

ments were arranged in the classic 'T' formation, with the engine instruments grouped to the right of the main panel. The pilot and radar operator were seated back to back on compressed-air ejection seats and, as already indicated, every item of equipment that a night fighter could have at this point in time was included. Indeed, that the Reichsluftfahrtministerium recognised the merits of the He 219 cockpit is indicated by the fact that, at one stage, serious consideration was apparently given to the possibility of grafting the entire nose on to the Junkers Ju 388.

The He 219 was always intended for the Daimler-Benz DB

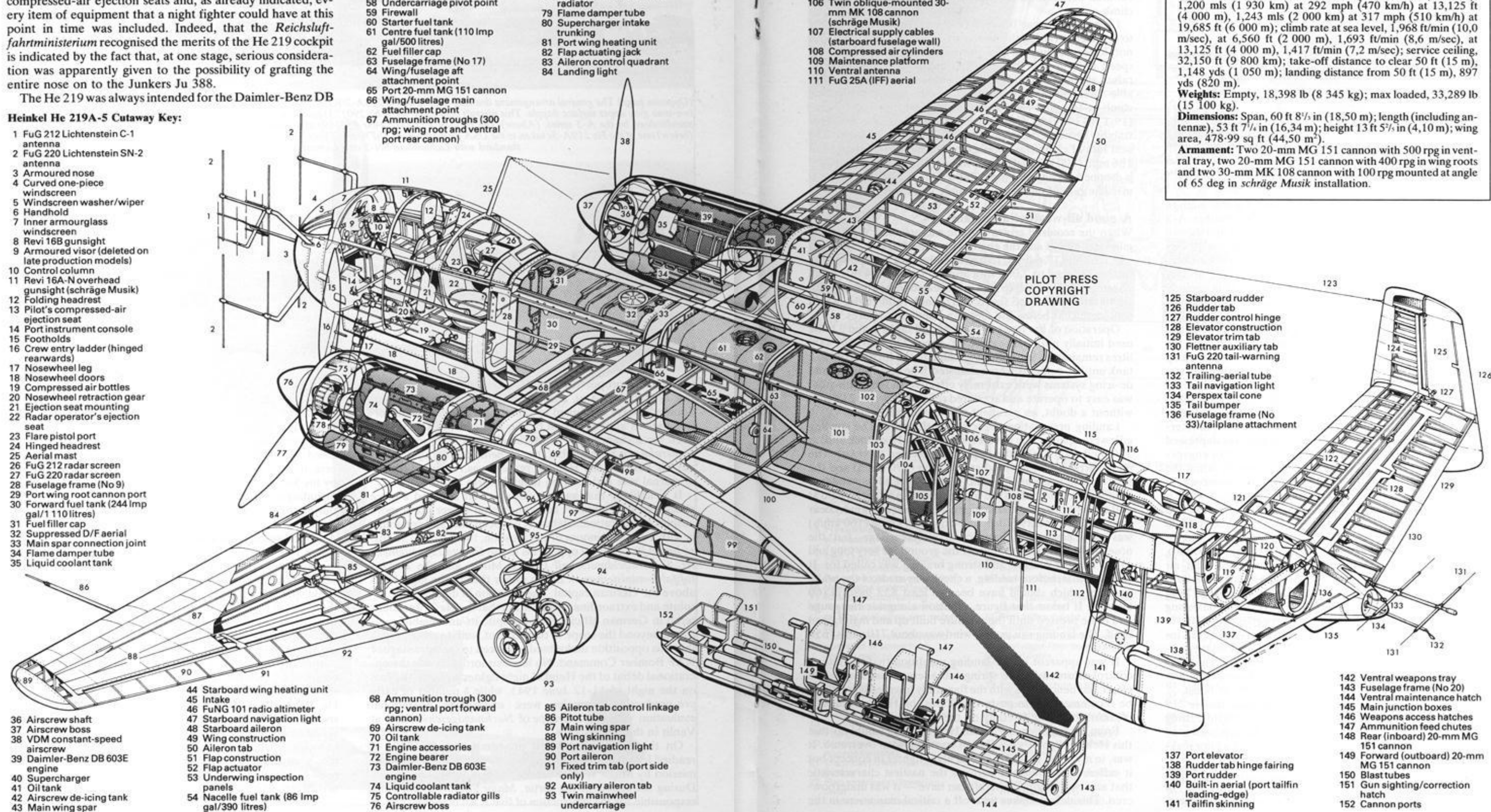
Heinkel He 219A-5 Cutaway Key:

- 1 FuG 212 Lichtenstein C-1 antenna
- 2 FuG 220 Lichtenstein SN-2 antenna
- 3 Armoured nose
- 4 Curved one-piece windscreen
- 5 Windscreen washer/wiper
- 6 Handhold
- 7 Inner armoured glass windscreen
- 8 Revi 16B gunsight
- 9 Armoured visor (deleted on late production models)
- 10 Control column
- 11 Revi 16A-N overhead gunsight (schräge Musik)
- 12 Folding headrest
- 13 Pilot's compressed-air ejection seat
- 14 Port instrument console
- 15 Footholds
- 16 Crew entry ladder (hinged rearwards)
- 17 Nosewheel leg
- 18 Nosewheel doors
- 19 Compressed air bottles
- 20 Nosewheel retraction gear
- 21 Ejection seat mounting
- 22 Radar operator's ejection seat
- 23 Flare pistol port
- 24 Hinged headrest
- 25 Aerial mast
- 26 FuG 212 radar screen
- 27 FuG 220 radar screen
- 28 Fuselage frame (No 9)
- 29 Port wing root cannon port
- 30 Forward fuel tank (244 Imp gal/1 110 litres)
- 31 Fuel filler cap
- 32 Suppressed D/F aerial
- 33 Main spar connection joint
- 34 Flame damper tube
- 35 Liquid coolant tank
- 36 Airscrew shaft
- 37 Airscrew boss
- 38 VDM constant-speed aircrew
- 39 Daimler-Benz DB 603E engine
- 40 Supercharger
- 41 Oil tank
- 42 Airscrew de-icing tank
- 43 Main wing spar

