

Model Number : V-50
Model Name : Corsair
Model Type: Observation

This aircraft was built in 1931 as a demonstrator and to promote export sales of the O3U. It also served as an executive airplane and flew in several airshows. With its supercharged Pratt & Whitney “Hornet” engine, it outperformed the O3U-1.



Dimensions	
Wingspan	35.50 ft
Overall Length	24.80 ft
Height	10.50 ft
Weights and Capacities	
Empty Weight	
Gross Weight	
Useful Load	
Fuel Capacity	
Oil Capacity	
Powerplant Characteristics	
Type: P & W “Hornet” supercharged R-1690	
Rating	700 hp @ 7000 rpm @ S/L
Displacement	1690 in ³
Weight	1087 lb
Size (length X diameter)	44.63 in X 56.75 in
Performance	
Maximum Speed, Sea Level	190 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	
Initial Rate-of-Climb	
Cruise Speed, Sea Level	
Range at Cruise Speed	
Service Ceiling	
Absolute Ceiling	

Crew: 2	
Armament: 1 fixed machine gun, fuselage (synchronized) 1 flex machine gun in rear cockpit Provisions for racks on lower wings	

Model Number : V-65B, C, C1, F

Model Name : Corsair

Model Type: Observation



All V-65's were basically SU-2 aircraft. Thirty-seven V-65B's were built in 1933 and exported to Brazil. The first flight of the V-65C was in 1933. Forty-two of these aircraft were exported to China. The V-65C1 and V-65F were built in 1933 and 1934. Eleven of the V-65C1's were land planes and four were equipped with floats. These aircraft were exported to China and Argentina.

	Landplane	Seaplane
Dimensions		
Wingspan	36.83 ft	36.83 ft
Overall Length	26.17 ft	
Height	10.67 ft	
Weights and Capacities		
Empty Weight		
Gross Weight	4380 lb	4520 lb
Useful Load		
Fuel Capacity	130 gal	
Oil Capacity	12 gal	
Powerplant Characteristics		
Type: P & W "Hornet" air-cooled radial R-1890C		
Rating (hp)	600 hp @ S/L	600 hp @ S/L
Displacement		

Weight		
Size (length X diameter)		
Performance		
Maximum Speed, Sea Level	170 mph	163 mph
Landing Speed, Sea Level		59 mph
Stall Speed, Sea Level	58.8 mph	
Initial Rate-of-Climb	1550 ft/min	1470 ft/min
Cruise Speed		
Range at Cruise Speed	610 miles	
Service Ceiling	20000 ft	19500 ft
Absolute Ceiling		
Crew: 2		
Armament: 2 Browning machine guns		

Model Number : V-66B

Model Name : Corsair

Model Type: Observation

Soon after the Brazilian Air Force order for the V-65, the Brazilian Navy ordered eight seaplanes. The seaplane version was designated V-66, since it was an updated version of the V-65 in addition to being a float airplane. However, the V-66 designation was then used for all subsequent export models of the SU and O3U aircraft.

No Photograph Available

Dimensions	
Wingspan	36.00 ft
Overall Length	26.16 ft
Height	10.67 ft
Weights and Capacities	

Model Number : V-66E, F

Model Name : Corsair

Model Type: Observation

The V-66 was basically a SU-2 aircraft. One V-66E was exported to England and one V-66F was exported to Argentina. The performance and weight shown are for the SU-



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Dimensions	
Wingspan	36.00 ft
Overall Length	27.25 ft
Height	10.67 ft
Weights and Capacities	
Empty Weight	2938 lb
Gross Weight	4522 lb
Useful Load	
Fuel Capacity	130 gal
Oil Capacity	12 gal
Powerplant Characteristics	
Type: P & W radisl air-cooled R-1340-12	
Rating	750 hp @ 7000 rpm @ S/L
Displacement	1690 in ³
Weight	1087 lb
Size (length X diameter)	44.3 in X 56 in
Performance	
Maximum Speed, Sea Level	171 hp
Landing Speed, Sea Leavel	
Stall Speed, Sea Level	60 mph
Initial Rate-of-Climb	1190 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	
Service Ceiling	208500 ft
Absolute Ceiling	
Crew: 2	
Armament: 1 fixed forward firing 7 mm Colt machine gun	

1 flex 7 mm Colt machine gun in rear cockpit Provisions for bomb racks on lower wings	

Model Number : V-70
Model Name : Corsair
Model Type: Observation

Originally built for an Army Attack Program, it was converted into an engineering test bed and then into a demonstrator and finally was used as a company executive aircraft. This was the first Vought aircraft to have an enclosed cockpit.

UPDATE 2004



Our records for the V-70 end with its use as an executive aircraft. However, information received from Spain report flight tests by the Spanish Air Force in Madrid with the V-70 in its land plane configuration. It was then flown to the San Javier Naval Base and configured as a seaplane. The Navy pilots at the base made several flight tests. On

30 April 1935 Navy Lieutenant La Cierva with Chief Naval Aeronautical Engineer Nardiz as observer flew it. The flight was made to conduct a high altitude performance test. Shortly after reaching the designated altitude, the V-70 caught fire and crashed about 300 meters from the beach, resulting in the death of both occupants. No cause for the accident was determined, but a carburation failure at high altitude was suspected.



Prior to the Spanish Civil War, Naval aviation was the Air Army of the Spanish Fleet, but was disbanded during the Civil War.

	English
Dimensions	

Wingspan	36.83 ft
Overall Length	26.17 ft
Height	10.67 ft
Weights and Capacities	
Empty Weight	
Gross Weight	
Useful Load	
Fuel Capacity	130 gal
Oil Capacity	8 gal
Powerplant Characteristics	
Type: P & W "Hornet" air-cooled radial R-1690C	
Rating	700 hp @ 7000 rpm @ S/L
Displacement	1690 in ³
Weight	1087 lb
Size (length X diameter)	44.63 in X 36.75 in
Performance	
Maximum Speed, Sea Level	174 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	58 mph
Initial Rate-of-Climb	1650 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	
Service Ceiling	22300 ft
Absolute Ceiling	
Crew: 2	
Armament: 1 fixed forward firing .30 caliber machine gun 1 flex .30 caliber machine gun in rear cockpit	

Model Number : V-80, F, P

Model Name : Corsair

Model Type: Fighter



The V-80 was built as a demonstrator of a single-seat fighter export version of the O3U-4 with four forward-firing machine guns and an enclosed cockpit. Three V-80P's were sold to Peru and one V-80F to Argentina. The payment for the Peruvian aircraft was made in guano since the country was bankrupt. How, and to whom, the fertilizer was sold is not clear but company books show that payment was received. The demonstrator was later converted to the V-135.

	Landplane	Seaplane
Dimensions		
Wingspan	36.00 ft	36.00 ft
Overall Length	27.59 ft	31.00 ft
Height	10.46 ft	12.83 ft
Weights and Capacities		
Empty Weight	3286 lb	
Gross Weight	4597 lb	
Useful Load		
Fuel Capacity	150 gal	173 gal
Oil Capacity	12 gal	12 gal
Powerplant Characteristics		
Type: P & W :Hornet" air-cooled radial "SD" Model		
Rating	750 hp @ 7000 rpm @ S/L	
Displacement		
Weight		
Size (length X diameter)		
Performance		
Maximum Speed, Sea Level	197 mph	189 mph
Landing Speed, Sea Level		
Stall Speed, Sea Level	60.90 mph	
Initial Rate-of-Climb	1850 ft/min	1725 ft/min
Cruise Speed, Sea Level		
Range at Cruise Speed		731 miles
Service Ceiling	27800 ft	26900 ft

Absolute Ceiling		
Crew: 2		
Armament: 2 fixed machine guns, wing center section 2 synchronized machine guns in fuselage Provisions for bomb racks on lower wings		

Model Number : V-85G

Model Name : Corsair

Model Type: Mail Plane (Germany)

The V-85G was a modified commercial version of the V-80. The airplanes were sold to Deutsch Lufthansa of Germany and were used to expedite mail service by catapulting from the S.S.Bremen and S.S.Europa ocean liners.



