

C-130 TAKEOFF AND LANDING DATA CARD

C-130H, 40/60 KVA, 3000 PSI, H+ Pack

PA	RWY HDG/LENGTH	OPERATING WT
946 ft	100° TRUE / 8000 ft	
OAT/DEVIATION	RCR/RSC/SLOPE	FUEL WT
11 / -2.1 °C	23 / 0 / 0%	
OBSTACLE HEIGHT	WIND DIRECTION/VELOCITY	CARGO WT
1660 ft MSL	130° TRUE / 8 - 16 kts	
OBSTACLE DISTANCE	COMP H/T / CROSS	GROSS WT
12730 ft / 2.0951 NM	7 H / 8 kts	155.0 klb
GRADIENT/HEIGHT 3 ENG		GRADIENT/HEIGHT 4 ENG
302 ft/NM / 4800 ft MSL		350 ft/NM / 4800 ft MSL
REDUCED POWER	MIL/MAX CONTINUOUS POWER	MAXIMUM POWER
TORQUE	TORQUE	TORQUE 100% (Norm Bleed)
		19600 in-lb
TIT	TOF	TIT
		1066 °C
		1.42
CFL BALANCED	CFL UNBALANCED	MIN FIELD MAX EFFORT
7381 ft	5140 ft	4174 ft
4 ENG COF & FT/NM	3 ENG COF & FT/NM	MIN FIELD VMCA/VTO CORRECTED
GROSS WT LIMIT = 164.8 klb	GROSS WT LIMIT = 144.7 klb	4174 ft
4 ENG GRD RUN/TOD	3 ENG SERVICE CEILING	MAX EFFORT GRD RUN/MAX EFFORT TOD
4786 ft / 7105 ft	17109 ft	3653 ft / 5620 ft
	2 ENG SERVICE CEILING	MAX EFFORT GRD RUN/MAX EFFORT TOD CORRECTED
	2133 ft	3653 ft / 5620 ft
SMOE	ACCELERATION CHECK TIME	3 ENG GRD RUN/TOD
1.01	34 sec, 110 KIAS	

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RP TIT	TORQUE	MAX TORQUE 100% (Norm Bleed) 1066 °C / 19600 in-lb
MINIMUM CONTROL SPEEDS	NORMAL TAKEOFF SPEEDS	MAX EFFT TAKEOFF SPEEDS
VMCG 86 KIAS	REFUSAL 129 KIAS	REFUSAL
VMCA IN GROUND EFFECT (1ENG INOP) 100 KIAS	TAKEOFF (VTO) 123 KIAS	TAKEOFF (VTO)
VMCA OUT OF GROUND EFFECT (1ENG INOP) 106 KIAS	OBSTACLE CLEARANCE (VOBS) 137 KIAS	OBSTACLE CLEARANCE (VOBS)
VMCA OUT OF GROUND EFFECT (2ENG INOP) 148 KIAS	3 ENG CLIMB 168 KIAS	3 ENG CLIMB
	4 ENG CLIMB 176 KIAS	4 ENG CLIMB

LANDING DATA FOR FLAP SETTINGS / ENGINES [4 GROUND IDLE]

GROSS WEIGHT			
155.0 klb			
MAX EFFORT 100%	100%	50%	0%
APPROACH 145 KIAS	APPROACH 145 KIAS	APPROACH 164 KIAS	APPROACH 185 KIAS
THRESHOLD 137 KIAS	THRESHOLD 144 KIAS	THRESHOLD 154 KIAS	THRESHOLD 175 KIAS
TOUCHDOWN 126 KIAS	TOUCHDOWN 126 KIAS	TOUCHDOWN 135 KIAS	TOUCHDOWN 161 KIAS
LANDING GND ROLL 2463 ft	LANDING DISTANCE 4984 ft	LANDING DISTANCE 6394 ft	LANDING DISTANCE 9165 ft