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Plastic Construction Toy This article covers the toy of the construction. For the company see the Lego Group. For the Italian newspaper, see Leggo. For other uses, see Lego (disambigua).
Lego Logo since 1998TypeConstruction setInventor(s)Ole Kirk ChristiansenCompany LegoCountryDenmarkAvailability1949–presentMaterialsAcrylonitrile butadiene styreneOfficial Lego site (Lego name) is a plastic building toy line manufactured by The Lego Group, a private company based in Billund, Denmark. From 2021[update], Lego was the world's largest toy company. [2] The company's flagship product, Lego, consists of various interlaced plastic bricks that accompany a series of gears, figurines called minifigures and various other parts. Lego pieces can be assembled and connected in many ways to build objects, including vehicles, buildings and working robots. Anything built can be disassembled again, and reused pieces to do new things. [3] The Lego Group began producing interlocking toys bricks in 1949. Films, games, competitions and eight amusement parks Legoland were developed under the brand. Since July 2015[update], 600 billion Lego parts had been produced. [5] History Main articles: Lego and Lego timeline Hilary Fisher Page's Interlocking Building Cubes of 1939 Lego brick Two Lego Duplo bricks with a standard brick for comparison The Lego Group started in the workshop of Ole Kirk Christiansen (1891–1958), a carpenter from Billund, Denmark, who started making wooden toys in 1932. [6][7] In 1934, his company was called "Lego", derived from the Danish phrase leg Godt [lit enlightened kæt],[8][9] meaning "play well". [10] In 1949, Lego began producing, among other new products, a first known version of the bricks, calling them "Automatic Binding Bricks". These bricks were based on Kiddicraft's self-lover bricks, which had been patented in the United Kingdom in 1939[12] and released in 1947. Lego had received a Kiddicraft brick sample from the supplier of an injection molding machine he purchased. [13] The bricks, originally made from cellulose acetate,[14] were a development of the traditional stackable wooden blocks of time. [11] The motto of the Lego Group, "only the best is good enough"[15] (Danish: det lite er ikke for Godt, literally "the best is not too good") was created in 1936. [7] This motto, which is still used today, was created by Christianen to encourage his employees to never jump on quality, a value he strongly believed in. [7] In 1951 plastic toys represented half of the Lego company's output, although theDanish Legetøjs-Tidende ("Toy Times"), visiting the Lego factory in Billund in the early 1950s, believed that plastic would never be able to replace the traditionalToys. [16] Although a common feeling, Lego toys seem to have become a significant exception to dislike plastic in children's toys, scheduled partly to the high standards established by Ole Kirk. [17] In 1954, the son of Christiansen, Godtfred, had become the Junior Management Director of the Lego Group. [16] It was the conversation of him with an overseas buyer who led to the idea of a toy system. Godtfred saw the immense potential in Lego bricks to become a system for creative game, but the bricks still have problems from a technical point of view: their capacity of locking was limited and were not versatile. [3] In 1958 the modern brick design was developed; It took five years to find the right material for this, Polymer ABS (Acrylonitrile Butadiene Styrene). [13] [14] A patent application for the modern design LEGO Brick Design was deposited in Denmark on 28 January 1958, and in various other countries in the following years. [18] [19] Lake Building at the NASA Kennedy Space Center The Duplo product line of the Lego Group was introduced in 1969 and is a range of simple blocks whose lengths measure twice the width, height and The depth of standard lego blocks and are aimed at younger children. [16] [16] [16]. 20] In 1978, Lego produced the first minifigures, since then they became a clip in most sets. [21] In May 2011, Space Shuttle Endeavor Mission STS-134 brought 13 Lego kits to the International Space Station, where astronauts built models to see how to react in microgravity, as part of Lego bricks in the space program. [22] [23] In May 2013, the largest model ever created was displayed in New York City and was made of over 5 million bricks; A 1: 1 scale model of an X-Wing fighter. [24] Other records include a 34 meter tower (112 ft) [25] and a 4 km railway (2.5 mi). [26] [27] In February 2015, Lego replaced Ferrari as the "most powerful brand in the world". [28] [29] In popular culture Main article: LEGO in popular culture The popularity of Lego is demonstrated by its wide representation and use in many forms of cultural works, including books, films and artwork. It was also used in class as a teaching tool. [30] In the United States, Lego Education North America is a joint venture between Pitsco, Inc. and the educational division of the Lego Group. [31] In 1998, Lego Bricks were one of the original garments in the National Toy Hall of Fame at the Fort in Rochester, in New York. [32] Designs a model of Trafalgar Square, London, at