

VIGO DRIVE™



**ISO 9001
JQA-1190**

GH High Precision Gearheads **SERIES**

Quick Selection Table of Product Code



FANUC Motors
FUJI Motors
MITSUBISHI Motors
Panasonic Motors
SANYO DENKI Motors
YASKAWA Motors

- A product code quick selection table for each motor model is provided in alphabetical order on the following pages
- This document is an appendix to the GH SERIES catalog.

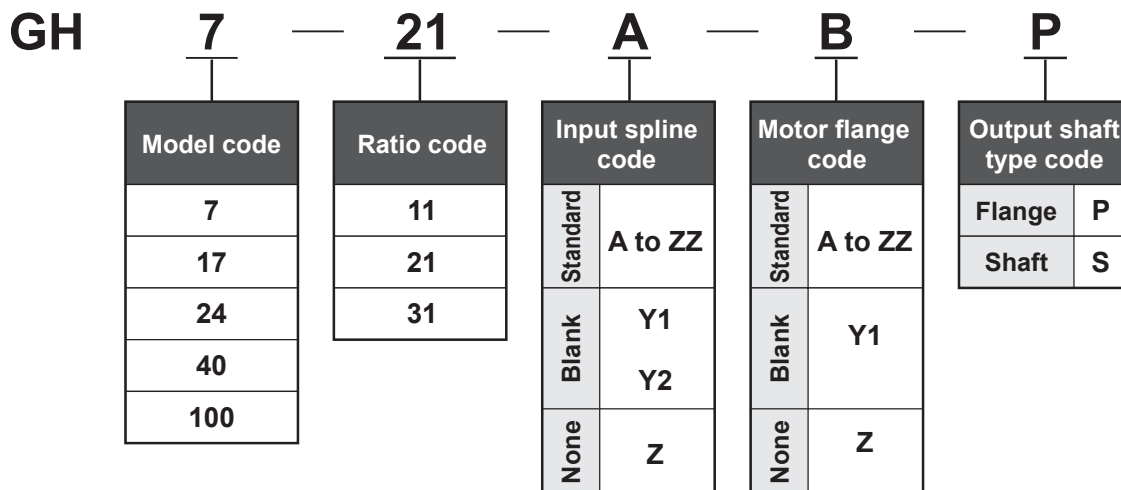
Nabtesco

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Product Code

When ordering or making an inquiry, use the following model code.



Quick Selection Table of Product Code

Product code when selecting the combination of the GH7 reduction gear (with a ratio code of 21 (ratio 21) and an output flange) and the a5000is motor (with a taper shaft 1/10)

1. Check that the point where “**Taper Shaft 1/10**” and ratio “**21**” intersect is circled.
2. The point where “**Taper Shaft 1/10**” and “**Input Spline**” intersect indicates the “**Input spline code**”. In the following example, it is “**AS**”.
3. The point where “**Taper Shaft 1/10**” and “**Motor Flange**” intersect indicates the “**Motor flange code**”. In the following example, it is “**AE**”.

In consequence of the above, the product code of the selected GH model is “**GH7-21-AS-AE-P**”.

Motor Model	Rated Power (kW)	Type of Motor Shaft	GH7					
			Ratio			Input Spline	Motor Flange	11
			11	21	31			
α 2/5000is	0.75	Taper Shaft 1/10		○				
		Straight without Key			A to ZZ			
		Straight with Key						
α 4/5000is	1.00	Taper Shaft 1/10		○				
		Straight without Key						
		Straight with Key						
α 8/4000is	2.50	Taper Shaft 1/10			H	A		
		Straight without Key			R	A		
		Straight with Key			AK	F		
α 12/4000is	2.70	Taper Shaft 1/10			H	A	○	
		Straight without Key					○	

- Note:**
1. Only the combinations that satisfy the following equation are circled.
 $\{ \text{Rated torque of motor} \times 0.5 < \text{Rated torque of reduction gear} / (\text{Speed ratio} \times 0.8) < \text{Rated torque of motor} \times 1.5 \}$
 2. Limitation must be imposed to the motor torque in the following case.
 $\{ \text{Momentary maximum torque of motor} > \text{Momentary maximum torque of reduction gear} / (\text{Speed ratio} \times 0.8) \}$
 3. The reduction gear should be selected so that the following equation is satisfied.
 $\{ \text{Momentary maximum torque upon emergency stop} < \text{Momentary maximum torque of reduction gear} \}$
 4. Matching verification between the reduction gear and the motor in the above quick selection table should be used as a reference, since they have been matched based only on the torque comparisons during operation of the reduction gear. For more precise motor selection, the effective torque, load inertia moment, brake torque, regenerative ability, and so forth, must also be considered.
 5. Regarding the input spline and motor flange with a blank cell, please contact us.
 6. The speed ratios shown in the above quick selection table indicate the speed ratio codes. For the precise speed ratios, see the “**Rating Table**” on page 4 of this brochure.

