

Questo manuale d'istruzione è fornito da trovaprezzi.it. Scopri tutte le offerte per Lego Icons 10363 Macchina volante di Leonardo da Vinci o cerca il tuo prodotto tra le migliori offerte di Lego





LEGO.com/sustainable-packaging







Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries and regions. App Store is a service mark of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC. Tencent and the Tencent logo are trademarks of Tencent Inc.

6

Q LEGO.com/devicecheck



lEGO

Q LEGO[®] Builder

Artist, Artisan, Aviation Architect

Leonardo da Vinci (1452-1519) is the undisputed master of Renaissance innovation. Adored by his contemporaries for his visionary talent, boundless curiosity and flamboyant character, da Vinci is still rightfully celebrated for his creative ingenuity. He devoted his life to exploring and pushing boundaries in art, human and animal anatomy, physics and engineering, with unparalleled passion, determination and craftsmanship. Painted masterpieces like the *Mona Lisa* and *The Last Supper* originally catapulted him to worldwide fame, but his lifelong fascination with human flight invokes equal awe.



Imitating the flight of birds

Although, reportedly, Leonardo da Vinci's aeronautical inventions never came to life during his time, his ideas, designs and studies provided valuable inspiration for the first working aircraft centuries later. The ornithopter is one of his most famous works, but they all rest on the same idea of a single person piloting a mechanical machine with wings. Using their own body strength, the pilot would pull and push on cranks and strings that would make the wings flap up and down.

"Simplicity is the ultimate sophistication."

– Leonardo da Vinci



From the LEGO[®] Design Team

"This was where our concepting started – to make a machine with movable parts that are all linked together and activated when pulling on strings or, in this case, on one single string. It's a seemingly simple model, yet a great LEGO® engineering challenge. The model is designed to look as if it was made from wood, linen and rope. It has a brickbuilt skeleton for the tail and wings, and textile wings with a printed pattern. Incorporating the textile string as the main part of the wing-flapping mechanism was a great challenge! The mechanical parts of the model are left exposed to celebrate the functional parts and Leonardo's vision and to let our own interpretation of the original design take flight."

Antica Bracanov LEGO[®] Senior Designer











































One of da Vinci's machines, known as *Il Grande Nibbio*, was inspired by and named after a bird from the *Accipitridae* family: the kite.































Da Vinci famously wrote in his notebooks in backwards handwriting. It could only be read correctly when reflected in a mirror.



Ø















































Leonardo da Vinci is known to have produced more than 35,000 words and 500 sketches on flight and flying machines!




























































































Leonardo's ornithopter, built for and test-piloted from a low altitude by a friend of the artist, wasn't entirely successful. The machine crashed, and da Vinci's friend broke a leg.





































































Leonardo da Vinci was persistent in his idea that the human body could produce enough energy to power a flying machine.



































to













Leonardo da Vinci's sketches show different flying machines operated by a pilot using various power mechanics – some powered by legs, some by legs as well as arms, and others even with rudders connected to the pilot's head.






















































































































































































Leonardo da Vinci was inspired and fascinated by winged animals while studying the possibilities of human mechanical flight, and he hoped to replicate these animals' movements with his inventions.















The model was designed so that the trigger can be activated in at least three different ways – on the stand, while held in one hand, and while held with two hands (one on the trigger, the other one holding the model).







One of the design challenges was to figure out where to place the trigger for the flapping function so that builders' hands don't interfere with any parts of the mechanism or strings.





6424674



2x 654126

0 10x 302426

2x

6509664

(Print) 9x 4109810

2x

6279875

00 1x 4198367

0.0

2x 6114987

0.0

7x 6178922

4x



8x





10x 6275806



6192309

2x

6147050



6x

302226

3x 300326

4x

3x

1x

2x

4x

6154860

2x 365926

2x

1x

1x

2x

4613153

6258904

4581280

6053077

6469445

6321745

1x 6562781

1x

6533639

4x 663626

1x 4180548

2x 346026

3x 4514845

1x 611226

1x 244526

1x

1x

6523326

6530674



300126

4560182





6x

6380634









1x



۲ 6x

0 1x

4x

B 2x 4179771

6x 6376461

eee 2x

> 1x 6281995

> > **15x** 4113917



2x

4x 6261357 4x 6251252 1x

4114026

11 2x 6060850

0000

6117975

8x

2x 4114084

2x

1x 6523327

00

2x

6013081

100 2x 6313611

4142865

6129995

6443061

6167923

4516055

Bres

6352222

Co

00



1x 4159739

2x



15x 6311104 1x 4114309

2x

6397561

1x 6122047



1x 6519042

1x 6522105



4234365

1x 6522097

101

1x



11x

00

8x

2x

1x

1x

1x

2x

6330148

6184880

6031821

6532367

6533185

6300320

6231386



4x 6186009



4615606



4x 6340118



2x 6523583



6359696



6315564



1x 6289366









1x 6353972





1x



Q LEGO.com/service













2x 6502370

11x

4

4x

8x

2x

6x

3x 4531751

8x

2x 6138664

2x 6063447

4211150

6472546

6503738

6397610

4221744

6149677







3x



6146858









2x 4595889



6261388

6415991

6534905

10x

1x

2x

6x

4x

6172636

6463591

6311441

3x 4211189

1x

4х

4x

4211190

4216668

6092566





4211201



6159763



8x 6516553



4221590



4211204



4x 4216945



2x 4271874



4223683



2x 4210636 00

4x 4211063



1x

1x



6178919

2x 6039479

2x 6308045

4x

6123814

2x

6118832



4629920



8x 6046943



1x 6273219



6x 6313874



.

1x

1

6x

6523324

6271165

6335328

6

2x

6265704

2x

4211807

2x

6471951

FREE

2x

4x

4x

1x

1x 4211805

1x

4535768

4211815

4211429

4211396

6266231

3

9

4x 6360043







YOU COULD	DU KÖNNTEST GEWINNEN	VOUS POURRIEZ GAGNER	POTRESTI VINCERE TU	PUEDES GANAR	轻松 <mark>获奖</mark>
Your feedback will help shape the future development of this product series.	Dein Feedback trägt zur Weiterentwicklung dieser Produktreihe bei.	Vos commentaires nous aideront à concevoir les futurs produits de cette gamme.	La tua opinione ci aiuterà a migliorare la creazione futura di questa linea di prodotti.	Tu opinión contribuirá al futuro de esta serie de productos.	您的反馈将有助 于我们在今后改 进本产品系列。
Visit:	Geh auf:	Visitez :	Visita:	Visita:	请访问:

LEGO.com/productfeedback

You also have the chance to win a LEGO® set.

Terms and conditions apply.*

Außerdem hast du die Chance. ein LEGO® Set zu gewinnen. Es gelten die Teilnahmebedingungen.*

Vous pourriez également gagner un ensemble LEGO®.

Des conditions s'appliquent.*

Hai anche la possibilità di vincere un set LEGO[®].

Termini e condizioni sono applicabili.*

También tienes la oportunidad de ganar un set LEGO[®].

您还有机会赢取 乐高®套装。

条款和条件 话用。*

Aplican términos y condiciones.*

*LEGO.com/productfeedback-terms



LEGO and the LEGO logo are trademarks of the LEGO Group. ©2025 The LEGO Group.