Dimensions	
Wingspan	36.00 ft
Overall Length	30.98 ft
Height	12.83 ft
Weights and Capacities	
Empty Weight	3546 lb
Gross Weight	4856 lb
Useful Load	
Fuel Capacity	150 gal
Oil Capacity	12 gal
Powerplant Characteristics	
Type: P & W "Hornet" radial :SD"	
Rating	675 hp @ S/L
Displacement	
Weight	
Size (length X diameter)	
Performance	
Maximum Speed, Sea Level	190 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	63 mph

Initial Rate-of-Climb	1725 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	731 miles
Service Ceiling	26900 ft
Absolute Ceiling	
Crew: 1	
Armament:	

Model Number : V-90

Model Name : Corsair

Model Type: Fighter

The V-90 landplane was a two-seat fighter export version of the V-65 equipped with the latest P&W "Hornet" R-1690C engine. (See description of O3U-4.)



	Landplane	Seaplane
Dimensions		
Wingspan	36.00 ft	36.00 ft
Overall Length	27.25 ft	30.98 ft
Height	10.45 ft	12.80 ft
Weights and Capacities		
Empty Weight	3091 lb	3329 lb
Gross Weight	4490 lb	4729 lb
Useful Load		
Fuel Capacity	150 gal	150 gal
Oil Capacity	12 gal	12 gal
Powerplant Characteristics		
Type: P & W "Hornet" radial air-cooled R-1690C		
Rating	700 hp @ 7000 rpm @ SL	675 hp @ SL
Displacement		

Weight		
Size (length X diameter)		
Performance		
Maximum Speed, Sea Level	184 mph	179 mph
Landing Speed, Sea Level	59.70 mph	
Stall Speed, Sea Level		61.30 mph
Initial Rate-of-Climb	1500 ft/min	1380 ft/min
Climb in 10 minutes	13900 ft	12000 ft
Cruise Speed, Sea Level		
Range at Cruise Speed	709 miles	
Service Ceiling	23700 ft	22600 ft
Absolute Ceiling		
Crew: 2		
Armament: Landplane		
1 fixed forward firing .30 caliber machine gun		
1 flex .30 caliber machine gun in rear cockpit		
Provisions for bomb racks on lower wings		
Armament: Seaplane		
1, 2 or 4 fixed machine guns (wing center section or fuselage)		
1 flexible machine gun in rear cockpit		
Provisions for bomb racks on lower wings		

Model Number : V-92C

Model Name : Corsair

Model Type: Fighter

The V-92C was a two-place fighter sold to China in 1934. It was a modified V-90 and essentially an updated V-65C1. It was convertible from landplane to seaplane configurations.



	Landplane	Seaplane
Dimensions		
Wingspan	36.00 ft	36.00 ft
Overall Length	27.25 ft	30.98 ft
Height	10.48 ft	12.83 ft
Weights and Capacities		
Empty Weight	3091 lb	3329 lb
Gross Weight	4491 lb	4729 lb
Useful Load		
Fuel Capacity	115 gal	115 gal
Oil Capacity	12 gal	12 gal
Powerplant Characteristics		
Type: P & W Model T2D1		
Rating	635 hp @ 2000 rpm @ SL	635 hp @ 2000 rpm @ SL
Displacement		
Weight		
Size (length X diameter)		
Performance		
Maximum Speed, Sea Level	173 mph	168 mph
Landing Speed, Sea Level		
Stall Speed, Sea Level	60 mph	61 mph
Initial Rate-of-Climb	1550 ft/min	1440 ft/min
Cruise Speed, Sea Level		
Range at Cruise Speed	700 miles	680 miles
Service Ceiling	20400 ft	19000 ft
Absolute Ceiling		
Crew: 2		
Armament: 2 fixed forward firing .30 caliber machine guns 1 flex .30 caliber machine gun in rear cockpit Provisions for bomb racks on lower wings		

Model Number : V-93S

Model Name : Corsair

Model Type: Fighter

The V-93S was a modified model of the Vought O3U-6. The V-93S was sold to Siam, in 1934, for use as a two-place fighter aircraft. Twelve of the V-93S aircraft were manufactured by Vought. The last four had provisions for four Vickers machine guns. All armament installations were made by the Siamese. Seventy two additional V93S aircraft were manufactured by the Siamese under license. The quantity equipped with floats by the Siamese is unknown.

In 1978, a V-93S in the Royal Thai Aviation Museum was the oldest Vought aircraft in existence.



	Landplane	Seaplane
Dimensions		
Wingspan	36.00 ft	36.00 ft
Overall Length	27.25 ft	30.89 ft
Height	10.46 ft	13.50 ft
Weights and Capacities		
Empty Weight	3091 lb	3329 lb
Gross Weight	4491 lb	4729 lb
Useful Load		
Fuel Capacity	115 gal	115 gal
Oil Capacity	12 gal	12 gal
Powerplant Characteristics		
Type: P & W "Hornet" SD		
Rating	675 hp @ 2050 rmp @ 6000	675 hp @ 2050 rmp @ 6000
Displacement		
Weight		
Size (length X diameter)		
Performance		
Maximum Speed, Sea Level	169 mph	174 mph
Landing Speed, Sea Level		
Stall Speed, Sea Level	59.7 mph	61.3 mph
Initial Rate-of-Climb	1500 ft/min	1380 ft/min
Cruise Speed, Sea Level		

Range at Cruise Speed	709 miles	685 miles
Service Ceiling	23700 ft	22600 ft
Absolute Ceiling		
Crew: 2		
Armament: 2 fixed forward firing .30 caliber machine guns 1 flex .30 caliber machine gun in rear cockpit Provisions for bomb racks on lower wings		

Model Number : V-99M

Model Name : Corsair

Model Type: Fighter

The V-99M fighter, built for Mexico, was a modified O3U-4 with 7-mm Colt machine guns and a Pratt & Whitney Hornet R-1340-T1H-1 engine.

Photograph shows all 10 aircraft sold to Mexico.



Dimensions	
Wingspan	36.00 ft
Overall Length	27.50 ft
Height	9.83 ft
Weights and Capacities	
Empty Weight	
Gross Weight	4500 lb
Useful Load	
Fuel Capacity	
Oil Capacity	
Powerplant Characteristics	
Type:	Wright J-5 "Whirlwind"

Rating	550 hp @ 2200 rpm @ S/L
Displacement	
Weight	
Size (length X diameter)	
Performance	
Maximum Speed, Sea Level	165 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	60 mph
Initial Rate-of-Climb	1680 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	410 miles
Service Ceiling	21400 ft
Absolute Ceiling	
Crew: 2	
Armament: 2 fixed forward firing 7 mm Colt machine guns 1 flex 7 mm Colt machine gun in rear cockpit	

Model Number : V-100

Model Name : Corsair

Model Type: Trainer



The V-100 was an export two-seat version of the V-65 with an updated Pratt and Whitney engine. It was referred to as the "Corsair Junior". Although it was designed to be convertible from landplane to seaplane, only one landplane was built. It was later delivered to Mexico to use as a trainer

Dimensions	
Wingspan	35.00 ft
Overall Length	26.67 ft

Height	10.42 ft
Weights and Capacities	
Empty Weight	2405 lb
Gross Weight	3559 lb
Useful Load	
Fuel Capacity	88 gal
Oil Capacity	6.5 gal
Powerplant Characteristics	
Type: P & W "Wasp-Junior" air-cooled radial SB	
Rating	400 hp @5000 @ S/L
Displacement	610 in ³
Weight	
Size (length X diameter)	
Performance	
Maximum Speed, Sea Level	146 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	54 mph
Initial Rate-of-Climb	1030 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	564 miles
Service Ceiling	20500 ft
Absolute Ceiling	
Crew: 2	
Armament: 2 fixed forward firing .30 caliber machine guns 1 flex .30 caliber machine gun in rear cockpit Provisions for bomb racks on lower wings	

Model Number : V-135

Model Name : Corsair

Model Type: Scout, Observation

The V-135 airplane is basically a V-80. One was used as a test bed by Pratt & Whitney and one airplane was sold to the state of Connecticut in 1935 to replace the O2U that they had purchased earlier.



Dimensions	
Wingspan	36.00 ft
Overall Length	27.59 ft
Height	10.55 ft
Weights and Capacities	
Empty Weight	3286 lb
Gross Weight	4597 lb
Useful Load	
Fuel Capacity	150 gal
Oil Capacity	12 gal
Powerplant Characteristics	
Type: P & W "Hornet" Model SD	
Rating	700 hp @ 7000 rpm @ S/L
Displacement	
Weight	
Size (length X diameter)	
Performance	
Maximum Speed, Sea Level	197 mph
Landing Speed, Sea Level	
Stall Speed, Sea Level	61 mph
Initial Rate-of-Climb	1850 ft/min
Cruise Speed, Sea Level	
Range at Cruise Speed	760 miles
Service Ceiling	27800 ft
Absolute Ceiling	
Crew: 2	
Armament:	