to fly on several occasions, these flights including the ferrying

- 55 Main undercarriage well
- 56 Inboard flap section
- 57 Mainwheel doors
- 58 Undercarriage pivot point
- 59 Firewall
- 60 Starter fuel tank
- 61 Centre fuel tank (110 Imp gal/500 litres)
- 62 Fuel filler cap
- 63 Fuselage frame (No 17)
- 64 Wing/fuselage aft attachment point
- 65 Port 20-mm MG 151 cannon
- 66 Wing/fuselage main attachment point
- 67 Ammunition troughs (300 rpg; wing root and ventral port rear cannon)
- 77 VDM constant-speed aircrew
- 78 Armoured-front annular radiator
- 79 Flame damper tube
- 80 Supercharger intake trunking
- 81 Port wing heating unit
- 82 Flap actuating jack
- 83 Aileron control quadrant
- 84 Landing light

- 94 Mainwheel doors
- 95 Mainwheel leg
- 96 Starter fuel tank
- 97 Undercarriage retraction jack
- 98 Pressure-oil tank (port nacelle only)
- 99 Nacelle fuel tank (86 Imp gal/390 litres)
- 100 Starboard undercarriage
- 101 Rear fuel tank (218 Imp gal/990 litres)
- 102 Fuel filler cap
- 103 Fuselage frame (No 20)
- 104 Ammunition feed channel
- 105 Ammunition tanks (100 rpg)
- 106 Twin oblique-mounted 30-mm MK 108 cannon (schräge Musik)
- 107 Electrical supply cables (starboard fuselage wall)
- 108 Compressed air cylinders
- 109 Maintenance platform
- 110 Ventral antenna
- 111 FuG 25A (IFF) aerial
- 112 Service entry hatch
- 113 Walkway
- 114 Main electrical compartment
- 115 Crew escape dinghy
- 116 D/F loop (homing approach)
- 117 BLO 30/U fuselage heating and tailplane de-icing unit
- 118 Heating ducts
- 119 Fuselage frame (No 31)
- 120 Tail unit control linkage
- 121 Intake
- 122 Tailplane construction
- 123 Aerials
- 124 Tailfin construction



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- 125 Starboard rudder
- 126 Rudder tab
- 127 Rudder control hinge
- 128 Elevator construction
- 129 Elevator trim tab
- 130 Flettner auxiliary tab
- 131 FuG 220 tail-warning antenna
- 132 Trailing-aerial tube
- 133 Tail navigation light
- 134 Perspex tail cone
- 135 Tail bumper
- 136 Fuselage frame (No 33)/tailplane attachment

- 142 Ventral weapons tray
- 143 Fuselage frame (No 20)
- 144 Ventral maintenance hatch
- 145 Main junction boxes
- 146 Weapons access hatches
- 147 Ammunition feed chutes
- 148 Rear (inboard) 20-mm MG 151 cannon
- 149 Forward (outboard) 20-mm MG 151 cannon
- 150 Blast tubes
- 151 Gun sighting/correction hatch
- 152 Cannon ports

Heinkel He 219A-7/R2 Specification (Factory figures)

Power Plant: Two Daimler-Benz DB 603E 12-cylinder inverted-vee liquid-cooled engines rated at 1,800 hp at 2,700 rpm for takeoff, 1,900 hp at 5,905 ft (1 800 m) and 1,550 hp at 22,965 ft (7 000 m). Climb and combat: 1,580 hp at 2,500 rpm at sea level, 1,650 hp at 5,905 ft (1 800 m) and 1,440 hp at 23,200 ft (7 070 m).

Performance: Max speed, 286 mph (460 km/h) at sea level, 298 mph (480 km/h) at 6,560 ft (2 000 m), 332 mph (535 km/h) at 13,125 ft (4 000 m), 363 mph (585 km/h) at 19,685 ft (6 000 m); range at max cruise, 1,150 mls (1 850 km) at 255 mph (410 km/h) at sea level, 1,168 mls at 263 mph at 6,560 ft (2 000 m), 1,200 mls (1 930 km) at 292 mph (470 km/h) at 13,125 ft (4 000 m), 1,243 mls (2 000 km) at 317 mph (510 km/h) at 19,685 ft (6 000 m); climb rate at sea level, 1,968 ft/min (10.0 m/sec), at 6,560 ft (2 000 m), 1,693 ft/min (8.6 m/sec), at 13,125 ft (4 000 m), 1,417 ft/min (7.2 m/sec); service ceiling, 32,150 ft (9 800 km); take-off distance to clear 50 ft (15 m), 1,148 yds (1 050 m); landing distance from 50 ft (15 m), 897 yds (820 m).

Weights: Empty, 18,398 lb (8 345 kg); max loaded, 33,289 lb (15 100 kg).

Dimensions: Span, 60 ft 8 1/2 in (18,50 m); length (including antennae), 53 ft 7 1/2 in (16,34 m); height 13 ft 5 1/2 in (4,10 m); wing area, 478.99 sq ft (44,50 m²).

Armament: Two 20-mm MG 151 cannon with 500 rpg in ventral tray, two 20-mm MG 151 cannon with 400 rpg in wing roots and two 30-mm MK 108 cannon with 100 rpg mounted at angle of 65 deg in *schräge Musik* installation.