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THE HARLEY-DAVIDSON STORY



Founded in 1903, Harley-Davidson is one of the world's largest manufacturers of motorcycles, as well as a globally recognized lifestyle brand with a loyal following. Started in a shed in Milwaukee by William S. Harley and brothers Arthur and Walter Davidson, Harley-Davidson is also the oldest continuously running motorcycle manufacturer in the world. As a brand, it is as durable as the motorcycles it creates, adapting to many challenges along the way to be a world leader in motorcycling and a symbol of the American dream.

The history of the company is intertwined with the history of the USA, which is why Harley-Davidson is referred to as the "American motorcycle." By 1920, Harley-Davidson was already being sold in 67 different countries, via 2,000 dealers worldwide. During the First and Second World Wars, the company also played a crucial role in supplying vehicles to the American military which resulted in the business expanding after the war. In the years after, product development expanded into both lightweight and smaller twin-cylinder models. The introduction of the *Sportster*[®] motorcy-cle in 1957, along with other models, gave the brand a name in nimble and powerful machines for racing, road trips and much more.

Over time, the company has become well-known for its cruisers, including the iconic *Harley-Davidson® Fat Boy®*, a beautifully designed V-twin engine motorcycle with a *Softail®* frame and solid-cast disc wheels. Stylish, comfortable and reliable, the *Fat Boy®* motorcycle is one that you could ride almost anywhere. Harley-Davidson continues to be true to its past, as it embraces the future.

We're pleased to present our LEGO® tribute to this American icon.



RIDING THROUGH TIME...



Milwaukee, Wisconsin - William Harley and brothers Walter and Arthur Davidson sell their first single-cylinder motorcycle.

1909

1903



Harley-Davidson introduces its first V-twin engine.



The founders create the first factorysponsored motorcycle racing team, that became known as the "Wrecking Crew[™]" race team.



War, more than 20,000 Harley-Davidson® military motorcycles were used for the military.

At the end of the First World

1936



lehead is released; it would inspire several elements of the Fat Boy® motorcycle. H-D is one of only two American motorcycle makers to survive the Great Depression.

> 1941 1945



The XL Sportster® model is introduced.

1957



Harley-Davidson manufactures more than 80,000 motorcycles for use by the U.S. Military and its allies during WWII.



1918

1916

1914



The magazine "The Harley-Davidson Enthusiast" was launched and went on to be the longest-published motorcycle magazine in history.

...HARLEY-DAVIDSON ACROSS THE YEARS



Introduction of the *Evolution*® V-twin engine and

the debut of the first Softail® model

The H-D Motor Company celebrates its 100th anniversary with a year-long, worldwide

birthday celebration. More than 250,000 people

venture to Milwaukee for the final stop of the

Open Road Tour...the party!

The first Harley-Davidson production of the electric motorcycle, *LiveWire*[™], will launch in 2019. It will be the first in a broad portfolio of electric two-wheelers.

THE FAT BOY® MOTORCYCLE - 25 YEARS OF AN AMERICAN ICON



Designed by Willie G. Davidson and Louie Netz in 1990, the *Harley-Davidson® Fat Boy®* motorcycle is one of the company's most iconic and popular models. It is nicknamed 'The Legend', due to it being a timeless, dependable and powerful motorcycle.

The name *Fat Boy*[®] motorcycle gave a nod to the motorcycle's predecessor, the *Fat Bob*[®] motorcycle and its large personality. With a V-twin *Softail*[®] cruiser, what characterizes the *Fat Boy*[®] motorcycle is its solid-cast front and rear disc wheels, shotgun exhausts and gently flared fenders. The original model from 1990 sported monochrome silver paint and a silver frame with yellow detailing, which together with the lacing on the seat and fuel tank gave the motorcycle a handcrafted look. The *Fat Boy's* logo was also an iconic design, evoking good-willed patriotism and nostalgia, and can still be found on *Fat Boy*[®] model designs today.

But it wasn't just a one and done design. The *Fat Boy*[®] motorcycle underwent rigorous testing and customer feedback for two years before it was deemed ready to ride. In fact, Willie G. rode a prototype of the *Fat Boy*[®] motorcycle to Daytona in 1988 and 1989, both trips helping him to improve the bike's design.

In 2010, the *Fat Boy*[®] Lo motorcycle was introduced, featuring the lowest seat height on any *Harley-Davidson*[®] motorcycle, and advertised as a "darker, lower, meaner" version of the original.

Since its release, the *Fat Boy*[®] motorcycle has experienced some changes, particularly in the *Softail*[®] model redesign in 2017. However, even with these changes, Harley-Davidson has retained iconic design elements from the original 1990 *Fat Boy*[®] motorcycle.



DESIGNING THE LEGO® HARLEY-DAVIDSON® FAT BOY® MOTORCYCLE



THE CHALLENGE OF MAKING IT IN BRICKS

"LEGO[®] bricks are great for building square houses and rectangular structures that are not meant to move. Motorcycles are not square, and they're supposed to move, so from the start everything was a challenge! The frame was probably the biggest challenge because it is made mostly out of triangles and is very thin. It was difficult to make something that matched the real *Fat Boy*[®] motorcycle's *Softail*[®] frame, but also had the strength needed to support the model in play. For the final design, we used a hybrid combination of LEGO Technic[™] and System Elements to create a model that is both rugged and beautiful, while delivering a one-of-a-kind building experience; a true feat of LEGO engineering."

OUR APPROACH

"We wanted to build a working engine from LEGO system elements for this motorcycle and create the frame and motor so that both would be strong and reliable. Overall, we made several different major loops on the model to make sure everything was working from a functional perspective, a stability perspective and an

aesthetic perspective. Most importantly, we wanted to deliver all that in an incredible building experience, the core of what makes a LEGO model cool."



















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RUNNING SMOOTH

Ten motors were built and tested, each for thousands of cycles, to ensure that every motor built would run as smoothly as the prototype design after countless hours of play.

The functional pistons at the core of the engine are a key component to the authenticity of this model. Mike explored and tested countless different designs for the piston head, from barrel elements to various minifigure helmets, before settling on the 2-module string spool used in the final design.







































































































LAKESTER RIM

The *Fat Boy*[®] motorcycle features an iconic cast aluminum front and rear wheel. Mani Zamani, Element Designer, created this piece specifically for this model. The element is designed in a way that it can be used on its own or doubled up in order to mount the rear tire.

The wide 240 mm rear tire is a key component of the *Fat Boy*[®] model's muscular stance. For the LEGO[®] *Harley-Davidson*[®] *Fat Boy*[®] motorcycle, Mani developed a 35 mm tire, the widest motorcycle tire ever made in LEGO bricks.





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