BUILDING WITH LEGO



What my parents think I do



What my friends think I do



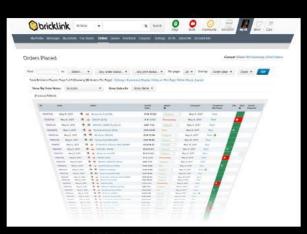
What society thinks I do



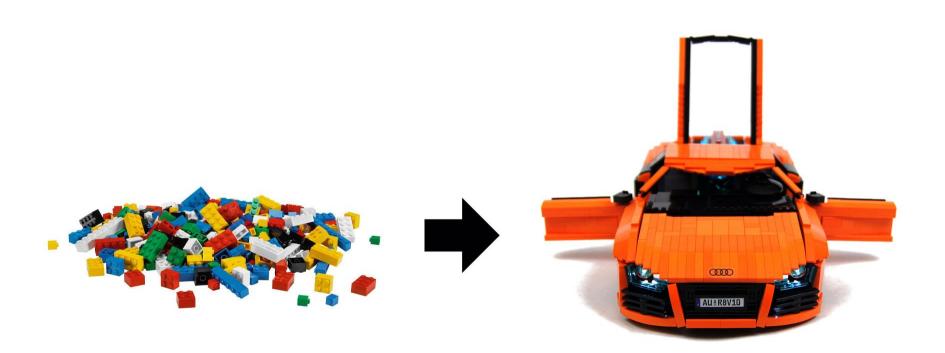
What the Lego company thinks I do

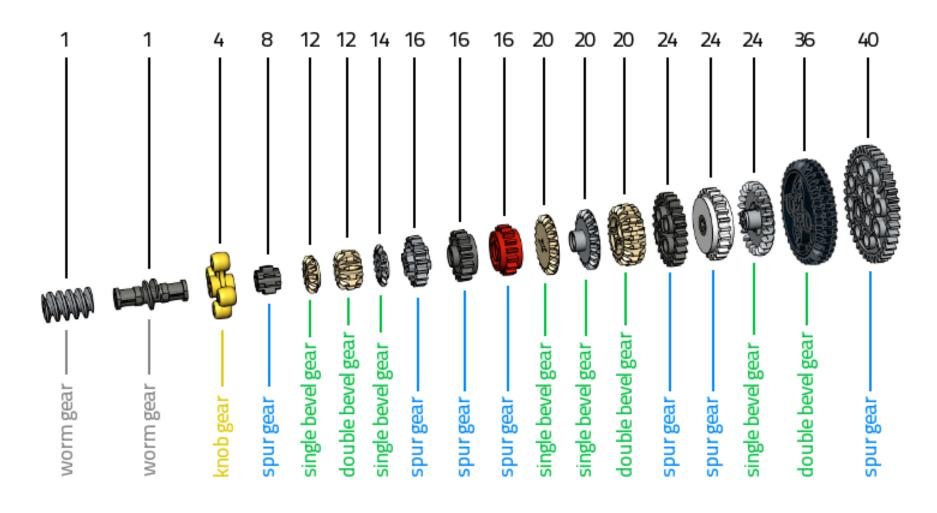


What I think I'm doing



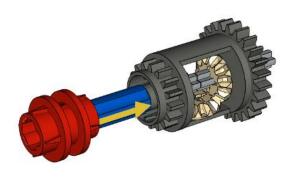
What I actually do















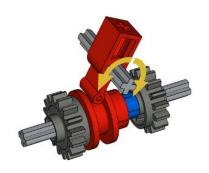


