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# The LEGO Power Functions Idea Book, Vol. 1



## Synopsis

This first volume of The LEGO Power Functions Idea Book, Machines and Mechanisms, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build sliding doors, grasping claws, rack-and-pinion mechanisms, and ball-shooting devices of every sort! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of simple machines, gear systems, power translation, and more.

## Book Information

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## Customer Reviews

My son loves this series. There is no text in the book but the chapters are divided by function. Very useful book for young lego builders age 4-8. such big and beautiful pictures. we have two books in this series.

If building (or learning about) simple motorized Lego models is your thing, this book will please you. Again, no words but a little more interesting than his Simple Machines book. You have to be rather visually/spatially oriented to reproduce his designs, since he just gives a few views of the designs--no stepwise building instructions.

With sets like EV3, NXT, and Technic, youâ™ll have ample opportunities to help your LEGO-loving child transition from simple kid sets to more complex robotic sets. And this is a good thing, especially if your child wants to be an engineering or scientist when they grow up. My son has thoroughly loved his advanced sets from LEGO Education, and he uses the parts every week. But even with all these Technic and robotic pieces at hand, a child can eventually run out of ideas for new things to build. What to do then? Buy this guide!! The legendary Yoshihito Isogawa has written two new books, The LEGO Power Functions Idea Book, Vol. 1 and The LEGO Power Functions Idea Book, Vol. 2, to guide you in your LEGO Technic adventures. It may take years for a kid to get through both books! LEGO Power Functions Idea Book volume 1 contains 316 pages of high quality images and instructions to teach you all about machines and mechanisms, while volume 2 is equally gorgeous with 318 pages all about cars and contraptions.

Most lego books instruct on how to build a thing. Yoshihito Isogawa teaches engineering which happens to use legos. The lack of words may have gone a bit too far, but overall it's a great effect and puts the focus on the example creations.

This is (at least) our third LEGO book by Isogawa. His books are great design aids for LEGO builders. My son loves LEGO building and has gotten more into Technics and Mindstorms in the last year, so he's already starting to use the ideas in this book for creations involving power functions.

Magnificent book. Half fool of projects that can be easily made and cause great gaming feeling. Good pictures, few special pieces. My only problem is that the first half of the book is not interesting. It shows easy projects like how to gear down or gear up.

My 11 year old son loves this book, which has thick pages and is full of color photos. There are so many creative ideas in here, which he can not only copy but also use as a springboard for his own creations. There even is a parts list in the back, which shows the max number of each individual

part needed to build any of the creations from the book. My son will be working hard to earn money for more Lego Technic parts, but also can be creative in coming up with substitutes for what he doesn't have.

Great resource! Lots of great ideas and opportunities for my students to learn much about construction. Years worth the material for before/after school clubs.

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