

J430		J430			
Engine		Limitations			
JAB 3300 120HP/90KW @ 3300RPM		Tachometer: 3150 RPM			
Prop: 60"Ø 53° Pitch		CHT (°C): -75 75-175 175+			
Oil: W100+/15W50 3,5L		EGT (°C): 780+			
Static RPM: 2800<X<3000		Oil Temp (°C): -50 50 - 118 118+			
Max Continuous: 3150RPM		Oil Press (kpa): 80-220 220-525 525+			
Fuel:		Min Oil Press SAL: 220 kpa Min Oil Pres Desc: 80 kpa			
Fuel Flow: 25 LPH		Tyres			
<u>ZU - EBU</u> Capacity: Total - 134L Usable - 124L		Standard Tyres			
<u>ZU-IKG</u> Capacity: Total - 140L Usable - 135L		kpa Bar PSI			
		Mains 280 - 315 2.8 - 3.15 41-45			
		Nose 175 - 210 1.75 - 2.1 26-30			
		Larger Tyres			
		kpa Bar PSI			
		Mains 100-120 1-1,2 14,5-17			
		Nose 170-200 1,7-2 24-29			
		Airspeeds			
C of G		Vne 134 kts			
Forward Limit: 200mm Aft of Datum		Vno 110 kts			
Aft Limit: 282mm Aft of Datum		Va 88/91 kts			
Datum: Leading Edge		Vfe 80 kts			
<u>ZU-EBU</u>		Vr 65 kts			
Max take-off/landing weight: 700kg		Vy 80 kts			
Empty Weight: 386.5kg		Vx 71 kts			
<u>ZU-IKG</u>		White Arc 48 - 80 kts			
Max take-off/landing weight: 760kg		Green Arc 80 - 110 kts			
Empty Weight: 396.8kg		Yellow Arc 110 - 134 kts			
Empty Weight = $\frac{(A/C \text{ empty } W) \times (\text{Empty } W \text{ C.G.})}{1000}$		Red Line 134 kts			
Trim Index = $\frac{(A/C \text{ empty } W) \times (\text{Empty } W \text{ C.G.})}{1000}$		Best Glide 80 kts			
		Normal App 30° Flap 70 kts			
		Flapless App 80 kts			
		Short Field App 65 kts			
		Max X-wind Comp 14 kts			
Take-Off Landing Distance					
400m x Safety Factor of 1.3 = 520m					
* At MSL on dry grass runway, max weight.					
* Increase distance by 115ft for each 1000' of P.A					