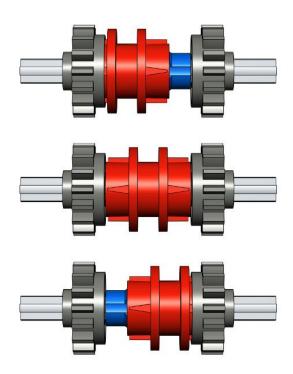


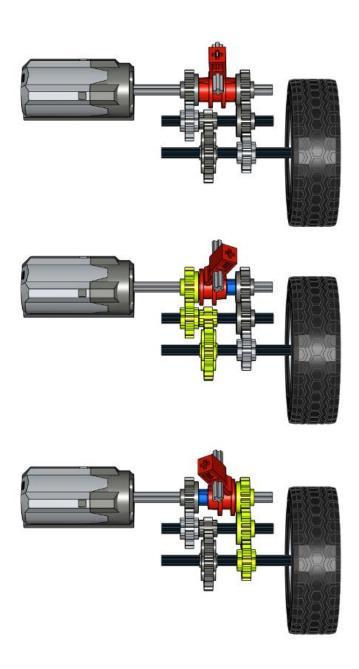


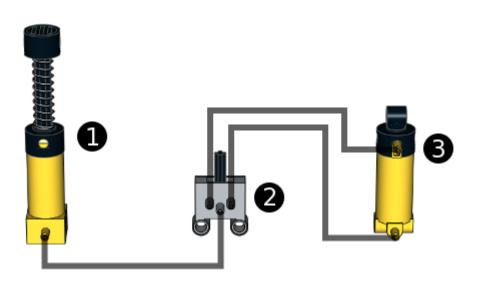


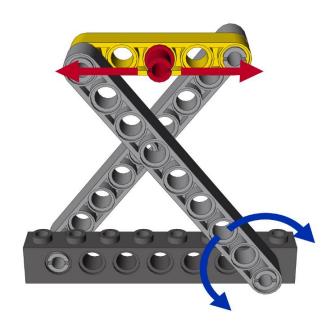




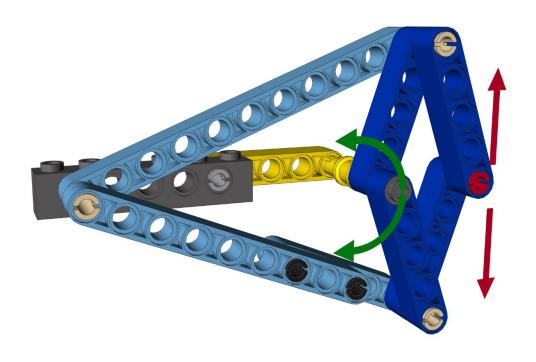




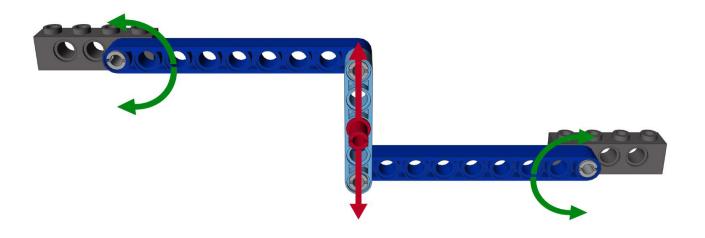




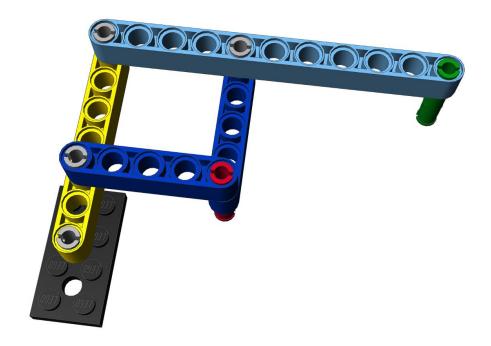
Chebyshev linkage



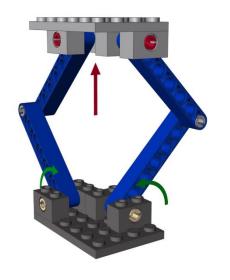
Peaucellier-Lipkin cell



Watt's linkage



