



SKYCAR

SHAPED BY THE SPIRIT OF ACHIEVEMENT

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made in italy



SKYCAR is a revolutionary 5-seat aircraft that derives its name from its automotive inspiration. In fact OMA SUD adopted the latest technological achievements and technical solutions of luxury car market in order to ensure the best synergy between top comfort, high performance, excellent ergonomic and spacious interiors, together with a state-of-the-art avionic system and aerodynamic design.

SKYCAR features a twin-boom empennage, with vertical tail, high stabilator design combined with a high wing, a very large rear door and two pusher-mounted Lycoming engines.

The retractable landing gear can easily and safely operate on unpaved airfields. Due to cabin design, interiors arrangements can be easily changed from Air Taxi to V.I.P./comfort lay out-and just as easily-from Full Cargo to Surveyor and Air Ambulance, as well as other intermediate configurations.

EXPERIENCE A NEW WAY
TO FLY THE INNOVATION,
WITH SAFETY!
GET EXCITED
WITH THE SAFE TWIN
PUSHING POWER
AND THE LIMOUSINE-LIKE
COMFORT OF SKYCAR

THE REAL UNIQUE

SKYCAR is a unique design with a clean and sharp line. Although its dimensions are contained, its internal volume is notably superior to that of its competitors, permitting exceptional comfort for passengers, easy access through the large rear door and excellent cargo capacity, characteristics that no other aircraft of its class can boast.

It is the twin boom configuration which has permitted the SKYCAR to offer a wide rear door. This special opening system (unique in this class of aircraft) together with the internal volume in cargo configuration (about 200 cu.ft) and the wide cargo platform, ensures loading of baggage, or stretchers or pallets during ground operations, and it, moreover, is simplified.

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THE REAL UNIQUE
LATEST GENERATION
MULTIUTILITY TWIN
DESIGNED IN ITALY
TO BE AN EFFECTIVE
BUSINESS AND
PRIVATE GLOBAL TOOL





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SKYCAR

HIGH-WING TWIN ENGINES
IN PUSHER CONFIGURATION

RETRACTABLE LANDING GEAR

6,98 m³ (240 cu.ft.) INTERNAL VOLUME

TWO LARGE CREW DOORS
AND A LARGE REAR BONNET

FIVE LEATHER SEATS (CERTIFIED AT 26 G)

HIGH AERODYNAMIC EFFICIENCY

HELICOPTER-LIKE VISIBILITY

3D SYNTHETIC VISION & SYSTEM REDUNDANCY

OPERATING COSTS SAVING

ENVIRONMENT FRIENDLY

A BASIC MEDIUM RANGE STATE OF THE ART PLATFORM DESIGNED TO MEET A WIDE RANGE OF NETWORK-ENABLED OPERATIONS:

MARITIME SURVEILLANCE HOMELAND SECURITY

ILLEGAL IMMIGRATION SURVEILLANCE

EXCLUSIVE ECONOMIC ZONE PATROL

SEARCH AND RESCUE

MEDICAL EVACUATION

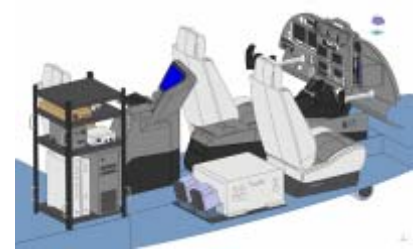
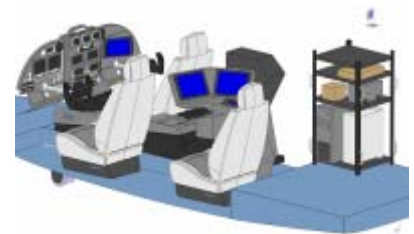
ENVIRONMENTAL SURVEY&RISK ANALYSIS

SUPPORT TO HUMANITARIAN MISSIONS

ILLEGAL BUILDING SURVEILLANCE

POWERLINE/GASDUCT NETWORK SURVEILLANCE

LIGHT CARGO, VIP TRANSPORT, AEROTAXI





SPECIFICATION

AIRCRAFT DIMENSIONS	
Overall Height	2,70 mt / 8,4 ft
Overall Length	8,82 mt / 29,9 in
Wingspan	12,00 mt / 39,4 ft
CABIN DIMENSIONS	
Cabin Volume	4,98 m ³ / 176 ft ³
Luggage Volume	1,81 m ³ / 64 ft ³
Total Volume	6,79 m ³ / 240 ft ³
Maximum Seating Capacity	
DESIGN WEIGHTS & CAPABILITIES	
Ramp Weight	2015 kg / 4442 lbs
MTOW	1995 kg / 4398 lbs
Useful Load	555 kg / 1224 lbs
Total fuel Capacity	500 lt / 132 us gal.
PERFORMANCE	
Maximum Cruise Speed	160 ktas (296 km/hr)
Range (45 min reserve, taxi, take off, climb and descent)	1087 nm (2013 km 7.0 hr) (10000 ft - fuel setting best economy)
Rate of Climb at Sea Level	1500 ft/min - 7,6 m/s (2 engines)
Take off distance to 50 ft	1266 ft (386 mt)
Landing Distance to 50 ft	1732 ft (528 mt)
POWERPLANT	
Engine	2 Lycoming IO-360-C1E6
Horsepower	200 Hp Each
TBO	2000 Hrs
Propeller	2-Blade Hartzell



INTERIORS

Get inside the SKYCAR, and experience the most voluminous cabin in this class of aircraft equipped with fine Italian leather seats.

The SKYCAR cabin has been ergonomically designed to get you to your destination fresh and relaxed or to minimize your work load , if you're a pilot .

SKYCAR offers you more seats and space for your passions and your work. Now you can fly with your family without leaving at home what you really care for.

Whether you are member of top management or you are a qualified person the SKYCAR is the right choice for you.

The cabin layout is highly flexible and can be easily re-configured from a comfortable five-seater into a cargo-intensive hauler or anything in between.

COMFORT FLYING IN A S





FOR BUSINESS AND ALSO LEISURE....

SKYCAR



cargo configuration + 1



cargo configuration + 2



VIP configuration 1 + 2



VIP configuration 1 + 3



VIP configuration 1 + 4



VIP configuration 1 + 3

AVIONICS

The SKYCAR is equipped with a glass-deck avionics architecture that integrates all primary flight, engine and sensor data to provide redundancy and independency of sensor information driven by the latest system safety requirements.

SKYCAR avionics architecture simplifies pilot's primary and secondary instruments scan under all conditions; the result is enhanced situation awareness, safety, and reduced pilot workload.

The core of the avionics architecture is the Chelton FlightLogic Synthetic Vision EFIS composed of a complete flight/navigation instrumentation system, that provides information via two-screens (PFD and MFD) and it includes a 3D Synthetic Vision technology to provide a realistic, real-time 3D depiction of aircraft and its relation to the surrounding terrain. In addition, the avionics architecture includes also a Highway-In-The-Sky feature and a TAWS (Class C) functionality.

A DFCS2100 digital two-axis autopilot (S-TEC), a GPS-SBAS/WAAS, two independent and redundant COM/VOR/ILS equipment (GARMIN GNS430W), two redundant and independent engine monitoring system (AuRACLE II 4 Cyl System - Ultra Flightline), a DME (Honeywel/Bendix King KN63), a Mode-S Transponder (GARMIN GTX330) and an Audio Panel with Marker Beacon functionality (GARMIN GMA347) complete the SKYCAR avionics architecture.



INSTRUMENTS

Zenith

ON/OFF
BATTERY DISCONNECT SWITCH
12VDC
10A

Emergency
STOP

THROTTLE
L-200

EMERGENCY STOP
STOP ENGINE

Emergency
STOP

EMERGENCY STOP
STOP ENGINE

EMERGENCY STOP
STOP ENGINE

EMERGENCY
LANDING GEAR
SLIDING DOOR



CHLTON CHLTON

Left MFD: Primary Flight Display (PFD) showing attitude, airspeed, altitude, and heading. Right MFD: Multi-Function Display (MFD) showing a map and various flight parameters.

ATTITUDE FAIL

Three large analog gauges: Heading Indicator, Attitude Indicator, and Vertical Speed Indicator.

I-SKYC

AsRACLE CSM 2100 AIRACLE

Two airspeed indicators (ASI) for 'AIRACLE' and 'AIRACLE'. Various engine and system gauges including RPM, oil pressure, and temperature. A digital display shows '7000'.

WARNING

GABIN AIR CONTROL

Emergency warning panel with a red master warning button and cabin air control panel with various switches and indicators.

Yoke and central console controls including gear selector, flap lever, and secondary pitch trim.

RUDDER TRIM UP DOWN LH RH T/O LDG ON OFF

FLAPS SECONDARY PITCH TRIM

Control panel for rudder trim and flaps, including LH and RH trim switches, T/O and LDG trim, and ON/OFF flaps and secondary pitch trim controls.



PFD Primary Flight Display

- Advanced HUD symbology with flight path marker (FPM)
- All flight instruments (attitude, heading, ASI, ALT, VSI)
- Overlay of HSI, ILS, and flight director on PFD
- Real-time 3-D terrain (worldwide)
- Conformal obstructions
- 3-D navigation
- On-screen FMS functions



MFD Primary Flight Display

- Moving map with FMS and terrain
- Worldwide Terrain
- Reversionary PFD
- Electronic HSI page

FEATURES

	DESCRIPTION	STANDARD	OPTIONAL
01	CHELTON EFIS SYSTEM	•	
01	Primary Flight Display	•	
01	Multi Function Display	•	
02	Chelton ADAHRSe	•	
01	Korry TAWS	•	
01	CHELTON 3102-232 GPS SBAS/WAAS	•	
02	GARMIN 430 COM/NAV/ILS/GPS	•	
01	GARMIN GTX 330 Mode-S Transponder	•	
01	KING DME	•	
01	GARMIN GMA 347 Audio Panel	•	
01	S-TEC DFCS 2100 Digital Auto Pilot	•	
01	ARTEX ELT	•	
02	AuRACLE II 4 Cyl System - Ultra Flightline EMS	•	
02	LED LANDING LIGHTS	•	
02	LED TAXI LIGHTS	•	
01	PILOT LEATHER SEAT AND SAFETY BELT SYSTEM	•	
01	CO-PILOT/PASSENGER LEATHER SEAT AND SAFETY BELT SYSTEM	•	
01	THREE SEATS LEATHER BENCH SEAT AND SAFETY BELT SYSTEM	•	
01	FIRST AID KIT	•	
01	CHELTON CO-PILOT EFIS SYSTEM		•
01	Primary Flight Display		•
01	Multi Function Display		•
01	KING ADF		•
01	KING WEATHER RADAR		•
01	BF GOODRICH STORMSCOPE		•
01	ENVIRO AIR CONDITIONING SYSTEM		•
01	GOODRICH PROPELLER ELECTRIC ANTI-ICE SYSTEM		•
01	GOODRICH SURFACE DE-ICE BOOT SYSTEM		•





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In OMA SUD your mission requirements are our commitments.



www.omasud.it
