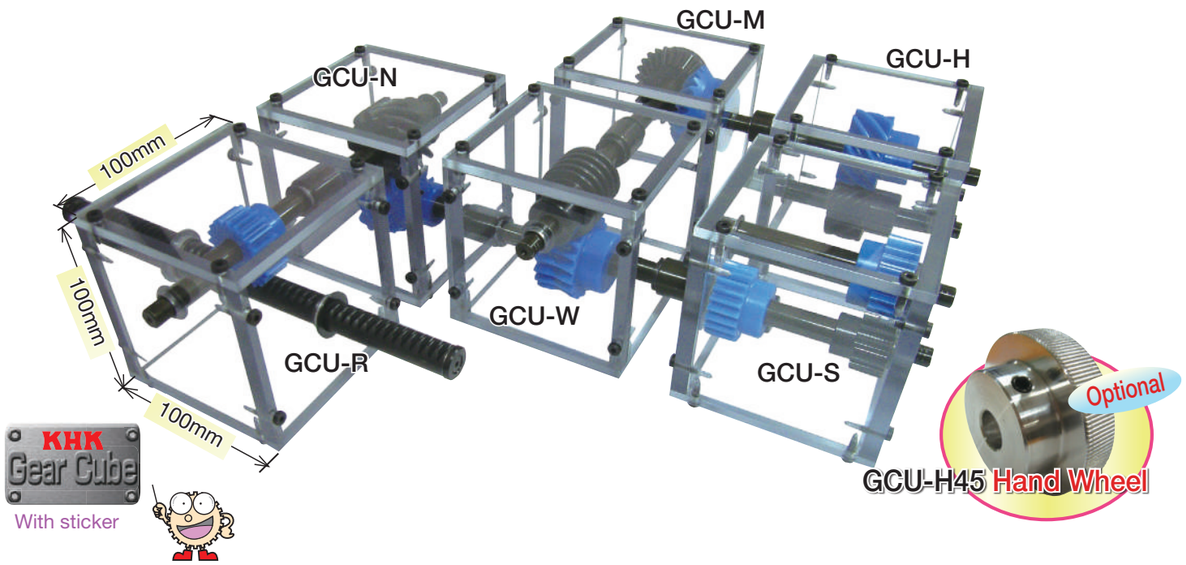
See the gears with your own eyes and move them with your own hands to learn about their mechanisms and characteristics.



* These kits are not for actual use to transmit power. Please use only as representations of gear systems.

■ Features of GearCube

- Assembly kits can be connected flexibly.
- The frame is made of polycarbonate with high transparency and impact resistance.
- Gears combine MC nylon and metal, making lubrication unnecessary.
- An instruction manual is included, enabling easily assembly by anyone.

KAWAGUCHI i-mono

This product is certified by KAWAGUCHI i-mono i-waza

Assembly Procedure

Details are available on the Japanese website

Photo shows GCU-R

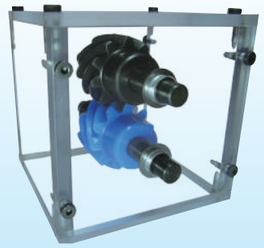
All six types of assembly kit and input/output shafts can be connected.

GCU-S Spur Gear Kit

Installation: Parallel Axes (Two-stage)
Gear Type: Spur Gear
Used Product: 2 units of SS1.5-16
2 units of PS1.5-22
Gear Ratio: 1.89
Weight: Approx. 1kg

The Gear Kit contains a two-stage spur gear train and allows speed increases / reductions, and includes the most commonly used combinations of gears.

GCU-H Helical Gear Kit



Installation: Parallel Axes
Gear Type: Helical Gears (also for Screw Gears)
Gears: SN2.5-10L
PN2.5-10R equivalent
Gear Ratio: 1
Weight: Approx. 1kg

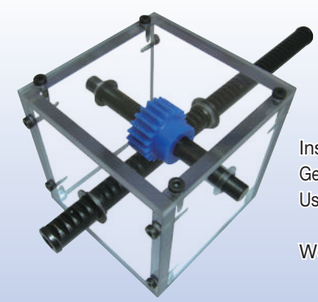
Helical gears have more strength than spur gears of the same dimensions and have the advantage of being less noisy.

GCU-M Miter Gear Kit

Installation: Intersecting Axes
Gear Type: Miter
Gears: SM2-25
PM2-25
Gear Ratio: 1
Weight: Approx. 1kg

The shaft angle of bevel gears can be changed by 90°.
It is used to change the direction of the power.

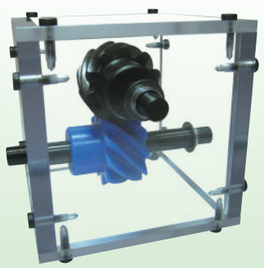
GCU-R Rack Kit



Installation: Parallel Axes
Gear Type: Racks & Pinions
Used Product: SRO1.5-500
PS1.5-20
Weight: Approx. 1kg

Racks can be used to convert rotation to linear. They are used for elevating devices, etc.

GCU-N Screw Gear Kit



Installation: Nonparallel and nonintersecting gears
Gear Type: Screw Gears
Gears: SN2.5-10R
PN2.5-10R equivalent
Gear Ratio: 1
Weight: Approx. 1kg

Screw Gears are helical gears used in nonparallel and nonintersecting situations. Applications include devices like conveyers with light loads.

GCU-W Worm Gear Pair Kit

Installation: Nonparallel and nonintersecting gears
Gear Type: Worm Gear Pair
Gears: SW2-R1
PG2-20R1
Gear Ratio: 20
Weight: Approx. 1kg

Large deceleration can be made in one step. The worm gear cannot be driven by the worm wheel due to inherent self-locking.