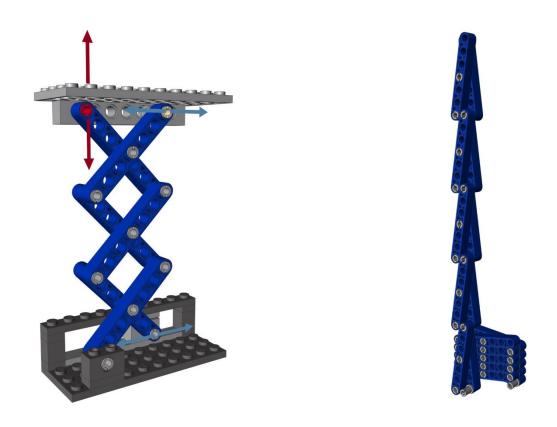
Pantograph



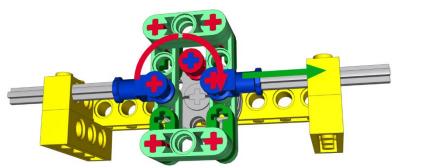


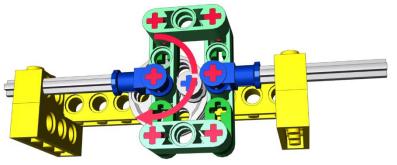


Sarrus linkage

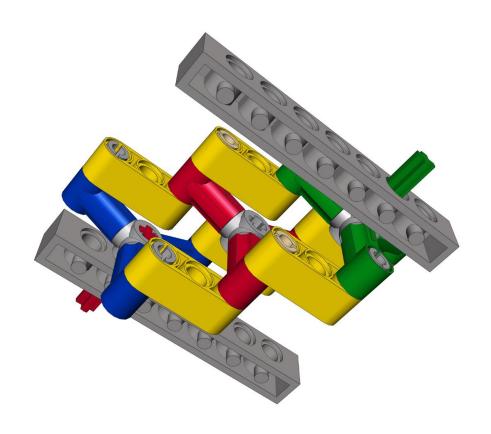


scissor linkage

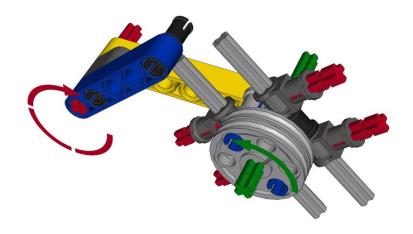




Scotch yoke

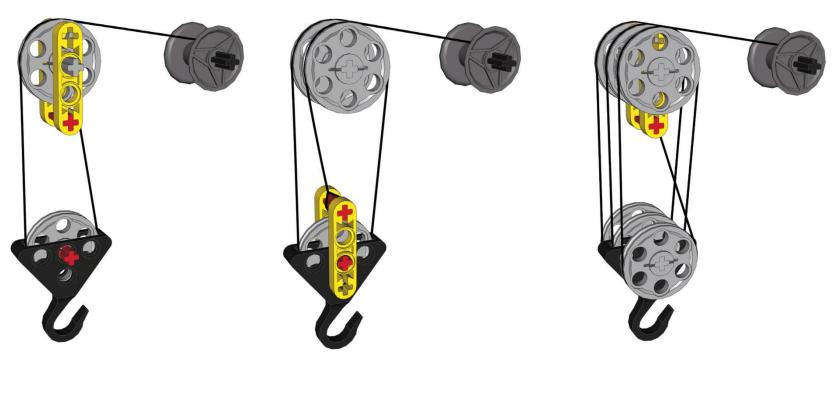


Schmidt coupling

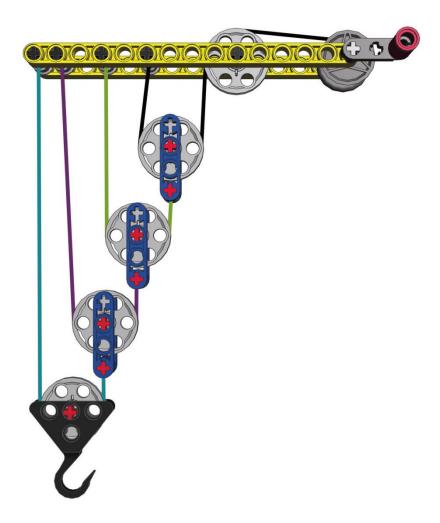


Geneva mechanism

Pulleys:



Gun tackle Luff tackle Threefold purchase



Power pulley system

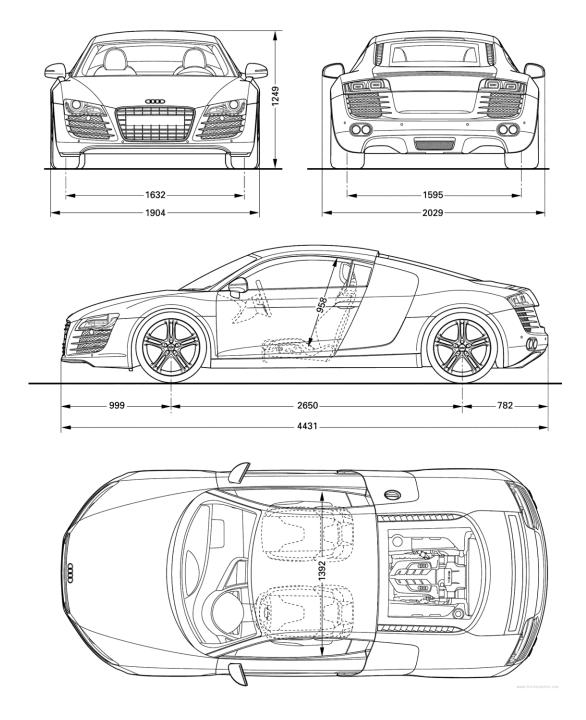


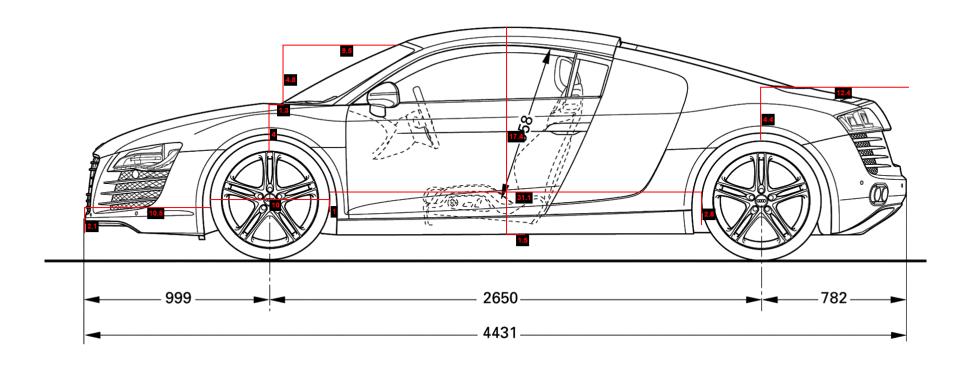
$$ma = (2 \times R) / (R - r)$$

$$(2 \times 2) / (2 - 1) = 4 / 1 = 4$$

Differential pulley system (AKA Chinese windlass)





