	ST-600-014-044
			P	Covering	To prevent adhesive rub on	1	ST-600-014-045
			P	Surface cleaning	Acetone apply	1	ST-600-014-046
			P	Assemble	To rack main housing	1	ST-600-014-080
			P	Bonding	Adhesive	1	ST-600-014-081
			P	Cure	Thermal curing	1	ST-600-014-082
			P	Assemble	With bushings	2	ST-600-014-083
	Bushings	b			Copper Bushings 17x15x15	2	ST-600-015
	Upper Bearing	b			6202-2RSH2	1	ST-600-016
	Bottom Bearing	b			61802-2Z2	1	ST-600-017

ST	Bewel Gear				60 degrees bewel gear	1	ST-A-0613
	Shaft I	m				1	ST-613-024
			M	Steel	AISI 4340	1	ST-613-024-087
			P	Machining	Turning	1	ST-613-024-088
			P	Drilled hole	D3	1	ST-613-024-089
			P	Assemble	With bewel gear	1	ST-613-024-090
			P	Assemble	Bewel gear housing(Part I)	1	ST-613-024-093
			P	Assemble	Large Bearing	1	ST-613-024-0101
			F	Gudgeon		1	ST-613-024-0103
			P	Fastener Install (every)		1	ST-613-024-0104
			F	Retaining Ring		1	ST-613-024-0111
			P	Fastener Install (every)		1	ST-613-024-0115
	Shaft II	m				1	ST-613-025
			M	Steel	AISI 4340	1	ST-613-025-091
			P	Machining	Turning	1	ST-613-025-092
			P	Drilled hole	D3	1	ST-613-025-094
			P	Assemble	With bewel gear	1	ST-613-025-095
			P	Assemble	Bewel gear housing(Part II)	1	ST-613-025-096
			F	Gudgeon		1	ST-613-025-0105
			P	Fastener Install (every)		1	ST-613-025-0106
			F	Retaining Ring		1	ST-613-025-0112

		P	Fastener Install (every)		1	ST-613-025-0116
Bewel gear	b				2	ST-613-026
Bewel gear housing (Part I)	m				1	ST-613-027
		M	Steel		1	ST-613-027-097
		P	Machining	Turning	1	ST-613-027-098
		P	Machining	Milling	1	ST-613-027-099
		P	Weld	To bewel gear housing	1	ST-613-027-0100
		P	Assemble	Shaft I	1	ST-613-027-0102
Bewel gear housing (Part II)	m				1	ST-613-028
		M	Steel		1	ST-613-028-0107
		P	Machining	Turning	1	ST-613-028-0108
		P	Machining	Milling	1	ST-613-028-0109
		P	Assemble	Shaft II	1	ST-613-028-0110
		F	Retaining Ring		1	ST-613-028-0113
		P	Fastener Install (every)		1	ST-613-028-0114
		P	Weld	To steering mounting profile	2	ST-613-028-0133
Metal ball	b				1	ST-613-029
Threaded rod, M10	m				1	ST-613-030
Nut, M10	m				1	ST-613-031
Large Bearing	b			D/W R10-2RS Deep groove ball bearings	3	ST-613-032
Bearing, narrow	b			D/W R8-2RS Deep groove ball bearings	1	ST-613-033

ST	Steering Shaft				1	ST-A-0624
	Steering Shaft	m			1	ST-624-034
		M	Aluminum	7075 T6	1	ST-624-034-033
		P	Drilled hole	D3	2	ST-624-034-034
		P	Assemble	To Universal Joint, Upper	1	ST-624-034-068
		P	Assemble	To Universal Joint, Lower	1	ST-624-034-069
	Universal Joint, Upper	b		Universal Joint, Double, B=12mm, L=86mm	1	ST-624-035
	Universal Joint, Lower	b		Universal Joint, Single	1	ST-624-041

ST	Steering Wheel Quick Release					1	ST-A-0626
	Quick Release	b			Sparco quick release	1	ST-626-036
	Quick release plate	m				1	ST-626-049
			M	Aluminum		1	ST-626-049-0118
			P	Laser Cut		1	ST-626-049-0119
			F	Bolt		4	ST-626-049-0120
			F	Nut		4	ST-626-049-0121
			P	Fastener Install (every)		8	ST-626-049-0122
			P	Assemble	To quick release	1	ST-626-049-0123
			P	Assemble	To steering wheel mount	1	ST-626-049-0124
ST	Steering Rack Bracket					1	ST-A-0628
	Steering Rack Housing Bracket	m				1	ST-628-038
			M	Aluminum	7075 T6	1	ST-628-038-047
			P	Machining	CNC machining	1	ST-628-038-048
			P	Assemble		1	ST-628-038-070
ST	Steering Wheel					1	ST-A-0629
	Steering Wheel	m				1	ST-629-039
			M	Carbon Fiber, 1 Ply		25	ST-629-039-049
			P	Resin Application		1	ST-629-039-050
			P	Cure		1	ST-629-039-051
			P	Assemble	To steering wheel mounting	1	ST-629-039-071
			P	Vacuum Form		1	ST-629-039-0117
			F	Bolt		4	ST-629-039-0125
			F	Nut		4	ST-629-039-0126
			P	Fastener Install (every)		8	ST-629-039-0127
			P	Machining	Cnc router machined	1	ST-629-039-0135
	Steering wheel mounting	m				1	ST-629-047
			M	Aluminum	Aluminum sheet 2mm	1	ST-629-047-073
			P	Bending		4	ST-629-047-074
			P	Laser Cut		1	ST-629-047-075
			F	Bolt		4	ST-629-047-0128
			F	Nut		4	ST-629-047-0129
			P	Fastener Install (every)		8	ST-629-047-0130
			P	Assemble	To quick shifter mounting plate	1	ST-629-047-0131
ST	Tie Rods					2	ST-A-0630

	Insert, Tie rod	m				2			ST-630-042
			M	Aluminum	7075 T6	1			ST-630-042-053
			P	Machining	Turning	1			ST-630-042-054
			P	Threading	M6	1			ST-630-042-055
			P	Etching	With Phosphoric Acid	1			ST-630-042-056
			P	Surface Cleaning	Water Apply	1			ST-630-042-057
			P	Surface Cleaning	Acetone Apply	1			ST-630-042-058
			P	Assemble	To tie rod tube	2			ST-630-042-0132
	Tube, Tie Rod	m				1			ST-630-043
					20x1.5mm tube (0,90,+-37 Degree Plies)	8			ST-630-043-059
			M	Carbon Fiber, 1 Ply					
			P	Tube Cut	Diamond Saw	1			ST-630-043-060
			P	Grinding	With P80 Sandpaper	1			ST-630-043-061
			P	Covering	To Prevent Adhesive rub on	1			ST-630-043-062
			P	Surface Cleaning	Acetone Apply	1			ST-630-043-063
	Assembly, Tie Rod	m			Front Tie Rod and Rear Tie Rod Assembly	2			ST-630-044
			P	Bonding	Insert-Tie Rod Tube Bonding	2			ST-630-044-064
			P	Cure	Thermal Curing	1			ST-630-044-065
			P	Assemble	Rod end Install (M6 right and left hand male)	2			ST-630-044-066
			P	Tensile Test	(Up to 2.5 kN)	1			ST-630-044-067
			P	Assemble	To front upright	1			ST-630-044-0136
			F	Bolt	M6x40	2			ST-630-044-0137
			F	Nut	M6	2			ST-630-044-0138
			F	Washer	M6	2			ST-630-044-0139
			P	Assemble	To rack clevis	1			ST-630-044-0140
			P	Fastener Install (every)		2			ST-630-044-0141
	M6 Male Joint Right Thread Rod End	b				1			ST-630-050
	M6 Male Joint Left Thread Rod End	b				1			ST-630-051

SUSPENSION SYSTEM

Total 1 € 0.00 € 0.00

SU	Bell Cranks					1			SU-A-0700
	Front Bell Crank	m				2			SU-700-010
			M	Aluminum	7075 T6	1	€ 3.98	282976mm^3,0.88kg	SU-700-010-01

	Rear Bell Cranks	m	P	Machining	CNC Milling 5 axes	1	€ 20.98	212275mm^3	SU-700-010-02
			P	Assemble	To Shock	1	€ 0.65		SU-700-010-0189
			P	Assemble	To Front Pushrod	1	€ 0.65		SU-700-010-0190
			F	Bolt	M10x55(DIN 933)	2	€ 0.25	1.37tl/piece	SU-700-010-0191
			F	Bolt	M8x55 (DIN 933)	1	€ 0.16	0.89tl/piece	SU-700-010-0192
			F	Fastener Install (every)	M10	2	€ 0.03		SU-700-010-0193
			F	Fastener Install (every)	M8	4	€ 0.33		SU-700-010-0194
			F	Nut	M10(DIN 985)	2	€ 0.09	0.51tl/piece	SU-700-010-0195
			F	Nut	M8(DIN 985)	1	€ 0.04	0.24tl/piece	SU-700-010-0257
			P	Assemble	To Bell Crank Tab	1	€ 0.67		SU-700-010-0258
						2			SU-700-011
			M	Aluminum	7075 T6	1	€ 3.48	246862mm^3,0.77kg	SU-700-011-04
			P	Machining	CNC Milling	1	€ 19.64	192572mm^3	SU-700-011-05
			P	Assemble	To Bell Crank Tab	1	€ 0.65		SU-700-011-0197
			P	Assemble	To Shock	1	€ 0.65		SU-700-011-0198
			P	Assemble	To Rear Pullrod	1	€ 0.65		SU-700-011-0199
			F	Bolt	M10x55(DIN 933)	1	€ 0.25		SU-700-011-0200
			F	Bolt	M8x55(DIN 933)	2	€ 0.16		SU-700-011-0201
			F	Fastener Install (every)	M10	2	€ 0.03		SU-700-011-0202
			F	Fastener Install (every)	M8	4	€ 0.03		SU-700-011-0203
			F	Nut	M8(DIN 985)	2	€ 0.04		SU-700-011-0204
			F	Nut	M10(DIN 985)	1	€ 0.09		SU-700-011-0205

