

BGA glider data sheet - DG 300 & DG 300 Elan

Data source: Manufacturer's Handbook

Date of issue: May 1984

Manufacturer: Glaser-Dirks Flugzeugbau GmbH

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Link to mandatory mods:

Weighing Data:

	Kg	Pounds
Max weight with water	525	1157
Max weight (dry)		
BGA concession non-aerobatic max weight (dry) [+3%]		
Max weight of non lifting components (everything except wings)	246	542
BGA concession non-aerobatic max weight of non lifting components [+5%]	258	570
Max pilot weight (seat load)	110	242
Water ballast capacity	190	419

mm Inches

Forward C of G limit (aft of datum)	325	12.8
Aft C of G limit (aft of datum)	160	6.3
Pilot position (forward)	549	21.6

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Controls mass & moments
Ailerons	62±3	31±3	120	3 - 5,7 Kg 8 - 9,9 Kg cm
Elevator	63±1	36±1	150	1,6 - 2,2 Kg 6,7 - 8,7 Kg cm without pushrod
The elevator is neutral with a straight edge on top of the elevator and rear part of the TP.				
Rudder	215 ± 5 left and right		414	2,5 - 4 Kg 4 - 6 Kg cm (with mass ball)

Controls max free play (controls central)

With the elevator & both ailerons fixed 3 mm total at the top of the stick, fore & aft and side to side.

2 mm at one aileron with the other fixed.

Negligible play in the elevator connector.

Rudder axial play at top hinge 0,5mm.

Longitudinal datum: Wing root LE

Horizontal datum: Rear fuselage sloping rear down 36.7: 1000

With a standard 2.16 Kg weights on the right of the panel, min cockpit weight is reduced 3.6 Kg per weight.

Maximum fin ballast 5.5 Kg (12 lb). Fin ballast is 4180mm aft of datum. Max baggage 15 Kg (33 lb).

Put a maximum of 1 Kg of water in the fin tank for every 28 Kg in the wings.

Maximum speeds

	Knots	Kph
VNE	146	270
Rough air	108	200
Rough air DG303 ELAN	96	178

	Knots	Kph
Manoeuvre	108	200
Wheel down	108	200
Aerotow	108	200
Winch / auto tow	70	130

VNE at altitude

Feet	Meters	Knots	Kph
6-10 000	2 - 3 000	138	256
10-13 000	3 - 4 000	131	243
13-16 000	4 - 5 000	124	230
16-20 000	5 - 6 000	117	218

Max winch weak link: 680 daN (Blue)

Tyre pressure: Main 49 psi (3.5 bar), rear 28 psi (2 bar)

Semi aerobatic without water. Cloud flying permitted, without water.

Notes: -

Span 15 meters.

This sheet compiled by: Tim Macfadyen Date: 29 August 2002