



PRODUCT DESCRIPTION
CTSW* AND *CTLS
472,5 KG CLASS

MODEL YEAR 2010

Release March 15, 2010

Flight Design CTSW 472,5 kg Class Model Year 2010

Order No.	Description	Weight
BASIC AIRCRAFT SPECIFICATION - VALID FOR ALL PLATFORMS		
CTSW 472,5 kg Class		
	Exterior	
	Shortwings with downwards orientated winglets (reduces induced drag and increases directional stability)	
	Increased vertical fin area	
	All- moving stabiliser with 100% span antitab	
	Two component exterior paint (white) with decals according to selected scheme	
	Extra wide cabin doors with gas spring	
	2 luggage compartments, accessible from outside and through cabin	
	Cowling hatch for easy oil and water check	
	Tire size nose wheel 4.00 - 4", main wheels 4.00 - 6"	
	Tires classified for 6 Ply Rating (PR)	
	Hydraulic disk brakes	
	Steerable elastomer damped front wheel	
	Straight aluminium rod main landing gear legs	
	Interior	
	Interior paint grey with speckles anthracite / white	
	Adjustable seats (leg length and seat height coupled, inclination)	
	4-point safety belts for each seat	
	2 storage trays on the cabin floor	
	Strap down hooks in the luggage compartment	
	Rescue system, suitable for MTOW 472,5 kg	
	Instrumentation	
	Easy accessible fuse and breaker panel on instrument board	
	Engine	
	Rotax 912 UL2 (80 hp) installed ready to fly	
	Rotax engine warranty	
	Systems	
	Dual controls, conventional, three axis	
	Manual stabiliser trim by control wheel	
	Electronic flap control with pre-selection switch	
	Combination key switch	
	2 wing tanks, 65l each = 130 l total fuel	
	Central, common fuel valve	
	Documents	
	Flight- and Maintenance Manual german or english	
	Engine Logbook	
	Airplane Logbook	
AIRPLANE BASIC PLATFORMS		
70000	CTSW Classic Light Europe (MTOM 472,5 kg)	279,5
	Aircraft	
	CTSW 472,5 kg class as per basic aircraft specification above. Platform specific enhancements as follows.	
	Exterior	
	Aeronautical Plexiglass windshield, door windows and skylight, windshield green tinted, all other windows	
	Main wheel tires qualified for 120 km/h and 300 kg per tire (except for certification acc. BCAR Section S)	
	Interior	
	Access to luggage compartment covered with cloth (except for certification acc. BCAR Section S)	
	Controls in area of luggage comp. protected with plexiglass covers (except for cert. acc. BCAR Section S)	

Order No.	Description	Weight
	Instrumentation Small instrument console with three single panels	
	Basic Instrumentation including Analog airspeed indicator (large) Analog three pointer altimeter (large) Magnetic compass with deviation table Slip indicator	
	Engine Monitoring using: Analog Tachometer (small) Analog oil pressure gauge (small) Analog oil temperature gauge (small) Analog cylinderhead temperature gauge (small)	
	Engine Advanced 2-blade ground adjustable composite propeller, spinner included Air induction through two separate air filters mounted to each carburetor Direct induction of air from the engine compartment, therefore no specific carburetor heating	
	Systems Small battery	
	Comfort Package "Light" Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel Door locks on both cabin doors Double fresh air windows in door windows Two trays at the lower side of the instrument board Stainless steel exhaust system Heat exchanger fitted to muffler to generate hot air for cabin heating Heat distribution in cockpit to several air nozzles 12V auxiliary power connector in cockpit Parking brake Anti Collision Light and Position Lights in LED version	
70010	CTSW Classic Europe (MTOM 472,5 kg)	293,5
	Aircraft CTSW 472,5 kg class as per basic aircraft specification above. Platform specific enhancements as follows.	
	Exterior Aeronautical Plexiglass windshield, door windows and skylight, green tinted Main wheel tires qualified for 120km/h and 300 kg per tire	
	Interior Access to luggage compartment covered with cloth Controls in area of luggage compartment protected with plexiglass covers	
	Instrumentation Large instrument console with four single panels Basic Instrumentation including Analog airspeed indicator (large) Analog three pointer altimeter (large) Analog vertical speed indicator (small) Magnetic compass with deviation table Slip indicator Engine Monitoring using: Analog Tachometer (small) Analog oil pressure gauge (small) Analog oil temperature gauge (small) Analog cylinderhead temperature gauge (small) Hobbs hour meter Analog voltmeter (small)	

Order No.	Description	Weight
	<p>Engine</p> <p>Advanced 3-blade ground adjustable composite propeller, spinner included</p> <p>Air induction through Composite- Airbox installed to the front bulkhead with integrated flat air filter</p> <p>Carburetor heating</p> <p>Systems</p> <p>Large battery 12V / 7Ah</p>	
70020	CTSW Advanced Europe (MTOM 472,5 kg)	304,5
	<p>Aircraft</p> <p>CTSW 472,5 kg class as per basic aircraft specification above. Platform specific enhancements as follows.</p> <p>Exterior</p> <p>Aeronautical Plexiglass windshield, door windows and skylight, green tinted</p> <p>Main wheel tires qualified for 120km/h and 300 kg per tire</p> <p>Interior</p> <p>Access to luggage compartment covered with cloth</p> <p>Controls in area of luggage compartment protected with plexiglass covers</p> <p>Instrumentation</p> <p>Large instrument console with four single panels</p> <p>Basic Instrumentation as Glass Cockpit Dynon EFIS 100:</p> <ul style="list-style-type: none"> Bright LCD Display User friendly operation Attitude Indicator Airspeed Indicator Altimeter Vertical Speed Indicator Gyro-Stabilized Magnetic Compass Slip indicator Turn Rate Clock/Timer G-Meter Voltmeter Horizontal Situation Indicator Angle of attack warning Back-up battery <p>Engine monitoring as Glass Cockpit Dynon EMS D120:</p> <ul style="list-style-type: none"> Bright LCD Display User friendly operation Tachometer Oil pressure Oil temperature Cylinder head temperature Exhaust gas temperature Fuel flow Fuel pressure Manifold pressure Amperemeter Voltmeter Acoustic (coupled to Intercom) and optical warnings <p>Backup Instrumentation including:</p> <ul style="list-style-type: none"> Hobbs hour meter Radio Garmin SL40 installed with antenna Push-to-Talk buttons on each control stick Transponder Garmin GTX 327 Mode A/C installed with antenna Altitude Encoder Dynon GPS Garmin 496 XM with Americas database 	