SU	Front A/Arms		Carbon fiber-aluminum A arms		2				SU-A-0702
	Bearing cup, Front upper A arm	m			1				SU-702-012
			M	Aluminum	7075 T6	1	€ 2.55	0.556kg	SU-702-012-07
			P	Machining	CNC Milling	1	€ 17.15	153939mm^3	SU-702-012-08
			P	Etching	With phosphoric acid	1	€ 5.61	9420mm^2	SU-702-012-010
			P	Covering	To prevent adhesive rub on	2	€ 0.06		SU-702-012-014
			P	Surface cleaning	Water and acetone apply	1	€ 0.17	9420mm^2	SU-702-012-043
			P	Assemble	Assemble to sphrehical joint	1	€ 0.65		SU-702-012-0169
			P	Assemble	Assemble to nuckle	1	€ 0.65		SU-702-012-0178
	Front tube, Front upper A arm	m			1				SU-702-014
			M	Carbon Fiber, 1 Ply	90-0 degrees plies	1	€ 4.08	0.208m	SU-702-014-023
			P	Tube cut	Diamond saw	1	€ 0.93		SU-702-014-027
			P	Grinding	With P80 Sandpaper(with hand)	2	€ 0.21	9420mm^2	SU-702-014-028
			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-702-014-029

Rear tube, Front upper A arm	m	P	Surface cleaning	Acetone apply	1	€ 0.17	9420mm^2	SU-702-014-041
		P	Assemble	Assemble to Insert, Front upper A arm	2	€ 0.65		SU-702-014-0171
Insert, Front upper A arm	m			20x1mm tubes bought	1			SU-702-017
		M	Carbon Fiber, 1 Ply	90-0 degrees plies	1	€ 6.35	0.144m	SU-702-017-022
		P	Tube cut	Diamond saw	1	€ 0.93		SU-702-017-024
		P	Grinding	With P80 Sandpaper	2	€ 0.21	9420mm^2	SU-702-017-025
		P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-702-017-026
		P	Surface cleaning	Acetone apply	1	€ 0.17	9420mm^2	SU-702-017-042
		P	Assemble	Assemble to Insert, Front upper A arm	2	€ 0.65		SU-702-017-0173
					2			SU-702-019
Assembling, Front upper A arm	m	M	Aluminum	7075 T6	1	€ 0.11	9424.78mm^3,0.025kg 1531mm^3	SU-702-019-032
		P	Machining	Turning	1	€ 0.58	1 piece=0.561Euro	SU-702-019-033
		P	Tapping Holes	D6	1	€ 0.56		SU-702-019-034
		P	Etching	With phosphoric acid	1	€ 2.81	1233mm^2	SU-702-019-037
		P	Surface cleaning	Acetone apply	1	€ 0.02	1233mm^2	SU-702-019-046
		P	Assemble	Assemble to rod end	1	€ 0.65		SU-702-019-0180
		P	Assemble	Assemble to suspension arm tab	1	€ 0.65		SU-702-019-0187
		P	Threading	M8	1	€ 0.94		SU-702-019-0305
					1			SU-702-021
		P	Bonding	Insert-tube-cup Bonding	4	€ 0.09	1233mm^2(avarage)	SU-702-021-039
		P	Cure	Thermal curing	1	€ 11.68	75 minutes	SU-702-021-047
		P	Assemble	Spherical Bearing install	1	€ 0.65		SU-702-021-048
		P	Assemble	Retaining ring install	1	€ 0.65		SU-702-021-049
		P	Assemble	Rod end install (M8 right and left hand male)	2	€ 0.37		SU-702-021-052
		P	Tensile Test	(Up to 1.5 kN)	1	€ 0.00		SU-702-021-077
Spherical Bearing Retaining Ring Bearing cup, Lower A arm	b	P	Assemble	To suspension tab	1	€ 0.37		SU-702-021-0259
		F	Bolt	M8x55(DIN 933)	2	€ 0.16		SU-702-021-0264
		F	Nut	M8(DIN 985)	2	€ 0.04		SU-702-021-0265
		P	Fastener Install (every)		4	€ 0.03		SU-702-021-0266
				d10	8			SU-702-033
				19x1	8			SU-702-034
					1			SU-702-036

Front tube, front Lower A arm	m	M	Aluminum	7075 T6	1	€ 8.23	1.794kg	SU-702-036-079
		P	Machining	CNC Milling	1	€ 43.76	547303mm^3	SU-702-036-080
		P	Etching	With phosphoric acid	1	€ 5.61	9420mm^2	SU-702-036-081
		P	Covering	To prevent adhesive rub on	2	€ 0.06		SU-702-036-082
		P	Surface cleaning	Water and acetone apply	1	€ 0.17	9420mm^2	SU-702-036-084
		P	Assemble	Assemble to spherical joint	1	€ 0.65		SU-702-036-0181
		P	Assemble	Assemble to front upright	1	€ 0.65		SU-702-036-0182
				20x1.5mm tubes bought	1			SU-702-037
		M	Carbon Fiber, 1 Ply	0,90,+/-37 degree plies	1	€ 8.64	0.196m	SU-702-037-085
		P	Tube cut	Diamond saw	1	€ 0.93		SU-702-037-086
		P	Grinding	With P80 Sandpaper(with hand)	2	€ 0.21	9420mm^2	SU-702-037-087
		P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-702-037-088
		P	Surface cleaning	Water and acetone apply	1	€ 0.17	9420mm^2	SU-702-037-089
		P	Assemble	Assemble to Insert, Front lower A arm	1	€ 0.37		SU-702-037-0184
Rear tube, Lower A arm	m			20x1.5mm tubes bought	1			SU-702-038
		M	Carbon Fiber, 1 Ply	0,90,+/-37 degree plies	1	€ 12.79	0.29m	SU-702-038-090
		P	Tube Cut	Diamond saw	1	€ 0.93		SU-702-038-091
		P	Grinding	With P80 Sandpaper(with hand)	2	€ 0.21	9420mm^2	SU-702-038-092
		P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-702-038-093
		P	Surface cleaning	Acetone apply	1	€ 0.17	9420mm^2	SU-702-038-094
		P	Assemble	Assemble to Insert, Front lower A arm	1	€ 0.37		SU-702-038-0185
					2			SU-702-039
		M	Aluminum	7075 T6	1	€ 0.11	9424.78mm^3,0.025kg	SU-702-039-095
		P	Machining	Turning	1	€ 0.58	1531mm^3 1 piece=0.561Euro	SU-702-039-096
Insert, Lower A arm	m	P	Tapping Holes	D6	1	€ 0.56		SU-702-039-097
		P	Etching	With phosphoric acid	1	€ 2.81	1233mm^2	SU-702-039-098
		P	Surface cleaning	Water and acetone apply	1	€ 0.02	1233mm^2	SU-702-039-0100
		P	Assemble	Assemble to rod end	1	€ 0.37		SU-702-039-0186
		P	Assemble	Assemble to suspension arm tab	1	€ 0.37		SU-702-039-0188
		P	Threading	M8	1	€ 0.94		SU-702-039-0306
					1			SU-702-040
		P	Bonding	Insert-tube-cup Bonding	4	€ 0.09		SU-702-040-0101
		P	Cure	Thermal curing	1	€ 11.68	1233MM^2	SU-702-040-0102
Assembling, Front Lower A arm	m							

	P	Assemble	Spherical Bearing install	1	€ 0.37	75 minutes	SU-702-040-0103
	P	Assemble	Retaining ring install	1	€ 0.37		SU-702-040-0104
	P	Assemble	Rod end install (M8 right and left hand male)	2	€ 0.37		SU-702-040-0105
	P	Tensile test	(Up to 1.5 kN)	1	€ 0.00		SU-702-040-0106
	P	Assemble	To suspension tab	1	€ 0.37		SU-702-040-0260
	F	Bolt	M8x55(DIN 933)	2	€ 0.16		SU-702-040-0267
	F	Nut	M8	2	€ 0.04		SU-702-040-0268
	P	Fastener Install (every)		4	€ 0.03		SU-702-040-0269
SU	Front Uprights			2			SU-A-0712
	Front Upright	m		1			SU-712-022
	M	Aluminum	7075 T6	1	€ 15.23	3.32kg	SU-712-022-053
	P	Machining	CNC Machining	1	€ 219.46	3131060mm^3	SU-712-022-054
	F	Clevis	Front Upright Upper Clevis	1	€ 5.59	Aluminum=0.23kg Milling=214381mm^3	SU-712-022-056
	F	Bolt	M8x25 (DIN 933)	2	€ 0.09		SU-712-022-057
	P	Assemble	To Wheel Bearing	1	€ 0.37		SU-712-022-0210
	P	Assemble	To Retaining Ring 46x1.75	1	€ 0.37		SU-712-022-0211
	P	Assemble	To Hall Effect	1	€ 0.37		SU-712-022-0216
	F	Bolt	M8x55 12.9 Grade	1	€ 0.16		SU-712-022-0217
	F	Fastener Install (every)	M8 12.9 Grade	1	€ 0.03		SU-712-022-0218
	F	Nut	M8	1	€ 0.04		SU-712-022-0219
	P	Fastener Install (every)		8	€ 0.03		SU-712-022-0261
	Retaining Ring	b	46x1.75	1	€ 0.16	0.874tl/piece	SU-712-024
SU	Pushrods/Pullrods			2			SU-A-0715
	Insert, pushrod / pullrod	m	Pushrod-pullrod inserts(as right and left thread)	4			SU-715-025
	M	Aluminum	7075 T6	1	€ 0.11		SU-715-025-058
	P	Machining	Turning	1	€ 0.58		SU-715-025-059
	P	Tapping Holes	D6	1	€ 0.56		SU-715-025-060
	P	Etching	With phosphoric acid	1	€ 2.81		SU-715-025-061
	P	Surface cleaning	Acetone apply	1	€ 0.02		SU-715-025-063
	P	Assemble	To Rod End M8	4	€ 0.37		SU-715-025-0220
	P	Threading	M8	1	€ 0.94		SU-715-025-0307
	Tube, front pushrod	m		1			SU-715-026
	M	Carbon Fiber, 1 Ply	Carbon fiber pipe 20x1mm (0,90,+37 degree plies)	8	€ 18.18	0.412m	SU-715-026-064
	P	Tube cut	Diamond saw	1	€ 0.93		SU-715-026-065
	P	Grinding	With P80 Sandpaper	1	€ 0.04		SU-715-026-066

