

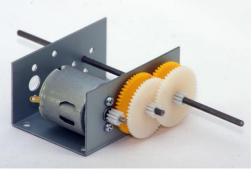
SCORPIO TECHNOLOGY OVERVIEW-MULTI RATIO GEARBOX

MULTI RATIO GEARBOX KIT V2 (Code: GMULTI)

DESCRIPTION

The *MULTI-RATIO GEARBOX V2 Kit* provides a choice of 4 gear ratios to choose from. There are also two motor options available (which must be purchased separately).

Additional ratios can be added by using more of the yellow gears.



LEVEL: SKILL DEVELOPMENT:

- IntroductoryManufacturing
- Mechanical

WHAT'S IN THE KIT?

- □ All the mechanical components and the motor required to make one of the 4 gearbox ratios
- □ A detailed teaching unit with a complete parts list and assembly diagram for each of the possible gear ratios.



WHAT ELSE IS NEEDED?

The following material is to be supplied by the student / teacher:

- □ Standard Motor (MOT17) or High Power Motor (MOT30)
- □ Additional spur gear 50T/10T yellow 2.6mm hole, to create fifth, sixth etc. ratios.
- □ Block of wood to support the motor at the assembly stage. At least 25mm thick, that holes can be drilled into.

TOOLS REQUIRED

The following tools are required:

REQUIRED TOOLS	ORDERING CODE
Small Hammer (Claw or Cross pein)	HAMMERCL / HAMMERCP
Phillips screwdriver #1 point	SCREWDRPH1/80
Mini Bolt Cutters (200mm)	BOLTCUTM

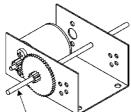
ABOUT THE PROJECT

The gearbox is designed to be part of a larger project. Defining that project will allow the designer to determine which of the 4 gearbox speeds will be used, as well as whether the axle shaft will be two sided (such as for a vehicle's rear axle) or single sided (such as a windmill), and what the length either side needs to be.

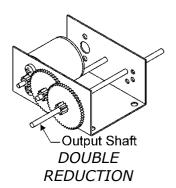


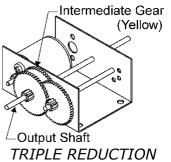
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These are the available ratios – one must be selected:



-Output Shaft SINGLE REDUCTION (Low ratio = high Output speed)





FOURTH REDUCTION (High ratio = low Output speed)



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