

Canada Wings

Aviation Training Centre

Quick Reference: Grob G120A



Photo: Grob Aerospace

Primary Trainer (Phase I)

The Grob G120A single-engine aircraft is the Phase I Primary trainer used by the Air Force at Canada Wings Aviation Training Centre. This fully aerobatic, constant speed propeller, retractable undercarriage aircraft is ideal for initial pilot selection. The fully IFR cockpit lends itself well to follow-on pilot training.

Grob G120A Features:

- o Excellent handling qualities
- o Fully aerobatic (+6 and -4 g)
- o Retractable undercarriage
- o Proven reliability
- o Largest cockpit in its class with ample shoulder room and spacious seats, even for large pilots wearing full military equipment and helmets
- o Air conditioning for summer operations and dual heat exchangers for winter
- o Digital Video Recorder and cameras to assist in evaluating student pilot performance



Specifications: Grob G120A

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|------------------|--|
| Engine: | Lycoming AEIO-540-D4D5 |
| Power: | 260 hp |
| Propeller: | 3-Blade, constant speed |
| Wingspan: | 10.2 m (33 ft 5 in) |
| Length: | 8.1 m (26 ft 6 in) |
| Height: | 2.6 m (8 ft 5 in) |
| Wing area: | 13.3 m ² (143 ft ²) |
| Aspect ratio: | 7.82 |
| Fuel Capacities: | Usable |
| | Litres 252 |
| | Imperial Gallons 55.4 |
| | U.S. Gallons 66.6 |
| | Pounds 400 |

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Grob G120A

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|---|------------------------|
| Max Level Speed at SL/ISA: | 172 kts (320 km/h) TAS |
| Cruise Speed at 75% power, 5000 ft ISA: | 166 kts (307 km/h) TAS |

| | Utility | Aerobatic |
|--|--------------------|--------------------|
| Max take-off weight (mass): | 1490 kg (3285 lb) | 1440 kg (3175 lb) |
| Max landing weight (mass): | 1440 kg (3175 lb) | 1440 kg (3175 lb) |
| Max useful load: | 410 kg (904 lb) | 360 kg (573 lb) |
| Rate of Climb at SL/ISA, max take-off weight (mass): | 1200 fpm | 1280 fpm |
| Stalling Speed: | 56 kias (104 km/h) | 55 kias (102 km/h) |
| Take-off distance to 15 m (50 ft) at SL/ISA, max landing weight (mass): | 707 m (2320 ft) | 654 m (2150 ft) |
| Landing distance from 15 m (50 ft) at SL/ISA, max landing weight (mass): | 562 m (1845 ft) | 562 m (1845 ft) |
| Max Range at 45% power, ISA, 30 min reserve: | 830 nm (1535 km) | 830 nm (1535 km) |
| Max/Min load factors: | +4.4 g to -1.76 g | +6 g to -4 g |
| Min structural service life (aerobatic): | | 15 000 hours |



Photo: Grob, 2008

Grob G120A cockpit

Modern cockpit instrumentation:

- o Dual Garmin 430 GPS
- o EHSI
- o EADI
- o ADF
- o VOR/DME
- o ILS
- o Transponder
- o ELT
- o G-Meter
- o Electronic engine data management (EDM)

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