

## Gear Head

### ► Features

- Various types of gear heads are available.
- The X type is available in a metal bearing model and or a ball bearing type.
- The P type (90 mm sq. only) is high torque type : its maximum permissible shaft torque is 29.4 N · m (300 kgf · cm)
- 22 reduction ratios from 1/3 to 1/180 are available for the X type; 23 reduction ratios from 1/3 to 1/200 are available for the Y and Z types. When the decimal gear head (Reduction ratio : 1/10) is used, a reduction ratio of up to 1/1800 (1/2000 for the Y and Z types) can be attained.
- The X type and Z type of 90 mm sq. are available in right - angle type.

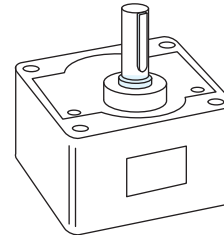
**Panasonic**



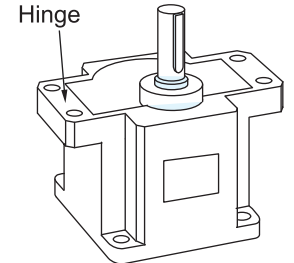
### ► Gear Type

- A** : 3 W or smaller / Hinge not attached (42 mm sq.)
- X** : 40 W or smaller / Hinge not attached
- Z** : 60 W or larger / Hinge not attached
- Y** : 60 W or larger / Hinge attached
- R** : 60 W or larger, High torque type / Hinge not attached
- P** : 60 W or larger, High torque type / Hinge attached

• Hinge not attached



• Hinge attached



### Gear Type and Reduction Ratio List

Gear Type	Motor Capacity	Hinge	Reduction Ratio																						
			1/3	1/3.6	1/5	1/6	1/7.5	1/9	1/10	1/12.5	1/15	1/18	1/20	1/25	1/30	1/36	1/50	1/60	1/75	1/90	1/100	1/120	1/150	1/180	1/200
A	3 W or Smaller	Not Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
X	40 W or Smaller	Not Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Y	60W, 90W	Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Z		Not Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
P		Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
R		Not Attached	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Right Angle	X	40 W or Smaller	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Z	60W, 90W	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

### ► Coding System

**M**   **X**   **9**   **G**   **30**   **B**   **A**

Output type   Size   Gear head   Reduction ratio   Bearing   Thin gear head

6 : 60 mm sq.  
7 : 70 mm sq.  
8 : 80 mm sq.  
9 : 90 mm sq.

(Example) 30 : Reduction ratio of 1/30

A : Applicable to 60 mm sq. and 70 mm sq. gear heads with a reduction ratio of 1/25 or smaller, Blank for others  
U : Gear head -inch (U.S.A.)

B : Ball bearing  
M : Metal bearing  
XB : Decimal gear head  
R : Right-angle gear head (90 mm sq.: Applicable to MX and MZ only)  
H : Gear head for C&B motor (Ball bearing)

\* The motor and gear are sold separately.

### Reduction Ratio

Size		1/3	1/5	1/10	1/12.5	1/15	1/20	1/25	1/36	1/50	1/100	1/180
60mm (40W)	Mfr's	MX6G3BA	MX6G5BA	MX6G10BA	MX6G12.5BA	MX6G15BA	MX6G20BA	MX6G25BA	MX6G36BA	MX6G50BA	MX6G100BA	MX6G180BA
	Number Price ♂	6K09 2581	6K09 2582	6K09 2583	6K09 2584	6K09 2585	6K09 2586	6K09 2587	6K09 2588	6K09 2589	6K09 2590	6K09 2591
70mm (40W)	Mfr's	MX7G3BA	MX7G5BA	MX7G10BA	MX7G12.5BA	MX7G15BA	MX7G20BA	MX7G25BA	MX7G36BA	MX7G50BA	MX7G100BA	MX7G180BA
	Number Price ♂	7K09 2581	7K09 2582	7K09 2583	7K09 2584	7K09 2585	7K09 2586	7K09 2587	7K09 2588	7K09 2589	7K09 2590	7K09 2591
80mm (40W)	Mfr's	MX8G3BA	MX8G5BA	MX8G10BA	MX8G12.5BA	MX8G15BA	MX8G20BA	MX8G25BA	MX8G36BA	MX8G50BA	MX8G100BA	MX8G180BA
	Number Price ♂	8K09 2581	8K09 2582	8K09 2583	8K09 2584	8K09 2585	8K09 2586	8K09 2587	8K09 2588	8K09 2589	8K09 2590	8K09 2591
90mm (40W, 60W, 90W)	Mfr's	MY9G3BA	MX9G5BA	MX9G10BA	MX9G12.5BA	MX9G15BA	MY9G20BA	MY9G25BA	MX9G36BA	MX9G50BA	MY9G100BA	MY9G180BA
	Number Price ♂	9K09 2581	9K09 2582	9K09 2583	9K09 2584	9K09 2585	9K09 2586	9K09 2587	9K09 2588	9K09 2589	9K09 2590	9K09 2591