

Obtaining the Parts for Your Own DIY Rotating Tank

The parts used to build the DIY Rotating Tank can all be purchased online from shop.lego.com and other retailers. This document lists the necessary components and describes how to order them. Prices and links reflect time of writing (July 6th, 2019).

Required components

OXO Turn Table



Search google.com for the 'OXO Softworks 16" Turn Table' or use the following link. Purchase 1 turn table.

From amazon.com -> \$17.99 each

<http://a.co/16P3tM1>



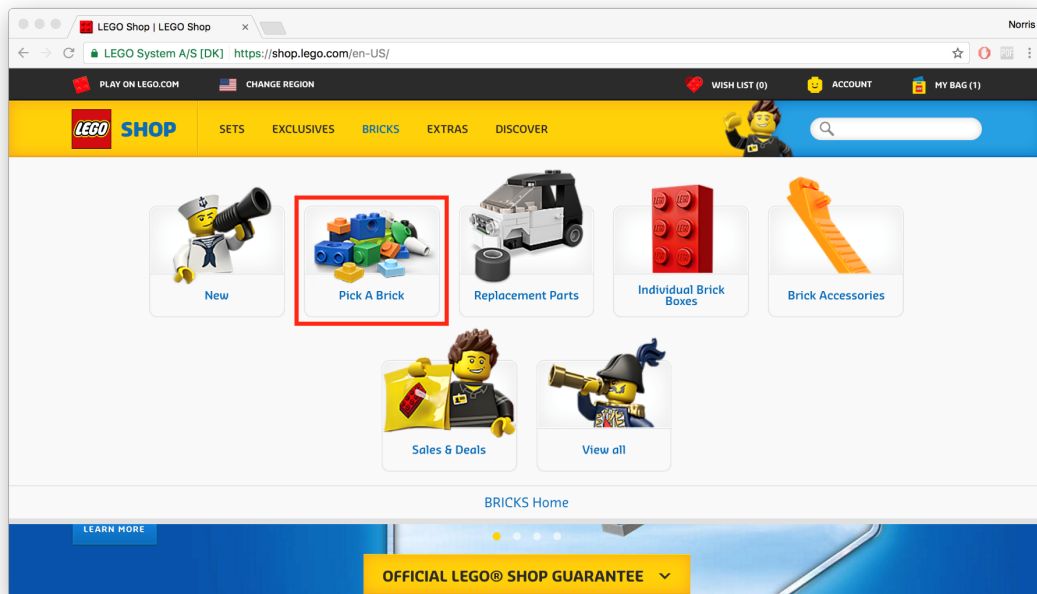
LEGO Power Functions Components

Picture	Part Name	Link	Quantity
	LEGO® Power Functions XL-Motor	https://tinyurl.com/legoxlmotor	1 (\$9.99 each)
	LEGO® Power Functions Battery Box	https://tinyurl.com/legobattery	1 (\$6.99 each)
LEGO Power Functions Cost			\$16.98

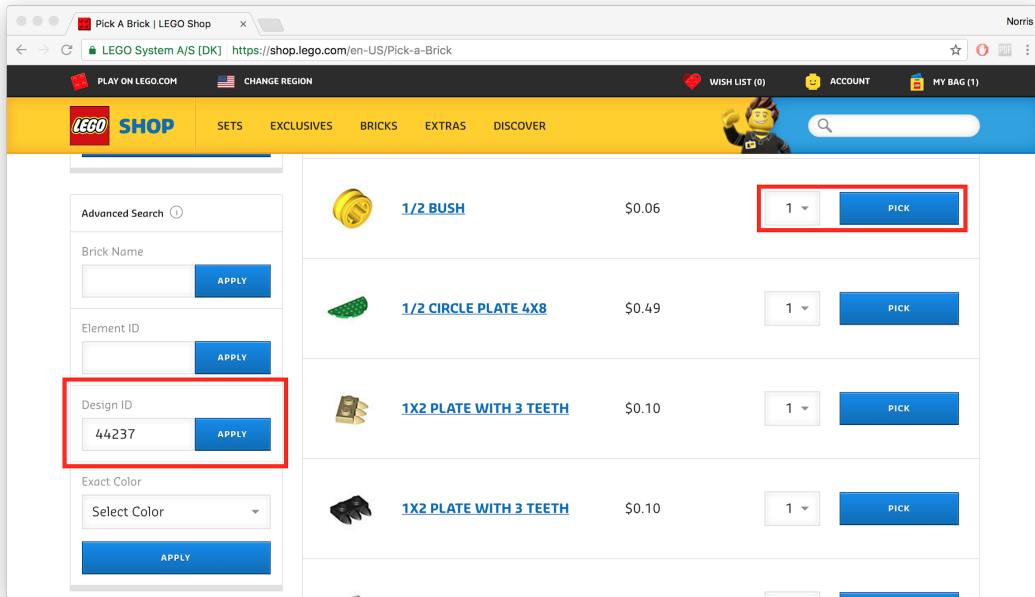
LEGO Pick-a-Brick Components

To find and purchase LEGO parts for structure





- go to the Pick-a-Brick section of the <https://shop.lego.com/en-US/> website




- scroll down to the 'Advanced Search' box and input the following Design ID codes into the appropriate search bar



- select quantity of parts using the box adjacent to the “Pick” box

Picture	Part Name	Design ID	Quantity
	Brick 2x4	3001	6 (\$0.21 each)
	Plate 2x4	3020	3 (\$0.14 each)
	Plate 4x4	3031	2 (\$0.21 each)
	Plate 6x10	3033	1 (\$0.86 each)

	Technic Brick 1x10	2730	1 (\$0.43 each)
	Technic Brick 1x6	3894	1 (\$0.30 each)
	Angle Plate 1x2 / 2x2	21712	4 (\$0.12 each)
	Cross Axle 5M	32073	1 (\$0.13 each)
	1/2 Bush	32123	2 (\$0.06 each)
	Connector Peg with Friction	2780	4 (\$0.06 each)
	Rim Wide 18/14 with Cross	55982	1 (\$0.22 each)

	Tyre Normal Wide 4x14	92402	1 (\$0.71 each)
LEGO Pick a Brick Cost			\$5.59

Required components total cost: \$40.56

Tank options

There are two main options for the tank that sits on top of the Lazy Susan and holds the water that you'll use to visualize the fluid flows:

1. Gardener's edge 12" clear plastic pot saucer:
<https://www.gardenersedge.com/12in-clear-plastic-pot-saucer/p/PTD-12/>. \$1.99. Cheap and big, but note that the side walls are not totally rigid. It always holds its shape during demonstrations, but this makes filling it and emptying it more difficult.





2. Royal Imports Flower Acrylic Vase, 5" cylinder x 5" tall:
<https://smile.amazon.com/dp/B016V20GG8/>. \$10.99 on Amazon. Smaller than the Gardener's Edge saucer and more expensive, but has rigid side walls that make it easier to work with.



Optional components

*Optional components provide the ability to change speed of rotation.
Purchase the following components in addition to required components.*

LEGO Power Functions Components

Picture	Part Name	Link	Quantity
	LEGO® Power Functions IR Speed Remote Control	https://tinyurl.com/legoremote	1 (\$12.99 each)
	LEGO® Power Functions IR Receiver	https://tinyurl.com/legoreceiver	1 (\$14.99 each)
LEGO Power Functions Cost			\$27.98

**Required + optional components total
cost: \$68.54 (not including the tank)**