			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-715-026-067
			P	Surface cleaning	Acetone apply	1	€ 0.11		SU-715-026-068
			P	Assemble	To Bearing Cup Front Lower A Arm	1	€ 0.37		SU-715-026-0221
			P	Assemble	To Pushrod Insert	2	€ 0.37		SU-715-026-0222
						1			SU-715-027
			M	Carbon Fiber, 1 Ply	0,90,+37 degree plies	8	€ 7.72	0.175m	SU-715-027-069
			P	Tube cut	Diamond saw	1	€ 0.93		SU-715-027-070
			P	Grinding	With P80 Sandpaper	1	€ 0.04		SU-715-027-071
			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-715-027-072
			P	Surface cleaning	Acetone apply	1	€ 0.11		SU-715-027-073
			P	Assemble	To Bearing Cup Rear Upper A Arm	1	€ 0.37		SU-715-027-0223
			P	Assemble	To Pullrod Insert	2	€ 0.37		SU-715-027-0224
					Front pushrod and rear pullrod assembly	2			SU-715-028
			P	Bonding	Insert-pushrod tube Bonding	2	€ 0.09		SU-715-028-074
			P	Cure	Thermal curing	1	€ 11.68	75 minutes	SU-715-028-075
			P	Assemble	Rod end install(M8 right and left hand male)	2	€ 0.37		SU-715-028-076
			P	Tensile test	(Up to 2.5 kN)	1	€ 0.00		SU-715-028-078
			P	Assemble	To carrier suspension arm cup(lower arm at front, upper arm at rear)	1	€ 0.37		SU-715-028-0262
			F	Bolt	M8x40(DIN 933)	1	€ 0.13		SU-715-028-0270
			F	Nut	M8	1	€ 0.04		SU-715-028-0271
			P	Fastener Install (every)		2	€ 0.03		SU-715-028-0272
SU	Rod Ends					2			SU-A-0719
	M8 Male Joint Right Thread Rod End	b				11	€ 3.17		SU-719-029
	M8 Male Joint Left Thread Rod End	b				3	€ 3.17		SU-719-030
SU	Rear Uprights					2			SU-A-0725
	Rear Upright	m				1			SU-725-035
			M	Aluminum	7075 T6	1	€ 8.91	1.986kg	SU-725-035-0163
			P	Machining	CNC Machining	1	€ 128.74	1797000mm^3	SU-725-035-0164

