

Carat A

SINGLE SEAT HIGH PERFORMANCE MOTOR-GLIDER FOR SOARING AND FOR FAST CRUISING IN ALL COMPOSITE CONSTRUCTION

The high level standardized construction and manufactured touring motor-glider with soaring performance of Standard Class Sailplane

Freedom of flight, easy to fly, comfortable cockpit, easy controls and maneuvering harmony

Price list 2008

Valid as of: 27.02.2008, all older price lists superseded

Carat A serial equipment – airframe, engine, instrumentation:

- unique single-seat touring motor-glider, ready to fly, test-flown,
- best lift/drag ratio of 35:1 as came from Carat A high performance Discus 15 m / 49.2 ft wing with Winglets, from Discus horizontal tail, from Carat folding propeller and from retractable landing gear,
- 2-part wing for two quick / automatic changeable short wing-ends: wing ends with Winglets and standard Discus wing tips, both times with aluminum tip skids,
- a range of 1026 km / 637 sm, with 53 l / 13.8 US gal quantity of unleaded premium petrol 98 Okt. or 100LL in the standard fuel tank,
- complete glider in composite construction,
- double story effective airbrakes,
- power-plant / engine: reliable / simple / low maintenance construction, VW based: Sauer S 1800-1-ES 1 C, 60 hp / 45 kW at 3000 rpm, 4 cylinder, 4 stroke, hydraulic controlled valves, air-cooled, the carburetor adapts the mixture automatically to altitude, low noise emission 62,7 dB(A), according LSL Chap. 10, operating handles: throttle, choke, carburetor heat, fuel valve ON-OFF,
- propeller: type AM-F3-1A/140-1, composite glass fiber sandwich construction, 55 in / 140 cm, two bladed, forward-folding automatically out from engine YES-NO running situation, simple mechanical reliable system,
- electro-hydraulically (and emergency manually-hydraulically) retractable landing gear, with landing gear control buzzer, audio system, to guarantee landing gear extension before landing,
- effective hydraulic main wheels disc brakes, Sinter system,
- automatic hook ups for all controls, Schempp-Hirth, easy one man assembly, Carat A fits into a normal sailplane trailer,
- large steer-able spring-loaded tail wheel, controls connected to the rudder,
- advanced Mylar sealed control surfaces and 3D (zig-zag) turbulators wings bellow and horizontal tail installed,
- adjustable rudder pedals,
- adjustable seat back with head rest,
- comfortable cockpit and 145 kg / 320 lbs pay load at a basic necessary equipment,
- fin integrated weight locations to balance pilots mass, installed,
- elevator trim system / handle, type Schempp-Hirth,
- side hinge opening clear canopy installed with side vent window,
- cabin heating and ventilation systems, front pilot / canopy ventilation system with individual control,
- seat belts, four-point static harness restraint system Schroth with rotating closure,
- comfortable terminal board offers plenty of room for a envious assortment of optional instruments, VFR equipment including GPS, moving map, computer, transponder, ..., terminal board / instrument panel Nextel lacquered,
- high capacity battery for engine and avionic, 12V, 18 Ah,
- additional electric fuel pump,
- stainless steel exhaust system, complete,
- standard instrumentation assortment (handles, switches, gauges, senders), installed: throttle, choke, carburetor heat, fuel valve ON-OFF, fuel quantity, Voltmeter, gauge, dual, tachometer, engine hours meter, dual oil pressure gauge, oil temperature gauge, CHT gauge, CHT sender installed second cylinder head on right side, landing gear toggle switch UP-OFF-DOWN and indicator light, landing gear control buzzer when airbrakes out, Cessna split master switch, dual, generator indicator light, start push button,

