

KITPLANES FOR AFRICA

(PTY) LTD

Reg no 2005/032019/07

Hanger 1, Komatipoort Airfield
Komatipoort
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Mpumalanga, South Africa



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NTCA data sheet for aircraft: **Bushbaby, and Bushbaby - Explorer**

Aircraft:	description	Single engine, high wing, fixed undercarriage, land plane
Engine	Make/ Model	Rotax 912 UL, ULS
	operation	4-stroke
	HP	80 & 100
	Maintenance/ parameters	As per Manufacturers specifications
Propeller	Type	P-prop, GSC, Woodcomp (flight adjustable), IVO, any propeller recommended by the engine manufacturer
	length	66" – 72" as per engine manufacturers specifications
	blades	2 or 3 blade fixed or adjustable
Fuel	Burn (L/hour)	12-18
	Tank capacity	2 x 50 litre (46 usable)
	Range	400-450 (depending on prop)
	Endurance / Hours	5.5 no reserve
Seat	persons	2
	construction	Composite bench seat
Undercarriage	Tricycle	Free-caster nose wheel with differential braking Front leg suspension via rubber "doughnuts" Main legs either 1. welded steel tube with shock cord or coil spring suspension 2. Grove style solid blade aluminium spring gear
	Tail dragger	Tail wheel steering via extended rudder link, either custom wheel assembly or Matco 6" & 8" or Maule tail wheel assembly Main leg either: 1. welded steel tube with shock cord or coil spring suspension 2. Grove style solid blade aluminium spring gear
	Brakes & wheels	Standard custom cable operated drum brakes, 6" rims Custom hydraulic with 8" rims, Matco, Cleavland or Grove hydraulic disc brakes 6" rims
	Tyres	Main : 15 x600 x6 mower, 6.00 x6 aircraft , 8.00 x6, 800x8 and 8.50x8
		Nose: 15 x600 x6
Tail: 6: solid rubber, 6" & 8" pneumatic. (Matco, Maule)		

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	Note:	Bushbaby = grove for kitfox 4
		Explorer = Grove for kitfox 5/ 6
Wings	Construction	Tubular aluminium spar/ plywood ribs, foldable
	Tanks	composite
Fuselage Controls	Construction	Welded steel tube, truss
	Rudder	Welded steel tube, cable activated
	elevator	Welded steel tube, push-pull tube activated
	Flapperon	Aluminium spar, composite, push-pull tube activated
	trim	Flapperon for pitch, rudder trim tab
Control surface movement	Aileron up	20
	Aileron down	10
	Elevator up	25° - 30°
	Elevator down	15° - 20°
	Rudder left & right	30° - 35°
	Wing flap : Retracted	0°
	Take-off	0 – 25
	Landing	0 – 25
	Note:	All measurements refer to hinge line rotation
Covering	Fabric	2.2oz Aero-muti, Polyfibre medium, Ceconite102
	Dopes/ paint	Aero-muti, fabric cement, nitrate, butyrate & UV butyrate, pigmented butyrate Polyfibre system, Classic aero system. FAA approved systems
Air speed limits. IAS (knots)	Vne	120
	Max structural cruise	105
	Manoeuvring	78
	Max flap full extend	67
	Cruise	60 - 95
	Stall	33-37
Size (meter)	Length	5.4
	Length (wings folded)	6.3
	Wing span	9.25 (explorer 9.30)
	Width (wings folded)	2.4 (explorer 2.45)
	Wheel base	1.8 (explorer 1.85)

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Weight	MTOW	600
	Empty	275 - 300
	Useful load	275 - 250
Centre of Gravity range.	Forward limit. % of cord	19 %
	Forward limit. Mm from datum	250 mm
	Aft limit. % of cord	28,5 %
	Aft limit. Mm from datum	373 mm
	Datum	Wing leading edge
	Levelling means	Belly of aircraft, level

Approved by:

Type certificate holder name: Kitplanes For Africa (Pty) Ltd

S Coetzee MD

Date: 1 April 2011