	Retaining Ring	b	F	Clevis	Rear Upright Upper Clevis	1	€ 5.12	Aluminum=0.22kg Milling=191780mm^3	SU-725-035-0166
			F	Bolt	M8x25(DIN 933)	2	€ 0.09		SU-725-035-0167
			P	Assemble	To Wheel Bearing	2	€ 0.65		SU-725-035-0225
			P	Assemble	To Retaining Ring 46x1.75	1	€ 0.65		SU-725-035-0226
			P	Assemble	To Hall Effect	1	€ 0.07		SU-725-035-0230
			F	Bolt	M8x55 (DIN 933)	2	€ 0.16		SU-725-035-0232
			F	Fastener Install (every)	M8	8	€ 0.03		SU-725-035-0234
			F	Nut	M8 Nuts	2	€ 0.04		SU-725-035-0236
					85x1.75	1	€ 0.59		3.2tl/piece
SU	Rear A/Arms or Equivalent					1			SU-A-0731
	Bearing cup, Rear upper A arm	m				1			SU-731-041
			M	Aluminum	7075 T6	1	€ 8.36	1.82kg	SU-731-041-0107
			P	Machining	CNC Milling	1	€ 45.30	569979mm^3	SU-731-041-0108
			P	Etching	With phosphoric acid	1	€ 5.61	9420mm^2	SU-731-041-0109
			P	Covering	To prevent adhesive rub on	2	€ 0.06		SU-731-041-0110
			P	Surface cleaning	Acetone apply	1	€ 0.17		SU-731-041-0112
			P	Assemble	To Spherical Joint	1	€ 0.65		SU-731-041-0241
			P	Assemble	To Front Upright	1	€ 0.37		SU-731-041-0242
	Front tube, Rear upper A arm	m			20x1mm tubes bought	1			SU-731-042
			M	Carbon Fiber, 1 Ply	0,90,+37 degree plies	1	€ 11.78	0.267m	SU-731-042-0113
			P	Tube cut		1	€ 0.93		SU-731-042-0114
			P	Grinding	With P80 Sandpaper	2	€ 0.04	9420mm^2	SU-731-042-0115
			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-731-042-0116
			P	Surface cleaning	Acetone apply	1	€ 0.11		SU-731-042-0117
			P	Assemble	To Insert, Rear Upper A Arm	2	€ 0.37		SU-731-042-0245
	Rear tube, Rear upper A arm	m			20x1.5mm tubes bought	1			SU-731-043
			M	Carbon Fiber, 1 Ply	0,90,+37 degree plies	1	€ 11.20	0.254m	SU-731-043-0118
			P	Tube cut	Diamond saw	1	€ 0.93		SU-731-043-0119
			P	Grinding	With P80 Sandpaper	2	€ 0.04		SU-731-043-0120
			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-731-043-0121
			P	Surface cleaning	Acetone apply	1	€ 0.11		SU-731-043-0122
			P	Assemble	To Insert, Rear Upper A Arm	2			SU-731-043-0246
	Insert, Rear upper A arm	m				2			SU-731-044
			M	Aluminum	7075 T6	1	€ 0.11	0.025kg	SU-731-044-0123

Assembling, Rear upper A arm	m	P	Machining	Turning	1	€ 0.58		SU-731-044-0124
		P	Tapping Holes	D6	1	€ 0.56		SU-731-044-0125
		P	Etching	With phosphoric acid	1	€ 2.81		SU-731-044-0126
		P	Surface cleaning	Acetone apply	1	€ 0.02		SU-731-044-0128
		P	Assemble	To Suspension Arm Tab	1	€ 0.37		SU-731-044-0247
		P	Assemble	To Rod End M8	1	€ 0.37		SU-731-044-0248
		P	Threading	M8	1	€ 0.94		SU-731-044-0308
					1			SU-731-045
		P	Bonding	Insert-tube-cup Bonding	4	€ 0.09		SU-731-045-0129
		P	Cure	Thermal curing	1	€ 11.68	75 minutes	SU-731-045-0130
		P	Assemble	Spherical Bearing install	1	€ 0.37		SU-731-045-0131
		P	Assemble	Retaining ring install	1	€ 0.37		SU-731-045-0132
		P	Assemble	Rod end install	2	€ 0.37		SU-731-045-0133
		P	Tensile Test	(Up to 1.5 kN)	1	€ 0.00		SU-731-045-0134
		F	Bolt	M8x55	2	€ 0.16		SU-731-045-0273
Spherical bearing Retaining Ring Bearing cup,Lower A arm	b b m	F	Nut	M8	2	€ 0.04		SU-731-045-0274
		P	Fastener Install (every)		4	€ 0.03		SU-731-045-0275
				To rear upper suspension tabs	1	€ 0.37		SU-731-045-0279
		P	Assemble	d10	8	€ 1.87		SU-731-046
				19x1	8	€ 0.11		SU-731-047
					1			SU-731-048
		M	Aluminum	7075 T6	1	€ 2.08	0.464kg	SU-731-048-0135
		P	Machining	CNC Milling	1	€ 14.95	123643mm^3	SU-731-048-0136
		P	Etching	With phosphoric acid	1	€ 5.61	9420mm^2	SU-731-048-0137
		P	Covering	To prevent adhesive rub on	2	€ 0.06		SU-731-048-0138
Front tube, Lower A arm	m	P	Surface cleaning	Acetone apply	1	€ 0.17		SU-731-048-0140
		P	Assemble	To Spherical Joint	1	€ 0.65		SU-731-048-0249
		P	Assemble	To Rear Upright	1	€ 0.35		SU-731-048-0250
					1			SU-731-049
				20x1mm tubes bought	1			SU-731-049
		M	Carbon Fiber, 1 Ply	90-0 degrees plies	1	€ 5.23	0.267m	SU-731-049-0141
		P	Tube cut	Diamond saw	1	€ 0.93		SU-731-049-0142
		P	Grinding	With P80 Sandpaper	2	€ 0.04		SU-731-049-0143
		P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-731-049-0144
		P	Surface cleaning	Acetone apply	1	€ 0.11		SU-731-049-0145
		P	Assemble	To Insert, Rear Lower A Arm	1	€ 0.37		SU-731-049-0253

