

BGA glider data sheet - DG 100 (all moving tailplane)

Data source: Manufacturer's Handbook

Date of issue: Oct 1975

Manufacturer: Glaser-Dirks Flugzeugbau GmbH

Web site dgflugzeugbau.de

UK Agent: UK Agent: Navboys www.Navboys.com Tel:- 01264 981934

Link to mandatory mods: <http://www.dg-flugzeugbau.de/tech-mitteilungen-e.html>

Weighing Data:

	Kg	Pounds
Max weight with water	418	922
Max weight of non lifting components (everything except wings)	270	595
BGA concession non-aerobatic max weight of non lifting components [+5%]	283	625
Max pilot weight (seat load)	117	258

	mm
Forward C of G limit (aft of datum)	220
Aft C of G limit (aft of datum)	365
Pilot position (forward of datum)*	
Min weight pilot	492
Max weight pilot	537

Control deflections in mm

	Up	Down	Distance - hinge to measuring point	Max moment. Gram meters
Ailerons	97-107	41-51	188	70
Elevator	137-141	64-68	181	
Measure elevator deflection from a horizontal line 87mm below the top of TP bracket on the fin (see maintenance manual).				
Rudder	233 - 253 left and right		460	90
Controls max free play (controls central)				
With the stick fixed neutral ± 1.5 mm at each aileron 188mm from the hinge.				
Rudder axial play at top hinge 0,5mm.				
Max tangential play at elevator tip ± 10 mm				

*Pilot positions vary considerably. When the in-flight C of G is near the aft limit it is best to weigh the glider with the pilot in, to determine the exact in-flight position.

The maximum dry weight limit was effectively removed by TN 301-24 which redefined the max dry weight as the max weight of the non lifting components (including pilot) + the weight of the wings.

Longitudinal datum: Wing root LE Horizontal datum: Rear fuselage sloping rear down 36.7: 1000

Maximum speeds

	Knots	Kph		Knots	Kph
VNE	140	260	VNE at altitude		
Rough air	140	260	Aerotow	89	165
Manoeuvre	89	165	Winch / auto tow	70	130
Wheel down	89	165	Airbrakes open	140	260
			15-18000 feet	113	209

Max winch weak link: 600 Kg (Blue)

Tyre pressure: Main 36 psi (2.5 bar), rear 28 psi (2 bar)

Semi aerobatic without water. Cloud flying permitted.

With a standard 2.2 Kg weight on the right of the panel, min cockpit weight is reduced 3.6 Kg (8 lb).

Span 15 meters

The DG 100 has an all moving tailplane. The DG 100G has a fixed tailplane and elevator.

This sheet compiled by: Tim Macfadyen

Clarifications & elevator deflection added 31 Dec 2007

Previous update (TN301-24 non lifting parts weight increased): 2 Oct 2007

Last update UK Agent changed 23 Oct 2021