

PART II LIMITATIONS

41. Engine limitations—Ghost Mk. 103

Power rating	Time limit	R.p.m.	Max. J.p.t. °C.
Take-off and Operational Necessity	30 mins. (combined)	10,250*	725
Max. Continuous	Unrestricted	9,750	625
Approach Idling	Unrestricted	5,000 min.	—
Ground Idling	Unrestricted	3,000 ± 200	450

* Maximum permissible r.p.m. are to be reduced to 10,100 above 25,000 ft. when climbing, and above 35,000 ft. in level flight.

Oil temperatures

Maximum	...	...	...	...	...	105° C.
Minimum for starting and opening up using oil OM.71 or OEP-71	...	...	...	...	...	— 10° C.
Minimum for starting and opening up using oil OX-38	...	...	...	...	...	— 40° C.

42. Flying limitations

- (i) Intentional spinning is prohibited. Pending completion of trials the carriage of pylon drop tanks is also prohibited.

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(ii) *Maximum speeds, in knots*

Clean aircraft	535
With tip tanks (full or empty)	510
With R.P's or pylon tanks	...	...	...	500
During and after lowering:—				
Undercarriage	...	...	...	220
Flaps 0-30°	...	...	...	190
Flaps beyond 30°	...	...	...	165

With bombs:

Bombs	Max. Carriage & release speed	Max. dive angle	Recommended min. release height during steep dives
2 × 1,000 lb. ME Mk. 7	Below 14,000 ft. 420 K Above 14,000 ft. 0.80M	60°	Above 300 kts. 5,500 ft.
4 × 25 lb. practice	Below 4,000 ft. 500 K Above 4,000 ft. 0.80M	60°	Above 400 kts. 4,000 ft.

(iii) *Mach number limitations (with or without drop tanks)*

(a) *Ailerons in power*

At all heights The mach number at which the nose-up trim change occurs. (See para. 60.)

(b) *Ailerons in manual*

At all heights 0.82M

(iv) *Maximum all-up-weights*

Take-off and all permitted forms of flying	15,610 lb.
Landing (tip tanks empty except in an emergency)	12,240 lb.
Approximate typical service loadings are listed below.	

(a) Clean aircraft, full internal fuel and ammo.	11,900 lb.
With 2 × 1,000 lb. bombs	14,000 lb.
With 8 × 60 lb. R.P.	12,700 lb.

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(b) With full tip tanks, full internal fuel and ammo.	13,300 lb.
With 2 × 1,000 lb. bombs	15,500 lb.
With 8 × 60 lb. R.P.	14,200 lb.

(v) *Maximum accelerometer readings*

Clean aircraft	+6½G
*With tip tanks or external stores	+6½G
*With tip tanks and external stores	+6G
*(Irrespective of carriage of pylon tanks)	

(vi) *Special limitations*

- (a) To minimise the risk of injury when using the ejection seat, the pilot's nude thigh length must not exceed 25 inches.
- (b) Intentional manual reversion must be carried out at speeds below 0.82M. If automatic reversion occurs speed must be reduced immediately to below 0.82M.

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