Order No.	Description	Weight
	ELT Ameriking AK450 121.5 MHz	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Two Headset Telex Echelon 25 XT with plug connectors next to the seats	
	Instruments certified by FTZ / FAA-TSO / EASA-ETSO (as required)	
	Engine	
	Advanced 3-blade ground adjustable composite propeller, spinner included	
	Air induction through Composite- Airbox installed to the front bulkhead with integrated flat air filter	
	Carburetor heating	
	Systems	
	Large battery 12V / 7Ah	
OPTIONS ENGINE		
70100	Power Package 100 hp	2
	Rotax 912 ULS 100 hp with big starter instead of basic package engine 912 UL	
70110	Engine Version France (only together with Power Package)	0
	Rotax 912 ULS special version France with blue cylinder heads, with big starter instead engine 912 ULS of Power Package	
70120	Thermostat Package (only 912 ULS)	3,8
	Oil thermostat installed to the oil circuit	
	Water thermostat installed to the cooling water circuit	
70122	Slipper Clutch	1,7
	Protection against shock loading of engine by ground contact of propeller	
ACCESSORIES		
70200	Comfort Package Classic	12,8
	Manual three axis trim system	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	
	Heat distribution in cockpit to several air nozzles	
	Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel	
	12V auxiliary connector in cockpit	
	Double fresh air windows installed to the door windows	
	Two trays at the lower side of the instrument board	
	Map pockets at the main bulkhead	
	Pocket at each door	
	Door locks on both cabin doors	
	Parking brake	
	Anti Collision Lights and Position lights LED version	
	Cowling with Camlock quick fasteners	
	Sport seat with headrest	
	Reinforced landing gear "Cross Country"	
70201	De- selectable: deflectable sun visors	-0,7
70210	Nightflight Package Classic (only together with Comfort Package)	1,9
	Non- certified landing light, integrated to lower cowling	
70211	De- selectable:	-0,3
	Instruments with internal lighting or illuminated with UMA Light Bezels	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to main bulkhead	
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
	Anti- Collision- Light & Position Lights already included in Comfort Package	
70230	Comfort Package Advanced incl. Nightflight Package	13,5
	Manual three axis trim system	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	

Order No.	Description	Weight
	Heat distribution in cockpit to several air nozzles	
	Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel	
	12V auxiliary connector in cockpit	
	Double fresh air windows installed to the door windows	
	Two trays at the lower side of the instrument board	
	Map pockets at the main bulkhead	
	Pocket at each door	
	Door locks on both cabin doors	
	Parking brake	
	Anti Collision Lights and Position lights LED version	
	Cowling with Camlock quick fasteners	
	Sport seat with headrest	
	Reinforced landing gear "Cross Country"	
70231	De- selectable: deflectable sun visors	-0,7
	Non- certified landing light, integrated to lower cowling	
	All instruments illuminated, including backup instruments	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to main bulkhead	
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
70240	Complete System for Glider and Banner Towing	5,8
	Reinforced fuselage tail boom	
	Reinforced ventral fin	
	Aerotow coupling with actuation handles in cockpit and at ventral fin	
	Removable rearview mirror attached under wing leading edge	
	Large oil- and water cooler	
70250	Landing Light (only with Comfort Paket; included to Nightflight Package)	0,3
70260	Tundra Wheels CTSW (only with Comfort Package)	6,5
	Main wheels 6.00 - 6"	
	Wheel pants fitted to match changed wheel size	
	Nose wheel 4.00 - 6"	
	Nose wheel fork fitted to changed wheel size	
70270	Photowindow	0,7
	Additional photowindow in left door, 165 x 260 mm, sliding upwards	
	Fresh air window from Comfort Package remains unaffected	
70280	Advanced 3-Blade Ground Adjustable Composite Propeller	2,5
	Ground adjustable 3-blade propeller	
	Propeller blades composite in white / gray	
	Propeller blades with leading edge protection	
	Spinner fitted for three bladed propeller	
	Aluminium propeller hub	
70285	3 Blade Variable Pitch Propeller	5,5
	In-flight adjustable 3-Blade propeller, mechanical-hydraulic	
	Mechanically adjustable propeller hub	
	High efficient, composite propeller blades	
	Spinner fitted for three bladed variable pitch propeller	
70290	Interior leather "Pegaso" brown including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Sport seat with headrest, new and improved upholstery and improved cover	
	Seat covers in leather "Pegaso" brown	
	Control stick covers in leather "Pegaso" brown	
	Map pockets in synthetic leather black	
	Interior paint brown with speckles beige / white, in tone with leather seat	

