

SKY ARROW 650 SERIES



JAR/VLA AND FAR 23 CERTIFICATION DAY AND NIGHT VFR OPERATIONS

Certified under JAR/VLA and, in the USA, under stringent FAR 23 rules, the Sky Arrow 650 TCS/TCNS meets or exceeds the same design, manufacturing and performance standards as much larger and more complex certified aircraft. The Sky Arrow 650 TCNS is certified for day & night operations (where applicable) under visual flight rules.

MODERN DESIGN, HI-TECH CONSTRUCTION

The Sky Arrow 650 TCS/TCNS is easy to fly, with superb visibility and low operating costs. The Sky Arrow 650 TCS/TCNS is an outstanding personal aircraft, as well as an excellent trainer. Manufactured with corrosion-free carbon fibre sandwich, the airframe is extremely strong yet lightweight, resulting in an aircraft with exceptional take-off and flight performance.

PARTS MODULARITY

Unique to these aircraft is our modular construction philosophy. Wings, horizontal stabilizer, instrument panel, powerplant, electric system: each of these elements can be easily

and quickly detached from the aircraft, thus simplifying maintenance operations while minimizing down time and cost.

RELIABLE, ECONOMICAL ROTAX 912 S2 ENGINE

The 100 hp Rotax 912 S2 is the benchmark powerplant for the certified, two-seat aircraft market. It delivers 25% more power than its predecessor, while keeping fuel consumption at sipping levels. With a cruise speed of about 100 kts, you still burn less than 20 lt/h either of 100LL or automotive fuel.

ERGONOMIC CABIN, COMPLETE PANEL

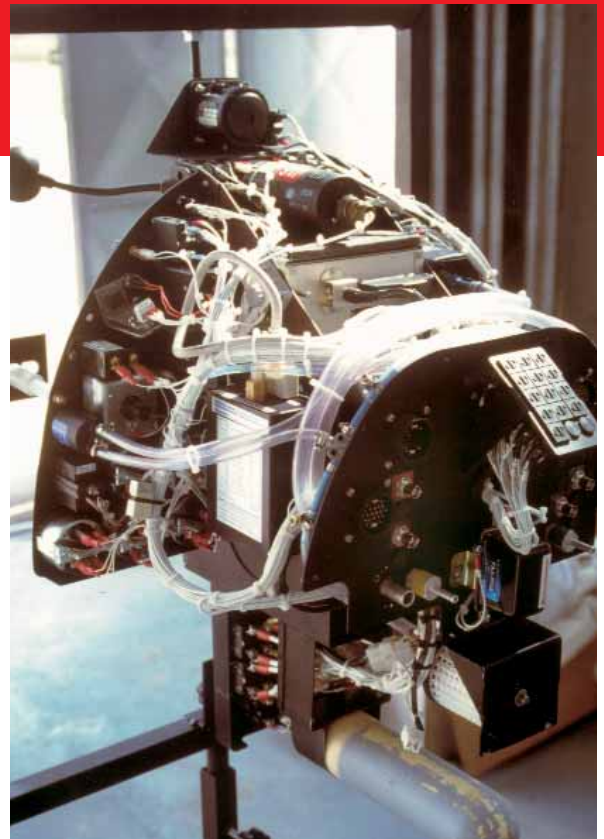
The wrap-around canopy, comfortable seats with plenty of headroom, and dual side stick controls provide the ultimate in comfort and visibility for both pilot and passenger. Enjoy the spacious instrument panel, electric flap and elevator trim, low cockpit noise levels and baggage space for local flights or extended trips.



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JAR/VLA and FAR 23 – CERTIFIED

POWERPLANT	
ENGINE	ROTAX 912 S2 98 hp (73,5 KW) @ 5.800 rpm
PROPELLER	Hoffmann, two-blade, fixed pitch
SPECIFICATION	
LENGTH	24,9 ft (7.6 m)
HEIGHT	8,4 ft (2,6 m)
WING SPAN	31,5 ft (9,7 m)
WING AREA	145 sqft (13,5 m ²)
SEATS	2, tandem configuration
MAX TAKE-OFF WEIGHT	650 kg (1.433 lbs)
USEFUL LOAD	250 kg (556 lbs)
FUEL CAPACITY	68 lt / 65 lt usable
FUEL SPECIFICATION	avgas 100LL or MOGAS 95/98 oct. unleaded
CERTIFICATION	JAR/VLA-FAR 23
FLIGHT RULES VFR DAY & NIGHT	(Sky Arrow 650 TCNS)
PERFORMANCE (@ MTOW, ISA conditions, sea level)	
NEVER EXCEED SPEED (VNE)	132 kts (244 km/h)
MAXIMUM SPEED	105 kts (194 km/h)
CRUISE SPEED	(@ 75% power – 6.000 ft) 101 kts (187 km/h)
STALL SPEED (full 30° flaps)	40 kts (74 km/h)
RATE OF CLIMB	840 fpm (4,3 m/s)
TAKE-OFF RUN	580 ft (177 m)
TAKE-OFF DISTANCE over 50 ft obstacle	1.400 ft (427 m)
LANDING RUN	425 ft (130 m)
LANDING DISTANCE over 50 ft obstacle	670 ft (205 m)
SERVICE CEILING	13.500 ft (4.100 m)
FUEL CONSUMPTION (@ 75% power)	18,5 lt/h
ENDURANCE (@ 75% power, no res.)	3h 20'
MAX RANGE (@ 75% power, no res.)	610 km (330 NM)
STANDARD CONFIGURATION	
	TCS TCNS
POWERPLANT	
Engine: Rotax 912 S2 98 Hp (4 stroke, 4 cylinder)	x x
Propeller: twin-blade, fixed-pitch, wood/composite	x x
Additional alternator: 40 Amp	- x
Carburator Heating System	x x
Air flow separation system	x x
Electric cooling fans for taxiing	x x
FLIGHT INSTRUMENTATION	
Magnetic Compass	x x
Turn and bank indicator	x x
Airspeed indicator	x x
Attitude indicator	x x
Altimeter	x x
Vertical speed indicator	x x
Directional gyro	x x
Flaps position indicator	x x
Longitudinal trim indicator	x x
OAT indicator	x x
Digital chronometer	x x
Hour meter	x x
Instruments light	- x
Adjustable cockpit light	- x
Map Light	- x
ENGINE INSTRUMENTATION	
Tachometer	x x
Fuel pressure indicator	x x
Oil pressure indicator	x x
Oil temperature indicator	x x
Cylinder head temperature indicator	x x
Fuel level indicator	x x
Vacuum indicator	x x
Volt/Ammeter	x x
AVIONICS	
NAV/COM Bendix King KX-155 (for Italy and foreign use)	x x
VOR/LOC/GS Indicator Bendix King KI-204 (for Italy and foreign use)	x x
NAV/COM Bendix King KX-125 (only for foreign use)	x x
Transponder Bendix King KT-76A	x x
Intercom	x x
AIRFRAME	
Weather resistant white finish	x x
Blue-tinted canopy with air vents, sliding side window and lock	x x
Canopy emergency release system	x x
Removable blue-tinted aft windows	x x
Cockpit heating/venting system	x x
Non-Skid floor with map/glove compartment box	x x
Five-point safety belts	x x
Seat cushions	x x
Forward below seat map/glove compartment box	x x
Landing light	- x
Navigation light	- x
Strobe light	- x
Fire extinguisher	x x
Emergency Locator Transmitter (ELT)	x x
First Aid kit	x x
AUXILIARY ACCESSORIES	
Fuel level measuring stick	x x
Fuel inspection cup	x x
Yaw control gust-lock	x x
Plugs for static ports and Pilot tube cover with "Remove Before Flight" streamers	x x
Funnel with water separator	x x
(2) aileron padded locks with "Remove Before Flight" streamers	x x
Types available: VFR 650 TCS	
VFR NIGHT 650 TCNS	



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