Legoland Windsor Lego pieces of all varieties constitute a universal system. Despite the variation of the design and the purposes of the individual pieces over the years, each piece remains compatible somehow with Existing pieces. Lego Bricks of 1958 are still interlocking with those made in the current time, and the lego set for small children are compatible with those made for adolescents. Six bricks of 2, studs [33] can be combined in 915,103,765 ways. [34] Each Lego piece must be manufactured at an excessive degree of precision. When two pieces are engaged engaged fit tightly, but be easily dismantled. The machines producing Lego bricks have small tolerances such as 10 micrometers. [35] Size of some standard bricks and plates Lego[36][37] The primary design and development work takes place at the headquarters of Billund, where the company employs about 120 designers. The company also has smaller design offices in the UK, Spain, Germany and Japan which are responsible for developing products specifically intended for these markets. The average development period for a new product is about twelve months, divided into three stages. The first stage is to identify the trends and developments of the market, including the contact of designers directly with the market; some are placed in toy shops near the holidays, while others interview children. The second phase is the design and development of the product according to the results of the first phase. Starting in September 2008[update] design teams use 3D modeling software to generate CAD drawings from initial design sketches. The drawings are then prototypes using an internal stereolithic machine. These prototypes are presented to the entire project team for comment and test by parents and children during the "validation" process. Projects can then be modified in accordance with the results of focus groups. Virtual models of completed Lego products are built in conjunction with the writing of user instructions. Full CAD models are also used in the broadest organization, for marketing and packaging. [38] Lego Digital Designer is an official piece of Lego software for Mac OS X and Windows that allows users to create their own digital Lego designs. [39] The program once allowed customers to order their custom designs[40] with a service to ship physical models from Digital Designer to consumers; the service ended in 2012. [41] Production The Lego factory in Kladno, Lego injection moulding machines Czech Republic, made by the German company Arburg Since 1963, Lego pieces have been manufactured by a robust and resilient plastic known as butadiene styrene acrylonitrile (ABS).[14][35] Starting in September 2008[update], Lego engineers use the NX CAD/CAM/CAE PLM software suite. The software allows you to optimize the parts by analyzing the flow and stress of the mold. Prototype molds are sometimes built before design is committed to mass production. ABS plastic is heated at 232 °C (450 °F) until it reaches a texture similar to the dough. It is then injected into the molds using forces between 25 and 150 tons, and takes about 15 seconds to cool. Molds are allowed to tolerate up to twenty micrometers, to ensure that theThey stay connected. [38] Human inspectors control the output of the molds, to eliminate significant color or thickness variations. According to the Lego Group, about eighteen bricks on each million fail to meet the required standard. [42] Lego factories recycle everything, but about 1%plastic waste from the production process. If the plastic cannot be reused in Lego bricks, it is processed and sold to the industries that can use it. [43] [44] Lego has a self-imposed deadline 2030 to find a more ecological alternative to ABS plastic currently uses in its bricks. [45] Lego brick production takes place in different locations around the world. The molding is made to Billund, in Denmark; NyÁrregyhÁza, Hungary; Monterrey, Mexico and more recently in Jiaxing, China. The decorations and packaging of bricks are made to plants in Denmark, Hungary, Mexico and Kladno in the Czech Republic. The Lego Group esteem that in five decades has produced 400 billion lego blocks. [46] The annual production of Lego brick has an average of about 36 billion of about 36 billion, or about 1140 elements per second. According to an article in Businessweek in 2006, Lego could be considered the producer of the number one tire of the world; The factory produces about 306 million small rubber tires per year. [47] The request was reiterated in 2012. [48] In December 2012, the most or less radio program of the BBC asked the Department of Engineering of the Open University to determine "how many Lego Bricks, stacked one above the other Would we like to destroy the lower brick? " [49] Using a hydraulic test machine, the engineering department determined the maximum average force at 2- 2 Lego Brick Brick Stand is of 4,240 Newton; Since an average brick of 2-2 2 has a mass of 1,152 grams (0.0406 ounces), according to their calculations, it would take a stack of 375,000 bricks to bring down the lower brick, which represents a 3.591 meter stack (11.781-) in height. [49] Private tests á €

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