Rear tube, Lower A arm	m		20x1.5mm tubes bought	1			SU-731-050	
		M	Carbon Fiber, 1 Ply	90-0 degrees plies	1	€ 4.98	0.254m	SU-731-050-0146
		P	Tube cut	Diamond saw	1	€ 0.93		SU-731-050-0147
		P	Grinding	With P80 Sandpaper	2	€ 0.04		SU-731-050-0148
		P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-731-050-0149
		P	Surface cleaning	Acetone apply	1	€ 0.11		SU-731-050-0150
		P	Assemble	To Insert, Rear Lower A Arm	1	€ 0.37		SU-731-050-0254
		Insert, Lower A arm	m			2		
M	Aluminum			7075 T6	1	€ 0.11	0.025kg	SU-731-051-0151
P	Machining			Turning	1	€ 0.58		SU-731-051-0152
P	Tapping Holes			D6	1	€ 0.56		SU-731-051-0153
P	Etching			With phosphoric acid	1	€ 2.81		SU-731-051-0154
P	Surface cleaning			Acetone apply	1	€ 0.02		SU-731-051-0156
P	Assemble			To Suspension Arm Tab	1	€ 0.37		SU-731-051-0255
P	Assemble			To Rod End M8	1	€ 0.37		SU-731-051-0256
Assembling, Rear Lower A arm	m			1			SU-731-052	
		P	Bonding	Insert-tube-cup Bonding	4	€ 0.09		SU-731-052-0157
		P	Cure	Thermal curing	1	€ 11.68	75 minutes	SU-731-052-0158
		P	Assemble	Spherical Bearing install	1	€ 0.37		SU-731-052-0159
		P	Assemble	Retaining ring install	1	€ 0.37		SU-731-052-0160
		P	Assemble	Rod End install	2	€ 0.37		SU-731-052-0161
		P	Tensile Test	(Up to 1.5 kN)	1	€ 0.00		SU-731-052-0162
		P	Assemble	To rear lower suspension tabs	1	€ 0.37		SU-731-052-0263
		F	Bolt	M8x55	2	€ 0.16		SU-731-052-0276
		F	Nut	M8	2	€ 0.04		SU-731-052-0277
		P	Fastener Install (every)		4	€ 0.03		SU-731-052-0278

SU	Rear toe rod				2			SU-A-0744
	Insert, rear toe	m		Rear toe inserts	2			SU-744-054
		M	Aluminum	7075 T6	1	€ 0.11	0.025kg	SU-744-054-0280
		P	Machining	Turning	1	€ 0.58		SU-744-054-0281
		P	Drilled hole	D6	1	€ 0.56		SU-744-054-0282
		P	Threading	M8	1	€ 0.94		SU-744-054-0283
		P	Etching	With phosphoric acid	1	€ 2.81		SU-744-054-0284
		P	Surface cleaning	Acetone applied	1	€ 0.02		SU-744-054-0286
		P	Assemble	To the rod end M8	1	€ 0.37		SU-744-054-0287

	Tube, rear toe	m	P	Assemble	Assemble to rear suspension tab	1	€ 0.37		SU-744-054-0288
						1			SU-744-055
	Assembly, rear toe	m	M	Carbon Fiber, 1 Ply	Carbon fiber pipe 20x1mm(90-0 degrees plies)	1	€ 6.76	0.345m	SU-744-055-0289
			P	Tube Cut	With diamond saw	1	€ 0.93		SU-744-055-0290
			P	Grinding	P80 Sandpaper	1	€ 0.04		SU-744-055-0291
			P	Covering	To prevent adhesive rub on	1	€ 0.06		SU-744-055-0292
			P	Surface Cleaning	Acetone applied	1	€ 0.11		SU-744-055-0293
			P	Assemble	To the rear toe insert	1	€ 0.37		SU-744-055-0294
						1			SU-744-056
			P	Bonding	Insert-Rear toe tube bonding	1	€ 0.09		SU-744-056-0295
			P	Cure	Thermal curing at 110C degrees	1	€ 11.68	75 minutes	SU-744-056-0296
			P	Assemble	Rod end install	1	€ 0.37		SU-744-056-0297
			P	Tensile Test	Up to 2.5 kN	1	€ 0.00		SU-744-056-0298

