

Morphun®

# GearPhun starter

## GEARPHUN STARTER RANGE

Creative and Imaginative Play  
and Study with Morphon  
Gearphun Construction Systems



AGE 4yrs+



This exciting new product range started full production in September 2016. UK patent has been granted, and many other countries are being applied for.

**WARNING:**  
CHOKING HAZARD - Small parts.  
Not suitable for children under 3 years.



# GearPhun starter

The Morphun Gearphun education system is designed to be strong, durable and flexible in use. It has been launched with a 'Starter' range of in-class and in-home instructions, with work cards suitable for graded activities ages 4-8, that will be fun and rewarding to complete.

A further range of sets with more challenging 'Junior' work-cards for ages 6+ will be available late in 2016. A 'chain drive' gears set with all new instructions and work cards will be launched in early 2017.



## Key Learning Objectives:

- To explore the basic physics of movement and rotation including the effects of friction, creating power, and how simple machines need and use gears.
- Free play where the player or team makes his/her/their own gears systems and explores how they work.
- Developing team working, following instructions on how to construct a working mechanism.

The system is designed so that it compliments existing Morphun construction sets and will work with future Morphun products. Having so many exciting new pieces, it offers greater flexibility for design and build than other gears sets.



## For Example:

- The gears can be engaged side-by-side, or at right angles to one another.
- There are 5 gear wheel sizes with 6, 8, 10, 12, and 15 teeth.
- There are 2 different gear wheels. Red & blue 'drive' wheels where the central hole has teeth. Green, Yellow or Black 'spinning' wheels where the central hole is smooth without teeth.
- Each gear is marked clearly with its number of teeth. This ensures that the teacher or student can find the right gear easily for each exercise, activity or model they are making.
- There is a hole in gear tooth one to make it easy to locate.
- The system meets the new STEM requirements. (Science Technology Engineering and Maths) and to encourage an interest in, and understanding of, simple through to more complex mechanisms and technology both in class and at home. All of course in a 'more fun' way.
- We provide a double ended, multi-use crank handle, which can also join together to make double length handles for greater leverage.
- A whole suite of instructions, work cards and a Guide Book are available. The high quality Morphun bound Guide Book has 48 pages of colour models.
- The amazingly versatile 5 and 25 hole, side joining or 90 degrees joining base blocks offer more flexibility of design are more advanced than any other system we have seen.





# GEARPHUN STARTER SETS



**11020 B Gearphun Starter 200 Set.**  
Set of 4 Instruction Sheets and a set of 16 Work Cards.

**11020 B set is for 5 children to work with, making any 1 model from the instruction sheets.**



**11040 PL Gearphun Starter 400 Set.**  
Set of 10 Instruction Sheets and 2 sets of 16 Work Cards.



**11060 SD Gearphun Starter 600 Set.**  
Set of 10 Instruction Sheets and 3 sets of 16 Work Cards.

**11040 PL and 11060 SD sets also make any model in level 5 instructions.**



**LT289 48 Page Gearphun Guide Book.**

**Each set can make any model from the Gearphun Guide Book**





**New Gearphun  
Instruction Levels  
Available 2017**

**AGE 4yrs+**

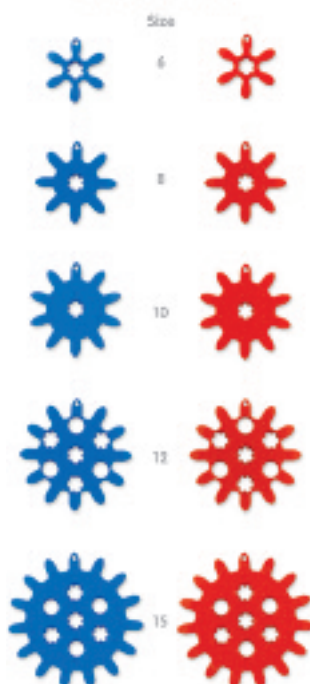


**Gearphun sets are supplied with a selection of instructions levels 1 to 5**

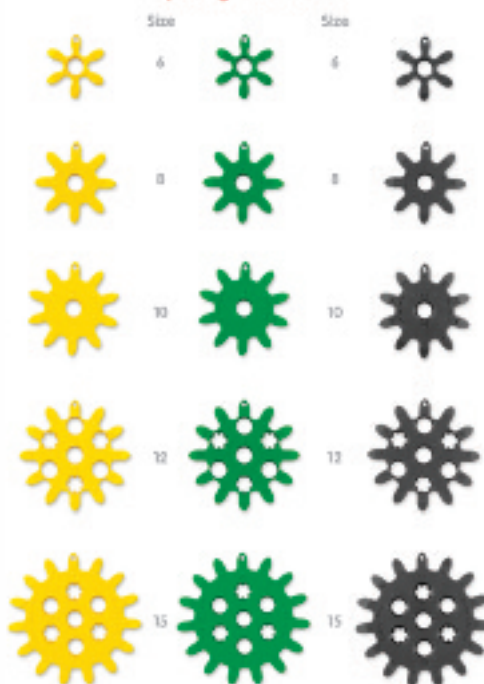
Gearphun instructions start with a simple level of difficulty which rises at each level, this increases the learning challenge and design potential.

## Gearphun starter

### Drive Gear Wheels



### Spinning Gear Wheels



### Other Pieces



Made in Europe to British patented designs and under British quality supervision and management. The gears are high quality with the Morphun Hi-Q 5 year guarantee. Full details on our website at [www.morphun.com](http://www.morphun.com)



FREE Gearphun Videos and Games on our interactive site at [www.morphun.education](http://www.morphun.education)



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All Products are EN71 CPSIA and ASTM tested. Colours may vary. Patents applied for or granted.  
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All products have 5 year Hi-Q guarantee - see website [www.hi-q.org.uk](http://www.hi-q.org.uk) for details.



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