- keyed ignition switch,
- additional electric fuel pump toggle switch ON-OFF,
- Avionics ON-OFF toggle switch,
- manually-hydraulically landing gear retraction handles,
- cabin ventilation handle,
- cabin heating handle,
- 4 engine / landing gear / generator / battery systems automatic circuit breakers,
- VHF antenna for transceiver fin integrated and terminal board cabled,
- two adapters in vertical stabilizer integrated for TE-Static and for Pitot probe, line hoses mounted / forwarded to instrument panel, Pitot probe enclosed,
- large space behind the seat for baggage including tent and sleeping bag,
- optional pick up for oxygen bottle – choice - 4-3/8” – 112 mm \circ , or 5-1/4” - 135 mm \circ , with fixation fitting,
- textile cockpit interior, walls interiors from cloth with convenient storage pockets,
- service package set,
- registration No. and glider logo printed in one of factory standard colors (red, blue, grey, green) / heights,
- flight and maintenance manuals, instruments and equipment certificates, including necessary reports (weighing, list of equipment, ...),
- Carat A is designed and manufactured according highest international rules and standards for the gliders, JAR 22,
- Export certificate of airworthiness and Non registration certificate according EASA Part 22 / JAR 22 rules,

2007 / 2008 actual news and improvements included in serial Carat A:

- MTOW enlargement was calculated and tested from 470 kg / 1037 lb to 490 kg / 1080 lb to establish the sufficient payload for the pilots they decide for full assortment of instrumentation and for a lot of other options; Carat A basic design safety factors allowed this and every single manufactured Carat A can be modified for higher MTOW,
- within AMS is organizing FAA certification of the Carat A in USA,
- engine standard prepared for retrofitting of the Sauer / Dyno second electronic ignition at a later date, dual,
- compass have now its standard position on the top of the instrument panel to avoid its calibration problems out from different conditions of the use of instruments when soar or when fly with motor, and to save one instrument panel space for optional instrumentation,
- Volt-meter and CHT gauges added to standard engine instrumentation, three engine instrumentation gauges now in dual configuration to save the space in the instrument panel,
- Battery 12V, 7,2 Ah, including mounting, baggage department installed, wired, fuse protected, standard connector added
- two wing ends, one with Winglets and standard Discus wing tips, both times with aluminum tip skids, tips automatic connections exchangeable,
- all acrylic weather and UV-long term resistant white painting & finish on all sailplane surfaces (also more elastic and resistant concerning fast temperature changes during the flights), name PU used many times,
- standard known ELAN / AMS high performances gliders surfaces finish, wet and dry grinding, polishing, protection coat,
- pilot stick and airbrakes handle in leather design, installed,
- cotton fabric canopy dust cover, propeller cotton cover, white,
- air scoop included in canopy slide window,
- main bolts tapped (eccentric) tool set for easy two-man wings assembly,
- seat cushion, cloth, standard.

Price	€ 85.100	Confirmation:
		\circ

Carat A special equipment and optional extras:

	€	Confirmation:
Dual ignition, Sauer / Dyno electronic, complete installed, surcharge (order not latest than three months before the delivery term)	1.924,00	\circ
Surcharge tinted canopy (order not latest than three months before the delivery term)	250,00	\circ
Necessity provision / relief tube, installed (without equipment)	69,00	\circ
Threads and eye screw for tie down the sailplane, at inner wing panels, installed (order not latest than four months before the delivery term)	166,00	\circ
Oxygen GFK cylinder with bottle holder, installed, 4-3/8” – 112 mm \circ , or 5-1/4” - 135 mm \circ	254,00	\circ
Baggage harnesses, installed	76,00	\circ
Transponder antenna AV 22, S + A/C mode, inside fuselage installed / cabled till instrument panel (order not latest than four months before the delivery term)	246,00	\circ
Tail wheel fairing make large tail wheel nicer looking and more aerodynamic, installed	226,00	\circ
Aerodyn. wing tip wheels with eyes for holders install.on w.ends, instead of tip skids, pair, surch.	144,00	\circ \circ
Solar panel on the fuselage, 3 units, including charger control, installation included	1.788,00	\circ
Total energy / TE probe, Ilec, extended version, 900 mm	79,00	\circ
Total energy / TE probe type BR/ST, 800 mm, ESA-Systeme	105,00	\circ
Seal fitting for TE/Prantl-M adapter with flag “Remove before flight”, each	28,00	\circ
Surcharge wood or carbon look instrument panel, each, lacquered	296,00	\circ
Surcharge for special energy absorbing seat-cushion	68,00	\circ
Contest markings (tail both sides, one wing), stickers	160,00	\circ
Contest markings (tail both sides, one wing), printed in one of 4 standard factory colors / heights	194,00	\circ