Order No.	Description	Weight
70295	leather seats "Noir" black including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Sport seat with headrest, new and improved upholstery and improved cover	
	Seat covers in leather "Noir" black	
	Control stick covers in leather "Noir" black	
	Map pockets in synthetic leather black	
	Interior paint grey with speckles anthracite / white, in tone with leather seat	
Avionic		
70400	Garmin SL 40 Com, GTX 327 Mode C, GPS 496 XM and ELT 121,5 MHz	6,6
	Radio Garmin SL40 installed with antenna	
	Push-to-Talk buttons on each control stick	
	Transponder Garmin GTX 327 Mode A/C installed with antenna	
	Altitude Encoder provided by ACK A30 or Dynon EFIS unit (when installed)	
	GPS Garmin 496 XM with Americas database	
	ELT Ameriking AK450 121.5 MHz	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Two Headset Telex Echelon 25 XT with plug connectors next to the seats	
	Instruments certified by FTZ / FAA-TSO / EASA-ETSO (as required)	
70440	Dynon D180 without Angle of Attack	2,4
	Basic Instrumentation FlightDEK D180 providing: Super bright screen Backup battery	
	EFIS information: attitude airspeed altitude vertical speed gyro-stabilized magnetic compass slip/skid ball turn rate clock timers g-meter HSI	
	EMS information: Tachometer Cylinder Head Temperature Oil Temperature Oil Pressure Exhaust Gas Temperature Manifold Pressure Fuel Pressure Amperemeter (except for certification according to BCAR Section S) Voltmeter Fuel Flow Acoustic and optical warnings	
	Backup Instrumentation including: Analog airspeed indicator (small) Analog one pointer altimeter (small)	
70445	Upgrade Garmin 328 Mode S Transponder	0,5
	Transponder Garmin GTX 328 Mode S installed with antenna instead GTX 327	
	No support of TIS functionality	
	Reduced transmission power, and therefore reduced power consumption compared to GTX 330	
70450	Upgrade Garmin 330 Mode S Transponder	0,5
	Transponder Garmin GTX 330 Mode S installed with antenna instead GTX 327	

Order No.	Description	Weight
70407	Upgrade Garmin GPS 696 XM	0,8
	GPS Garmin 696 with XM function - Americas database	
70405	GPS 496 / 695 without XM Function - Atlantic Database	-0,3
	GPS 496 / 695 without XM Function for countries covered by Atlantic Database	
70406	GPS 495 / 695 without XM Function - Pacific Database	-0,3
	GPS 495 / 695 without XM Function for countries covered by Pacific Database	
70415	D180 System Upgrade Package	1
	Pitot tube with Angle of Attack sensing; Angle of Attack display and stall warning	
	Shunt installed to the electric circuit enables Dynon D180 to display electric power cons. (Amperemeter)	
	Manifold pressure sensor installed and connected with Dynon D180	
	Backup battery for FlightDEK D180	
70420	Upgrade Artex ME 406 ELT / 406 Mhz and 121,5 Mhz	-
	Artex 406 MHz ELT instead of Ameriking 121.5 MHz ELT	
70490	Omission of Headsets	-1,2
AUTOPILOT (non certified)		
70510	FD Pilot 2 Axis	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for CTSW	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Later upgrade possible	
70520	FD Pilot 2 Axis + vertical speed	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for CTSW	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Automatic vertical speed control	
DISPLAY UNITS		
70600	Display in km/h, °C, Altitude ft - mbar and Vario ft/min	0
70610	Display in kts, °C, Altitude ft - mbar and Vario ft/min	0
70620	Display in kts, °F, Altitude ft - in Hg and Vario ft/min	0
DESIGN SELECTION AND MARKINGS		
70910	Three color decals "Snow 1"	0
70911	Three color decals "Snow 2"	0
70912	Three color decals "Snow 3"	0
70913	Three color decals "Snow 4"	0
70920	Three color decals "Swing 1"	0
70921	Three color decals "Swing 2"	0
70922	Three color decals "Swing 3"	0
70923	Three color decals "Swing 4"	0
70930	Three color decals "Up 1"	0
70931	Three color decals "Up 2"	0
70932	Three color decals "Up 3"	0
70933	Three color decals "Up 4"	0
70990	Call Signs	0,3
	Call signs as decals in black prepared and attached	
ADDITIONAL PAPERWORK		
70800	Export Paperwork	0
	Conformity statement	
	Export Certificate	

Your Notes

Flight Design CTLS 472,5 kg Class Model Year 2010

Order No.	Description	Weight
BASIC AIRCRAFT SPECIFICATION - VALID FOR ALL PLATFORMS		
CTLS 472,5 kg Class		
Exterior		
Short wings with double winglets to reduce induced drag and increases directional stability)		
Increased vertical fin area		
All- moving stabiliser with 75% span antitab as elastic flap		
Two component exterior paint (white) double coated with decals according to selected scheme		
Aeronautical Plexiglass windshield, door windows and skylight, green tinted		
Rear side windows to improve oversight		
Extra wide cabin doors with gas spring		
2 luggage compartments, accessible through cabin		
Cowling hatch for easy oil and water check		
All tires size 4.00 - 6"		
Tires qualified for 120km/h and 300 kg per tire		
Tires classified for 6 Ply Rating (PR)		
Hydraulic disk brakes		
Steerable elastomer damped front wheel		
Contoured composite main landing gear		
Long wheelbase		
Long fuselage tail boom		
Interior		
Two tone cabin interior paint, grey / anthracite, structured surface, high abrasion resistance		
Optimized seat adjustment (leg length and seat height coupled, inclination)		
4-point safety belts for each seat		
2 storage trays on the cabin floor		
Strap down hooks in the luggage compartment		
Access to luggage compartment covered with cloth		
Controls in area of luggage compartment protected with plexiglass covers		
Rescue system, suitable for MTOW 472,5 kg		
Elongated cabin interior size		
Hat rack behind the pilot seats		
Instrumentation		
Large instrument console with four single panels		
Easy accessible fuse and breaker panel on instrument board		
Engine		
Rotax 912 ULS (100 hp) installed ready to fly		
Advanced 3-blade ground adjustable composite propeller, spinner included		
Rotax engine warranty		
Air induction through aluminium Airbox installed to engine frame; round air filter integrated to air path		
Carburetor heating		
Optimised engine shock mounts to improve vibration damping		
Slipper Clutch as protection against shock loading of engine by ground contact of propeller		
Systems		
Dual controls, conventional, three axis		
Manual stabiliser trim by control wheel		
Electronic flap control with pre-selection switch		
Large battery 12V / 7Ah		
Combination key switch		
2 wing tanks, 65l each = 130 l total fuel		
Central, common fuel valve		
Optimized fuel system		

Order No.	Description	Weight
	Common tank ventilation through winglets	
	Optimized pitch trim system	
	Documents	
	Flight- and Maintenance Manual in german or english	
	Engine Logbook	
	Aircraft Logbook	
	Airplane Logbook	
AIRPLANE BASIC PLATFORMS		
70031	CTLS Classic Light Europe (MTOM 472,5 kg)	308,3
	Aircraft	
	CTLS 472,5 kg class as per basic aircraft specification above. Platform specific enhancements as follows.	
	Instrumentation	
	Basic Instrumentation including Analog airspeed indicator (large) Analog three pointer altimeter (large) Analog vertical speed indicator (small) Magnetic compass with deviation table Slip indicator	
	Engine Monitoring using: Analog Tachometer (small) Analog Oil pressure gauge (small) Analog Oil temperature gauge (small) Analog Cylinder head temperature gauge (small) Hobbs hour meter Analog Voltmeter (small)	
	Comfort Package "Light"	
	Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel	
	Door locks on both cabin doors	
	Additional double fresh air windows in door windows	
	Two trays at the lower side of the instrument board	
	Sport seat with headrest	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	
	Heat distribution in cockpit to several air nozzles	
	12V auxiliary connector in cockpit	
	Parking brake	
	Anti Collision Light and Position Lights in LED version	
	Three axis trim system with optimized pitch trim system	
70030	CTLS Advanced Europe (MTOM 472,5 kg)	316
	Aircraft	
	CTLS 472,5 kg class as per basic aircraft specification above. Platform specific enhancements as follows.	

Order No.	Description	Weight
	Instrumentation	
	Basic Instrumentation as Glass Cockpit Dynon EFIS 100: Bright LCD Display Attitude Indicator Airspeed Indicator Altimeter Vertical Speed Indicator Gyro-Stabilized Magnetic Compass Slip indicator Turn Rate Clock/Timer G-Meter Voltmeter Horizontal Situation Indicator Angle of attack warning Back-up battery	
	Backup Instrumentation including: Analog airspeed indicator (small) Analog one pointer altimeter (small) Magnetic compass with deviation table	
	Engine monitoring as Glass Cockpit Dynon EMS D120: Bright LCD Display Tachometer Oil pressure Oil temperature Cylinder head temperature Exhaust gas temperature Fuel flow Fuel pressure Manifold pressure Amperemeter Voltmeter Acoustic (coupled to Intercom) and optical warnings	
	Hobbs hour meter	
	Radio Garmin SL40 installed with antenna	
	Push-to-Talk buttons on each control stick	
	Transponder Garmin GTX 327 Mode A/C installed with antenna	
	Altitude Encoder provided by Dynon EFIS unit	
	GPS Garmin 496 XM with Americas database	
	ELT Ameriking AK450 121,5 MHz	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Two headset Telex Echelon 25 XT with plug connectors next to the seats	
	Instruments certified by FTZ / FAA-TSO / EASA-ETSO (as required)	
	Engine	
	Oil thermostat installed to the oil circuit	
	Water thermostat installed to the cooling water circuit	
	Systems	
	Dual controls, conventional, three axis	
	Manual stabiliser trim by control wheel	
	Electronic flap control with pre-selection switch	
	Large battery 12V / 7Ah	
	Combination key switch	
	2 wing tanks, 65l each = 130 l total fuel	
	Central, common fuel valve	
	Optimized fuel system	
	Common tank ventilation through winglets	
	Optimized pitch trim system	

