

DG - 500Orion serial No. 5E- 221X59 registration: N505KM

datum: wing leading edge at root rib levelling line: pattern on aft fuselage 100:3,3

a = 361,5 mm	b = 4997,5 mm	a+b= 5359,0 mm
17,2m	18m	20m
G2= 33,85 kg	G2= 33,75 kg	G2= 33,70 kg
G1= 385,60 kg	G1= 392,80 kg	G1= 399,60 kg

component weight [kg]:				
wings:	inner panel:	wingtips 17,2m	wingtips 18m	wingtips 20m
left	100,0	0,7	2,7	6,1
right	98,6	0,7	2,8	6,0

	17,2m	18m	20m
fuselage incl. rudder and canopy	206,2	209,2	209,4
horizontal tailplane	13,3		
fixed ballast in the front:			
in the tail:			

U : utility A : aerobatik
max. wight without wing ballast = GNT + G wings

complete airplane [kg]	span/ configuration	17,2m		18m		20m
		A	U	A	U	U
total weight G=G1 + G2			419,5		426,6	433,3
max. weight with wing ballast		625,0	750,0	625,0	750,0	750,0
max. payload with wing ballast		205,6	330,6	198,5	323,5	316,7
max. weight of the non lifting parts			445,0		445,0	445,0
max. weight without wing ballast			645,0		649,1	655,7
max. payload without wing ballast			225,5		222,6	222,4

empty weight C.G. location							
Xs = (G2 * b/G)+a [mm]		764,8	756,9	750,2			
allowable C.G. range	from - to [mm]	690,2	764,9	681,8	760,2	674,0	755,8
	at wight [kg]		419,5		426,6		433,3
max. cockpit load in both seats	210,0 kg						
min. cockpit load in the front	67,0 kg						

equipment list (in the aircraft during weighing):

	type	manufakturer	installation place
airspeed indicator	6FMS423	Winter	instrument panel
	6FMS423	Winter	instrument panel
altimeter	5934P-3	United instr.	instrument panel
	5934P-3	United instr.	instrument panel
variometer	5StvM5-3	Winter	instrument panel
	5StvM5-3	Winter	instrument panel
variometer	L-NAV	Cambridge	instrument panel
	L-NAV	Cambridge	instrument panel
compass	C 2400	Airpath	instrument panel
	C 2400	Airpath	instrument panel
radio	AR4201	Becker	console below panel
Logger	GPS-NAV	Cambridge	instrument panel
Thermometer	TF 00-059	Stork	instrument panel
batteries	Z 07	DG	fin
water - bags	5 F 35	DG	
harness	4-01-0 104	Schroth	
C.G. tow - hook	G 98	Tost	
nose - hook	E 85	Tost	

date: 02.06.01

stamp:



signature: