## SIKORSKY H-3 SEA KING

## **SEA KING SERVICE**

Manufacturer: Sikorsky Aircraft Division, United Aircraft Corp., Bridgeport,

Connecticut, USA

(In 1975, became Sikorsky Aircraft Division,

United Technologies Corp., Stratford, Connecticut, USA)

Model: S-61

Designations: H-3 (CH-3, SH-3); HR3S, HSS, CH-124 (CAF)

Names: Sea King; Jolly Green Giant (HH-3E), Payloader (S-61A),

Pelican (HH-3F), Commando (Westland non-amphibious

version)

First official flight: YHSS-2 11/03/1959 Factory production period: 1958 – 1980

1967 – 1997 (Foreign built)

Primary service period: 1961 – 1995

Last official flight: SH-3H 27/01/2006 (US Navy)

VH-3D Still in service

## **SEA KING VARIANTS**

1959	Model S-61B	XHSS-2 (SH-3A)	10	
1959		HSS-2 (SH-3A)	245	
1962	Model S-61B	CHSS-2 (CH-124)	41	
1962	Model S-61B	HSS-2Z (VH-3A)	8	Total: 0304
1962	Model S-61A	CH-3B	3	Total: 0003
1966	Model S-61D	YSH-3D	1	
1966	Model S-61D	SH-3D	90	
1975	Model S-61D	VH-3D	11	Total: 0102
1963	Model S-61R	CH-3C	80	
1966	Model S-61R	CH-3E	45	
1967	Model S-61R	HH-3E	8	
1968	Model S-61R	HH-3F	40	Total: 0173
1962	Model S-61A/B/D/R	S-61 Series	73	Total: 0073
1960	Model S-61L	S-61L	13	
1962	Model S-61A	S-61A	1	
1962		S-61N	123	
1965		S-61V	1	Total: 0138

**Total: 0793** 

Foreign built – England: 1969 **Model WS-61** Sea King Series 245 Commando Series 1973 **Model WS-61** 83 Total: 0328 Foreign built – Italy: 1969 **Model AS-61** AS-61 Series 128 **Total: 0128** Foreign built - Japan: 1962 Model S-61 **Total: 0185** S-61 Series 185 **Total: 0641 Grand Total: 1434** SEA KING PRODUCTION **Military Helicopters** XHSS-2 Prototype twin-engined, 5-bladed rotor, ASW / SAR amphibious helicopter for US Navy. 2 (BuNo. 147141, 147145), later upgraded to HSS-2Z. Redesignated as YHSS-2 during tests. Redesignated as SH-3A in 1962. produced 1958 - 1959 Sikorsky Stratford, Connecticut (S) BuNo. 147137 / 147146 61-001 / 61-010 10 **Total: 0010** HSS-2 As YHSS-2, engine upgrade, various improvements for US Navy. 2 later upgraded to SH-3D. Redesignated as SH-3A in 1962. produced 1959 - 1966 Sikorsky Stratford, Connecticut (S) 61-011 / 61-030 BuNo. 148033 / 148052 BuNo. 148964 / 149012 mixed 61-036 to 61-087 BuNo. 149679 / 149738 mixed 61-088 to 61-162 BuNo. 149893 / 149934 mixed 61-158 to 61-211 BuNo. 150618 / 150620 61-212, 61-214, 61-215 BuNo. 151522 / 151557 mixed 61-217 to 61-293 BuNo. 152104 / 152138 mixed 61-294 to 61-339 245 **Total: 0245** 3 additional airframes cancelled. CHSS-2 As HSS-2, version for RCN. Redesignated as CH-124 in 1968 with new CAF s/n: 12401 / 12441. produced 1962 - 1967 Sikorsky Stratford, Connecticut (S) mixed 61-179 to 61-202 (RCN) 4001 / 4004 4 Foreign assembled – Canada: United Aircraft of Canada Ltd., Longueuil, Quebec, Canada (RCN) 4005 / 4041 37 Total: 0041 mixed 61-207 to 61-384

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HSS-2Z
       As HSS-2, USMC / US Army VIP helicopters.
       2 SH-3A also upgraded to this standard.
       1 (BuNo. 150614), later upgraded to VH-3D
       standard. Redesignated as VH-3A in 1962.
       produced 1962
       Sikorsky Stratford, Connecticut (S)
       BuNo. 150610 / 150617
                                  mixed 61-086 to 61-123
                                                                      Total: 0008
                                                                 8
CH-3B
       As HSS-2, general purpose version
       for USAF, engine upgrade.
       produced 1962
       Sikorsky Stratford, Connecticut (SI)
       62-12574 / 62-12576
                                   61-145, 61-152, 61-161
                                                                 3
                                                                      Total: 0003
(Model S-61R) HR3S-1 – Proposed development for USMC, cancelled.
                          Design later led to the CH-3C.
YSH-3D
       As SH-3A, prototype with engine /
       avionics upgrade for US Navy.
       produced 1966
       Sikorsky Stratford, Connecticut (SI)
       BuNo. 152139
                                   61-309
                                                                      Total: 0001
SH-3D
       As YSH-3D, production version for US Navy.
       2 SH-3A also upgraded to this standard.
       produced 1966 - 1980
       Sikorsky Stratford, Connecticut (SI)
                                   mixed 61-341 to 61-379
       BuNo. 152690 / 152713
       BuNo. 153532 / 153537
                                   mixed 61-355 to 61-375
       - 6 to Spain as HS.9, HS.9-01,
        -03, -05, -06 and Z.9-2, -4.
       BuNo. 154100 / 154123
                                   mixed 61-386 to 61-423
       BuNo. 156483 / 156506
                                   61-429 / 61-452
       BuNo. 158724, 158725
                                   61-499, 61-701
       - 2 to Spain as HS.9, HS.9-07, -08.
       BuNo. 159053 / 159056
                                   61-707 / 61-710
       - 4 to Spain as HS.9, HS.9-09,
        -11, -12 and Z.9-10.
                                                                90
       BuNo. 161207 / 161212
                                   61-838 / 61-843
                                                                      Total: 0090
       - 6 to Spain as HS.9, HS.9-13 / -18.
       6 additional airframes cancelled.
VH-3D
       As SH-3D, USMC VIP helicopters.
       1 VH-3A also upgraded to this
       standard as NVH-3A.
       produced 1974 - 1975
       Sikorsky Stratford, Connecticut (SI)
                                   61-724 / 61-734
                                                                11
       BuNo. 159350 / 159360
                                                                      Total: 0011
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CH-3C					
As SH-3A, long-range transpo					
redesigned non-amphibious fu					
rear loading ramp for USAF. 1 upgraded to <b>CH-3E</b> and 14 to					
produced 1963 – 1967	0=.				
Sikorsky Stratford, Conne	ecticut (SI)				
62-12577 / 62-12582					
63-9676 / 63-9691	61-508 / 61-523				
64-14221 / 64-14237	61-524 / 61-540				
65-5690 / 65-5700	61-541 / 61-551				
65-12777 / 65-12800	61-552 / 61-575				
66-13291 / 66-13293	61-590 / 61-592				
66-13294 / 66-13296	61-594 / 61-596	80	Total: 0080		
CH-3E					
As CH-3C, engine upgrade for	· USAF.				
34 later upgraded to <b>HH-3E</b> . produced					
Sikorsky Stratford, Conne	ecticut (SI)				
66-13285 / 66-13287	` '				
66-13288 / 66-13290					
67-14702 / 67-14725					
69-5798 / 69-5812	61-642 / 61-656	45	Total: 0045		
HH-3E Jolly Green Giant	0.0.=,0.00				
As CH-3E, armed SAR version	n, crew				
armour, refuelling probe for US					
CH-3C and 34 CH-3E also up	graded				
to this standard. produced					
Sikorsky Stratford, Conne	ecticut (SI)				
66-13278 / 66-13284	` ,				
68-8282	61-628	8	Total: 0008		
HH-3F Pelican	0.020	J			
As HH-3E, USCG version with					
amphibious waterproof fuselag	ge,				
nose radome.					
produced 1968 – 1973	atiout (CI)				
Sikorsky Stratford, Conne (USCG) 1430, 1431	61-586, 61-593				
(USCG) 1430, 1431 (USCG) 1432 / 1438	•				
(USCG) 1432 / 1438 (USCG) 1467 / 1479					
(USCG) 1407 / 1479 (USCG) 1480 / 1497		40	Total: 0040		
<b>S-61</b> Series	01-03//01-0/4	40	10tai. 0040		
Military export version.					
produced 1962 – 1978					
Sikorsky Stratford, Connecticut					
S-61A-1	·				
· · · · · · · · · · · · · · · · · · ·	1964, export version for Denmark.				
(Denmark)	04.046				
U-240	61-240	_			
U-275 / U-281	61-275 / 61-281	8			

	S-61A-4 Nuri 1967, export version for Malaysia. Named "Nuri", the Malay word for "Parrot". Survivors reserialled in 1982 as M23-01 / M23-38. (Malaysia)				
	FM1140 / FM1155	mixed 61-408 to 61-494			
	FM1716	61-723			
	FM1717 / FM1742	61-780 / 61-805	43		
	S-61A-5				
	1970, export version for Denma	ark.			
	(Denmark) U-481	61-481	1		
	S-61B-2				
	1962, kitsets for Mitsubishi prod				
	N/A	61-194, 61-204, 61-209	3		
	S-61D-1				
	1967, export version for UK. Fin as <b>S-61L</b> , last 3 as <b>HAS.Mk. 1</b> British engines / avionics.				
	(RN) XV370 / XV373	61-393 / 61-396	4		
	S-61D-2	0.000, 0.000	•		
	1968, export version for Agusta	production.			
	Assigned Agusta c/n: 6000.				
	(Italy) MM5003N	61-385	1		
	S-61D-3				
	1970, export version for Brazil.	24.4== 24.=22			
	(Brazil) N-3007 / N-3012	mixed 61-477 to 61-706	6		
	S-61D-4				
	1972, export version for Argent				
	(Argentina) 0675 / 0678		_		
	(Argentina) 0696	61-779	5		
	S-61R-10	oorgo door			
	1963, demonstrators with rear of developed as USAF C / HH-3.				
	Argentina AF in 1975 as an SA				
	N664Y (civil reg.)				
	(Argentina) BSH-72	61-763	2	Total: 0073	
<u>Civil H</u>	<u>elicopters</u>				
S-61L	As SH-3A, non-amphibious civi				
	Designated <b>Mk. II</b> with engine uproduced 1959 – 1972	ipgrade.			
	Sikorsky Stratford, Conne	cticut			
	civil reg.	mixed 61-031 to 61-454	13	Total: 0013	
S-614	A Payloader	1111/60 01-001 to 01-404	10	10tai. 0013	
O-01 <i>F</i>	Civil cargo transport demonstra produced 1962	ntor.			
	Sikorsky Stratford, Conne	cticut			
	N318Y (civil reg.)	61-094	1	Total: 0001	
	- 3 /		=		

# S-61N As S-61L, amphibious civil version. Designated Mk. II with engine upgrade. 2 assembled in Japan as JA9506 (c/n: M61-001) and JA9507 (c/n: M61-003). produced 1962 - 1980 Sikorsky Stratford, Connecticut civil reg. mixed 61-143 to 61-827 S-61V-1 Civil demonstrator. produced 1965 Sikorsky Stratford, Connecticut N10047 (civil reg.) 61-271 Foreign built – England:

(RM) ZG820 / ZG822

Sea King / Commando Series Licence built military version of the SH-3D, British engines / avionics. Sea King is the amphibious version. Commando is the non-amphibious version with fixed undercarriage. produced 1968 - 1997 Westland Helicopters Ltd., Yeovil, Somerset, England Sea King HAS.Mk. 1 1969, Royal Navy ASW version. WA630 / WA665 (RN) XV642 / XV677 (RN) XV695 / XV714 WA666 / WA685 56 Sea King HAS.Mk. 2 1976, RN ASW version, engine upgrade. (RN) XZ570 / XZ582 WA838 / WA850 (RN) XZ915 / XZ922 WA875 / WA882 21 Sea King HAR.Mk. 3 1977, RAF SAR version. WA851 / WA865 (RAF) XZ585 / XZ599 (RAF) ZA105 **WA886** WA947 / WA949 (RAF) ZE368 / ZE370 19 Sea King HAR.Mk. 3A 1995, RAF SAR version, avionics upgrade. (RAF) ZH540 / ZH545 WA1006 / WA1011 6 Commando HC.Mk. 4 1979, Royal Marines transport. Also known as the Sea King HC.Mk. 4. (RM) ZA290 / ZA299 WA904 / WA913 (RM) ZA310 / ZA314 WA914 / WA918 (RM) ZD476 / ZD480 WA931 / WA935 (RM) ZD625 / ZD627 WA936 / WA938 WA952 / WA955 (RM) ZE425 / ZE428 (RM) ZF115 / ZF124 mixed WA960 to WA974

WA1001 / WA1003

123

1

40

**Total: 0123** 

Total: 0001

**Total: 0793** 

Commando Mk. 4X				
1982, R&D test helicopters, doi	rsal radome.			
ZB506, ZB507	WA927, WA928			
ZG829	WA996	3		
Sea King HAS.Mk. 5				
1980, Royal Navy ASW version	n, dorsal radome.			
(RN) ZA126 / ZA137	WA887 / WA898			
(RN) ZA166 / ZA170	WA899 / WA903			
(RN) ZD630 / ZD637	WA939 / WA946			
(RN) ZE418 / ZE422	mixed WA956 to WA961	30		
Sea King HAS.Mk. 6				
1989, Royal Navy ASW version	n, avionics upgrade.			
69 also upgraded from previous				
(RN) ZG816 / ZG819	WA997 / WA1000			
(RN) ZG875	WA1004	5		
Sea King Mk. 41				
1973, HAS.Mk. 1 SAR version	-			
89+50, 89+51	WA744, WA745			
89+52 / 89+71	WA756 / WA775			
89+61	WA830	23		
- Replacement aircraft, first cra	shed pre-delivery.			
Sea King Mk. 42				
1970, HAS.Mk. 1 version for Inc				
(India) IN501 / IN506				
,	WA776 / WA781	12		
Sea King Mk. 42A				
1980, Mk. 42 version for India,				
,	WA883, WA885	_		
(India) IN553	WA884	3		
Sea King Mk. 42B				
1985, Mk. 42A version for India				
ZF526, ZF527	WA950, WA951			
- ZF527 (IN514) crashed before ZG601 / ZG618	mixed WA972 to WA994			
- ZG602 replacement for IN514				
ZG980	WA995	21		
20 delivered as:	WASSS	۷ ۱		
(India) IN513 / IN531, IN5	33			
Sea King Mk. 42C				
1986, Mk. 42B transport version	n for India.			
(India) IN555 / IN560	mixed WA965 to WA977	6		
Sea King Mk. 43				
1972, HAS.Mk. 1 version for No	orway.			
(Norway) 060, 062	WA746, WA747			
(Norway) 066, 068	WA748, WA749			
(Norway) 069 / 074	WA750 / WA755	10		
Sea King Mk. 43A				
1978, Mk. 43 version for Norway, engine upgrade.				
(Norway) 189	WA874	1		
Sea King Mk. 43B				
1995, Mk. 43 version for Norwa	y.			
ZH566	WA1005			
(Norway) 322				
- · ·				

ZJ162, ZJ163 (Norway) 329, 330	WA1012, WA1013	3	
Sea King Mk. 45 1974, HAS.Mk. 1 version for Pa	akistan. RN s/n: ZE421		
later delivered as Mk. 45A, 451			
(Pakistan) 4510 / 4515	WA797 / WA802	6	
Sea King Mk. 47			
1975, Mk. 42 version for Egypt.		•	
(Egypt) 771 / 776	mixed WA822 to WA827	6	
Sea King Mk. 48 1975, Mk. 41 version for Belgiu	m		
(Belgium) RS01 / RS05		5	
Sea King Mk. 50	VV/ (001 / VV/ (000	O	
1974, Mk. 47 version for Austra	lia.		
mixed N16-098 to N16-125	WA787 / WA796	10	
Sea King Mk. 50A			
1983, Mk. 50 version for Austra	•	_	
•	WA929, WA930	2	
Commando Mk. 1			
1973, HAS. Mk. 1 transport ver			
(Egypt) 261	WA786 WA782 / WA785	5	
(Egypt) 262 / 265 Commando Mk. 2	VVA762 / VVA765	5	
1974, Mk. 1 larger transport vei	rsion for Eavnt		
(Egypt) 721 / 724	mixed WA803 to WA808		
(Egypt) 727 / 739	WA809 / WA821	17	
Commando Mk. 2A	***************************************	• •	
1975, Mk. 2 transport version for	or Qatar.		
(Qatar) QA-20, QA-21	WA828, WA837		
(Qatar) QA-22	WA836	3	
Commando Mk. 2B			
1975, Mk. 2 VIP version for Egy	•		
(Egypt) 725, 726	WA805, WA807	2	
- 725 was RAF s/n: XZ741.			
Commando Mk. 2C 1975, Mk. 2 VIP version for Qai	tar		
(Qatar) QA-23	WA829	1	
Commando Mk. 2E	VV/ (023	•	
1978, Mk. 2 ECM version for Eg	avpt.		
(Egypt) 740 / 742	WA869, WA867, WA868	4	
(Egypt) 744	WA866 <sup>°</sup>		
Commando Mk. 3			
1982, Mk. 42B armed, multi-role			
(Qatar) QA-30 / QA-37	WA919 / WA926	8	Total: 0328

# Foreign built – Italy:

Model AS-61 Series

Italian licence built military version.

produced 1968 - 1992

(Agusta-Sikorsky)

Costruzioni Aeronautiche Giovanni Agusta SpA,

Gallarate, Italy

Model AS-61D-3 / -4 (ASH-3D) 1969, licence built VIP version of SH-3b (Italy) MM5004N / MM5026N (Peru) HA-430 / HA-433 (Peru) HA-490, HA-491 (Argentina) 0794, 0795 (Brazil) N-3013 / N-3016 (Iran) 8-2301 / 8-2320 Model AS-61D (SH-3H) Licence built version of the SH-3H. (Italy) MM81183 / MM81187 (Italy) MM81111 / MM81116 (Italy) MM81200 (Argentina) 0796, 0797 4 to Peru Model AS-61A-4 1975, transport version for Venezuela. (Venezuela) 8437 / 8440 Model AS-61D (ASH-3D/TS)	0. 6001 / 6023 6036 / 6039 - 6051, 6052 6053 / 6056 - 6040 / 6044 6045 / 6050 6068 6061, 6062 -	23 6 2 4 20 12 2 4	
SH-3D VIP version. (Italy) MM80972, MM80973 (Iraq) YI-001 / YI-006 (Iran) 6-9294, 6-9295 (Saudi Arabia) 121 / 123 1 to Libya Model AS-61R (HH-3F) 1977, HH-3F SAR version. (Italy) MM80974 / MM80993 (Italy) MM81337 / MM81351 Model AS-61N-1 Silver 1992, military export version for Malaysia, also designated AS-61NS. (Malaysia)	6101, 6102 - - - - - 6201 / 6220 6221 / 6235	2 6 2 3 1	
M39-01, M39-02	6401, 6402	2	Total: 0128

## Foreign built - Japan:

## Model S-61 Series

Japanese licence built military version for the JMSDF. Japanese engines and avionics.

produced 1962 - 1990

Mitsubishi Heavy Industries Ltd.,

Nagoya, Japan

## **HSS-2 (SH-3A)**

1962, SH-3A version for ASW duties.

(JMSDF) 8001 M61-002

(JMSDF) 8002 / 8055 mixed M61-004 to M61-059 55

Model S-61A

1962, SAR version.

(JMSDF) 8181, 8182 M61-008, M61-010

(JMSDF) 8183 M61-071 3

#### HSS-2A (SH-3D)

1968, SH-3D version for ASW duties.

(JMSDF) 8056 / 8083 mixed M61-060 to M61-092 28

Model S-61AH

1968, long range SAR helo.

(JMSDF) 8941 / 8953 mixed M61-072 to M61-151 13

Model S-61A-1

1968, version on icebreakers.

(JMSDF) 8184, 8185 M61-075, M61-187

(JMSDF) 8186, 8187 M61-175, M61-178 4

- Converted from HSS-2B s/n: 8156, 8159.

HSS-2B (SH-3H)

1974, SH-3H version for ASW duties.

(JMSDF) 8084 / 8155 mixed M61-093 to M61-174

(JMSDF) 8157, 8158 M61-176, M61-177

(JMSDF) 8160 / 8167 M61-179 / M61-186 82 **Total: 0185** 

**Total: 0641** 

## **SEA KING CONVERSIONS**

<u>US</u>	1	٧á	av	V
V0		1	^	٠,

YSH-3A 1 XHSS-2(148038), retained for development tests.

HH-3A 12 SH-3A, armed, Vietnam SAR conversions, engine upgrade.

RH-3A 9 SH-3A, 1965, Vietnam mine counter-measures (MCM) conversions.

UH-3A 2 SH-3A, utility conversions.

NVH-3D 1 VH-3D, permanent conversion for tests.

**SH-3G** SH-3A / SH-3D, 1970, utility conversions, extra fuel, no ASW equipment.

**SH-3H**(USH-3H)

SH-3A / SH-3D / SH-3G, 1971-2006, major ASW avionics upgrade.

29 SH-3A / 9 SH-3D, 1992, utility conversions to SH-3H standard.

(YSH-3J) 2 SH-3H, prototypes with ASW equipment for the SH-60B.

#### (Model S-61F) NH-3A

**1** SH-3A(148033), 1965, prototype with modified fuselage, twin jet-pak, stub wings and 6-bladed rotor. Tested by US Navy and US Army.

#### **USAF**

GCH-3C 1 CH-3C, ground instructional conversion.

JCH-3C 1 CH-3C, temporary conversion for tests for the CH-3E.

HH-3C 12 CH-3C, rescue / recovery conversions.

JCH-3E 10 CH-3C, temporary conversions for tests with the US Army.

LCH-3E 2 CH-3C, conversions for cold weather duties.

QCH-3E - CH-3E, 1991, proposed drone conversions, cancelled.

GHH-3E 5 CH-3E, ground instructional conversions.

JHH-3E 9 4 CH-3C / 5 CH-3E, temporary conversions for tests with the US Army.

MH-3E 1+ CH-3E, Special Forces multi-mission conversions.

VH-3E 1+ CH-3E, VIP conversions.

#### (Model S-61A) CH-3A

**3** SH-3A, 1962, re-supply helicopters to remote radar outposts. Assigned s/n: 62-12571 / 62-12573. Later redesignated as CH-3B.

#### **Foreign Conversions**

**CH-124A** 41 CH-124, avionics / search radar upgrade for CAF.

(CH-124B) 6 CH-124A, avionics upgrade.

(CH-124B-2) 6 CH-124B, avionics upgrade.

(CH-124C) 1 CH-124B-2, test conversion, also designated as CH-124(OT&E).

## Sea King HAS.Mk. 2(AEW)

8 HAS.Mk. 2, 1982, radar upgrade for Royal Navy. 8 later upgraded to **HAS.Mk. 5** standard.

## Sea King AEW.Mk. 2A

HAS.Mk. 2, major electronic equipment upgrade for Royal Navy.10 later upgraded to HAS.Mk. 5 standard.

#### Sea King HAS.Mk. 2A

**48** HAS.Mk. 1, upgrades to HAS.Mk. 2 standard for Royal Navy. 35 later upgraded to **HAS.Mk. 5** standard.

#### Sea King AEW.Mk. 5

3 HAS.Mk. 5, major electronic equipment upgrade for Royal Navy.

#### Sea King HAR.Mk. 5

4 HAS.Mk. 5, 1987, Royal Navy transfers to the RAF for SAR duties.

## Sea King ASaC.Mk. 7

**13** HAS.Mk. 5 / 6, 2002-present, AEW avionics upgrades.

#### FOREIGN MILITARY / CIVILIAN SERVICE

- H-3 Sea King in military service with Argentina, Australia, Belgium, Brazil, Canada, Denmark, Egypt, England, India, Iran, Iraq, Ireland, Italy, Japan, Libya, Malaysia, Norway, Pakistan, Peru, Qatar, Saudi Arabia, Spain, Tunisia, Venezuela and West Germany.
- Many surplus military Sea Kings sold on the civil market as police, cargo, passenger helicopters etc.