Order No.	Description	Weight
OPTIONS ENGINE		
70110	Engine Version France	-
	Rotax 912 ULS 100 hp, special version France with blue cylinder heads, with big Starter instead engine 912 ULS of Power Package	
ACCESSORIES		
70230	Comfort Package Advanced incl. Nightflight Package	13,5
	Manual three axis trim system	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	
	Heat distribution in cockpit to several air nozzles	
	Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel	
	12V auxiliary power connector in cockpit	
	Double fresh air windows installed to the door windows	
	Two trays at the lower side of the instrument board	
	Pocket at each door	
	Door locks on both cabin doors	
	Acces to luggage compartment from outside, with separate door locks	
	Parking brake	
	Anti Collision Lights and Position lights LED version	
	Cowling with Camlock quick fasteners	
70231	De- selectable: deflectable sun visors	-0,7
	Non- certified landing light, integrated to lower cowling	
	All instruments illuminated, including backup instruments	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to cabin ceiling	
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
	Elastic luggage net on each hat rack side	
70240	Complete System for Glider and Banner Towing	5,8
	Reinforced fuselage tail boom	
	Reinforced ventral fin	
	Aerotow coupling with actuation handles in cockpit and at ventral fin	
	Removable rearview mirror attached under wing leading edge	
	Large oil- and water cooler	
70250	Landing Light (only with Comfort Package; included to Nightflight Package)	0,3
70251	Landing Light in LED technology (only with Comfort Paket)	0,5
	Reduced power consumption due to LED technology (15W)	
70265	Tundra Wheels CTLS (only with Comfort Package)	6,5
	Main wheels 6.00 - 6"	
	Wheel pants fitted to match changed wheel size	
70270	Photowindow	0,7
	Additional photowindow in left door, 165 x 260 mm, sliding upwards	
	Fresh air window from Comfort Package remains unaffected	
70285	3 Blade Variable Pitch Propeller	5,5
	In-flight adjustable 3-Blade propeller, mechanical-hydraulic	
	Mechanically adjustable propeller hub	
	High efficient, composite propeller blades	
	Composite spinner fitted for three bladed variable pitch propeller	
70287	3 Blade Constant Speed Variable Pitch Propeller	5,6
	Modification of variable pitch hub for electric actuation	
	Implementation of fast speed electric actuator	
	Constant speed controller, 2 ¼", installed to the instrument panel	

Order No.	Description	Weight
70290	Interior leather "Pegaso" brown including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Seat covers for sport seat with headrest in leather "Pegaso" brown	
	Specifically cast-to-form upholstery	
	Inflatable cushions to allow fine adjustment of upholstery	
	Control stick covers in leather "Pegaso" brown	
	Map pockets in synthetic leather black	
	Two tone cabin interior paint, brown/beige matching leather color, structured surface, high abrasion resistance	
	Anthracite carpets on the floor	
70295	leather seats "Noir" black including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Seat covers for sport seat with headrest in leather "Noir" black	
	Specifically cast-to-form upholstery	
	Inflatable cushions to allow fine adjustment of upholstery	
	Control stick covers in leather "Noir" black	
	Map pockets in synthetic leather black	
	Two tone cabin interior paint grey/anthracite matching leather color, struct'd surface, high abrasion resistance	
	Anthracite carpets on the floor	
70300	Seat Belts Amsafe with Airbags for Both Seats	tba
	Four- Point belt with airbag integrated to cabin inside shoulder belt	
	Inertia reel for shoulder belts, installed to main bulkhead	
	Crash sensors installed under passenger seat	
70310	Large Battery	3,2
	Battery 12 V / 14 Ah installed instead of Battery 12 V / 7 Ah	
	Required when only one of the advanced avionic packages is selected	
BASIC AVIONIC PACKAGES (no combination with Advanced Avionic Packages possible)		
70400	Garmin SL 40 Com, GTX 327 Mode C, GPS 496 XM and ELT 121,5 MHz	6,6
	Radio Garmin SL40 installed with antenna	
	Push-to-Talk buttons on each control stick	
	Transponder Garmin GTX 327 Mode A/C installed with antenna	
	Altitude Encoder ACK A30	
	GPS Garmin 496 XM with Americas database	
	ELT Ameriking AK450 121,5 MHz	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Two headsets Telex Echelon 25 XT with plug connectors next to the seats	
	Instruments certified by FTZ / FAA-TSO / EASA-ETSO (as required)	
70430	Dynon D60 without Angle of Attack	1,1
	Basic Instrumentation EFIS-D60 providing: Single screen 7" Super bright screen EFIS information: attitude airspeed altitude vertical speed gyro-stabilized magnetic compass Turn coordinator Voltmeter	

Order No.	Description	Weight
	<p>Engine Monitoring with analog instruments: Analog Tachometer (small) Analog Oil pressure gauge (small) Analog Oil temperature gauge (small) Analog Cylinder head temperature gauge (small) Hobbs hour meter</p> <p>Backup Instrumentation including: Analog airspeed indicator (small) Analog one pointer altimeter (small)</p>	
70440	Dynon D180 without Angle of Attack	2,4
	<p>Basic Instrumentation FlightDEK D180 providing: Super bright screen Backup battery</p> <p>EFIS information: attitude airspeed altitude vertical speed gyro-stabilized magnetic compass slip/skid ball turn rate clock timers g-meter HSI</p> <p>EMS information: Tachometer Cylinder Head Temperature Oil Temperature Oil Pressure Exhaust Gas Temperature Manifold Pressure Fuel Pressure Amperemeter Voltmeter Fuel Flow Acoustic and optical warnings</p> <p>Backup Instrumentation including: Analog airspeed indicator (small) Analog one pointer altimeter (small)</p>	
70445	Upgrade Garmin 328 Mode S Transponder	0,5
	<p>Transponder Garmin GTX 328 Mode S installed with antenna instead GTX 327 No support of TIS functionality Reduced transmission power, and therefore reduced power consumption compared to GTX 330</p>	
70450	Upgrade Garmin 330 Mode S Transponder	0,5
	Transponder Garmin GTX 330 Mode S installed with antenna instead GTX 327	
70407	Upgrade Garmin GPS 696 XM	0,8
	GPS Garmin 696 with XM function - Americas database	
70415	D180 System Upgrade Package	1
	<p>Pitot tube with Angle of Attack sensing installed and connected to D180. Allows to provide Angle of Attack Shunt installed to the electric circuit enables Dynon D180 to display electric power consumption (Amperemeter) Manifold pressure sensor installed and connected with Dynon D180 Magnetic backup compass installed above the instrument panel Backup battery for FlightDEK D180</p>	