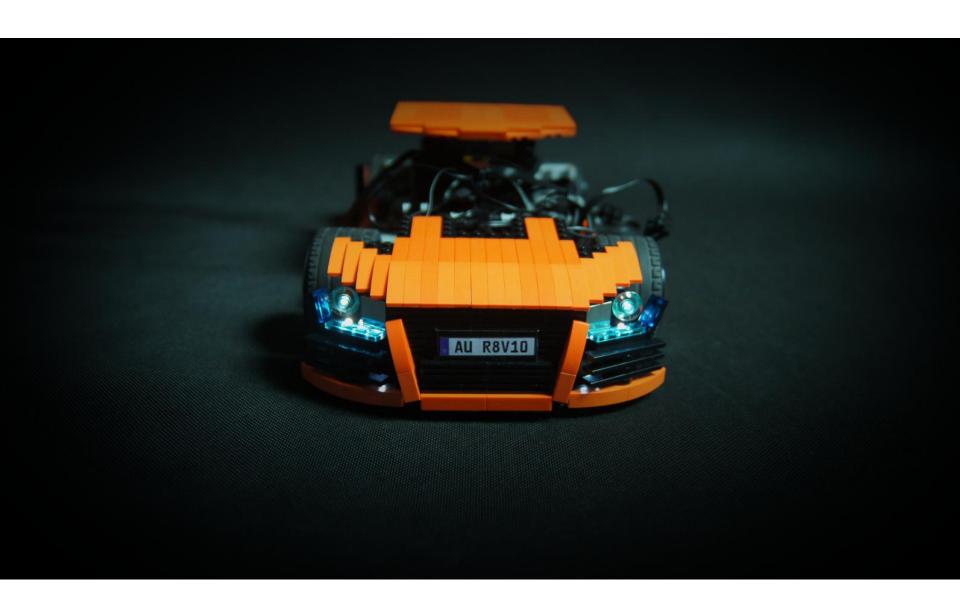


scaler.sariel.pl

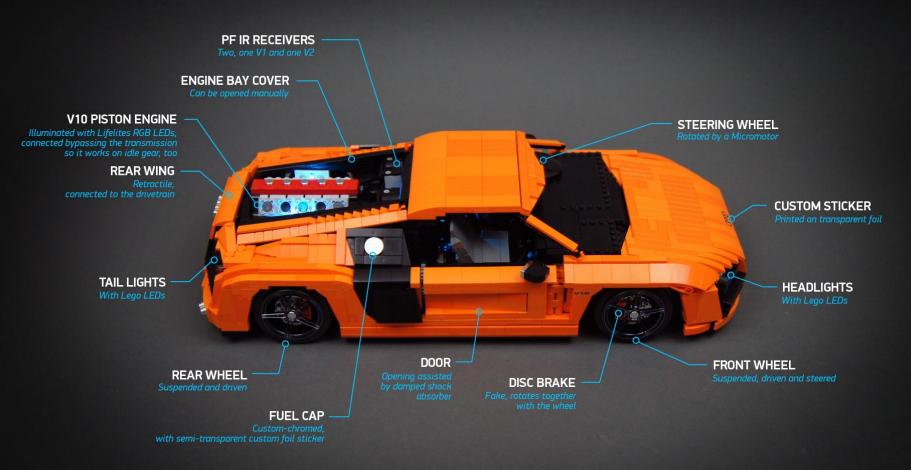






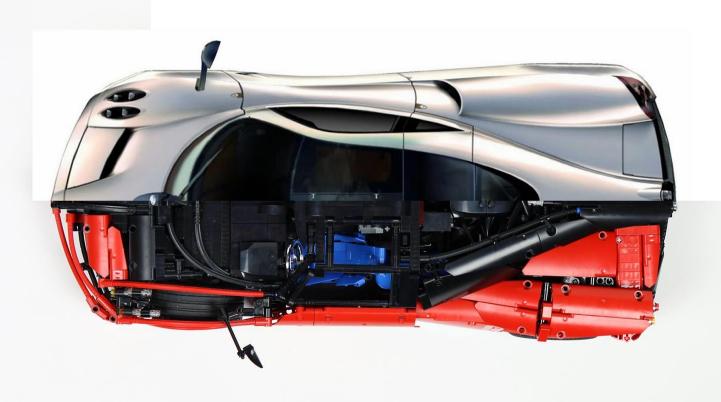














Working, with working turn signals and reverse lights

REAR WHEELS

With independent suspension, drive and pneumatic brakes

FRONT WHEELS

With independent suspension, steering and manually adjustable caster angle

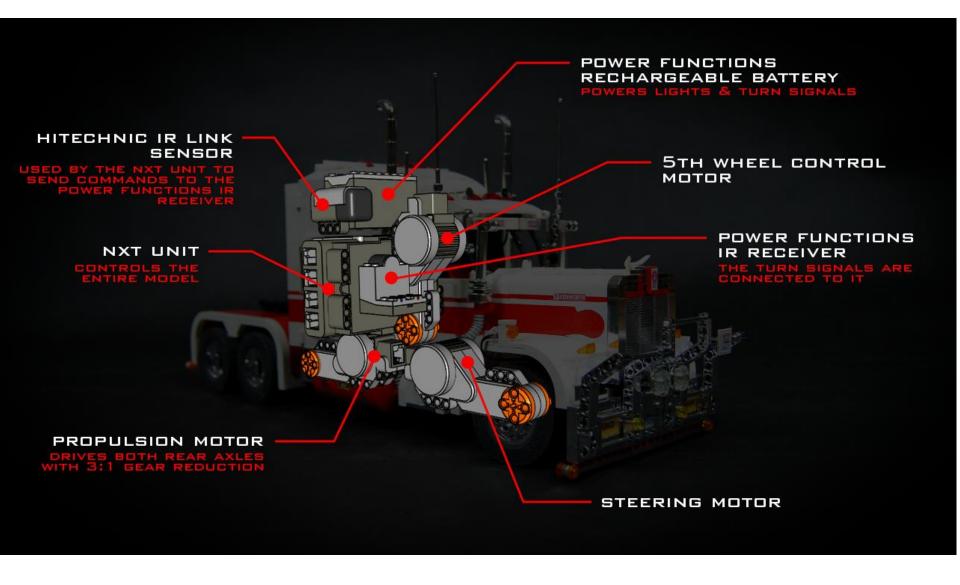




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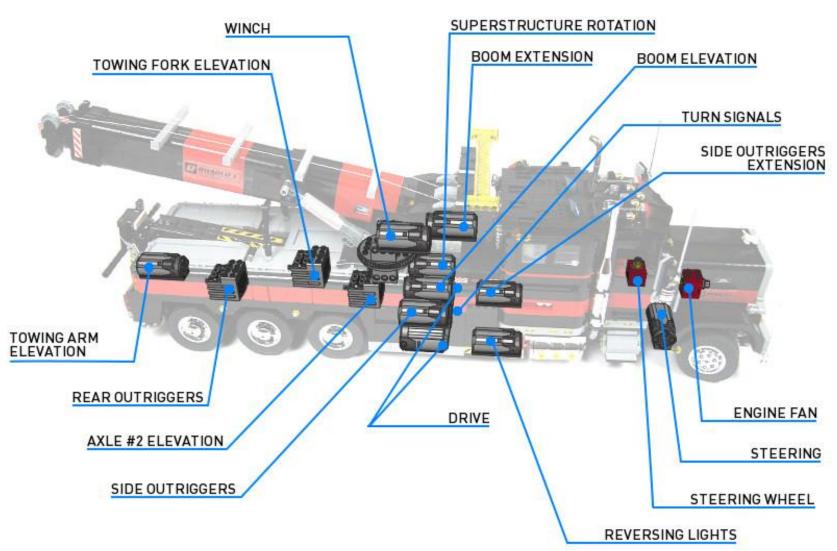