The logo consists of a dark gray rounded square containing a lighter gray circle. The text 'FANUC Motors' is centered within the circle in white.

**FANUC
Motors**

**Quick Selection Table of
Product Code**

The logo consists of a dark gray circle with a white-to-gray gradient, centered within a square frame that also has a white-to-gray gradient. The text 'FUJI Motors' is centered within the circle.

**FUJI
Motors**

**Quick Selection Table of
Product Code**

FUJI Motors

Motor Model	Rated Power (kW)	Type of Motor Shaft	Model Code														
			GH7			GH17			GH24			GH40			GH100		
			Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 21 31	Input Spline	Motor Flange
GY500DC1--*6B	0.05	Straight without Key															
GY510DC1--*6B	0.10	Straight without Key															
GY520DC1--*6B	0.20	Straight without Key															
GY537DC1--*6B	0.38	Straight without Key															
GY510DC1--*8	0.10	Straight without Key															
GY520DC1--*A	0.20	Straight with Key															
GY5401DC1--*A	0.40	Straight with Key															
GY5751DC1--*A	0.75	Straight with Key															
GY5102DC1--SA	1.00	Straight with Key															
GY5162DC1--SA	1.50	Straight with Key															
GY5202DC1--SA	2.00	Straight with Key															
GY5320DC1--SA	3.00	Straight with Key															
GY5402DC1--SA	4.00	Straight with Key															
GY5502DC1--SA	5.00	Straight with Key															
GY6101DC1--*A	0.10	Straight with Key															
GY6201DC1--*A	0.20	Straight with Key															
GY6401DC1--*A	0.40	Straight with Key															
GY6751DC1--*A	0.75	Straight with Key															
GY6102DC1--SA	1.00	Straight with Key															
GY6162DC1--SA	1.50	Straight with Key															
GY6202DC1--SA	2.00	Straight with Key															
GY6402DC1--SA	4.00	Straight with Key															
GYA162BC1--SA	1.50	Straight with Key															
GYA262BC1--SA	2.50	Straight with Key															
GYM292BC1--KC	2.90	Straight with Key															
GYM402BC1--KC	4.00	Straight with Key															
GYM562BC1--KC	5.50	Straight with Key															
GYM762BC1--KC	7.50	Straight with Key															
GYM113BC1--KC	11.00	Straight with Key															
GYM163BC1--KC	15.00	Straight with Key															
GYM500DC2--T2A	0.05	Straight with Key															
GY5101DC2--T2A	0.10	Straight with Key															
GY5201DC2--T2A	0.20	Straight with Key															
GY5401DC2--T2A	0.40	Straight with Key															
GY5751DC2--T2A	0.75	Straight with Key															
GY6501DC2--T2E	0.50	Straight with Key															
GY6751DC2--T2E	0.75	Straight with Key															
GYG102DC2--T2E	1.00	Straight with Key															
GYG162DC2--T2E	1.50	Straight with Key															
GYG202DC2--T2E	2.00	Straight with Key															
GYG501BC2--T2E	0.50	Straight with Key															
GYG851BC2--T2E	0.85	Straight with Key															
GYG132BC2--T2E	1.30	Straight with Key															
GYG182BC2--T2G	1.80	Straight with Key															
GYG292BC2--T2G	2.90	Straight with Key															

Note:

- Only the combinations that satisfy the following equation are circled.
{Rated torque of motor x 0.5 < Rated torque of reduction gear/(Speed ratio x 0.8)} < Rated torque of motor x 1.5}
- Limitation must be imposed to the motor torque in the following case.
{Momentary maximum torque of motor > Momentary maximum torque of reduction gear/(Speed ratio x 0.8)}
- The reduction gear should be selected so that the following equation is satisfied.
{Momentary maximum torque upon emergency stop < Momentary maximum torque of reduction gear}
- Matching verification between the reduction gear and the motor in the above quick selection table should be used as a reference, since they have been matched based only on the torque comparisons during operation of the reduction gear. For more precise motor selection, the effective torque, load inertia moment, brake torque, regenerative ability, and so forth, must also be considered.
- Regarding the input spline and motor flange with a blank cell, please contact us.
- The speed ratios shown in the above quick selection table indicate the speed ratio codes. For the precise speed ratios, see the "Rating Table" on page 4 of this brochure.

The logo consists of a dark gray rounded square containing a lighter gray circle. The text 'MITSUBISHI' and 'Motors' is centered within the circle in white.

MITSUBISHI
Motors

**Quick Selection Table of
Product Code**

mitsubishi Motors

Motor Model	Rated Power (kW)	Type of Motor Shaft	Motor Code														
			GH7			GH17			GH24			GH40			GH100		
			Ratio 11 21 31	Input Spine	Motor Flange	Ratio 11 21 31	Input Spine	Motor Flange	Ratio 11 21 31	Input Spine	Motor Flange	Ratio 11 21 31	Input Spine	Motor Flange	Ratio 21 31	Input Spine	Motor Flange
HA-LFS02	5.00	Straight without Key															
HA-LFS01	6.00	Straight without Key															
HA-LFS701M	7.00	Straight without Key															
HA-LFS702	7.00	Straight without Key															
HA-LFS801	8.00	Straight without Key															
HA-LFS11K1M	11.00	Straight without Key															
HA-LFS11K2	11.00	Straight without Key															
HC-KFS 23	0.20	Straight with Key		U	J												
HC-KFS 410	0.40	Straight without Key		AQ	J												
HC-KFS 43	0.40	Straight without Key		AQ	J												
HC-KFS 46	0.40	Straight without Key		AQ	J												
HC-KFS 73	0.75	Straight without Key															
HC-LFS 52	0.50	Straight without Key		Q	F												
HC-LFS102	1.00	Straight without Key		AM	F												
HC-LFS152	1.50	Straight without Key		AM	F												
HC-LFS202	2.00	Straight without Key		AM	F												
HC-LFS302	3.00	Straight without Key															
HC-MFS 23	0.20	Straight with Key		U	J												
HC-MFS 43	0.40	Straight without Key		AQ	J												
HC-MFS 73	0.75	Straight without Key															
HC-RFS103	1.00	Straight without Key															
HC-RFS153	1.50	Straight without Key															
HC-RFS203	2.00	Straight without Key															
HC-RFS353	3.50	Straight without Key															
HC-RFS503	5.00	Straight with Key															
HC-SFS 52	0.50	Straight without Key		Q	F												
HC-SFS 53	0.50	Straight without Key		AM	F												

mitsubishi Motors

Motor Model	Rated Power (kW)	Type of Motor Shaft	Motor Code																	
			GH7			GH17			GH24			GH40			GH100					
			Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange			
HC-SFS 81	0.85	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS102	1.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS103	1.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS121	1.20	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS152	1.50	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS153	1.50	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS201	2.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS202	2.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS203	2.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS301	3.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS352	3.50	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS353	3.50	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS502	5.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-SFS702	7.00	Straight without Key	○	Q	F	○	AR	S	○	AB	L	○	A	S	○	21	31	○	C	E
HC-JFS 23	0.20	Straight without Key	○	AQ	H	○	AT	C	○	Q	S	○	AM	E	○	21	31	○	C	E
HC-JFS 43	0.40	Straight without Key	○	AQ	H	○	AT	C	○	Q	S	○	AM	E	○	21	31	○	C	E
HC-JFS 72	0.75	Straight without Key	○	AY	P	○	Q	S	○	○	○	○	○	○	○	21	31	○	C	E
HC-JFS 73	0.75	Straight without Key	○	○	○	○	○	○	○	○	○	○	○	○	○	21	31	○	C	E
HC-JFS152	1.50	Straight without Key	○	○	○	○	○	○	○	○	○	○	○	○	○	21	31	○	C	E
HC-JFS202	2.00	Straight without Key	○	○	○	○	○	○	○	○	○	○	○	○	○	21	31	○	C	E
HC-JFS352	3.50	Straight without Key	○	○	○	○	○	○	○	○	○	○	○	○	○	21	31	○	C	E
HC-JFS502	5.00	Straight without Key	○	○	○	○	○	○	○	○	○	○	○	○	○	21	31	○	C	E

Note:
 1 Only the combinations that satisfy the following equation are circled.
 2 (Rated torque of motor x 0.5 < Rated torque of reduction gear)/(Speed ratio x 0.8) < Rated torque of motor x 1.5)
 3 Limitation must be imposed to the motor torque in the following case.
 (Momentary maximum torque of motor > Momentary maximum torque of reduction gear)/(Speed ratio x 0.8))
 4 The reduction gear should be selected so that the following equation is satisfied.
 {Momentary maximum torque upon emergency stop < Momentary maximum torque of reduction gear}
 5 Matching verification between the reduction gear and the motor in the above quick selection table should be used as a reference, since they have been matched based only on the torque comparisons during operation of the reduction gear. For more precise motor selection, the effective torque, load inertia moment, brake torque, regenerative ability, and so forth, must also be considered.
 6 Regarding the input spline and motor flange with a blank cell, please contact us.
 7 The speed ratios shown in the above quick selection table indicate the speed ratio codes. For the precise speed ratios, see the "Rating Table" on page 4 of this brochure.

The logo consists of a dark gray rounded square containing a lighter gray circle. The text "Panasonic Motors" is centered within the circle in a white, sans-serif font.

**Panasonic
Motors**

**Quick Selection Table of
Product Code**

The logo consists of a dark gray rounded square containing a lighter gray circle. The text "SANYO DENKI Motors" is centered within the circle in white.

SANYO DENKI
Motors

**Quick Selection Table of
Product Code**

Motor Model	Rated Power (kW)	Type of Motor Shaft	Motor Code														
			GH7			GH17			GH24			GH40			GH100		
			Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange	Ratio	Input Spine	Motor Flange
11	21	31	11	21	31	11	21	31	11	21	31	11	21	31			
Q1AA10100	1.00	Straight with Key															
Q1AA10150	1.50	Straight with Key			X												
Q1AA10200	2.00	Straight with Key			AN	X											
Q1AA10250	2.50	Straight with Key			AN	X											
Q1AA12100	1.00	Straight with Key			AN	X											
Q1AA12200	2.00	Straight with Key															
Q1AA12300	3.00	Straight with Key															
Q1AA13300	3.00	Straight with Key															
Q1AA13400	4.00	Straight with Key															
Q1AA13500	5.00	Straight with Key															
Q1AA18450	4.50	Straight with Key															
Q1AA18750	7.50	Straight with Key															
Q2AA07020	0.20	Straight with Key			AQ	Q											
Q2AA07030	0.30	Straight with Key			AQ	Q											
Q2AA07040	0.40	Straight with Key			AQ	Q											
Q2AA07050	0.50	Straight with Key			AQ	Q											
Q2AA08050	0.50	Straight with Key			F	Z											
Q2AA08075	0.75	Straight with Key			F	Z											
Q2AA08100	1.00	Straight with Key			F	Z											
Q2AA10100	1.00	Straight with Key			AN	X											
Q2AA10150	1.50	Straight with Key			AN	X											
Q2AA13050	0.50	Straight with Key															
Q2AA13100	1.00	Straight with Key															
Q2AA13150	1.50	Straight with Key															
Q2AA13200	2.00	Straight with Key															
Q2AA18200	2.00	Straight with Key															
Q2AA18350	3.50	Straight with Key															
Q2AA18450	4.50	Straight with Key															
Q2AA18550	5.50	Straight with Key															
Q2AA22250	2.50	Straight with Key															
Q2AA22350	3.50	Straight with Key															
Q2AA22450	4.50	Straight with Key															
Q2AA22550	5.50	Straight with Key															
Q2AA22700	7.00	Straight with Key															
Q2AA18550	5.50	Straight with Key															
Q2AA18750	7.50	Straight with Key															
Q2AA2211K	11.00	Straight with Key															
Q2AA2215K	15.00	Straight with Key															

Note:

- 1 Only the combinations that satisfy the following equation are circled.
(Rated torque of motor x 0.5 < Rated torque of reduction gear/(Speed ratio x 0.8) < Rated torque of motor x 1.5)
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YASKAWA
Motors

**Quick Selection Table of
Product Code**

Motor Model	Rated Power (kW)	Type of Motor Shaft	Model Code														
			GH7			GH17			GH24			GH40			GH100		
			Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 11 21 31	Input Spline	Motor Flange	Ratio 21 31	Input Spline	Motor Flange
SGMAH-04A	0.40	Straight without Key		A0	J												
SGMAH-08A	0.75	Straight with Key															
SGMPH-04A	0.40	Straight without Key															
SGMPH-08A	0.75	Straight with Key		A0	H												
SGMPH-15A	1.50	Straight without Key															
SGMGH-05A	0.45	Straight with Key															
SGMGH-09A	0.85	Straight without Key															
SGMGH-13A	1.30	Straight with Key															
SGMGH-20A	1.80	Straight without Key															
SGMGH-30A	2.90	Straight with Key															
SGMGH-44A	4.40	Straight without Key															
SGMGH-55A	5.50	Straight with Key															
SGMGH-75A	7.50	Straight without Key															
SGMGH-11A	11.00	Straight with Key															
SGMGH-03A	0.30	Straight without Key															
SGMGH-06A	0.60	Straight with Key															
SGMGH-09A	0.90	Straight without Key															
SGMGH-12A	1.20	Straight with Key															
SGMGH-20A	2.00	Straight without Key															
SGMGH-30A	3.00	Straight with Key															
SGMGH-40A	4.00	Straight without Key															
SGMGH-55A	5.50	Straight with Key															
SGMSH-10A	1.00	Straight without Key															
SGMSH-15A	1.50	Straight with Key															
SGMSH-20A	2.00	Straight without Key															
SGMSH-30A	3.00	Straight with Key															
SGMSH-40A	4.00	Straight without Key															

