

# Beechcraft Starship Specifications

PERFORMANCE - ISA CONDITIONS

MAXIMUM SPEED 335 kts. (385 mph)  
Average Cruise Weight 12,500 lbs.

## MAXIMUM CRUISE POWER - 1600 RPM

At 22,000 ft 335 kts. (385 mph)  
At 31,000 ft 327 kts. (376 mph)  
At 35,000 ft 318 kts. (366 mph)  
At 37,000 ft 308 kts. (355 mph)

## RECOMMENDED CRUISE POWER - 1600 RPM

At 25,000 ft 324 kts. (373 mph)  
At 31,000 ft 317 kts. (365 mph)  
At 35,000 ft 307 kts. (353 mph)  
At 37,000 ft 295 kts. (340 mph)

## MAXIMUM RANGE POWER - 1600 RPM

At 25,000 ft 254 kts. (292 mph)  
At 31,000 ft 259 kts. (298 mph)  
At 35,000 ft 272 kts. (313 mph)  
At 37,000 ft 279 kts. (321 mph)

## CRUISE RANGE FOR 564 GAL. (3752 LBS.)

### USABLE FUEL

Range Allows For Start, Taxi, And Runup; Includes Cruise Climb and Descent; And Allows For 45 Minutes Reserve Fuel At Maximum Range Power, Zero Wind, 14,900 Lbs Takeoff Weight.

## MAXIMUM CRUISE POWER

At 25,000 ft 1,128 nm (1,298 sm)  
At 31,000 ft 1,342 nm (1,543 sm)  
At 35,000 ft 1,494 nm (1,720 sm)

## RECOMMENDED CRUISE POWER

At 25,000 ft 1,148 nm (1,321 sm)  
At 31,000 ft 1,372 nm (1,578 sm)  
At 35,000 ft 1,514 nm (1,743 sm)

## MAXIMUM RANGE POWER

At 25,000 ft 1,350 nm (1,554 sm)  
At 31,000 ft 1,513 nm (1,740 sm)  
At 35,000 ft 1,576 nm (1,814 sm)

## RATE OF CLIMB AT SEA LEVEL

### TWO ENGINES

At 14,900 lbs 2,748 ft./min.

### ONE ENGINE

At 14,900 lbs 670 ft./min.

## SERVICE CEILING

### TWO ENGINES (100 ft/min.)

At 14,900 lbs 35,800 ft.

### ONE ENGINE (50 ft/min.)

At 14,900 lbs 18,000 ft.

## MAXIMUM CERTIFIED ALT

41,000 ft.

TAKE-OFF DISTANCE - FLAPS EXTENDED	
Take-off Field Length @ 14,900 lbs	3854 ft.
Take-off Field Length @ 13,000 lbs	3112 ft.

LANDING DISTANCE - FLAPS EXTENDED	
Landing Distance @ 13,680 lbs	2390 ft.
Ground Roll	1,264 ft.

SPECIFICATIONS

WEIGHTS

Maximum Ramp Weight	15,010 lbs.
Maximum Take-Off Weight	14,900 lbs.
Maximum Landing Weight	13,680 lbs.
Maximum Zero Fuel Weight	12,600 lbs.
Basic Empty Weight (With Unusable Fuel, Oil and Standard Equipment)	10,120 lbs.
Useful Load (Standard Airplane)	4,890 lbs.
Maximum Usable Fuel (@ 6.7 lbs./gal.)	565 gal./3785 lbs.

WING AREA AND LOADINGS

Wing Area	280.88 sq. ft.
Wing Loading	53.0 lbs./sq. ft.
Power Loading (PT6A-67A: 1200 SHP)	6.21 lbs./shp.

DIMENSIONS

Aft Wing Span	54 ft. 4.7 in.
Forward Wing Span	
Cruise	21 ft. 11.5 in.
Landing	25 ft. 8 in.
Length	46 ft. 1 in.
Height to Top of Vertical Stabilizer	12 ft. 1 1 in.
Cockpit Height	58.2 in.
Cockpit Width	67 in.
Cockpit Door Width	18.5 in.
Cabin Length (includes Aft Baggage) (Excludes Pilot's Compartment)	253.5 in.
Cabin Width	66 in.
Cabin Height	63.5 in.
Entrance Door	28 x 50.4 in.
Forward Baggage Compartment	160 lbs., 19.5 cu ft.
Aft Baggage Compartment	525 lbs., 35 cu. ft.
Total Baggage Capacity	685 lbs., 54.5 cu. ft.

PRESSURIZATION

(8.4 Differential)	Cabin Altitude
Actual Aircraft Altitude - 21,400 ft	Sea Level
Actual Aircraft Altitude - 25,000 ft	1,560 ft.
Actual Aircraft Altitude - 30,000 ft	3,860 ft.
Actual Aircraft Altitude - 35,000 ft	5,940 ft.
Actual Aircraft Altitude - 41,000 ft	8,060 ft.

## STANDARD EQUIPMENT

### AVIONICS

STANDARD COLLINS PRO LINE 4 WITH DUAL DIGITAL EFIS (H.I.R.F. CERTIFIED) SYSTEM

COMMs (VHF) - Dual Collins VHF-422A's with Dual Antennas VOR/ILS/NAV (VHF)  
Dual Collins VIR-432 with ND-870 Indicator and Single NAV Antenna  
ADF - Collins ADF-462 with Display in SDU-640B and Antenna

MARKER BEACONS - Dual in VIR-432's with Display in PFD-870 Indicators, and Antenna

GLIDESLOPES - Dual in VIR-432's with Display in ND-870 Indicators, and Antenna

DME's - Dual Collins DME-442's with Display in ND-870 Indicators, and Dual Antennas

TRANSPONDERS - Dual Collins TDR-94's with Dual Antennas, and Pilot and Copilot Control Wheel ATC Ident Buttons

RADAR - Collins TWR-850 4-Color 2 Channel Doppler/Turbulence Detection Radar with 14' Phased Array Antenna/RT Unit and Display in MFD-870 Multi-Function Display (MFD)

CONTROLS - Dual Collins CDU-850A Primary Control Displays for COMM, NAV, ND, ADF, DME, Transponder, Radar Dual RTU-870A Secondary Controls

AUDIO - Dual DB Systems Model 418 Audio Systems with Dual Auto COMM and Audio Switches, Crew Interphone, Ground

COMM Power Switch for COMM 1, Dual Cockpit Speakers, Mic Key Button on Pilot and Copilot Control Wheels, Dual Hand Held Microphones, Dual Boom Mic Headsets, Voice and Ident Filters, and Ramp Paging

SENSOR DISPLAY UNITS (RMI's) - Dual Collins SDU-640B Indicators with Bearing from VOR/ADF/FMS and Data from DME/VOR/ILS/FMS

COMPASS SYSTEMS - Dual Collins AHC-85D Attitude Heading Reference System (AHS)

FLIGHT MANAGEMENT - Collins Computers with CMA-764

VLF/Omega Long Range NAV System (FMS) Receiver, DBU-850 Data Base Input Unit, and 'E' Field Antenna

FLIGHT DIRECTORS - Dual Collins FCC-850's with Pilot and Copilot PFD-870 and ND-870 Indicators, Dual MSP-850A Mode Selectors, CHP-850 Course/Heading Panel, and Dual Reversionary Controls

AUTOPILOT - Collins APS-850 with APP-85D Control, Electric Trim (3-Axes) and Pilot or Copilot Flight Director Coupling Selector

AIR DATA SYSTEMS - Dual ADC-850 Air Data Computers with Dual ASI-850A Indicators for TAS, IAS, OAT, IOAT, and ISA,

AAP-850 Altitude Awareness Controls, and Rosemount Probe

ALTIMETERS/ALTITUDE ALERTER/PRESELECTOR/VERTICAL

SPEED INDICATORS - Dual Collins ALI-850A Indicators

RADIO ALTIMETER - Collins ALT-55B with readout in PFD-870 Indicators, and Dual Antennas

PILOT'S HORIZON INDICATOR - Collins PFD-870 Electronic Primary Flight Display

COPILOT'S HORIZON INDICATOR - Collins PFD-870 Electronic Primary Flight Display

PILOT'S COURSE INDICATOR - Collins ND-870 Electronic Navigation Display

COPILOT'S COURSE INDICATOR - Collins ND-870 Electronic Navigation Display

STANDBY INSTRUMENTS - 2-inch Altimeter, 2-Inch Airspeed Indicator, 2-inch J.E.T. Al-804 Gyro Horizon with Battery Pack

DIGITAL CLOCKS - Dual with 24-Hour Time, GMT, Count Up/Down Timers, Trip Timer, and Date (Date for FMS, not displayed on clock)

