

**JAPAN CIVIL AVIATION BUREAU
MINISTRY OF LAND, INFRASTRUCTURE AND TRANSPORT**

No.26 Rev.0
KAWASAKI HEAVY INDUSTRIES,LTD KAWASAKI HUGHES 369HS January 23, 2004

TYPE CERTIFICATE DATA SHEET NO. 26

This data sheet, which is part of Type Certificate No.26, prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Japan Civil Aeronautics Law and Regulations.

Type Certificate Holder: Kawasaki Heavy Industries, LTD. (KHI)
3-1-1, Higashi Kawasaki-Cho, Chuo-ku, Kobe-city, Hyogo-prefecture, JAPAN

Model KAWASAKI HUGHES 369HS (Normal Category Helicopter, Approved February 27, 1971)

Engine

1(one) Allison 250-C18A or Allison 250-C20

Fuel

See JCAB Approved Flight Manual for Model KHI 369HS.

Engine Ratings & Operating Limits

250-C18A :

	<u>Takeoff (5 min)</u>	<u>Max. Continuous</u>
Shaft Horsepower:	278SHP	243SHP
Torque:	236ft-lb (80.3psi)	208ft-lb (70psi)
Gas Producer		
rpm, N ₁ :	53,165rpm (104%)	53,165rpm (104%)
Output Shaft		
rpm, N ₂ :	6,240rpm (104%)	6,240rpm (104%)
Measured Gas Temp.:	1,380° F (749°C)	1,280° F (693°C)

250-C20 :

	<u>Takeoff (5 min)</u>	<u>Max. Continuous</u>
Shaft Horsepower:	278SHP	243SHP
Torque:	236ft-lb (64.5psi)	208ft-lb (56psi)
Gas Producer		
rpm, N ₁ :	53,000rpm (104%)	53,000rpm (104%)
Output Shaft		
rpm, N ₂ :	6,256rpm (104%)	6,256rpm (104%)
Measured Gas Temp.:	1,460° F (793°C)	1,358° F (737°C)

Page No.	1	2	3	4
Rev. No.	0	0	0	0

JAPAN CIVIL AVIATION BUREAU MINISTRY OF LAND, INFRASTRUCTURE AND TRANSPORT

See JCAB approved Flight Manual for other limitations including speed and temperature transients.

Rotor Limits & Engine Operating Speeds

(a) Limits and Speeds for 250-C18A

Power Off (Rotor Tach)

Maximum: 514 rpm

Minimum: 400 rpm

Power On (Engine Tach)

Maximum: 489 rpm(104% N₂)

Minimum: 484 rpm(103% N₂)

(b) Limits and Speeds for 250-C20

Power Off (Rotor Tach)

Maximum: 523 rpm

Minimum: 400 rpm

Power On (Engine Tach)

Maximum: 489 rpm(104% N₂)

Minimum: 484 rpm(103% N₂)

Airspeed limits (IAS)

V_{NE} (Never Exceed Speed): 240km/h (130kt)

See JCAB approved Flight Manual for reduction of V_{NE} with altitude and temperature.

Center of Gravity (C.G.) Range

	<u>Longitudinal</u>		<u>Lateral</u>	
Gross Weight (lb) _____	Forward Sta. (in.)	Aft Sta. (in.)	Left (in.)	Right (in.)
2,401 to 2,550	99	~ 104	-3	~ +3
2,201 to 2,400	97	~ 104	-3	~ +3
2,001 to 2,200	97	~ 104	-3	~ +4
		105	-1	~ +3
2,000 or Below	97	~ 104	-3	~ +5
		106	-1	~ +3

* 2

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Note: 1. Facing forward, + indicates right, and - indicates left of helicopter centerline.

*** 2 The dimension varies linearly for intermediate area.**

Empty weight C.G. range

None

Maximum weight

2,550 lb

Minimum crew

1 (Pilot seat: Left hand)

Max Passengers

5 (1 as pilot, 4 as passengers), with standard seats installed

7 (1 as pilot, 6 as passenger), with 4-passenger seats installed

Maximum Cargo

1,300 lb at 115 lb / ft², Sta. 78.5 to 124

50 lb. evenly distributed in utility storage compartment at Sta. 55.

Page No.	1	2	3	4
Rev. No.	0	0	0	0

Fuel capacity

Total Tank Capacity :416 lb
Usable Fuel Capacity :412 lb (STA98.2in)
Fuel weights are based on JP-4 fuel.

Oil capacity

Engine Oil: 5.90 lb (STA138.2 in)
Transmission Oil: 7.00 lb (STA105.0 in)

Maximum Operating Altitude

20,000 ft

Datum Line

Longitudinal datum (STA.0): 96.89 in forward of forward jacking point.
Horizontal datum (W.L.0): 11.98 in under of forward jacking point.

Rotor Blade and Control Movements

For rigging information refer to the KHI Model 369HS Maintenance Instruction.

Serial Numbers Eligible

6601 through 6650

Certification Basis

KHI has applied for certification on February 14, 1960.

- Civil Aeronautics Regulations Annex 1 "Technical Standards for Ensuring Safety of Aircraft and Equipment.
- Part IV of the TAIKUSEI-SHINSA-YORYO (JCAB Airworthiness Standards) dated December 28, 1960 and JCAB Special Condition, dated December 15, 1970 (KU-KEN-511)

Equipment

Refer to equipment and parts list.

Special Equipment

When equipped with Cargo Hook, airworthiness category of "Special Aircraft X" is applied. Refer to the related JCAB approved Flight Manual Supplements.

Publications

JCAB approved Flight Manuals
Maintenance Manual ("Airworthiness limitations" section are JCAB approved.)

Required Equipment

The basic required equipment as prescribed in the applicable Japan Civil Aeronautics Law and Regulations must be installed in the aircraft.

Service Information

Service Bulletins and other service information when JCAB-approved will carry a statement to that effect.

Note: 1 A current Weight & Balance Report must be in each aircraft at the time of original airworthiness certification and at all times thereafter except in the case of an operator having an JCAB approved loading system for weight and balance control.

Note: 2 Helicopter operation must be in accordance with the JCAB approved Flight Manual. All placards required by either JCAB approved Flight Manual, the applicable operating rules, or the Certification Basis must be installed in the helicopter.