SU	Shocks					2			SU-A-0747
	Damper	b			FOX Van RC	2	€ 340.00		SU-747-057
	Assembling, shocks	m				1			SU-747-060
			P	Assemble	To the rear springs	1	€ 0.37		SU-747-060-0299
			P	Assemble	To the front springs	1	€ 0.37		SU-747-060-0300
			P	Assemble	To the damper tabs	2	€ 0.37		SU-747-060-0301
			F	Bolt	M10x40 (DIN 912)	2	€ 0.24		SU-747-060-0302
			F	Nut	M10	2	€ 0.10		SU-747-060-0303
			P	Fastener Install (every)	M10	4	€ 0.33		SU-747-060-0304

SU	Springs					2			SU-A-0748
	Front Springs	b			Hyperco 250lbs 18FS250	1	€ 53.83		SU-748-058
	Rear Springs	b			Hyperco 350lbs 18FS350	1	€ 53.04		SU-748-059

WHEELS, WHEEL BEARINGS AND TIRES

WT	Front Hubs					2	€ 0.00		WT-A-0800
	Front Hub	m				1	€ 0.00		WT-800-010
			M	Aluminum	7075 T6	1			WT-800-010-01
			P	Machining	CNC Setup	1			WT-800-010-02
			P	Threading	M7 (for wheel speed sensor sprocket)	1			WT-800-010-07
			P	Threading	M10	8			WT-800-010-015
	Total					1	€ 0.00	€ 0.00	

			P	Assemble	To front upright	1		WT-800-010-026
WT	Rear Hubs					2	€ 0.00	WT-A-0801
	Rear Hub	m				1	€ 0.00	WT-801-011
			M	Aluminum	7075 T6	1		WT-801-011-08
			P	Machining	CNC Setup	1		WT-801-011-09
			P	Threading	M7(for wheel speed sensor sprocket)	1		WT-801-011-014
			P	Threading	M10	8		WT-801-011-016
			P	Assemble	To front upright	1		WT-801-011-027
WT	Tires				(BOF)	4		WT-A-0802
	Tire	b			Tire, Hoosier, R25B 13"-20.5 x 7.0	1		WT-802-012
	Assembling	m				1		WT-802-022
			P	Assemble	To wheel	1		WT-802-022-028
WT	Wheels				(BOF)	4		WT-A-0803
	Wheel	b			Wheel, 13", 3 Piece, Keizer, Kosmo Forged Magnesium	1		WT-803-013
	Aseembling	m				1		WT-803-023
			P	Assemble	To front or rear hub	1		WT-803-023-029
WT	Wheel Bearings				(BOF)	2		WT-A-0804
	Front bearing	b			3304 A-2RS1 (Angular contact ball bearings, double row	1		WT-804-014
	Rear Bearing	b			61813-2RS Deep groove ball bearings	2		WT-804-015
	Assembling	m				2		WT-804-024
			P	Assemble	Front bearing to front upright	1		WT-804-024-030
			P	Assemble	Rear bearing to rear upright	2		WT-804-024-031
WT	Hall Effects				(BOF)	2		WT-A-0806
	Front Hall Effect Gear	m				1		WT-806-016
			P	Machining	CNC Setup	1		WT-806-016-018
			P	Machining	Turning	1		WT-806-016-019
			P	Threading	M20	1		WT-806-016-020
			P	Assemble	Fasten to front hub	1		WT-806-016-035
	Rear Hall Effect Gear	m				1		WT-806-017

	Hall Effect Sensor Assembling, hall effect	b m	P	Machining	CNC Setup	1	WT-806-017-021
			P	Machining	Turning	1	WT-806-017-022
			P	Threading	M65 fine thread	1	WT-806-017-023
			P	Assemble	Fasten to rear hub	1	WT-806-017-036
						4	WT-806-018
						4	WT-806-027
			P	Assemble	To front or rear upright	1	WT-806-027-037
			F	Bolt	M7x25	1	WT-806-027-038
			F	Nut	M7	1	WT-806-027-039
			P	Fastener Install (every)		2	WT-806-027-040
			P	Attach wire		3	WT-806-027-041
WT	Lug Nuts					16	WT-A-0809
	Lug Nuts	m				1	WT-809-019
			P	Machining	Turning	1	WT-809-019-024
			P	Threading	M10	1	WT-809-019-025
			P	Assemble	Loose to wheel	1	WT-809-019-032
WT	Valve Stems				(BOF)	4	WT-A-0810
	Valve Stems	b			TR413 1-1/4inch	1	WT-810-020
	Assembling	m				1	WT-810-025
			P	Assemble	To tire	1	WT-810-025-033
WT	Wheel Studs				(BOF)	16	WT-A-0811
	Wheel Stud	b			M10X70	1	WT-811-021
	Assembling	m				1	WT-811-026
			P	Assemble	To hub and to lug nuts	1	WT-811-026-034