Contest markings (tail both sides, one wing), wished RAL painted, one coat paint	286,00	○
National flag, tail both sides, standard size	42,00	○
Large national flag-emblem cross the fin, left / right, wished RAL's, stickers	98,00	○
Large national flag-emblem cross the fin, left / right, wished RAL, painted, one coat paint	172,00	○
Carat A special fuselage color design, 4 standard choices, stickers	884,00	○
Anti-collision markings: pair of wingtips, rudder edge, red standard	288,00	○
Anti-collision markings: pair of wingtips, rudder edge, strips, fluorescent red, lacquered, two coats	484,00	○
Instrument panel hole, 80 mm ○, ○, ○ or 58 mm ○, ○, ○, without cover, each	14,00	○ ○ ○
Instrument panel hole, 80 mm ○, ○, ○ or 58 mm ○, ○, ○ with cover screwed, each	27,00	○ ○ ○
Pneumatic selector switch from TE to S, to protect varios, installed	84,00	○
Additional automatic circuit breaker, transponder, transceiver, ..., installed, each	82,00	○ ○ ○
Additional protection standard tube fuse, transponder, transceiver, ..., installed, each	28,00	○ ○ ○
Additional miniature ON-OFF toggle switch, engine gauges, gyro, ..., installed, each	65,00	○ ○ ○
12V charging socket, fuse protected, instrument panel installed, each	42,00	○ ○ ○
12V charging socket, fuse protected, cockpit / baggage department panel installed, via		
Master-switch by-pass, each	56,00	○ ○ ○
12V cigarette lighter, fuse protected, instrument panel installed, each	49,00	○ ○ ○
Battery charger, 12 V, 220 V, central EU system, standard AMS connector mounted	132,00	○
Battery charger, 12 V, USA 110 V or other non-EU system, adapter, standard AMS connector	168,00	○
All weather and UV protection covers Top-Cover for all sailplane, single seat	890,00	○
Cotton white dust protection covers for all sailplane, single seat	490,00	○
Slovenia / factory local handling and export / import clearance & charges, each	112,00	○
Bill of Sale	40,00	○
Working hour price for additional ordered service EUR, a hour	28,00	...
Glider inside the trailer transport with the van / car 0,51 € per km (distance in km x 1,04 €) destination:		○

Other instruments, accessories and installation / service prices are available on request (ask for additional price lists or special offer):

- glider trailers and glider ground handling equipment
- pneumatic/mechanic instruments Winter, ..., compasses, probes, ..., installation costs
- transceivers Becker, Filser, ..., transponders / encoders, ELT's, ..., installation costs
- electric audio vario / averager-systems, computer/GPS/e,vario systems LX navigation, ..., installation costs

Prices are in €, without Tax/VAT, ex-works AMS facility Begunje, Slovenia. Prices are those effective at the time of the shipment or when full payment is received, but AMS general sales terms confirm that basic prices for gliders are fixed as on valid price list at the time when order is confirmed with down-payment deposit. Prices for special equipment, trailers, instruments and accessories are those effective at the time of the issue of the final pro-forma invoice or when full payment is received. Prices do not include additional equipment and service required under national certification and operation regulations. Additional enclosures necessary at the Carat A final specification are:

- instrument panels arrangement
- glider outside surfaces definitions, canopy clear or tinted, registration number, contest markings, flag, logo, anti-collision markings, special color design, other specifications necessary

Time of delivery – delivery dates will be binding when the down payment deposit is received and basic specification of the ordered aircraft is confirmed by AMS – FLIGHT, d.o.o. Down-payment deposit when order is placed is EUR 12.000, final payment before or at the date of the delivery and acceptance. Sales are governed by AMS – FLIGHT, d.o.o. general terms and conditions. This document can be used also as order, order specification and order confirmation form.

AMS bank and account: **VOLKSBANK – LJUDSKA BANKA D.D., Ljubljana**
Dunajska 128a, SI-1000 Ljubljana, Slovenia
BIC / SWIFT code: **SLBVS12X** ("I" inside the code is large "I" not 1 - one !!!)
Account number / Konto: **220-710000-36898**
IBAN: **SI56300000003689819**

Name, address and country of the purchaser:

.....Phone number – fax number – e-mail address:

.....AMS delivery term / S/N confirmation:

Customer sign (order): AMS sign (order confirmation):

Place / date:

Place / date: