



History Restored



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The Boeing B-29 *Superfortress*



History of the Boeing B-29

The Boeing B-29 Superfortress is a four-engine propeller-driven heavy bomber designed by Boeing and was flown primarily by the United States during World War II and the Korean War. It was one of the largest aircraft operational during World War II and featured state-of-the-art technology. Including design and production, it was the single most expensive weapons project undertaken by the United States during World War II,

exceeding the cost of the Manhattan Project by between \$1 and 1.7 billion.

Innovations introduced in the B-29 included a pressurized cabin, dual-wheeled, tricycle landing gear and an analog computer-controlled fire-control system that directed four remote machine gun turrets that could be operated by a single gunner and a fire-control officer. A manned tail gun installation was semi-remote.

The name "Superfortress" continued the pattern Boeing started with its well-known predecessor, the B-17 Flying Fortress. Designed for the high-altitude strategic bomber role, the B-29 also excelled in low-altitude nighttime incendiary bombing missions. One of the B-29's final roles during World War II was carrying out the atomic bomb attacks on Hiroshima and Nagasaki.

DESIGN SPECIFICATIONS

(original specifications)

Crew: 11 (Pilot, Co-pilot, Bombardier, Flight Engineer, Navigator, Radio Operator, Radar Observer, Right Gunner, Left Gunner, Central Fire Control, Tail Gunner)

Length: 99 ft 0 in (30.18 m)

Wingspan: 141 ft 3 in (43.06 m)

Height: 27 ft 9 in (8.45 m)

Wing area: 1,736 sq ft (161.3 m²)

Empty weight: 74,500 lb (33,800 kg)

Loaded weight: 120,000 lb (54,000 kg)

Max. takeoff weight: 133,500 lb (60,560 kg) ; 135,000 lb plus combat load

Powerplant: 4 × Wright R-3350-23 Duplex-Cyclone turbosupercharged radial engines, 2,200 hp (1,640 kW) each

Maximum speed: 357 mph (310 knots (570 km/h))

Cruise speed: 290 mph (252 knots (467 km/h))

Stall speed: 105 mph (91 knots (169 km/h))

Range: 3,250 mi (2,820 nmi (5,220 km))

Ferry range: 5,600 mi (4,900 nmi (9,100 km))

Service ceiling: 31,850 ft (26) (9,710 m)

Rate of climb: 900 ft/min (4.6 m/s)



B-29's Original *Mission*

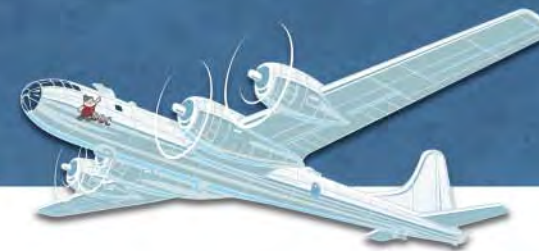
The fires of Pearl Harbor had barely been extinguished, when the throttle and plans for a long range heavy bomber was pushed to the wall. The B-29 Superfortress came to life on the drawing board in 1941. It would see action just three years later—an astonishing time-frame even in war time—but even more impressive after overcoming engine problems and technical flaws.

Nearly 4,000 were produced and only a relative handful were kept operational after WWII. They would serve in the Korean air war, then as the pre-B52 strategic air command workhorse. The B-29 program cost more than the massive Manhattan Project, the atomic bomb development.

The B-29's part in ending the war was no less critical. The B-29 brought together the tireless labor of thousands of civilian workers and the selfless courage of the U.S. Army Air Force.

Arriving too late to fly bombing missions in the second World War, Doc would serve as a radar trainer during the Korean war. The giant bomber was first assigned to a B-29 squadron named after Snow White's seven dwarfs. It was a squadron of nine airplanes — Snow White, the Seven Dwarfs and the Wicked Witch.

Doc lives today, having narrowly escaped destruction by friendly fire. Unlike many of its fellow B-29's, languishing in warbird bone-yards, Doc somehow survived its fate as a practice target. In 1987, a group lead by Tony Mazzolini, and backed by the United States Aviation Museum, formed a plan to restore Doc, by then a very rare, mostly intact, B-29.



The Rescue *Begins*

"They drove me out to that specific test range and I could see in the distance the silhouette of this B-29 on the horizon. As we got closer, that image got larger and larger, I even jumped out of the truck before it stopped just to go over and see it and touch it. It was a real good feeling." - Tony Mazzolini



It took Tony and a team of volunteers 10 years to rescue Doc from the desert. In 2000, Doc was finally rescued and delivered to Wichita, Kan. The non-profit, 'Doc's Friends,' was formed in 2013, to complete the restoration, with a first flight target date of late 2014 and late first flight in 2017.

Hundreds of *Volunteers*

In the days since Doc's rescue, as in the urgent days of WWII, the energy of hundreds, again focused on getting the B-29 in the air. This time, they were volunteers. Dozen upon dozen, dedicated their time and energy to Doc, and to the history of service and sacrifice the aircraft represents.

From mechanics, engineers, electricians and other technicians, to those who have provided parts, equipment, tools and other services. Many volunteers have worked on parts and pieces of Doc at shops and hangars and their own garages, scattered across the Wichita area. Others have toured the nation going to air shows and promoting the dream of getting Doc back into the sky. Some are descendants of WWII aircraft industry employees, one is a veteran B-29 pilot, and another has worked as a rabbit on Doc, just as she did on the original B-29's, at the original Boeing plant.

Powered by modern hybrid versions of the original engines, Doc's itinerary, was to fly into the hearts and minds of the next generations, at air shows and commemorative appearances, nationwide.





Rollout: March 23, 2015, 300+ volunteers and supporters 10,000 YouTube views



Engine Start: Sept. 18, 2015, 15,000 tuned into live-stream 80,000+ YouTube views

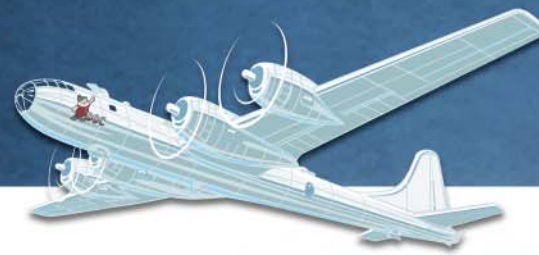


Airworthiness: May 20, 2016, 100+ volunteers and media 650,000+ reached on Facebook



42 years sitting in the desert
18 years of restoration
Doc's Friends 501(c)(3) formed
1 of only 2 airworthy B-29s
95% restored in-kind

- 1,000+ individual/business sponsors
- 350,000+ volunteer hours



A New *Mission* and You Can Be Involved

The task of restoring Doc has been enormous, but the selfless effort by volunteers will give future generations a glimpse into history, beyond value. The view from the cockpit and blister windows of a precious flying tribute to those who built and flew the warbirds of freedom will be inspiring. That is, if we keep Doc flying in pristine condition. For this, Doc needs a home. A hangar and museum at Doc's birthplace city of Wichita, will protect the aircraft from the elements, accommodate vital maintenance and serve as a living exhibit, to preserve our very history. This is critical to Doc's legacy. It's critical to educating future generations.



You Are Doc's *Future*

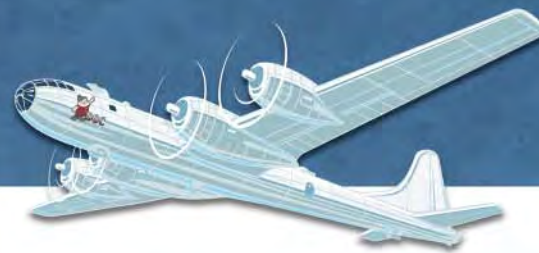
Doc's mission now and in the future depends on us. In order to HONOR the men and women who sacrificed so much to protect our freedom, to EDUCATE generations to come about the contributions made by the Greatest Generation and to CONNECT people with the rich history of the B-29, we need your help.



Building a permanent home for our historic warbird means giving HISTORY A HOME. This world-class operating and museum-type hangar will preserve Doc in flying condition while giving our volunteer restoration and maintenance crew a place to maintain and share the thrill of experiencing a B-29 up close.

Your donation, no matter the size, will go directly to supporting Doc's mission. Whether you donate to the operations fund for flight and maintenance operations, or if you want to be involved in the B-29 Doc Hangar and Education Center, your involvement is key to the success of Doc's mission.



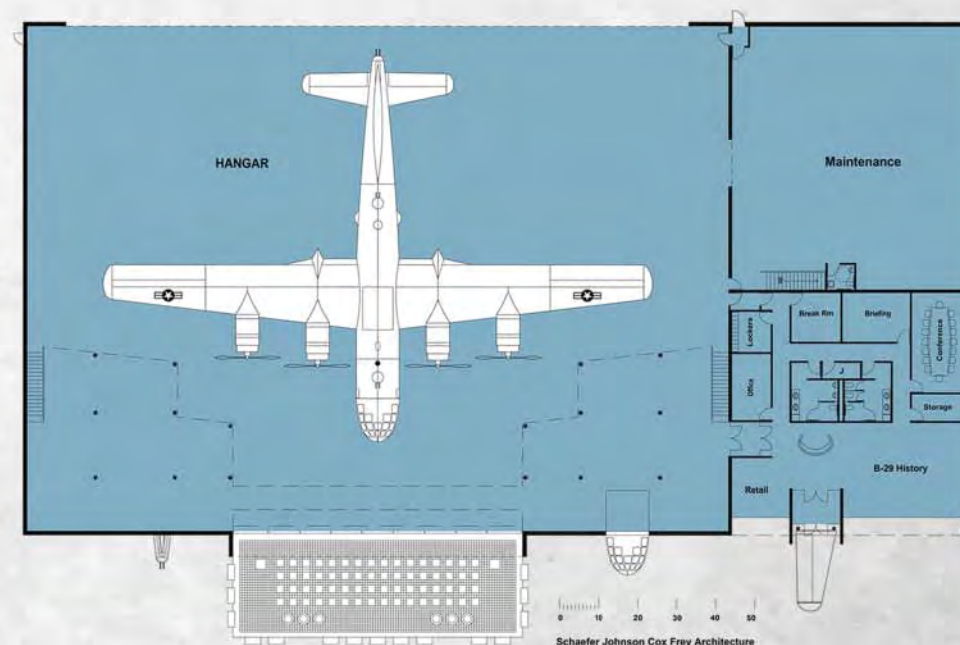


Give History a Home

The new home for Doc will be an interactive B-29 Hangar and Education Center. Your gift will help us finalize our flight plan. Generations to come will have the opportunity to enjoy and experience this prominent figure in our nation's history. B-29 Doc will act as a back drop inside the center for the public to enjoy bits of science, technology, engineering and mathematics that go hand-in-hand with aviation.

A world-class 30,000 sq. ft. museum hangar will preserve Doc in flying condition and display the priceless Superfortress to the public.

- 132'x180' hangar
- Lobby
- Exhibit Gallery
- Access Ramp
- Offices
- Conference Rooms
- Storage Area
- Restrooms
- Locker Room



Project Budget

Building Construction	\$4,100,000
Site Development	\$1,300,000
Surveys, Permits, Design	\$350,000
Contingency	\$200,000
Tooling, Equipment, Etc.	\$550,000
	\$6.5 million

Move-in Date

November 2018

Naming Rights Opportunities

Hangar & B-29 Education Center = \$1.5M	STEM Learning Center (lobby) = \$200K
Honor Ramp = \$500K	Honor & History Wall = \$100K
B-29 Experience (41 Section) = \$500	Education & Engineering Rooms = \$75K
Hangar Door = \$500K	Flight Maintenance Center = \$50K
Hangar Floor \$250K	Crew Briefing Room = \$50K
Discovery Overlook Plaza = \$250K	Flag Pole & Plaza = \$25K
Warbird Education Entrance = \$250K	Plaza Seating Areas = (15) = \$5K
Crane = \$200K	

Our Mission

Honor

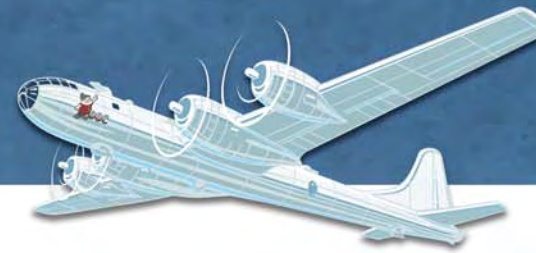
the men and women who
sacrificed so much for
the freedom of others –
including those who
designed, built, maintained
and flew Doc during
and after WWII

Connect

people with their rich
heritage and offer
enthusiasts the
thrill of experiencing
a B-29 up close

Educate

today's and future
generations on the
contributions made by
the Greatest Generation
during wartime



A Back drop for STEM

Science | Technology | Engineering | Mathematics.

Today, curriculum that is STEM-based utilizes real-life situations to help students learn. Using B-29 Doc as a back drop inside the B-29 Doc Education Center, children of all ages will have opportunities to see how STEM concepts relate to aviation and it shaped our nation's history, sparking a passion for a future career in a STEM field.

The science of doc

The B-29 was an airplane before its time. It was a high altitude, long range bomber that pushed the limits of design and science.

Inside the B-29 Doc Education Center, visitors will see and experience the scientific challenges that B-29 design engineers had to overcome:

- ▶ Physics and aerodynamics
- ▶ Weather and wind conditions
- ▶ Review original design blueprint

Technology & Engineering of doc

The B-29 was a technological and engineering marvel for its time. B-29 Doc Education Center visitors will experience a hands-on view inside the cockpit of Doc, learning more about:

- ▶ Communications and navigational systems
- ▶ The first all-electric airframe
- ▶ Weapons and warfare delivery systems
- ▶ The technology behind Doc's original and now-restored hybrid engines

A hands-on experience

When visitors of all ages enter the B-29 Doc Education Center and Hangar, it won't be just another museum.

As a real-life maintenance center, B-29 Doc crews will be actively working to maintain the historic warbird. It will be an up-close and personal experience.

Constant connection

School tours, both elementary and secondary, will be a common sight inside the B-29 Doc Educational Center and Hangar. Community organizations, science centers and partnerships with other STEM organizations will be the foundation of our mission.

- ▶ Presentations from wartime missions and heroes
- ▶ Stories from volunteers about the restoration project
- ▶ Stories about the hardships of rebuilding an airplane from the 1940s

You are the key to success

Without help, our vision of an interactive B-29 Educational Center and hangar will never take flight. Your gift will help us file our flight plan for generations to come who need to understand the science, technology, engineering and mathematical marvel that became such a prominent figure in our nation's aviation history.

Naming Opportunities

- ▶ B-29 Doc Educational Center and Hangar
- ▶ B-29 Doc observation and flight deck
- ▶ Education and maintenance center
- ▶ Classrooms and meeting spaces
- ▶ STEM presentation theater and lobby area

HONOR • EDUCATE • CONNECT



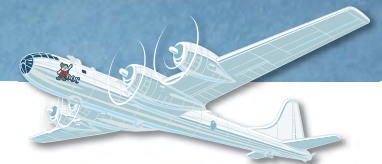
4"x8"
BRICK
\$200.00

Help us *Pave a Home* for Doc

With your help, we can make the B-29 Doc Hangar and Education Center a reality. Your contribution will put your name or company name in the hangar plaza, which will be a centerpiece for all who visit. It will also serve as a memorial to those who have volunteered, served and dedicated their life to our nation.

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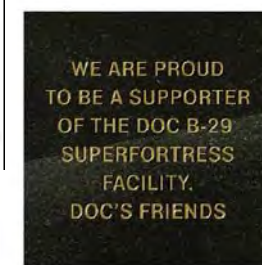
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www.b-29doc.com/bricks

(FOLD HERE)

Please engrave our brick/tile as follows:



8 x 8 Tile

ANY SYMBOL IS CONSIDERED ONE SPACE (PERIOD, COMMA, DASH)
ALL TEXT WILL BE CENTERED UNLESS OTHERWISE NOTED.