

Janus C

Basic Dimensions

Span 20m (65.6ft)
Length 8.62m (28.3ft)
Max Wt 700Kg (1543 lbs)
Max Wing Load 6.45 lb/sq ft

Speeds

Limiting (Vne) (IAS)
Flaps -7, -4, 0, +8 135 knt
Flaps Landing (L) 76 knt
Maneuver (Va) 97 knt (limit in "severe turbulence")
Winch launch (Vw) 81 knt
Aero tow (Vt) 97 knt
Max Spoiler 135 knt
Min Sink 1.2knt @ 46 knt (1.97fps)
Best L/d 43 @ 54 knt

Airspeed indicator markings

White Arc 44 – 76 knt
Green Arc 48 - 97 knt
Yellow Arc 97 - 135 knt
Red line 135 knt
Yellow triangle 57 knt (minimum recommended speed for approach, no water, with Flap L)

Relevant weights

Max Gross 1543 lb
Non-lifting parts 882 lb max
(everything except wings)
Max cockpit load 242 lb per seat
Min cockpit load 154 lb (solo pilot & chute)
Empty Wt 929 lbs CG 20.84 Aft of Datum
Max water ballast 929 + Pilot Wt + H2O to 1543 lb
Max baggage 11 lb

CG limits

Max forward 1.58 in aft of datum
Max rearward 10.63 in aft of datum
P1 Moment Arm 51.18 Fwd of Datum (neg value)
P2 Moment Arm 7.48 Fwd of Datum (neg value)

Maneuver limits

Club Limits - Acrobatic maneuvers not approved
Spins Approved with CFIG
Caution: Tight Seat Belts, Steady Stick (Firm Grip) and light stick movements at higher speeds when running with flaps at -7.

NOTES:

1. Datum is wing leading edge at rib root.
2. Use of water ballast limited to non-freezing conditions.
3. Refer to Water Ballast Loading Tables for pilot weight and max water load.
4. Tire Pressures: Main 65 lbs, Nose 35 lbs
5. Max weak link break strength – 1653 lb +/- 165 lb
6. Operation limited to day VFR only. Night VFR, IFR and flight into known icing conditions are not approved.
7. **Caution:** Tight Seat Belts, Steady Stick (Firm Grip) and light stick movements at higher speeds when running with flaps at -7.

Minimum equipment for flight

Airspeed indicator (2)
Altimeter in ft (2)
Magnetic compass
Four piece seat belt harness (2)
Seat back cushion or parachute not thinner than 3 - 4 in
Checklist and cockpit placards
Janus Flight Manual

Speeds to fly (KIAS)

Min Sink 1.97 knt @ Flap +8 @ 46 knt
Best L/d 43 @ Flap 0 @ 54 knt

Flap Position	When Used	Recommended Speed	Speed Limit
- 7	High Speed	81 – 135	135
- 4	Normal	59 – 86	135
0	Normal	49 – 65	135
+ 8	Normal / Thermaling / Tow	40 – 51	135
L	Landing	48 - 57	76

(Updated 03/11/2008)