DESIGNED BY SARIEL 2012 | MORE AT SARIEL.PL | AVAILABLE AT YOUTUBE AS "LEGO MOTORIZED KENWORTH ROAD TRAIN"

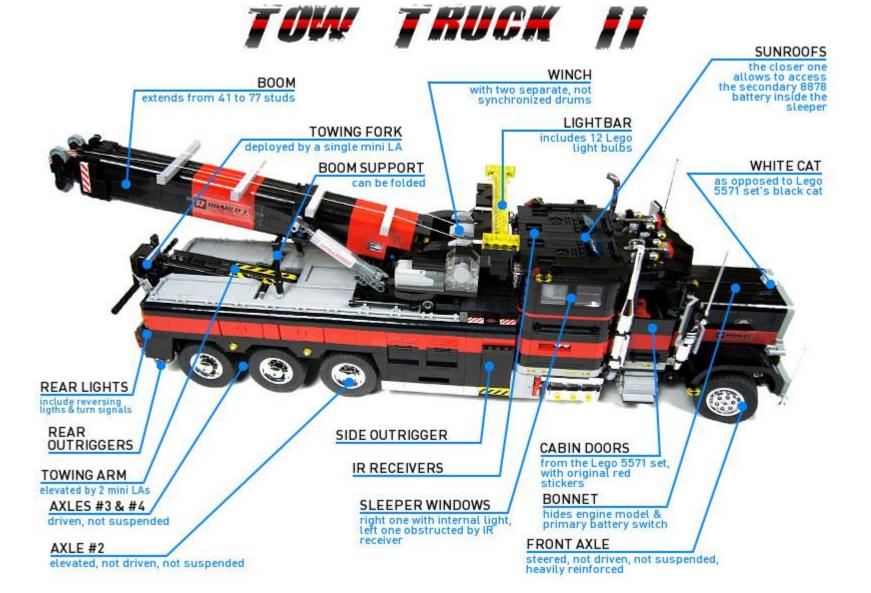
























































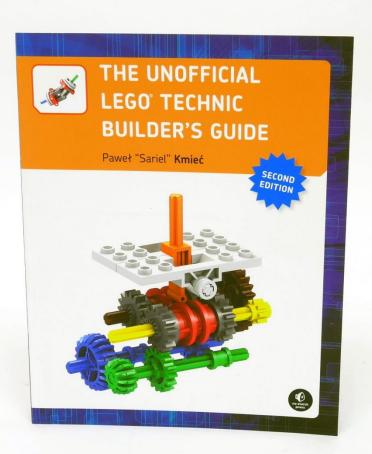








Sariel's LEGO Workshop



NOW 424 PAGES LONG

25 CHAPTERS COVERING:

- » characteristics of LEGO motors
- » Power Functions and RC system
- » gear wheels and gear ratios
- » levers and linkages
- » suspensions and transmissions
- » LEGO pneumatics
- » studless and studfull building
- » reinforcing your construction
- » scaling your models

AND MORE!