

# A Information

## Product Coding System

### AC Motors

- Motor**
- I** : Induction Motor
  - R** : Reversible Motor
  - B** : Brake Motor
  - CI** : Clutch & Brake Motor
  - T** : Torque Motor
  - S** : Speed Control Induction Motor
  - SR** : Speed Control Reversible Motor
  - SB** : Speed Control Brake Motor
  - CS** : Speed Control Clutch & Brake Motor

#### Phase & Voltage

- 1** : 1Ø AC 110V 60Hz
- 2** : 1Ø AC 220V 60Hz
- 3** : 3Ø AC 220V~230V 50/60Hz
- 4** : 3Ø AC 380V~400V 50/60Hz
- 5** : 3Ø AC 415V~440V 50/60Hz
- 6** : 3Ø 220/380V 60Hz
- 7** : 3Ø 230/400V 50Hz
- 8** : 3Ø 440V 50Hz/60Hz

#### 'Thermal Protector' Attached

- A** : 1Ø AC 110V 60Hz
- D** : 1Ø AC 220V 60Hz
- E** : 1Ø AC 220~240V 50Hz
- G** : 3Ø AC 220V~230V 50/60Hz
- K** : 3Ø AC 380V~400V 50/60Hz
- L** : 3Ø AC 415V~440V 50/60Hz

#### Fan Type

- F** : General Fan (Self-ventilation)
  - F2** : Powerful Fan (Forced ventilation)
- Powerful fan makes powerful cooling performance rotating in high speed regardless of motor shaft speed.
- No Mark** : No Fans

#### Connection Type

- T** : Terminal Box Type
- C** : Connector Type (Speed Motor)
- No Mark** : Lead Wire Type

#### Pole



- A** : 2 Pole
- No Mark** : 4 Pole

**9 I D G A - 90 F P - A T**

#### Brand

- D** : DKM

#### Output Shaft Type

- G** : Gear Type Shaft (Pinion Shaft for Attaching Gearbox)
- D** : D-Cut Type Shaft 
- K** : Key Type Shaft 

#### Motor Frame Size

- 6** : □60mm sq. (2,36 in. sq.)
- 7** : □70mm sq. (2,76 in. sq.)
- 8** : □80mm sq. (3,15 in. sq.)
- 9** : □90mm sq. (3,54 in. sq.)
- 10** : □104mm sq. (4,09 inch sq.)

#### Output

- 6** : 6W
- 10** : 10W
- 15** : 15W
- 25** : 25W
- 40** : 40W
- 60** : 60W
- 90** : 90W
- 120** : 120W
- 150** : 150W
- 180** : 180W
- 200** : 200W
- 250** : 250W (E)
- 300** : 300W (D, 7, 8)
- 400** : 400W (6)

#### Attaching Gearbox

- G** : General Box Type (6W~40W)
- P** : Powerful Box/Flange Type (40W~120W)
- H** : High Powerful Box/Flange Type (60W~200W)
- U** : Ultra Powerful Box Type (250W~400W)
- W** : Worm Solid Type (15W~120W)
- WH** : Worm Hollow Type (030/040) (60W~400W)
- HC** : Helicross Gearbox (90/104mm) (90W~400W)
- No Mark** : Without Gearbox

### DSY Series

#### Frame Number

- 20, 25, 30

#### Gear Ratio

- 7.5, 010, ..., 060

#### Motor Output

- 010(0.1kW), 020(0.2kW), 040(0.4kW)

**DSY 20 B - 060 N 020 - 3**

- Gearbox Type**  
DSY Series

- Output shaft material**  
B(S45C), S(SUS)

- Motor**  
N (Induction)  
B (Brake)

- Voltage**  
3 : 220V 50/60Hz  
4 : 380V 50/60Hz  
5 : 440V 50/60Hz

### DC Motors

#### DC

- DC MOTOR

#### Output Shaft Type

- D** : D-Cut Type Shaft
- K** : Key Type Shaft
- G** : Shaft for General Type Gearbox(15W~120W)
- P** : Shaft for Powerful Type Gearbox(60W~120W)
- W** : Shaft for Worm Solid Type Gearbox(25W~120W)
- H** : Shaft for High Powerful Box/Flange Type Gearbox (200W)

**9 DC G 12 - 25 - 30**

#### Motor Frame Size

- 6** : □60mm sq. (2,36 in. sq.)
- 8** : □80mm sq. (3,15 in. sq.)
- 9** : □90mm sq. (3,54 in. sq.)

#### DC Voltage

- 12** : DC 12V
- 24** : DC 24V
- 90** : DC 90V

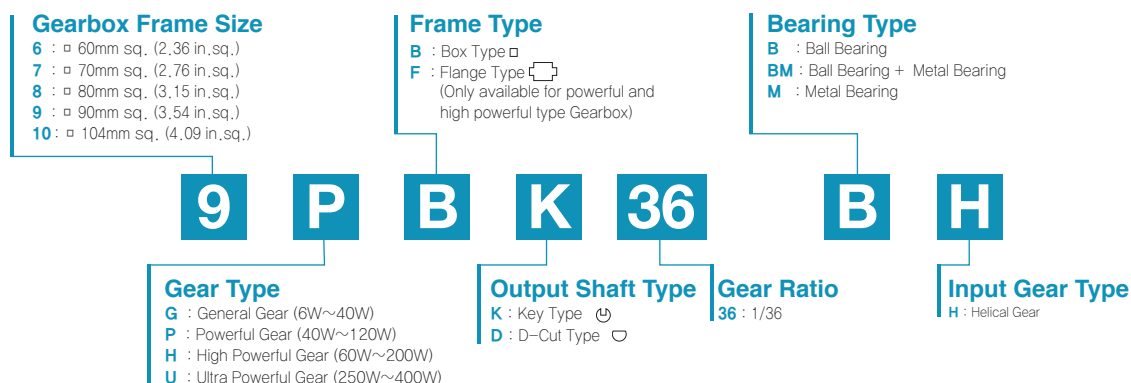
#### Output

- 15** : 15W
- 25** : 25W
- 40** : 40W
- 60** : 60W
- 90** : 90W
- 120** : 120W
- 200** : 200W

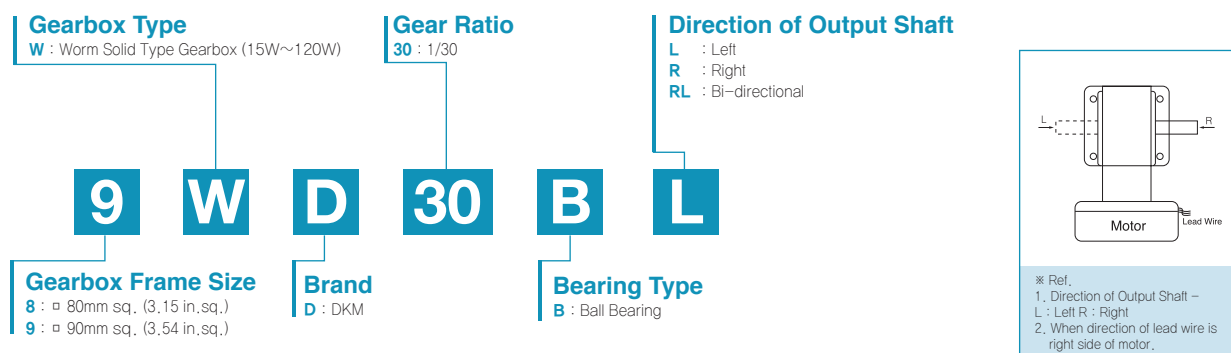
#### r/min

- 30** : 3000r/min

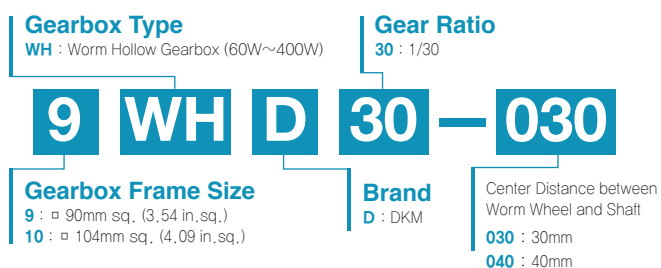
## Parallel Gearbox



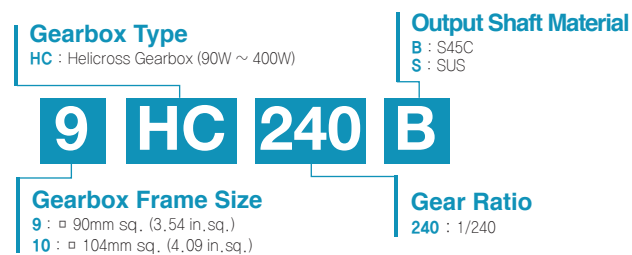
## Worm Solid Gearbox



## Worm Hollow Gearbox



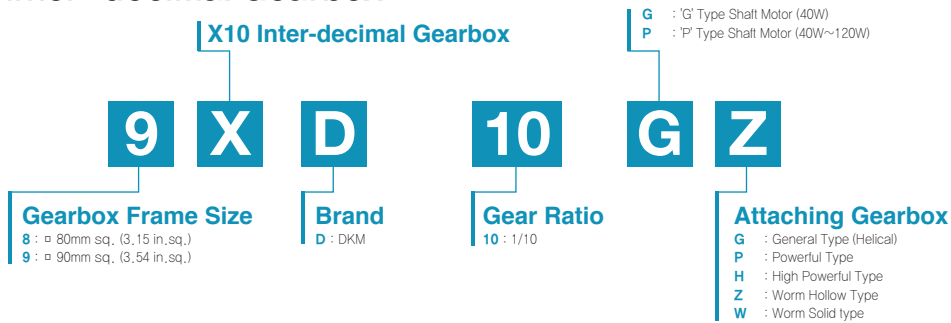
## Helicross Gearbox



# A Information

## Product Coding System

### Inter-decimal Gearbox

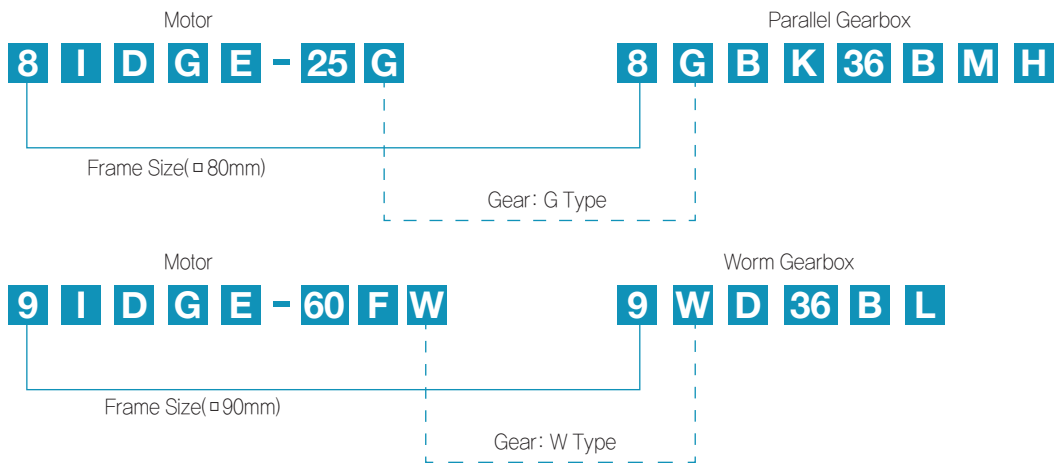


In case of requiring high gear reduction ratio that cannot be generated by single gearbox, please use inter-decimal gearbox with a general gearbox. And please be advised that in this case only revolution speed of output shaft will be reduced by 10:1 without increasing of maximum permissible torque.

### Assembly of Motor and Gearbox

#### Motor + Gearbox

- As shown in the following scheme, the motor and the gearbox which have same frame size and gear type could be assembled.



#### Motor + Inter-decimal Gearbox + Gearbox

- When using an inter-decimal gearbox together, give attention to the gear types of a motor, a gearbox and an inter-decimal gearbox.

