

# ROBOBRUSH

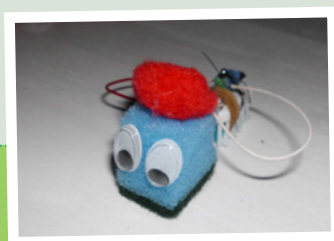


Sweeping up a mole hole is hard work. So, I have built myself a mini household robot. It doesn't do a really great job, but it does it all by itself! You can make your own Robobrush.

**YOU WILL NEED:** ▶ a vibration motor with two cable connections. You can get one on the Internet or you can make one out of an old mobile phone. ▶ a toothbrush with slanted bristles of the same length ▶ a small saw ▶ a 1.5-volt or 3-volt button cell battery ▶ a paper clip ▶ double-sided sticky tape ▶ insulating tape

1 Saw the head off the toothbrush. 2 Put some double-sided sticky tape on the brush head. 3 Bend open the paper clip and stick it on the brush head (do the same as in the picture). 4 Put a second strip of double-sided tape on the paper clip. 5 Fix the vibration motor on top of the tape and bend one of the cable connections downwards so that it also sticks to the tape. 6 Mount the button cell battery on the adhesive surface so that it rests on the cable that is bent downwards. 7 Now you just have to connect the other cable of the motor to the top of the battery. You can use insulating tape to secure the cable to the battery – and off you go.

If the paper clip sensor senses resistance, the Robobrush changes direction. But when your robot comes to the edge of the table, it will fall off because it has no sensors like a robot vacuum cleaner. Even if it did, it would still fall off the table. Think about what parts the robot still needs apart from the sensor.



I've spruced up my Robobrush. Send us a photo of your Robobrush by 18.11.2022 to [rudi@vdini-club.de](mailto:rudi@vdini-club.de). We will draw out a winner and give away this robot vacuum cleaner.



## VOCABULARY

<i>sweep up, to</i>	fegen
<i>mole hole</i>	Maulwurfbau
<i>cable connection</i>	Kabelanschluss
<i>slanted</i>	schräg
<i>bristle</i>	Borste
<i>saw</i>	Säge
<i>button cell battery</i>	Knopfzellenbatterie
<i>paper clip</i>	Büroklammer
<i>insulating tape</i>	Isolierband
<i>adhesive</i>	klebrig
<i>surface</i>	Oberfläche
<i>secure, to</i>	festmachen
<i>resistance</i>	Widerstand
<i>edge of the table</i>	Tischkante
<i>vacuum cleaner</i>	Staubsauger
<i>spruce up, to</i>	aufhübschen
<i>draw out, to</i>	ziehen