Order No.	Description	Weight
70410	Upgrade Garmin SL-30 Nav/Com with Dynon HS-34 - This option does not function when 70407 is selected!	1,2
	Garmin Nav / Com SL30 installed instead of Com SL40, with GS capable NAV Antenna located at the upper vertical tail	
	CDI display by Dynon EFIS D100	
	Combi- Control through Dynon HS34	
70411	Upgrade Garmin SL-30 Nav/Com with Dynon HS-34 - This option is only available when 70407 is selected!	1,5
	Garmin Nav / Com SL30 installed instead of Com SL40, with GS capable NAV Antenna located at the upper vertical tail	
	CDI display by Dynon EFIS D100	
	Combi- Control through Dynon HS34	
	PFD backup by Dynon FlightDEK D 180 w. second remote compass and battery instead of D 120 and analog backup instruments	
70420	Upgrade Artex ME 406 ELT / 406 Mhz and 121,5 Mhz	-
	Artex 406 MHz ELT instead of Ameriking 121.5 MHz ELT	
ADVANCED AVIONIC PACKAGES (no combination with Basic Avionic Packages possible)		
70460	Avionic Package Garmin G3X	tba
	Enhanced (wider) Instrument Mushroom with four individual panels	
	Alternative suite instead of Avionic installed to basic aircraft; including:	
	Garmin Double Screens GDU 370 and GDU 375 (7" landscape format) provide full PFD and full MFD	
	Full EMS functionality	
	Independent sensor units supporting all functions, installed at convenient locations	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Garmin SL30 NAV/COM Transceiver installed with GS capable NAV Antenna located at the upper vertical tail	
	Garmin GTX 330 Transponder Mode S	
	G3X suite linked up with Transponder and Transceiver	
	TIS functionality through link-up with GTX 330	
	Integrated GPS functionality with XM capability allows full navigation support	
	Jeppesen aviation database with terrain and obstacle databases and more	
	ELT ARTEX ME 406 – 406MHz	
	Analog Backup Instrumentation	
	Magnetic compass with deviation table	
	Airspeed Indicator 2 ¼"	
	Altimeter 2 ¼"	
	Trutrak ADI 2 ¼" with built-in backup battery	
70465	Downgrade no XM functionality for Garmin G3X package (only with Garmin Package G3X)	-0,1
	Implementation of Garmin GDU 370 Display Unit instead of GDU 375	
	Option can be selected on top of both packages that include one Garmin GDU 375 Display Unit; G3X Package and Skyview Upgrade GDU 375.	
	Option removes XM receiver and therefore XM; functionality from the units. XM is only available in North America, due to satellite coverage.	
	Functionality identical to GDU 375, only no XM receiver and functionality included	
70412	Upgrade GNS 430 (only with Garmin Package G3X)	1,8
	Garmin GMA 240 audio panel	
	Second COM antenna installed to the underside of the fuselage	
	Antenna splitter and diplexer to support both VOR / GS receivers from one VOR antenna with all signals	
	Required to support GPS steering on FD Pilot VSGV	

Order No.	Description	Weight
70413	Upgrade GNS 530 (only with Garmin Package G3X)	2,7
	Garmin GMA 240 audio panel	
	Second COM antenna installed to the underside of the fuselage	
	Antenna splitter and diplexer to support both VOR / GS receivers from one VOR antenna with all signals	
	Required to support GPS steering on FD Pilot VSGV	
70470	Avionic Package Dynon Skyview (alternative to all of the above Advanced Avionic selections) (First deliveries will support full functionality only after software upgrade, scheduled by Dynon for June 2010)	tba
	Enhanced (wider) Instrument Mushroom with four individual panels	
	Alternative suite instead of Avionic installed to basic aircraft; including:	
	Dynon Double Screens SkyView SV-D1000 (10" portrait format) with integrated backup batteries	
	Independent sensor and GPS units supporting all functions, installed at convenient locations	
	Garmin SL40 COM installed with antenna	
	Garmin GTX 330 Transponder Mode S	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Skyview suite linked up with COM and Transponder	
	Synthetic vision, moving map functionality	
	Jeppesen aviation database with terrain and obstacle database	
	ELT Artex ME406 - 406Mhz	
	Magnetic compass with deviation table	
70474	Garmin GPS 696 XM (only with Dynon Package Skyview)	1,1
	GPS Garmin 696 with XM function - Americas database	
	Interfaces to:	
	SL 40 COM or SL30 Nav/Comm Transceiver (depending order selection)	
	GTX 330 Transponder	
	TIS functionality (availability depending from ground station coverage)	
70475	Upgrade Garmin SL-30 Nav/Com (only with Dynon SkyView Package)	1
	Garmin SL30 NAV/COM installed instead of Garmin SL40 COM, with GS capable NAV Antenna located at the upper vertical tail	
	CDI NAV display provided by Dynon SkyView; no separate CDI included (depending on DYNON software update!)	
AVIONIC OPTIONS		
70405	GPS 496 / 695 without XM Function - Atlantic Database	-0,3
	GPS 496 / 695 without XM Function for countries covered by Atlantic Database	
70406	GPS 495 / 695 without XM Function - Pacific Database	-0,3
	GPS 495 / 695 without XM Function for countries covered by Pacific Database	
70490	Omission of Headsets	-1,2
AUTOPILOT (non certified)		
70510	FD Pilot 2 Axis	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for CTLS	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Later upgrade possible	
70520	FD Pilot 2 Axis + vertical speed	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for CTLS	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Automatic vertical speed control	
70530	FD Pilot VSGV (only together with Garmin Package G3X)	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for CTLS	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	