PAGING - Two Speakers for Cabin Paging

BEECH RADIO ACCESSORIES

WHITE LIGHTING

DUAL AVIONICS MASTER SWITCHES

EMERGENCY LOCATOR TRANSMITTER

#### ENGINES

Two Pratt & Whitney PT6A-67A Free Turbine Engines flat rated at 1200 Shaft Horsepower each

Propellers - 104" Diameter, Five Blade Metal, Full Feathering, Reversible, Hydraulically Controlled Constant Speed, Dynamically Balanced

Fuel Cross Transfer System

Submerged Electric Standby Fuel Boost Pumps

Jet Type Fuel Transfer Pumps

Low Fuel Quantity Warning System

Engine Driven Fuel Boost Pumps

Primary Propeller Governors

Overspeed Propeller Governors

Fuel Topping Governors

Heated Fuel Tank Vents

Complete Engine Anti-icing System with Bleed Air

Heated Engine Inlet

Magnetic Chip Detector

Auto Ignition System

EPA Fuel Purge System

Propeller Synchrophaser

Engine Fire Detection System

Engine Fire Extinguishers \*

Propeller Autofeather System

#### LANDING GEAR AND BRAKES

Tricycle Type Steerable Nose Wheel equipped with shimmy damper,  
Beech oil-air struts designed for smooth taxiing  
Dual Main Wheel Tires (each side)  
Main Wheels and Tires - H19.5 x 6.75 - 10, 8 ply rated  
Nose Wheel Tire - 19.5 x 6.75 - 8, 10 ply rated  
Two Carbon Disc Brakes on Each Main Gear (Power,  
Anti-Skid Brakes)  
Landing Gear Position Lights, Down and Locked  
Landing Gear Warning Horn and In-Transit Light

#### CONTROLS

Dual Conventional 3-Axis Control System  
Dual Adjustable Rudder Pedals and Toe-Operated Brakes Parking Brake with Hand  
Control  
Two Power Levers, two Propeller rpm Selectors and two Fuel Cut-Off and  
Condition Levers  
Hydraulic Landing Gear with Mechanical Uplock  
Hand-Pump Type Auxiliary Landing Gear Extension Control Electric Elevon Trim  
Tabs (Roll)  
Electric Rudder Trim Tabs (Yaw)  
Electric Elevator Trim Tabs (Pitch)  
Yaw Damper System (Part of Autopilot) Electric Flap/Forward Wing Control  
Stall Warning System with Shaker/Pusher Logic

#### ELECTRICAL

Starter/Generator (Two 300 amp - 28 volt)  
Solid State Generator Control Panel - Two One Electric Motor for Operating  
Flaps One Electric Motor for Operating Forward Wing Landing Gear Warning  
System with Manual Over-Ride and Automatic Reset  
Heated Stall Warning System with Preflight Self Test System  
Dual Heated Pilot & Static Heads - Nose Mounted  
External Power Receptacle with Annunciation and  
Overvoltage Protection  
Master Warning and Annunciators, with Push to Test Heated Fuel Vents  
Static Wicks  
Air Cooled NiCad Battery - 34 AH  
Triple Bus System with Auto Load Shedding  
Nose Gear Mic and Phone Jack (part of Avionics)  
Two Loadmeters (with Left Capable of Battery Ammeter)  
One Voltmeter

#### LIGHTS

Wing Ice Lights  
Three Landing Lights (One Nose, Two Wing)  
Nose Gear Taxi Light  
Position Lights  
Dual Map Lights  
Adjustable Reading Light for each Cabin Chair and  
Toilet Compartment  
Indirect Cabin Lighting  
One Cockpit Overhead Reading Light  
Aisle Courtesy Lights  
Entrance Door Light  
Aft Compartment Lights  
Primary and Secondary Instrument Lighting Systems  
Lighting Controlled from Overhead Panel  
EL Indirect Cockpit Lighting  
Anti-Collision Strobe System (High and Low  
Intensity Selectable)

## COCKPIT

Dual Electrically Heated, Glass Windshields with Redundant Pilot Windshield Element & Control  
Hot Air Windshield Defroster, Main Windshields  
Electrically Heated, Cockpit Side Windows  
Dual Adjustable Sun Visors  
Cigarette Lighter, Two Ash Trays  
Fresh Air Outlets  
Oxygen Outlets and Console Stored Crew Pressure/Diluter Demand Oxygen Masks with Mic  
Sub Panel Mounted Oxygen Controls  
Coffee Cup Holders  
Dual Cockpit Speakers  
Pilot and Copilot Four-Way Adjustable Seats with Shoulder Harness Restraint System and Reclining Feature  
Pilot and Copilot Chart Storage Cases and Flight Manual Storage Compartment (Seven Compartments)  
Lighted Control Wheel Approach Plate Holders  
Two Electronic/Digital Fuel Quantity Indicators  
Electronic, Analog Pitch Trim Indicator  
Electronic, Analog Roll Trim Indicator  
Electronic, Analog Rudder Trim Indicator  
Digital Fuel Temperature Indicator  
Digital Cabin Temperature Indicator  
Dual Digital Deice Pressure Indicator  
Digital Oxygen Pressure Indicator  
Pneumatic Analog Cabin Altitude and Differential Pressure Indicator  
Pneumatic Analog Cabin Climb Indicator  
Fire Extinguisher \* (Halon) - Hand Held

## CABIN

Forward Club Arrangement with Six Lateral Tracking Chairs All are Fully Adjustable with Shoulder Harnesses, Lap Belts and Retractable Inboard Armrests  
Ash Trays for All Occupants  
Cupholder for each Cabin Chair  
Individual Reading Lights and Fresh Air Outlets  
Two Folding Tables  
Upright Refreshment Cabinet, Forward Left Side with Water Tank, One Gallon Heated Liquid Container, Two Cup Dispensers; Overboard Drain; Ice Chest, Four Decanters and Waste Container  
Oxygen, 77 cu. ft. - One Mask per Passenger including Toilet Compartment (Automatic Deployment)  
"No Smoking - Fasten Seat Belt" Signs with Audible Chime  
Forward Right Side Baggage Cabinet/Coat Closet  
Forward Cabin Closure Door  
Aft Cabin Privacy Partition with Sliding Doors and Aisle Facing Flushing Toilet with Relief Tube  
Aft Baggage Compartment with Doors and Baggage Webbing  
Cabin Carpet Protector - Vinyl  
Air Conditioning \* (Freon)  
Automatic Bleed Air Type Heating  
Fail-Safe (Dual-Pane) Cabin Windows with Manual Dimming (Polarized)  
Carpet - Wool Plush - Low Nap  
Pressurization - 8.4 Differential  
Airstair Door with Hydraulic Snubber, Airstair Door  
Courtesy Light  
Fire Extinguisher \* (Halon) - Hand Held

#### PUBLICATIONS

Service Information Kit  
Airplane Log Book  
Two Engine Log Books  
Two Propeller Log Books  
Pilot's Check List  
Beechcraft Warranty ID Card  
Eight Passenger Briefing Cards

#### SERVICE

Two Cabin Door Lock Keys  
Tow Bar  
Two Pitot Tube Covers  
Two Prop Slings  
Two Inlet Covers  
Inlet Cover Installation/Removal Tool  
Two Pair Exhaust Covers  
Two AOA Probe Covers  
Three Ice Detector Covers  
Three Tiedown Rings  
Paint Kit  
Flight Bag  
Control Lock  
Three Landing Gear Lock Pins  
Nose Landing Gear Door Pin  
Six Coat Hangers  
Two Boom Mic Pilot's Headsets

#### ADDITIONAL FEATURES

EICAS (Engine Indicating Crew Advisory System)  
All Engine Data (Analog and Digital):  
ITT, Torque, Prop RPM, N,, Fuel Flow, Oil Temperature,  
Oil Pressure  
All Master Caution (Yellow), Status (White)  
And Advisory (Green) Messages. Master  
Caution Message With Flasher System  
Propeller Syncrophaser Display And  
Autofeather Arm Display  
Digital Capacitance Type High Accuracy Temperature  
Compensating Fuel Gauging System  
Inertial Separator Engine Anti-icing System, with Dual  
Electric Ice Vane Actuators  
Automatic, Lightweight, Low Profile Pneumatic Deicing System  
Complete Exterior Urethane Paint  
Dual Bleed Air Heating and Pressurization  
Electroluminescent Lighted Control Panels  
Battery Charging Current Sensor (Safety Sentinel)  
External Oxygen Filler Port and Pressure Gauge

All performance specifications and standard equipment subject to change  
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