Order No.	Description	Weight
	Automatic vertical speed control	
	GPS Steering, including vertical profile (requires connection to GNS 430 or 530)	
70540	<i>Dynon Autopilot (with Dynon Package Skyview - Servos only)</i> <i>available not before June 2010 (first planned delivery from Dynon)</i>	2,5
	Autopilot commanded directly from Dynon Skyview Screens and Controls	
	Aileron control includes Heading hold, Track hold, Bug select, Bug preselect, HSI nav, GPS steering	
	Elevator Control includes Altitude hold, Altitude select / change, Altitude preselect, Airspeed limits	
	Future software update planned with Vertical speed hold, Vertical speed select, Vertical Nav	
DISPLAY UNITS		
70600	<i>Display in km/h, °C, Altitude ft - mbar and Vario ft/min</i>	0
70610	<i>Display in kts, °C, Altitude ft - mbar and Vario ft/min</i>	0
70620	<i>Display in kts, °F, Altitude ft - in Hg and Vario ft/min</i>	0
DESIGN SELECTION AND MARKINGS		
70940	<i>Four color decals "Wave 1"</i>	0
70941	<i>Four color decals "Wave 2"</i>	0
70942	<i>Four color decals "Wave 3"</i>	0
70943	<i>Four color decals "Wave 4"</i>	0
70944	<i>Four color decals "Wave 5"</i>	0
70950	<i>Four color decals "Storm 1"</i>	0
70951	<i>Four color decals "Storm 2"</i>	0
70952	<i>Four color decals "Storm 3"</i>	0
70953	<i>Four color decals "Storm 4"</i>	0
70954	<i>Four color decals "Storm 5"</i>	0
70955	<i>Four color decals "Classic 1"</i>	0
70956	<i>Four color decals "Classic 2"</i>	0
70990	<i>Call Signs</i>	0,3
	Call signs as decals in black prepared and attached (1x per fuselage side, 1x lower wing skin, depending on	
ADDITIONAL PAPERWORK		
70800	<i>Export Paperwork</i>	0
	Conformity statement	
	Export Certificate	

Your Notes

Price List CTSW and CTLS 472,5 kg Class, Model Year 2010

Prices and technical specifications are subject to change without previous notice

Prices for equipment are incl. installation on new aircraft

Delivery ex Flight Design Logistik Brettnig- Hauswalde

Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform			
				Classic Light Europe	Classic Europe	Advanced Europe	CTLS
AIRPLANE BASIC PLATFORM							
70000	279,5	69.072,72 €		+	Not avail.	Not avail.	Not avail.
<i>CTSW Classic Light Europe (MTOM 472,5 kg) (Basic equipment already includes Comfort Package Light)</i>							
70010	293,5	64.749,18 €		Not avail.	+	Not avail.	Not avail.
<i>CTSW Classic Europe (MTOM 472,5 kg)</i>							
70020	304,5	77.711,12 €		Not avail.	Not avail.	+	Not avail.
<i>CTSW Advanced Europe (MTOM 472,5 kg)</i>							
70031	308,3	77.391,09 €		Not avail.	Not avail.	Not avail.	+
<i>CTLS Classic Light Europe (MTOM 472,5 kg) (Basic equipment already includes Comfort Package Light)</i>							
70030	316,0	83.858,31 €		Not avail.	Not avail.	Not avail.	Not avail.
<i>CTLS Advanced Europe (MTOM 472,5 kg)</i>							
OPTIONS ENGINE							
70100	2,0	2.749,77 €		+	+	+	included
<i>Power Package 100 hp</i>							
70110	0,0	0,00 €		+	+	+	+
<i>Engine Version France (only together with Power Package)</i>							
70120	3,8	453,97 €		Not avail.	+	+	included
<i>Thermostat Package (only for engine 912 ULS)</i>							
70122	1,7	370,95 €		+	+	+	included
<i>Slipper Clutch</i>							
ACCESSORIES							
70200	12,8	6.699,74 €		partly incl.	+	Not avail.	partly incl.
<i>Comfort Package Classic</i>							
70201	-0,7	-150,00 €		Not avail.	+	Not avail.	Not avail.
<i>De- selectable: deflectable sun visors</i>							
70210	1,9	2.521,05 €		Not avail.	+	Not avail.	Not avail.
<i>Nightflight Package Classic (only together with Comfort Package)</i>							
70211	-0,3	-550,00 €		Not avail.	+	Not avail.	Not avail.
<i>De- selectable: Trutrak ADI- instrument to display bank angle, pitch and direction (electronic directional gyro); including backup battery providing 30 minutes emergency operation (according supplier specification) Attention: Required to fulfill ASTM Nightflight Standard!</i>							

Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform				
				CTSW			CTLS	
				Classic Light Europe	Classic Europe	Advanced Europe	Classic Light Europe	Advanced Europe
70230	13,5	6.694,00 €		Not avail.	Not avail.	+	Not avail.	+
70231	-0,7	-150,00 €		Not avail.	Not avail.	+	Not avail.	+
70240	5,8	1.971,53 €		Not avail.	+	+	+	+
70250	0,3	200,20 €		Not avail.	+	included Conf. Pkg.	+	included Conf. Pkg.
70251	0,5	514,50 €		Not avail.	Not avail.	Not avail.	+	+
70265	6,5	990,00 €		Not avail.	Not avail.	Not avail.	Not avail.	+
70260	6,5	1.301,68 €		Not avail.	+	+	Not avail.	Not avail.
70270	0,7	543,90 €		Not avail.	+	+	+	+
70280	2,5	780,00 €		+	included	included	included	included
70285	5,5	3.670,00 €		+	+	+	+	+
70287	5,6	4.720,00 €		Not avail.	Not avail.	Not avail.	+	+
70290	2,5	862,98 €		Not avail.	+	+	+	+
70295	2,5	862,98 €		Not avail.	+	+	+	+
70300	tba	4.250,00 €		Not avail.	Not avail.	Not avail.	Not avail.	+
70310	3,2	80,00 €		Not avail.	Not avail.	Not avail.	Not avail.	+
70400	6,6	6.900,00 €		+	+	included	+	included
70430	1,1	1.900,00 €		Not avail.	Not avail.	Not avail.	+	Not avail.
70440	2,4	3.090,00 €		+	Not avail.	Not avail.	+	Not avail.

Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform				
				CTSW			CTLS	
				Classic Light Europe	Classic Europe	Advanced Europe	Classic Light Europe	Advanced Europe
70445	0,5	950,00 €	Upgrade Garmin 328 Mode S Transponder	+	+	+	+	+
70450	0,5	1.980,00 €	Upgrade Garmin 330 Mode S Transponder	+	+	+	+	+
70407	0,8	1.270,00 €	Upgrade Garmin GPS 696 XM	Not avail.	+	+	+	+
70410	1,2	2.960,00 €	Upgrade Garmin SL-30 Nav/Com with Dynon HS-34 - (This option is not possible when 70407 is selected; in this case select option 70411)	Not avail.	Not avail.	Not avail.	Not avail.	+
70411	1,5	4.375,00 €	Upgrade Garmin SL-30 Nav/Com with Dynon HS-34 (This option is only possible when 70407 is selected)	Not avail.	Not avail.	Not avail.	Not avail.	+
70415	1,0	395,00 €	D180 System Upgrade Package	+	Not avail.	Not avail.	+	Not avail.
70420	0,0	685,00 €	Upgrade Artex ME 406 ELT / 406 MHz and 121.5 MHz	+	+	+	+	+
70460	tba	18.530,00 €	ADVANCED AVIONIC PACKAGES (no combination with Basic Avionic Packages possible)	Not avail.	Not avail.	Not avail.	Not avail.	+
70465	-0,1	-450,00 €	Avionic Package Garmin G3X Downgrade no XM functionality for Garmin G3X package (only with Garmin Package G3X)	Not avail.	Not avail.	Not avail.	Not avail.	+
70412	1,8	8.700,00 €	Garmin GNS 430 (only with Garmin Package G3X; on top of SL30)	Not avail.	Not avail.	Not avail.	Not avail.	+
70413	2,7	12.400,00 €	Upgrade GNS 530 (only with Garmin Package G3X; on top of SL30)	Not avail.	Not avail.	Not avail.	Not avail.	+
70470	tba	5.480,00 €	Avionic Package Dynon Skyview	Not avail.	Not avail.	Not avail.	Not avail.	+
70474	1,1	2.570,00 €	Garmin GPS 696 XM (only with Dynon Package Skyview)	Not avail.	Not avail.	Not avail.	Not avail.	+
70475	1,0	2.075,00 €	Upgrade Garmin SL-30 Nav/Com (only with Dynon SkyView Package)	Not avail.	Not avail.	Not avail.	Not avail.	+
70405	-0,3	-344,54 €	AVIONIC OPTIONS GPS 496 / 695 without XM Function - Atlantic Database	+	+	+	+	+
70406	-0,3	-344,54 €	GPS 495 / 695 without XM Function - Pacific Database	+	+	+	+	+
70490	-1,2	-280,00 €	Omission of Headsets	+	+	+	+	+
70510	3,4	3.580,00 €	AUTOPILOT (non certified) FD Pilot 2 Axis	+	+	+	+	+

Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform					
				CTSW		CTLS			
				Classic Light Europe	Classic Europe	Advanced Europe	Classic Light Europe	Advanced Europe	
70520	3,4	4.040,00 €		+	+	+	+	+	
70530	3,4	4.850,00 €		Not avail.	Not avail.	Not avail.	Not avail.	+	
70540	2,5	1.400,00 €		Not avail.	Not avail.	Not avail.	Not avail.	+	
DISPLAY UNITS									
70600	0,0	0,00 €		+	+	+	+	+	
70610	0,0	0,00 €		+	+	+	+	+	
70620	0,0	0,00 €		+	+	+	+	+	
DESIGN SELECTION AND MARKINGS									
70910	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70911	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70912	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70913	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70920	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70921	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70922	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70923	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70930	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70931	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70932	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70933	0,0	0,00 €		+	+	+	Not avail.	Not avail.	
70940	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70941	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	

Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform					
				Classic Light Europe	Classic Europe	Advanced Europe	Classic Light Europe	Advanced Europe	
70942	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70943	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70944	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70950	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70951	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70952	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70953	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70954	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70955	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70956	0,0	0,00 €		Not avail.	Not avail.	Not avail.	+	+	
70990	0,3	0,00 €		+	+	+	+	+	
ADDITIONAL PAPERWORK									
70800	0,0	on effort		+	+	+	+	+	

weights can differ by 3% of the total specified weight

Sum according to selection	
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Payment Schedule:	
First down payment on order, when expected date of delivery is more than 5 months away	5.000,00 €
Second down payment at least 5 months before expected delivery date	20.000,00 €
Total down payment	25.000,00 €
Final payment right before delivery ex Ukraine (Net value) **	
Total payment (Net value) **	

** Total payment value enhances by legally required sales taxes as applicable

Your Notes



Flight Design GmbH

Entwicklung und Vertrieb von Flugsportgeräten
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Handelsregister Stuttgart HRB 222689
VAT ID No.: DE 147857992
Geschäftsführer: Matthias Betsch(CEO)-Oliver Reinhardt-Christian Wenger

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