

Brushless DC Motor

High Torque Gearheads

60W, 120W, 200W, 300W

Gear Ratio 5 - 600

Right-Angle Hollow Shaft Hypoid **JH** Gearhead

Foot Mount Type **JB** Gearhead

Parallel Shaft **JV** Gearhead



Right-Angle Hollow Shaft Hypoid Gearhead

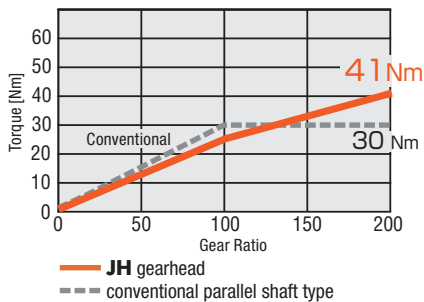


These gearheads are designed for our compact motors of **BMU** and **BLE2** series. They are specified with high torque and big axial and radial loads.

Right-Angle Hollow Shaft Hypoid JH Gearhead

Permissible Torque

No torque saturation over the entire speed range.



High Strength

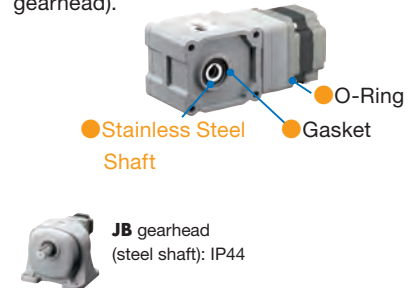
Compared to conventional gearheads



[200:1 at 3000 r/min]

Degree of Protection IP66

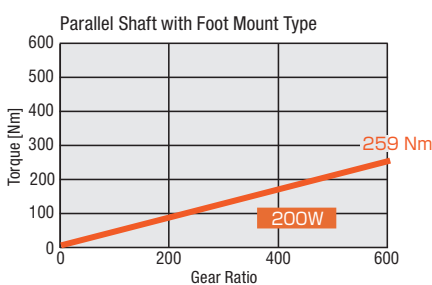
The degree of protection is IP66 which is realized by the stainless steel shaft (JH and JV gearhead).



Foot Mount Type JB Gearhead • Parallel Shaft JV Gearhead

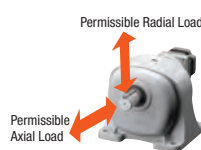
High Permissible Torque

Up to 259 Nm



High Strength

Foot Mount Type



[1/600 by 3000 r/min]

Permissible radial load

..... 3672 N

Permissible axial load

..... 577 N

Flange Type



[1/450 by 3000 r/min]

Permissible radial load

..... 3123 N

Permissible axial load

..... 480 N

High Gear Ratio

Foot Mount Type **JB** Gearhead

Gear ratio

5 10 20 30 50 100 200 300 450 600



Parallel Shaft **JV** Gearhead

Gear ratio

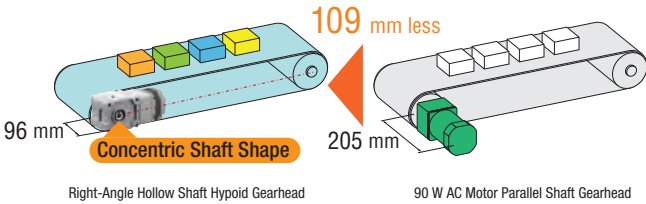
200 300 450



Features of Right-Angle Hollow Shaft Hypoid Gearhead

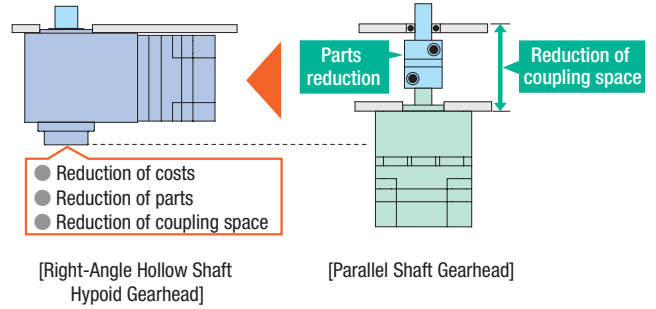
Downsizing

Downsizes the construction by direct mounting to the conveyor. Furthermore, the concentric shaft offers more flexibility for the mounting direction.



Lower Cost

Reduction of costs and parts thanks to direct connection.



Features of Foot Mount Gearhead

No Need for Mounting Bracket





Can be mounted directly to the application.

High Rigidity, One-Piece Construction

One-piece construction for easy shaft centering.




Line up

Type	Motor				Driver			Connection Cable
	Output Power [W]	Permissible Torque [Nm]	Gear Ratio	Degree of Protection	Image	Power Supply Voltage [V]		
Right-Angle Hollow Shaft Hypoid JH Geared 	60	20.6	10, 15, 20, 30, 50, 100, 200	IP66	—	Single-Phase 200-240 VAC Three-Phase 200-240 VAC		
	120	41			BLE2 Series			
	200	82.8	5, 10, 15, 20, 30, 50, 100, 200		—			
	300	134						
Foot Mount Type JB Geared 	200	518	5, 10, 20, 30, 50, 100, 200, 300, 450, 600	IP44	BLE2 Series	BMU Series		
	300	388	5, 10, 20, 30, 50, 100, 200, 300, 450, 600		—			
Parallel Shaft JV Geared* 	200	198	300, 450	IP66	BLE2 Series			
	300	297	200, 300, 450		—			

*For low gear ratios of **5 - 200** of the parallel shaft gearhead the **GFV** gearhead is also available.

For details please refer to the **BMU** Series or **BLE2** Series catalogue or the website: www.orientalmotor.eu

«Specifications»

- Rated Speed: 3000 r/min
- Speed Control Range: 80-3600 r/min (speed ratio 1:45)
- Speed regulation: $\pm 0.2\%$
- Safety Standards: 

For the following information please refer to the **BMU** or **BLE2** Series catalogue or the website: www.orientalmotor.eu

- Motor Features
- Details of the **GFV** Parallel Shaft Gearhead
- Driver Dimensions
- Connection and Operation



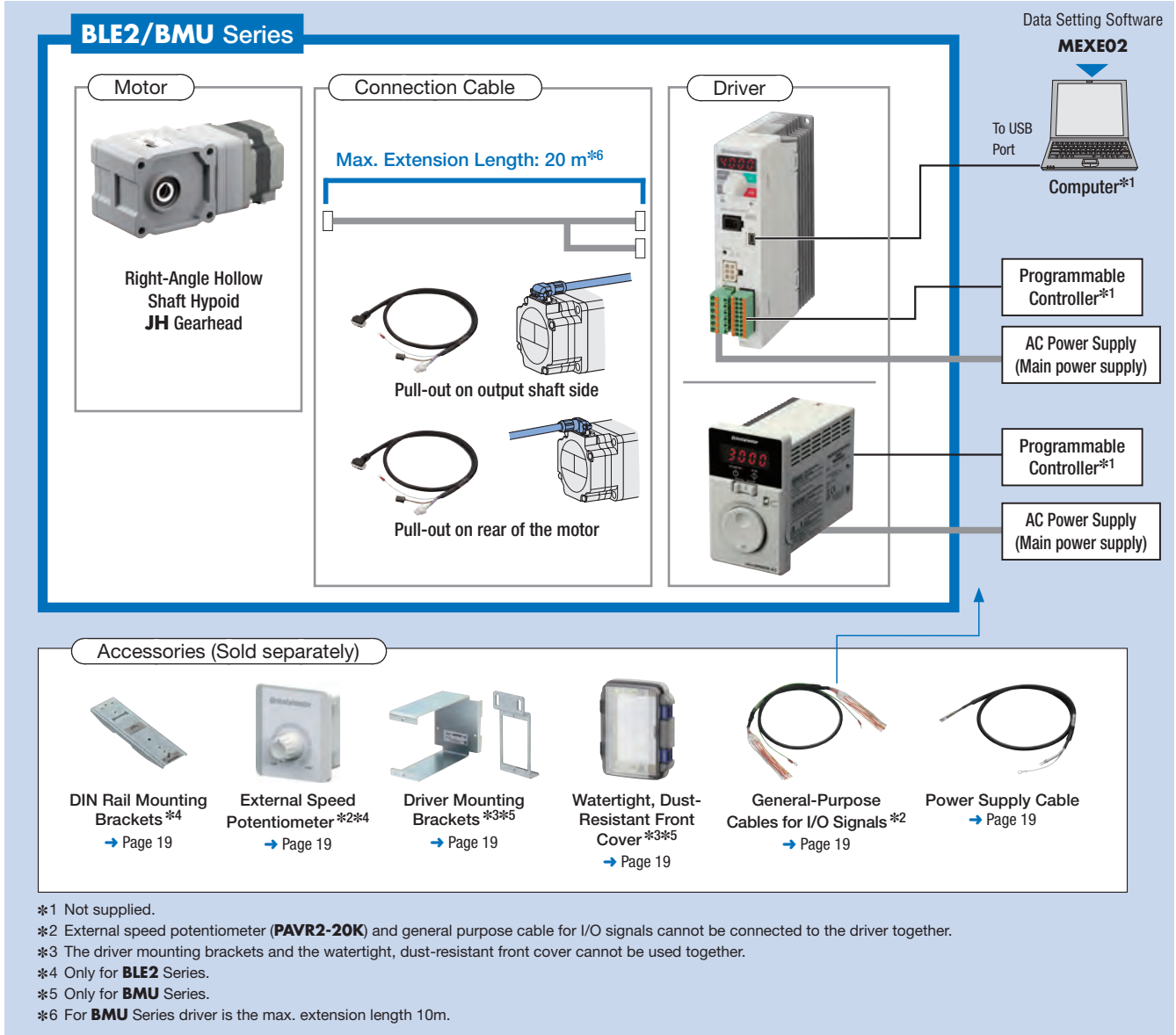
BMU Series Catalogue



BLE2 Series Catalogue

System Configuration

Motors, drivers and connection cables are sold separately.



Example of System Configuration

BLE2 Series			Sold Separately	
Right-Angle Hollow Shaft Hypoid JH Gearhead	Driver	Connection Cable (3 m)	Din Rail Mounting Bracket	External Speed Potentiometer
BLM5120HPK-5H10S	BLE2D120-C	CC030HBLF	MADP02	PAVR2-20K

BMU Series			Sold Separately	
Right-Angle Hollow Shaft Hypoid JH Gearhead	Driver	Connection Cable (3 m)	Driver Mounting Bracket	Watertight, Dust-Resistant Front Cover
BLM5120HPK-5H10S	BMUD120-C2	CC030HBLF	MAFP05V	PCF12-B

The system configuration shown above is an example. Other combinations are also available.

Product Number

● Motor (Combination Type/Round Shaft Type)

◇ Right-Angle Hollow Shaft Hypoid **JH** Geared /

Foot Mount Type **JB** Geared / Parallel Shaft **JV** Geared

BLM 5 200 H P K - 5 C B 50 B - L

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

Motor Product Code

Gearhead Product Code

Motor	①	Motor Type	BLM : Brushless Motor
	②	Frame Size	5 : 90 mm
	③	Output Power	60 : 60 W 120 : 120 W 200 : 200 W 300 : 300 W
	④	Motor Connection Method	H : Connector Type
	⑤	Motor Degree of Protection	P : IP66
	⑥	Combined Motor	K : Round Shaft Type (Key included)
Gearhead	⑦	Combined Motor Frame Size	5 : 90 mm
	⑧	Gearhead Size	Symbol For the gearhead size symbol please refer to Specifications on → pages 7-8.
	⑨	Gearhead Type	H : JH Gear B : JB Gear V : JV Gear
	⑩	Gear Ratio	Number: Reduction Ratio of Gearhead
	⑪	Output Shaft Material	S : Stainless B : Iron
	⑫	Connector Position	-U : Up -R : Right None: Bottom -L : Left

● Driver

BLE2D 120 - C

① ② ③

BMUD 120 - C 2

① ② ③ ④

①	Driver Type	BLE2D : Driver for BLE2 Series BMUD : Driver for BMU Series
②	Output Power	60 : 60 W 120 : 120 W 200 : 200 W 300 : 300 W
③	Power Supply Voltage	C : Single-Phase, Three-Phase 200-240 VAC
④	Reference Number	

● Connection Cable

CC 010 H BL F

① ② ③ ④ ⑤

①	Cable Type	CC : Connection Cable		
②	Length	005 : 0.5 m 010 : 1 m 015 : 1.5 m 020 : 2 m 025 : 2.5 m 030 : 3 m 040 : 4 m 050 : 5 m 070 : 7 m 100 : 10 m 150 : 15 m 200 : 20 m		
		③	Motor Connection Method	H : Connector
		④	Applicable Motor	BL : Brushless Motor
		⑤	Direction of Cable Outlet	F : Output Shaft Side B : Counter-Output Shaft Side

Product Line

Motors, drivers and connection cables must be ordered individually.

For the single-phase 100-120 VAC models, please contact the nearest Oriental Motor sales office.

Motors

Right-Angle Hollow Shaft Hypoid **JH** Geared



Output Power	Product Name	Gear Ratio
60 W	BLM460SHPK-4H □S	10, 15, 20
		30, 50, 100
		200
120 W	BLM5120HPK-5H □S	10, 15, 20
		30, 50, 100
		200
200 W	BLM5200HPK-5XH □S	5, 10, 15, 20
		30
		50
	BLM5200HPK-5YH □S	100
		200
		200
300 W	BLM5300HPK-5XH □S	5, 10, 15, 20
		30
		50
	BLM5300HPK-5YH □S	100
		200

Foot Mount Type **JB** Geared



Output Power	Product Name	Gear Ratio
200 W	BLM5200HPK-5AB □B-■	5, 10, 20
	BLM5200HPK-5CB □B-■	30, 50
	BLM5200HPK-5EB □B-■	100, 200
	BLM5200HPK-5KB □B-■	300, 450
	BLM5200HPK-5SB □B-■	600
300 W	BLM5300HPK-5AB □B-■	5, 10, 20
	BLM5300HPK-5CB □B-■	30, 50
	BLM5300HPK-5EB □B-■	100, 200
	BLM5300HPK-5KB □B-■	300, 450
	BLM5300HPK-5SB □B-■	600

Parallel Shaft **JV** Geared



Output Power	Product Name	Gear Ratio
200 W	BLM5200HPK-5KV □S	300, 450
300 W	BLM5300HPK-5DV □S	200
	BLM5300HPK-5KV □S	300, 450

Other Lineup

Connector Position Selection of 4 Directions.

For details please contact the nearest Oriental Motor sales office.

Included

Motor

Type	Parallel Key	Safety Cover	Installation Screw	Operating Manual
JH Gearhead	1 Piece	1 Piece	1 Set	1 Copy
JB Gearhead	—	—	—	
JV Gearhead	—	—	—	

Drivers

BLE2 Series



Output Power	Power Supply Voltage	Product Name
60 W	Single-Phase, Three-Phase 200-240 VAC	BLE2D60-C
120 W	Single-Phase, Three-Phase 200-240 VAC	BLE2D120-C
200 W	Single-Phase, Three-Phase 200-240 VAC	BLE2D200-C

BMU Series



Output Power	Power Supply Voltage	Product Name
60 W	Single-Phase, Three-Phase 200-240 VAC	BMUD60-C2
120 W	Single-Phase, Three-Phase 200-240 VAC	BMUD120-C2
200 W	Single-Phase, Three-Phase 200-240 VAC	BMUD200-C
300 W	Single-Phase, Three-Phase 200-240 VAC	BMUD300-C

Connection Cables



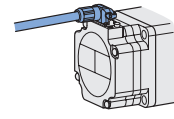
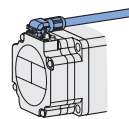
Length	Product Name	Length	Product Name
0.5 m	CC005HBL ■	4 m	CC040HBL ■
1 m	CC010HBL ■	5 m	CC050HBL ■
1.5 m	CC015HBL ■	7 m	CC070HBL ■
2 m	CC020HBL ■	10 m	CC100HBL ■
2.5 m	CC025HBL ■	15 m	CC150HBL ■
3 m	CC030HBL ■	20 m	CC200HBL ■

● **F** or **B** indicating the direction of cable outlet is entered where the box ■ is located within the product name.

Two types of the connection cables with different drawing directions are available

F: Cable drawn by the output shaft side

B: Cable drawn in the opposite side of the output shaft



Driver

Connector	Startup Guide	Operating Manual
Connector for CN1 (1 Piece) Connector for CN4 (1 Piece)	1 Copy	1 Copy

Right-Angle Hollow Shaft Hypoid JH Geared 60W, 120W



Specifications



Product Name	Right-Angle Hollow Shaft Hypoid JH Geared		BLM460SHPK-4H□S		BLM5120HPK-5H□S		
	Driver		BMUD60-C2		BMUD120-C2		
Rated Output Power (Continuous)	W		60		120		
Power Supply Voltage	Rated Voltage	V	Single-Phase 200-240 / Three-Phase 200-240				
	Permissible Voltage Range		-15 - +10%				
	Frequency	Hz	50/60				
	Permissible Frequency Range		±5%				
	Rated Input Current	A	Single-Phase 1.0/ Three-Phase 0.52		Single-Phase 2.0/ Three-Phase 1.1		Single-Phase 1.7/ Three-Phase 1.02
	Maximum Input Current	A	Single-Phase 1.9/ Three-Phase 1.1		Single-Phase 4.1/ Three-Phase 2.0		Single-Phase 4.8/ Three-Phase 3.3
Rated Speed	r/min	3000					
Speed Control Range	r/min	80 - 3600 r/min (Speed ratio 1:45)					
Speed Regulation*1	Load	±0.2% (±0.5%) or less: Conditions 0 - rated torque, rated speed, rated voltage, normal ambient temperature					
	Voltage	±0.2% (±0.5%) or less: Conditions Rated voltage -15 - +10%, rated speed, no load, normal ambient temperature					
	Temperature	±0.2% (±0.5%) or less: Conditions Operating ambient temperature 0 - +50°C*2, rated speed, no load, rated voltage					

*1 Only for **BLE2** series driver: The brackets () indicate specification for analog setting.

*2 For **BMU** series, the Conditions Operating ambient temperature is 0 - +40°C

● The values correspond to each specification and characteristic of a stand-alone motor.

Gear Ratio		10	15	20	30	50	100	200		
(Actual Gear Ratio)		(10.25)	(15.38)	(20.50)	(30.75)	(51.25)	(102.5)	(205.0)		
Direction of rotation*1		Direction of the motor						Opposite direction of the motor		
Output Shaft Speed [r/min]*2	80 r/min	8	5.3	4	2.7	1.6	0.8	0.4		
	3600 r/min	360	240	180	120	72	36	18		
Permissible Torque [Nm]	60W	At 80 - 1500 r/min	1.2	1.8	2.7	4.0	6.7	13.3	20.6	
		At 3000 r/min	1.2	1.8	2.5	3.8	6.4	12.7	15.6	
		At 3600 r/min	0.74	1.1	1.8	2.7	4.4	8.9	11.5	
	120W	At 80 - 1500 r/min	3.2	4.8	6.5	9.7	16.0	32.3	53.9	
		At 3000 r/min	2.5	3.8	5.1	7.6	12.7	25.5	41.0	
		At 3600 r/min	1.8	2.6	3.5	5.3	8.8	17.7	30.2	
Permissible Radial Load [N]*3	20 mm from the mounting surface	60W	At 80 - 1500 r/min	265	341	417	531	682	758	836
			At 3000 r/min	201	259	317	404	518	576	635
			At 3600 r/min	148	191	234	297	382	424	468
	120W	At 80 - 1500 r/min	363	484	605	806	971	1045	1127	
		At 3000 r/min	276	368	460	613	738	794	857	
		At 3600 r/min	203	271	339	451	544	585	631	
Permissible Axial Load [N]	60W	At 80 - 1500 r/min	88	108	137	177	226	245	275	
		At 3000 r/min	67	82	104	135	172	186	209	
		At 3600 r/min	49	60	77	99	127	137	154	
	120W	At 80 - 1500 r/min	108	147	186	245	294	324	343	
		At 3000 r/min	82	112	141	186	223	246	261	
		At 3600 r/min	60	82	104	137	165	181	192	
Permissible Load Inertia J [$\times 10^{-4}$ kgm ²]	60W	At 80 - 1500 r/min	100	225	400	900	2500	10000	40000	
		At 3000 r/min	36	81	144	324	900	3600	14400	
		At 3600 r/min	20.3	45.6	81	182	506	2025	8100	
		120W	At 80 - 1500 r/min	200	450	800	1800	5000	20000	80000
			At 3000 r/min	72	162	288	648	1800	7200	28800
			At 3600 r/min	40.5	91.1	162	365	1013	4050	16200
	When instantaneous stop or instantaneous bi-directional operation is performed*4	60W	At 80 - 1500 r/min	33.3	75	133	300	833	3333	13333
			At 3000 r/min	12	27	48	108	300	1200	4800
			At 3600 r/min	6.8	15.2	27	60.8	169	675	2700
		120W	At 80 - 1500 r/min	66.7	150	267	600	1667	6667	26667
			At 3000 r/min	24	54	96	216	600	2400	9600
			At 3600 r/min	13.5	30.4	54	122	338	1350	5400
Mass [kg]		4.1								

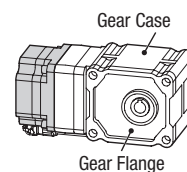
*1 The rotation direction is viewed from the gear flange side (see illustration on the right).

*2 The speed of the output shaft is the value of the speed divided by the gear ratio.

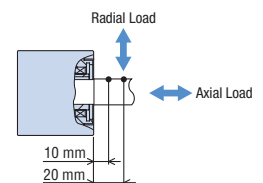
*3 The permissible radial load can also be calculated with a formula. → Page 18

*4 It is also applicable when digitally setting the deceleration time to below 0.1 seconds.

◇ Gear Flange Position



◇ Load Position

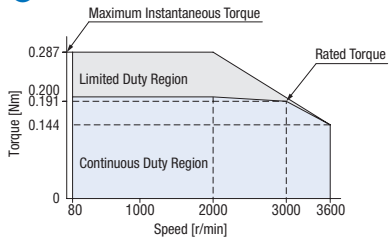


Speed – Torque Characteristics

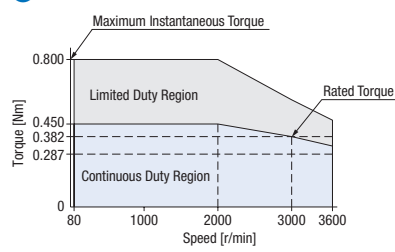
Continuous Duty Region: Continuous operation is possible in this region.

Limited Duty Region: This region is used primarily when accelerating

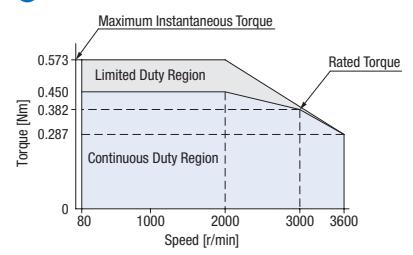
60W*2



120W*1



120W*2



● The values correspond to each specification and characteristic of a motor without gearhead. The speed-torque characteristics show the values when rated voltage is applied.

● A number indicating the gear ratio is entered where the box □ is located within the product name.

*1 BLE2 Driver

*2 BMU Driver

Right-Angle Hollow Shaft Hypoid JH Geared 200 W, 300 W



Specifications



Product Name	Right-Angle Hollow Shaft Hypoid JH Geared		BLM5200HPK-5□H□S		BLM5300HPK-5□H□S	
	Driver		BMUD200-C	BLE2D200-C	BMUD300-C	
Rated Output Power (Continuous)	W		200		300	
Power Supply Voltage	Rated Voltage	V	Single-Phase 200-240 / Three-Phase 200-240			
	Permissible Voltage Range		-15 - +10%			
	Frequency	Hz	50/60			
	Permissible Frequency Range		±5%			
	Rated Input Current	A	Single-Phase 2.7/ Three-Phase 1.5	Single-Phase 2.4/ Three-Phase 1.4	Single-Phase 3.4/ Three-Phase 2.1	
Maximum Input Current	A	Single-Phase 4.9/Three-Phase 3.4		Single-Phase 7.8/Three-Phase 4.7		
Rated Speed	r/min	3000				
Speed Control Range	r/min	80 - 3600 r/min (Speed ratio 1:45)				
Speed Regulation*1	Load	±0.2% (±0.5%) or less: Conditions 0 - rated torque, rated speed, rated voltage, normal ambient temperature				
	Voltage	±0.2% (±0.5%) or less: Conditions Rated voltage -15 - +10%, rated speed, no load, normal ambient temperature				
	Temperature	±0.2% (±0.5%) or less: Conditions Operating ambient temperature 0 - +50°C*2, rated speed, no load, rated voltage				

*1 Only for BLE2 series driver: The brackets () indicate specification for analog setting.

*2 For BMU series, the Conditions Operating ambient temperature is 0~+40°C

● The values correspond to each specification and characteristic of a stand-alone motor.

Gear Ratio		5	10	15	20	30	50	100	200	
(Actual Gear Ratio)		(5)	(10)	(15)	(20)	(30)	(50)	(98.95)	(200)	
Gearhead Size		X						Y		
Direction of rotation*1		Direction of the motor						Opposite direction of the motor		
Output Shaft Speed [r/min]*2	80 r/min	16	8	5.3	4	2.7	1.6	0.8	0.4	
	3600 r/min	720	360	240	180	120	72	36	18	
Permissible Torque [Nm]	200W	At 80 - 3000 r/min	2.1	4.1	6.2	8.3	13.4	22.3	41.0	82.8
		At 3600 r/min	1.3	2.6	4.0	5.3	9.4	15.6	28.5	57.6
		At 80 - 1500 r/min	4.8	9.5	14.3	19.1	30.5	50.8	88.0	178
	300W	At 3000 r/min	3.8	7.7	11.9	16.1	23.1	38.5	73.5	128
		At 3600 r/min	2.7	5.5	8.5	11.5	16.5	27.5	52.5	92.0
		At 80 - 1500 r/min	1346	1663	1882	2035	2309	2681		3436
Permissible Radial Load [N]*3	20 mm from the mounting surface	At 3000 r/min	942	1164	1317	1425	1616	1877		2405
		At 3600 r/min	673	832	941	1018	1155	1341		1718
		At 80 - 1500 r/min	307	380	429	466	527	613		785
Permissible Axial Load [N]		At 3000 r/min	215	266	300	326	369	429		550
		At 3600 r/min	154	190	215	233	264	307		393
		At 80 - 1500 r/min	250	1000	2250	4000	9000	25000	100000	400000
Permissible Load Inertia J [$\times 10^{-4}$ kgm ²]	When instantaneous stop or instantaneous bi-directional operation is performed*4	At 3000 r/min	90	360	810	1440	3240	9000	36000	144000
		At 3600 r/min	50.6	203	456	810	1823	5063	20250	81000
		At 80 - 1500 r/min	83.3	333	750	1333	3000	8333	33333	133333
		At 3000 r/min	30	120	270	480	1080	3000	12000	48000
		At 3600 r/min	16.9	67.5	152	270	608	1688	6750	27000
		At 80 - 1500 r/min								
Mass [kg]		6.6						8.1		

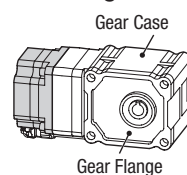
*1 The rotation direction is viewed from the gear flange side (see illustration on the right).

*2 The speed of the output shaft is the value of the speed divided by the gear ratio.

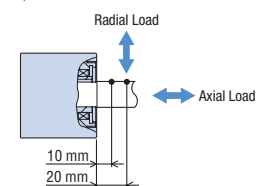
*3 The permissible radial load can also be calculated with a formula. → Page 18

*4 It is also applicable when digitally setting the deceleration time to below 0.1 seconds.

◇ Gear Flange Position



◇ Load Position

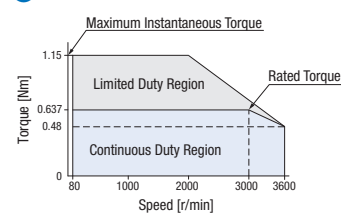


Speed – Torque Characteristics

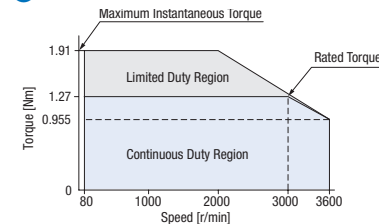
Continuous Duty Region: Continuous operation is possible in this region.

Limited Duty Region: This region is used primarily when accelerating.

● 200W*1*2



● 300W*2



● The values correspond to each specification and characteristic of a motor without gearhead. The speed-torque characteristics show the values when rated voltage is applied.

● X or Y indicating the gearhead size is entered where the box □ is located within the product name.

A number indicating the gear ratio is entered where the box □ is located within the product name.

*1 BLE2 Driver

*2 BMU Driver

Foot Mount Type JB Geared 200 W, 300 W



Specifications



Product Name	Foot Mount Type JB Geared Driver	BLM5200HPK-5 <input type="checkbox"/> B <input type="checkbox"/> B-L		BLM5300HPK-5 <input type="checkbox"/> B <input type="checkbox"/> B-L		
		BMUD200-C	BLE2D200-C	BMUD300-C		
Rated Output Power (Continuous)	W	200		300		
Power Supply Voltage	Rated Voltage	V				Single-Phase 200-240 / Three-Phase 200-240
	Permissible Voltage Range					-15 - +10%
	Frequency	Hz				50/60
	Permissible Frequency Range					±5%
	Rated Input Current	A	Single-Phase 2.4/ Three-Phase 1.4	Single-Phase 2.4/ Three-Phase 1.4	Single-Phase 3.4/ Three-Phase 2.1	
Maximum Input Current	A	Single-Phase 6.5/ Three-Phase 4.3	Single-Phase 6.5/ Three-Phase 4.3	Single-Phase 7.8/ Three-Phase 4.7		
Rated Speed	r/min					3000
Speed Control Range	r/min					80 - 3600 r/min (Speed ratio 1:45)
Speed Regulation*1	Load					±0.2% (±0.5%) or less: Conditions 0 - rated torque, rated speed, rated voltage, normal ambient temperature
	Voltage					±0.2% (±0.5%) or less: Conditions Rated voltage -15 - +10%, rated speed, no load, normal ambient temperature
	Temperature					±0.2% (±0.5%) or less: Conditions Operating ambient temperature 0 - +50°C*2, rated speed, no load, rated voltage

*1 Only for **BLE2** series driver: The brackets () indicate specification for analog setting.

*2 For **BMU** series, the Conditions Operating ambient temperature is 0 - +40°C

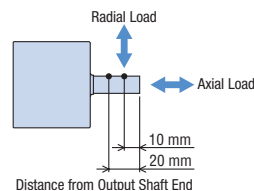
● The values correspond to each specification and characteristic of a stand-alone motor.

Gear Ratio		5	10	20	30	50	100	200	300	450	600	
(Actual Gear Ratio)		(4.97)	(10.12)	(20.08)	(30.86)	(49.09)	(104.1)	(196.4)	(300.5)	(450.8)	(588.9)	
Gearhead Size		A			C		E		K		S	
Rotation Direction		Direction of Motor				Opposite Direction of Motor			Direction of Motor			
Output Shaft Speed [r/min]*1	80 r/min	16	8	4	2.7	1.6	0.8	0.4	0.27	0.18	0.13	
	3600 r/min	720	360	180	120	72	36	18	12	8	6	
Permissible Torque [Nm]	200W	At 80 - 3000 r/min	2.4	4.9	9.7	13.0	22.5	48.4	91.3	132	198	259
		At 3600 r/min	1.7	3.4	6.8	8.2	15.6	32.0	60.3	92.3	138	181
	300W	At 80 - 1500 r/min	5.4	10.9	21.7	31.7	49.9	108	205	298	431	583
		At 3000 r/min	4.3	8.3	17.2	25.4	41.2	81.9	164	219	302	438
Permissible Radial Load [N]	10 mm from the mounting surface	At 80 - 1500 r/min	521	977	1243	1824	2032	2888	3483	4461		5245
		At 3000 r/min	365	684	870	1277	1422	2022	2438	3123		3672
		At 3600 r/min	261	489	622	912	1016	1444	1742	2231		2623
	20 mm from the mounting surface	At 80 - 1500 r/min	663	1244	1582	2280	2540	3496	4216	5174		5921
		At 3000 r/min	464	871	1107	1596	1778	2447	2951	3622		4145
		At 3600 r/min	332	622	791	1140	1270	1748	2108	2587		2961
Permissible Axial Load [N]	At 80 - 1500 r/min	39	88	177	255	275	422	461	686		824	
	At 3000 r/min	27.3	61.6	124	179	193	295	323	480		577	
	At 3600 r/min	19.5	44	88.5	128	138	211	231	343		412	
Permissible Load Inertia J [$\times 10^{-4}$ kgm ²]	When instantaneous stop or instantaneous bi-directional operation is performed*2	At 80 - 1500 r/min	250	1000	4000	9000	25000	100000	400000	900000	2025000	3600000
		At 3000 r/min	90	360	1440	3240	9000	36000	144000	324000	729000	1296000
	At 3600 r/min	50.6	203	810	1823	5063	20250	81000	182250	410063	729000	
		At 80 - 1500 r/min	83.3	333	1333	3000	8333	33333	133333	300000	675000	1200000
		At 3000 r/min	30	120	480	1080	3000	12000	48000	108000	243000	432000
At 3600 r/min	16.9	67.5	270	608	1688	6750	27000	60750	136688	243000		
Mass [kg]		4.6			5.6		7.6		11.6		18.1	

*1 The speed of the output shaft is the value of the speed divided by the gear ratio.

*2 It is also applicable when digitally setting the deceleration time to below 0.1 seconds.

◇ Load Position

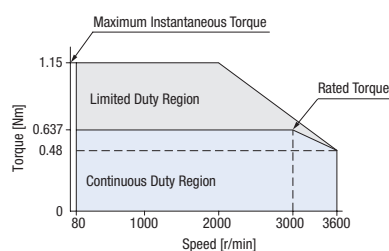


Speed - Torque Characteristics

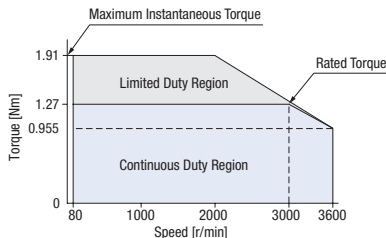
Continuous Duty Region: Continuous operation is possible in this region.

Limited Duty Region: This region is used primarily when accelerating.

● 200W*1*2



● 300W*2



● The values correspond to each specification and characteristic of a motor without gearhead. The speed-torque characteristics show the values when rated voltage is applied.

● **A, C, E, K** or **S** indicating the gearhead size is entered where the box is located within the product name.

A number indicating the gear ratio is entered where the box is located within the product name.

*1 BLE2 Driver

*2 BMU Driver

Parallel Shaft JV Geared 200 W, 300 W



Specifications



Product Name	Parallel Shaft JV Geared Driver	BLM5200HPK-5KV□S		BLM5300HPK-5□V□S	
		BMUD200-C	BLE2D200-C	BMUD300-C	
Rated Output Power (Continuous)	W	200		300	
Power Supply Voltage	Rated Voltage	Single-Phase 200-240 / Three-Phase 200-240			
	Permissible Voltage Range	-15 - +10%			
	Frequency	50/60			
	Permissible Frequency Range	±5%			
	Rated Input Current	A	Single-Phase 2.7 / Three-Phase 1.5	Single-Phase 2.4 / Three-Phase 1.4	Single-Phase 3.4 / Three-Phase 2.1
	Maximum Input Current	A	Single-Phase 4.9 / Three-Phase 3.4	Single-Phase 6.5 / Three-Phase 4.3	Single-Phase 7.8 / Three-Phase 4.7
Rated Speed	r/min	3000			
Speed Control Range	r/min	80 - 3600 r/min (Speed ratio 1:45)			
Speed Regulation*1	Load	±0.2% (±0.5%) or less: Conditions 0 - rated torque, rated speed, rated voltage, normal ambient temperature			
	Voltage	±0.2% (±0.5%) or less: Conditions Rated voltage -15 - +10%, rated speed, no load, normal ambient temperature			
	Temperature	±0.2% (±0.5%) or less: Conditions Operating ambient temperature 0 - +50°C*2, rated speed, no load, rated voltage			

*1 Only for **BLE2** series driver: The brackets () indicate specification for analog setting.

*2 For **BMU** series, the Conditions Operating ambient temperature is 0 - +40°C

● The values correspond to each specification and characteristic of a stand-alone motor.

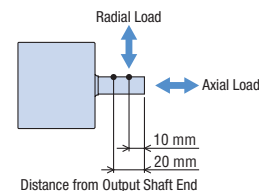
Gear Ratio		200 *3	300	450	
(Actual Gear Ratio)		(196.4)	(300.5)	(450.8)	
Gearhead Size		D		K	
Direction of rotation		Opposite Direction of Motor		Direction of Motor	
Output Shaft Speed [r/min]*1	80 r/min	0.4	0.27	0.18	
	3600 r/min	18	12	8	
Permissible Torque [Nm]	200W	At 80 - 3000 r/min	-	132	198
		At 3600 r/min	-	92.3	138
	300W	At 80 - 1500 r/min	205	298	431
		At 3000 r/min	164	219	302
		At 3600 r/min	117	157	216
		At 80 - 1500 r/min	3483	4461	
Permissible Radial Load [N]	10 mm from the mounting surface	At 3000 r/min	2438	3123	
		At 3600 r/min	1742	2231	
		At 80 - 1500 r/min	4216	5174	
	20 mm from the mounting surface	At 3000 r/min	2951	3622	
		At 3600 r/min	2108	2587	
		At 80 - 1500 r/min	461	686	
Permissible Axial Load [N]	At 3000 r/min	323	480		
	At 3600 r/min	231	343		
	At 80 - 1500 r/min	400000	900000	2025000	
Permissible Load Inertia J [$\times 10^{-4}$ kgm ²]	At 3000 r/min	144000	324000	729000	
	At 3600 r/min	81000	182250	410063	
	At 80 - 1500 r/min	133333	300000	675000	
	At 3000 r/min	48000	108000	243000	
	At 3600 r/min	27000	60750	136688	
	When instantaneous stop or instantaneous bi-directional operation is performed*2				
Mass [kg]				12.1	

*1 The speed of the output shaft is the value of the speed divided by the gear ratio.

*2 It is also applicable when digitally setting the deceleration time to below 0.1 seconds.

*3 300 W Type only

◇ Load Position

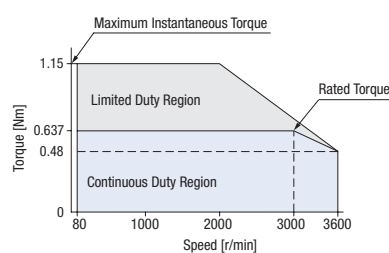


Speed - Torque Characteristics

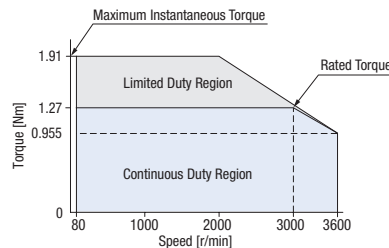
Continuous Duty Region: Continuous operation is possible in this region.

Limited Duty Region: This region is used primarily when accelerating.

● **200W***1*2



● **300W***2



● The values correspond to each specification and characteristic of a motor without gearhead. The speed-torque characteristics show the values when rated voltage is applied.

● A number indicating the gear ratio is entered where the box □ is located within the product name.

*1 BLE2 Driver

*2 BMU Driver

BLE2 Series - Common Specifications

Item		Specifications
Speed Setting Methods	Digital Setting	• Control Panel • Data Setting Software MEXE02
	Analog Setting	• Set using an external speed potentiometer PAVR2-20K (sold separately): 0 - 20 kΩ, 0.05 W min. • Set using external DC voltage: 0 - 10 VDC, 1 mA min. (Initial setting: 0 - 5 VDC)
Acceleration/ Deceleration Time	Setting Range	0.0 - 15.0 s (Initial setting: 0.5 s)
	Setting Method	• Control Panel • Data Setting Software MEXE02
Torque Limit*1	Setting Range	0 - 300%(Initial setting: 300%)
	Digital Setting	• Control Panel • Data Setting Software MEXE02
	Analog Setting	• Set using an external speed potentiometer PAVR2-20K (sold separately): 0 - 20 kΩ, 0.05 W min. • Set using external DC voltage: 0 - 10 VDC, 1 mA min. (Initial setting: 0 - 5 VDC)
Number of Operation Data Setting		16 Points max. (Initial setting: 4 points)
Input Signals	Photocoupler input Input resistance: 6.6 kΩ Connectable external DC power supply: 24 VDC -15 - +20% 100 mA min Source input/sink input Supplied through external wiring	
	Arbitrary signal assignment to IN0 - IN6 input (7 points) is possible []: Initial setting [FWD], [REV], [STOP-MODE], [M0], [M1], [ALARM-RESET], M2, M3, H-FREE, TL, HMI, EXT-ERROR, START/STOP*2, RUN/BRAKE*2, CW/CCW*2	
Output Signals	Photocoupler and Open-Collector Output (ON Power: 1.6 V max.) External power supply: 4.5 - 30 VDC 100 mA max. (5 mA min. for SPEED-OUT output) Source output/sink output Supplied through external wiring	
	Arbitrary signal assignment to OUT0, OUT1 (2 points) is possible []: Initial setting [SPEED-OUT], [ALARM-OUT], MOVE, INFO, TLC, VA, DIR	
Protective Functions	When the following protective functions are activated, ALARM-OUT output turns OFF and the motor will coast to a stop. The alarm code will be displayed and ALARM LED will blink at the same time. Overcurrent, main circuit overheat, overvoltage, undervoltage, sensor error, main circuit output error, overload, over-speed, EEPROM error, initial sensor error, initial operation prohibited, external stop	
Information	When the information occurs, INFO output turns ON. The motor operation continues. Overvoltage, undervoltage, overload, starting limit mode, I/O test mode, requiring CONFIG, requiring power ON again, operation prohibit	
Max. Extension Distance	Motor and driver distance: 20.5 m (when an accessory connection cable is used)	
Time Rating	Continuous	

*1 An error up to a maximum of approximately $\pm 10\%$ (at rated torque and rated speed) may occur between the setting value and generated torque due to the setting speed, power supply voltage and motor cable extension length.

*2 Operable when 3-wire input mode is selected.

BMU Series - Common Specifications

Item	Specifications	
	120 W	200 W
Speed Setting Methods	Digital setting with dial 4 speed settings	
Acceleration/ Deceleration Time	Analog Setting: 0.1 - 15.0 s (set time from stopped state to rated speed) Common setting for acceleration/deceleration time with acceleration/deceleration time potentiometer* Digital Setting: 0.0 - 15.0 s (set time from current speed to setting speed) Individual acceleration times and deceleration times can be set for each operating data* *Acceleration time/deceleration time varies with the load condition of the motor.	
Input Signals	Photocoupler input Input resistance: 5.7 kΩ Operated by internal power supply: DC5 V Connectable external DC power supply: 24VDC -15 - +20% 100 mA min. Source input/sink input Supplied through external wiring	Photocoupler input Input resistance: 6.6 kΩ Operated by internal power supply: DC5 V Connectable external DC power supply: 24VDC -15 - +20% 100 mA min. Source input/sink input Supplied through external wiring
	Arbitrary signal assignment to X0 - X2 input (3 points) is possible []: Initial setting [FWD], [REV], [M0], M1, ALARM-RESET, EXT-ERROR, H-FREE	Arbitrary signal assignment to IN0 - IN4 input (5 points) is possible []: Initial setting [FWD], [REV], [M0], [M1], [ALARM-RESET], EXT-ERROR, H-FREE
Output Signals	Photocoupler and Open-Collector Output External power supply: 4.5 - 30 VDC 100 mA max. Source output/sink output Supplied through external wiring	Photocoupler and Open-Collector Output External power supply: 4.5 - 30 VDC 100 mA max. Source output/sink output Supplied through external wiring
	Arbitrary signal assignment to Y0, Y1 (2 points) is possible []: Initial setting [ALARM-OUT1], [SPEED-OUT], ALARM-OUT2, MOVE, VA, WNG	Arbitrary signal assignment to OUT0, OUT1 (2 points) is possible []: Initial setting [ALARM-OUT1], [SPEED-OUT], ALARM-OUT2, MOVE, VA, WNG
Protective Functions	When the following protective functions are activated, ALARM-OUT1 output turns OFF and the motor will coast to a stop. The alarm code will be displayed at the same time. (Instantaneous stop for external stop only) Overcurrent, main circuit overheat, overvoltage, undervoltage, sensor error, overload, over-speed, EEPROM error, initial sensor error, initial operation prohibited, external stop	
Max. Extension Distance	Motor and driver distance: 10.5 m (when a connection cable is used)	
Time Rating	Continuous	

● Overload alarm detection time

- The overload alarm is generated if the operation goes beyond the continuous duty region.
The detection time for this overload alarm can be set from 0.1 - 60.0 seconds. (Initial value: 30.0 Seconds)
However, an alarm is generated for a maximum length of 5 seconds in the following cases.
- If an applied load goes beyond the limited duty region
 - If the output shaft is locked

General Specifications

Item	Motor	Driver
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the windings and the case after continuous operation under normal ambient temperature and humidity.	100 MΩ or more when 500 VDC megger is applied between the power supply terminal and the protective earth terminal, and between the power supply terminal and the I/O signal terminal after continuous operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 1.5 kVAC at 50 Hz applied between the windings and the case for 1 minute after continuous operation under normal ambient temperature and humidity.	Sufficient to withstand 1.5 kVAC at 50 Hz applied between the power supply terminal and the protective earth terminal for 1 minute, and 1.5 kVAC at 50 Hz applied between the power supply terminal and the I/O signal terminal for 1 minute after continuous operation under normal ambient temperature and humidity.
Temperature Rise	The temperature rise of the windings is 50°C max. and that of the case surface is 40°C max., measured by the thermocouple method after rated continuous operation under normal ambient temperature and humidity.	The temperature rise of the heat sink is 50°C max., measured by the thermocouple method after rated continuous operation under normal ambient temperature and humidity.
Operating Environment*1	Ambient Temperature	0 - +40°C (Non-freezing) BLE2 Series: 0 - +50°C*2 (Non-freezing)
	Ambient Humidity	85% or less (Non-condensing)
	Altitude	Up to 1000 m above sea level
	Atmosphere	No corrosive gases or dust. Cannot be used in a radioactive area, magnetic field, vacuum, or other special environments.
	Vibration	Not subject to continuous vibration or excessive shock. In conformance with JIS C 60068-2-6, "Sine-wave vibration test method" Frequency Range: 10 - 55 Hz, Half Amplitude: 0.15 mm, Sweep Direction: 3 directions (X, Y, Z), Number of Sweeps: 20 times
Storage Condition*3	Ambient Temperature	-10 - +60°C (Non-freezing) -25 - +70°C (Non-freezing)
	Ambient Humidity	85% or less (Non-condensing)
	Altitude	Up to 1000 m above sea level
	Atmosphere	No corrosive gases, dust or oil. Cannot be stored in a radioactive area, magnetic field, vacuum, or other special environments.
Thermal Class	UL/CSA Standards: 105 (A), EN Standards: 120 (E)	—
Degree of Protection*4	JH Gear, JV Gear: IP66 JB Gear: IP44 (When using the connection cable, except the driver connector)	IP20

*1 Attach the **BLE2** series driver to a location that has the same heat radiation capability as an aluminum metal plate.

Single installed 200x200 mm, 2 mm thick

Installed in contact 350x350 mm, 2 mm thick

*2 When using a DIN rail mounting bracket, the ambient temperature is 0 - +40°C.

*3 The storage condition applies to a short period such as a period during transportation.

*4 The IP indication that shows the watertight and dust-resistant performance are specified under IEC 60529 and IEC 60034-5.

Note

● Do not measure insulation resistance or perform the dielectric strength test while the motor and driver are connected.

● Materials and Finish of the Motor for **JH** Gear and **JV** Gear (IP66)

Materials Case: Aluminum

Output Shaft: Stainless Steel

Screws: Stainless Steel (except protective earth terminal)

Finish Case: Paint (except installing surface)

Dimensions Unit: mm

- The motor dimensions in this catalogue are illustrated with the separately-sold connection cable (▭ parts in the figure). The described masses do not include the connection cable mass.
- A number indicating the gear ratio is entered where the box □ is located within the product name.
- A symbol indicating the gearhead size is located in the box ■ within the product name.

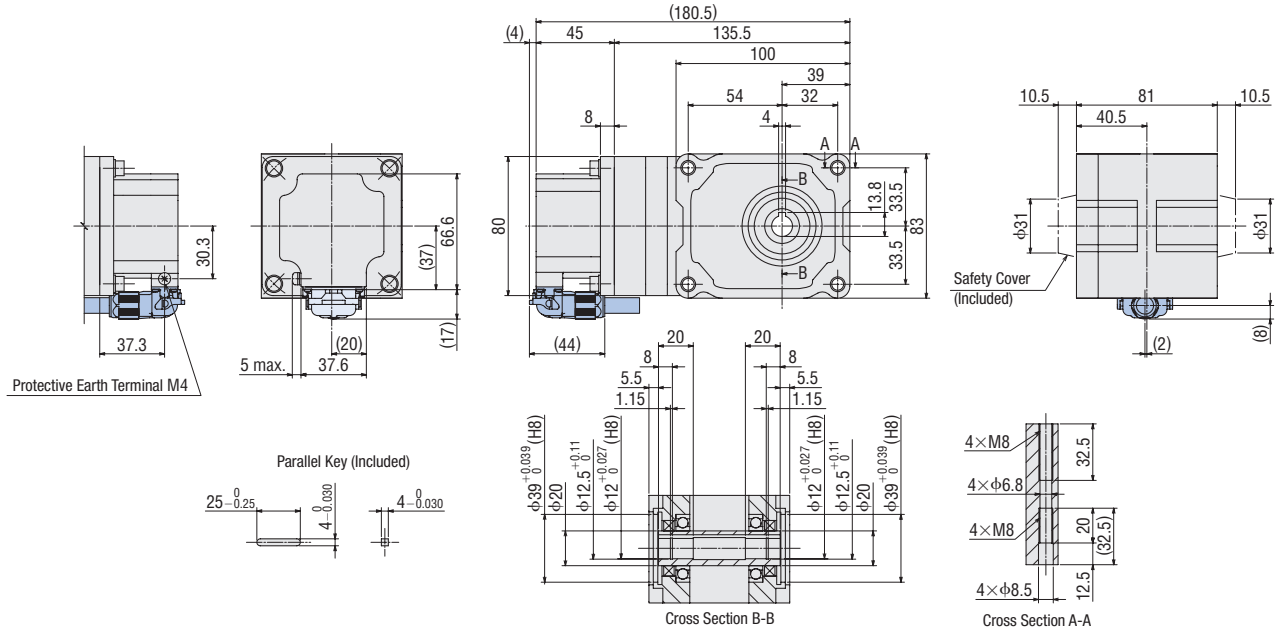
Motor

◇ Right-Angle Hollow Shaft Hypoid **JH** Geared

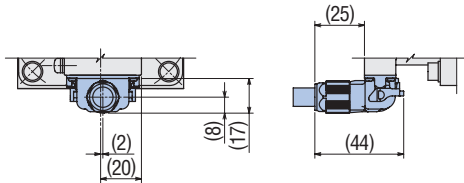
● 60 W

Product Name	Motor Product Name	Gearhead Product Name	Mass [kg]
BLM460SHPK-4H□S	BLM460SHPK	4H□S	2.6

- When attaching a connection cable drawn by the output shaft side.



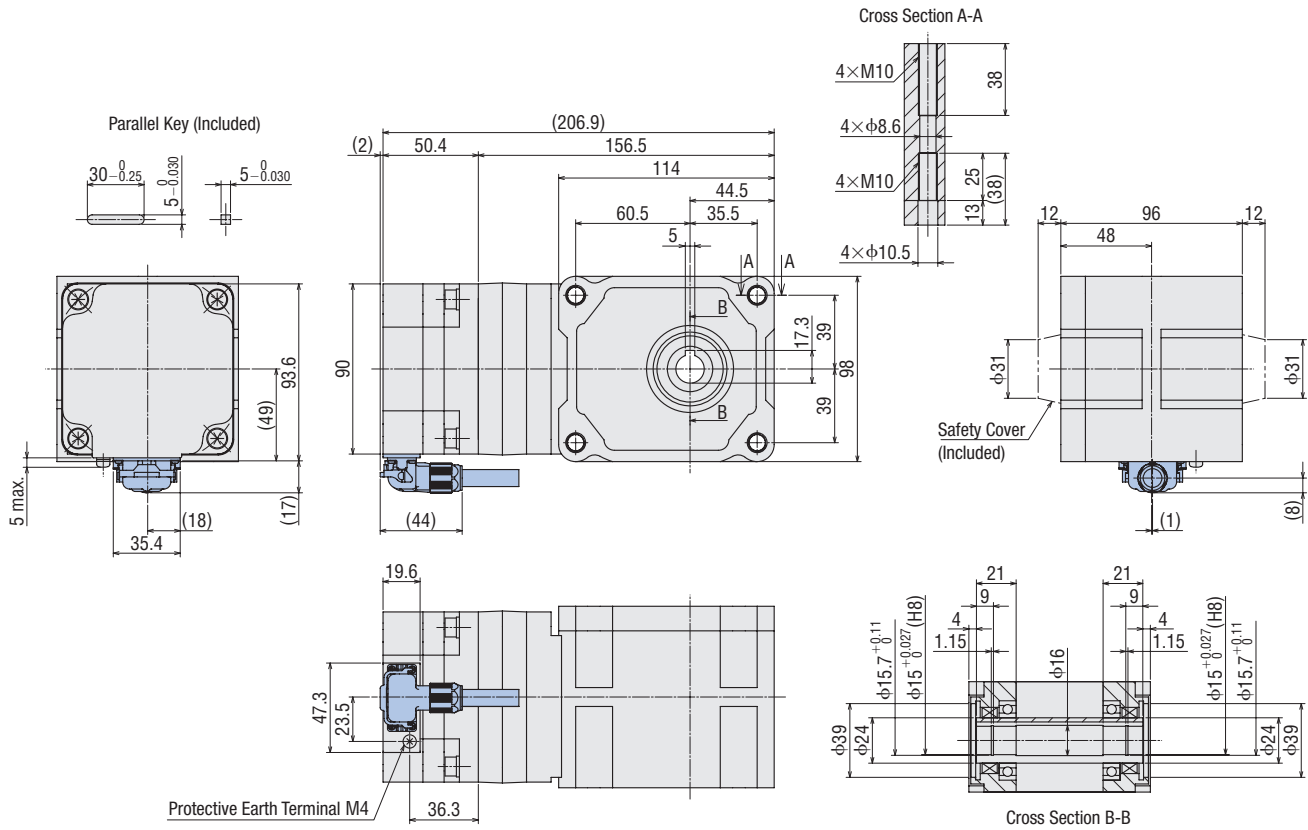
- When attaching a connection cable drawn in the opposite side of the output shaft.



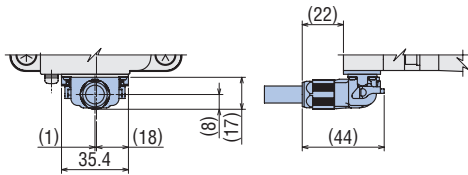
•120 W

Product Name	Motor Product Name	Gearhead Product Name	Mass [kg]
BLM5120HPK-5H□S	BLM5120HPK	5H□S	4.1

- When attaching a connection cable drawn by the output shaft side.



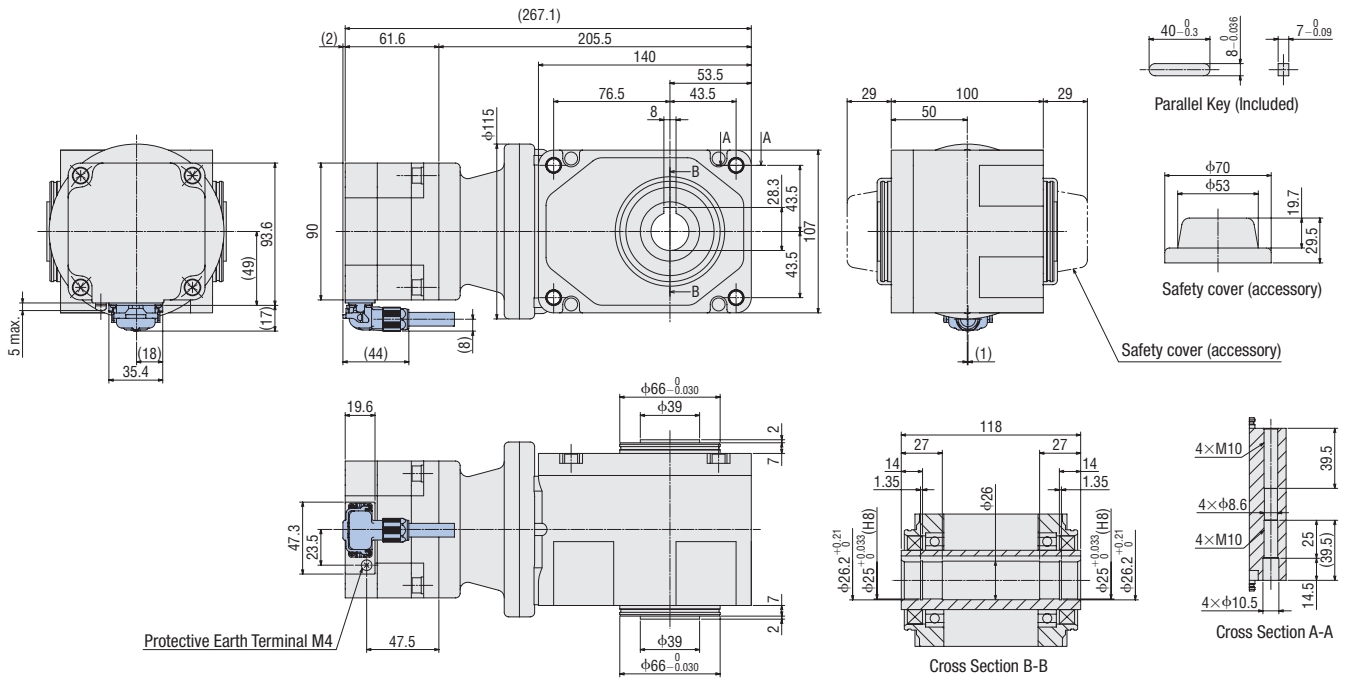
- When attaching a connection cable drawn in the opposite side of the output shaft.



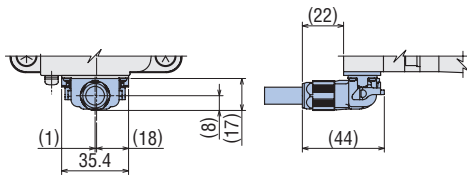
• 200 W

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Mass [kg]
BLM5200HPK-5XH□S	BLM5200HPK	5XH□S	5, 10, 15, 20, 30, 50	6.6

• When attaching a connection cable drawn by the output shaft side.



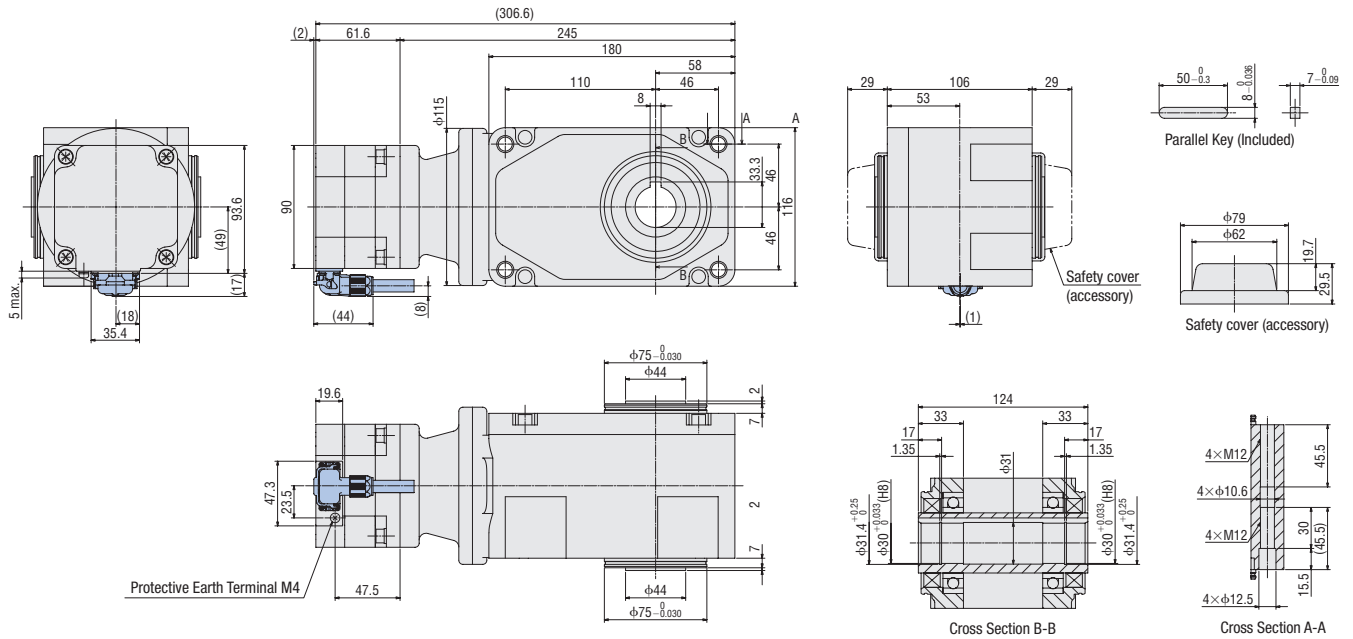
• When attaching a connection cable drawn in the opposite side of the output shaft.



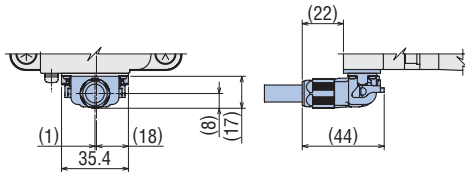
• 200 W

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Mass [kg]
BLM5200HPK-5YH□S	BLM5200HPK	5YH□S	100, 200	8.1

- When attaching a connection cable drawn by the output shaft side.



- When attaching a connection cable drawn in the opposite side of the output shaft.



◇ Foot Mount Type **JB** Geared

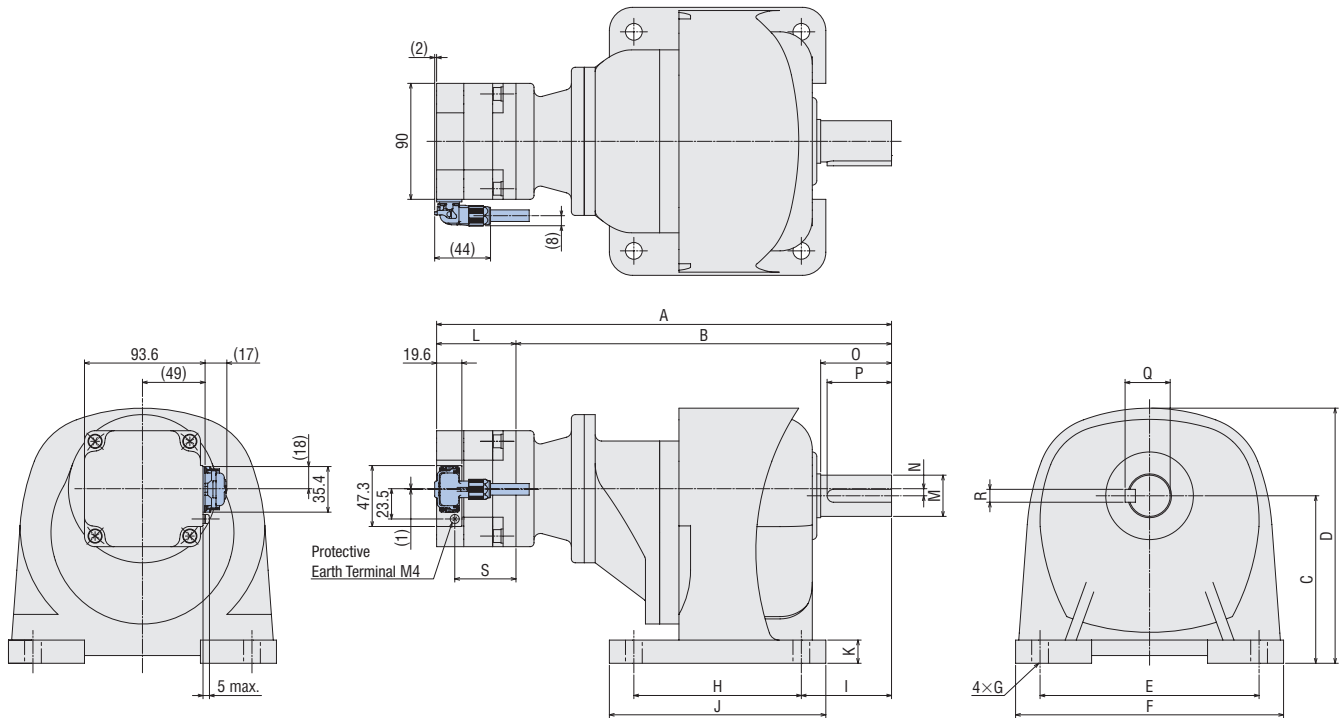
● 200 W

Product Name	Motor Product Name	Gearhead Product Name	L	Dimension Number	Gear Ratio	Mass [kg]
BLM5200HPK-5 ■B□B-L	BLM5200HPK	5 ■B□B	61.6	①	5, 10, 20	4.6
				②	30, 50	5.6
				③	100, 200	7.6
				④	300, 450	11.6
				⑤	600	18.1

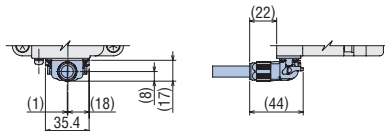
Dimension Number	Total Length	Gearhead Dimensions										Output Shaft Dimensions						S
		A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	
①	(219.1)	157.5	85±0.2	131	110	134	φ9	40	45	64	10	φ18 ⁰ _{-0.011} (h6)	16.5*	30	27	20.5	6	47.5
②	(245.1)	183.5	90±0.2	139	130	154	φ11	65	55	90	12	φ22 ⁰ _{-0.013} (h6)	19*	40	35	24.5	6	
③	(258.1)	196.5	110±0.2	167	140	175	φ11	90	65	125	15	φ28 ⁰ _{-0.013} (h6)	23.5*	45	40	31	8	
④	(353.1)	291.5	130±0.2	198	170	208	φ13	130	70	168	18	φ32 ⁰ _{-0.016} (h6)	5.5	55	50	35	10	
⑤	(375.1)	313.5	150±0.2	230	210	254	φ15	150	90	196	20	φ40 ⁰ _{-0.016} (h6)	0	65	60	43	12	

*The center of the gearhead output shaft is offset above the center of the motor.

● When attaching a connection cable drawn by the output shaft side.



● When attaching a connection cable drawn in the opposite side of the output shaft



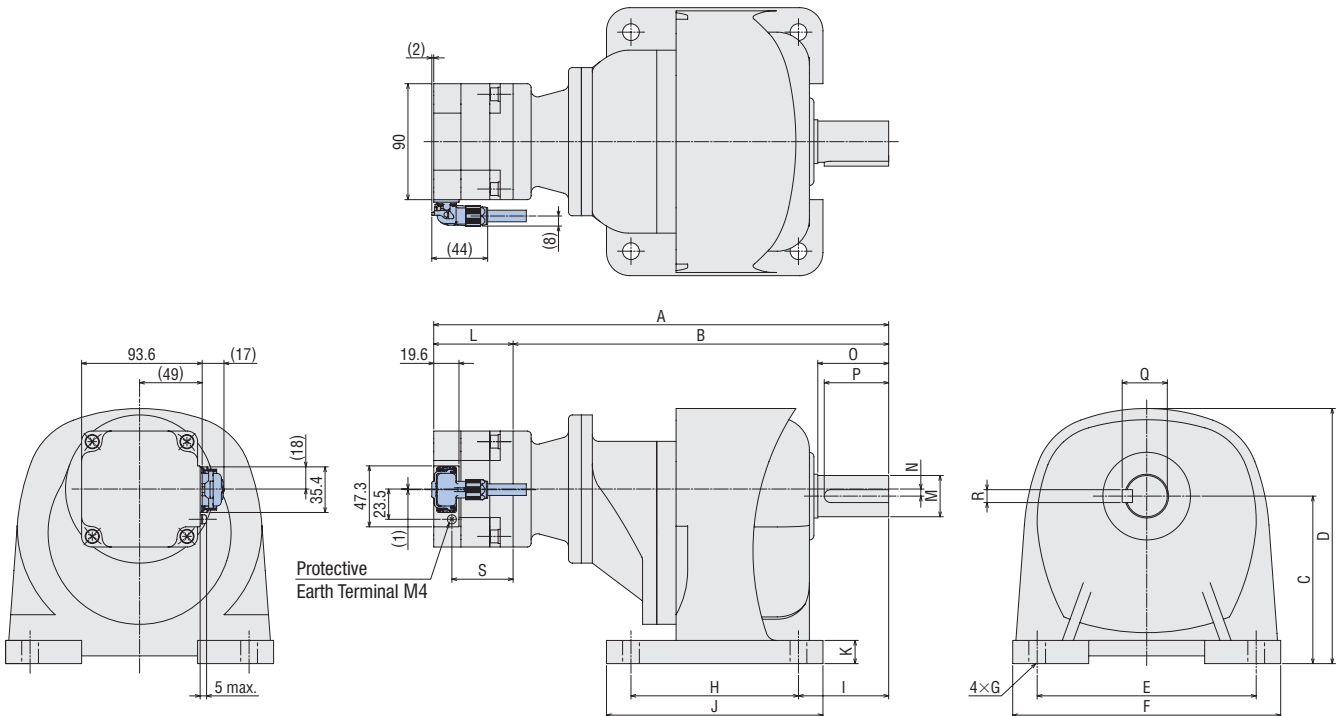
•300 W

Product Name	Motor Product Name	Gearhead Product Name	L	Dimension Number	Gear Ratio	Mass [kg]
BLM5300HPK-5 ■B□B-L	BLM5300HPK	5 ■B□B	72.5	②	5, 10, 20	5.1
				④	30, 50	6.1
				⑥	100, 200	8.1
				⑧	300, 450	12.1
				⑩	600	18.6

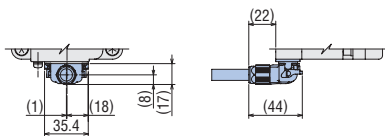
Dimension Number	Total Length	Gearhead Dimensions										Output Shaft Dimensions						S
		A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	
②	(230)	157.5	85±0.2	131	110	134	φ9	40	45	64	10	φ18 ⁰ _{-0.011} (h6)	16.5*	30	27	20.5	6	58.7
④	(256)	183.5	90±0.2	139	130	154	φ11	65	55	90	12	φ22 ⁰ _{-0.013} (h6)	19*	40	35	24.5	6	
⑥	(269)	196.5	110±0.2	167	140	175	φ11	90	65	125	15	φ28 ⁰ _{-0.013} (h6)	23.5*	45	40	31	8	
⑧	(364)	291.5	130±0.2	198	170	208	φ13	130	70	168	18	φ32 ⁰ _{-0.016} (h6)	5.5	55	50	35	10	
⑩	(386)	313.5	150±0.2	230	210	254	φ15	150	90	196	20	φ40 ⁰ _{-0.016} (h6)	0	65	60	43	12	

*The center of the gearhead output shaft is offset above the center of the motor.

•When attaching a connection cable drawn by the output shaft side.



•When attaching a connection cable drawn in the opposite side of the output shaft

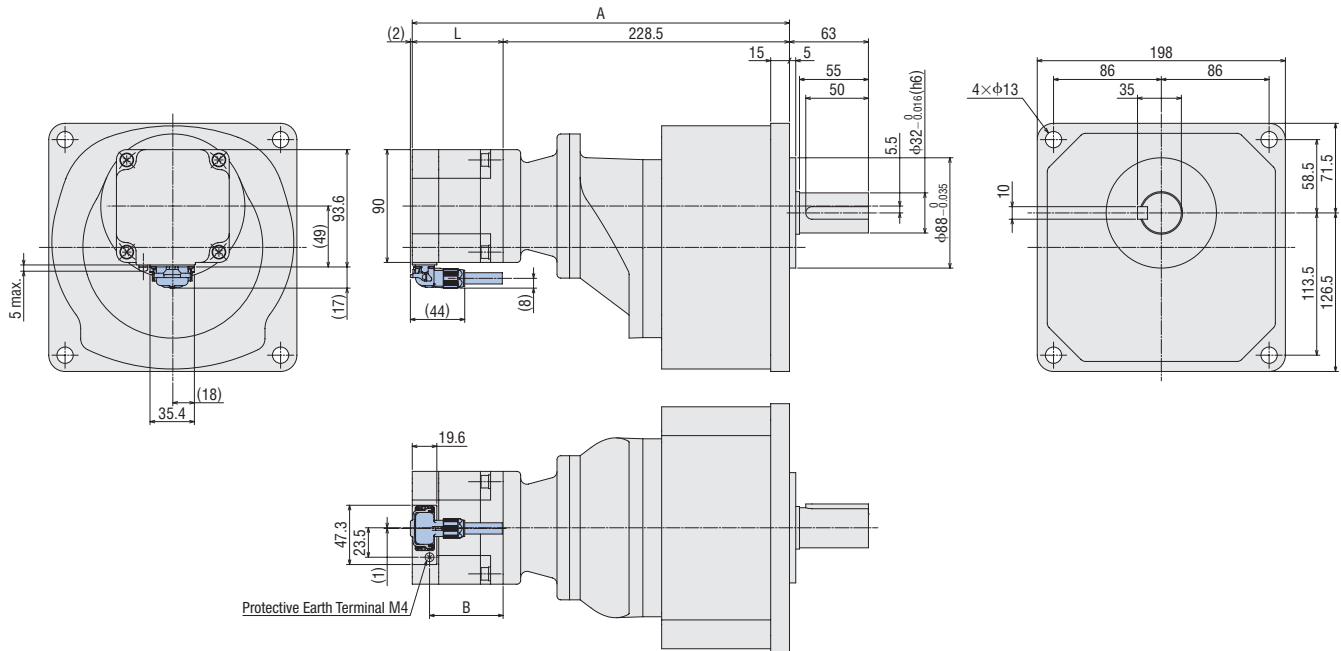


◇ Parallel Shaft **JV** Geared

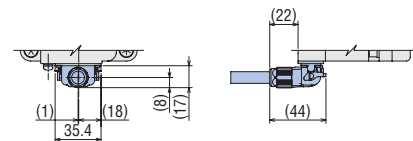
● 200 W

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Dimensions			Mass [kg]
				A	L	B	
BLM5200HPK-5KV□S	BLM5200HPK	5KV□S	300, 450	(290.1)	61.6	47.5	12.1

- When attaching a connection cable drawn by the output shaft side.



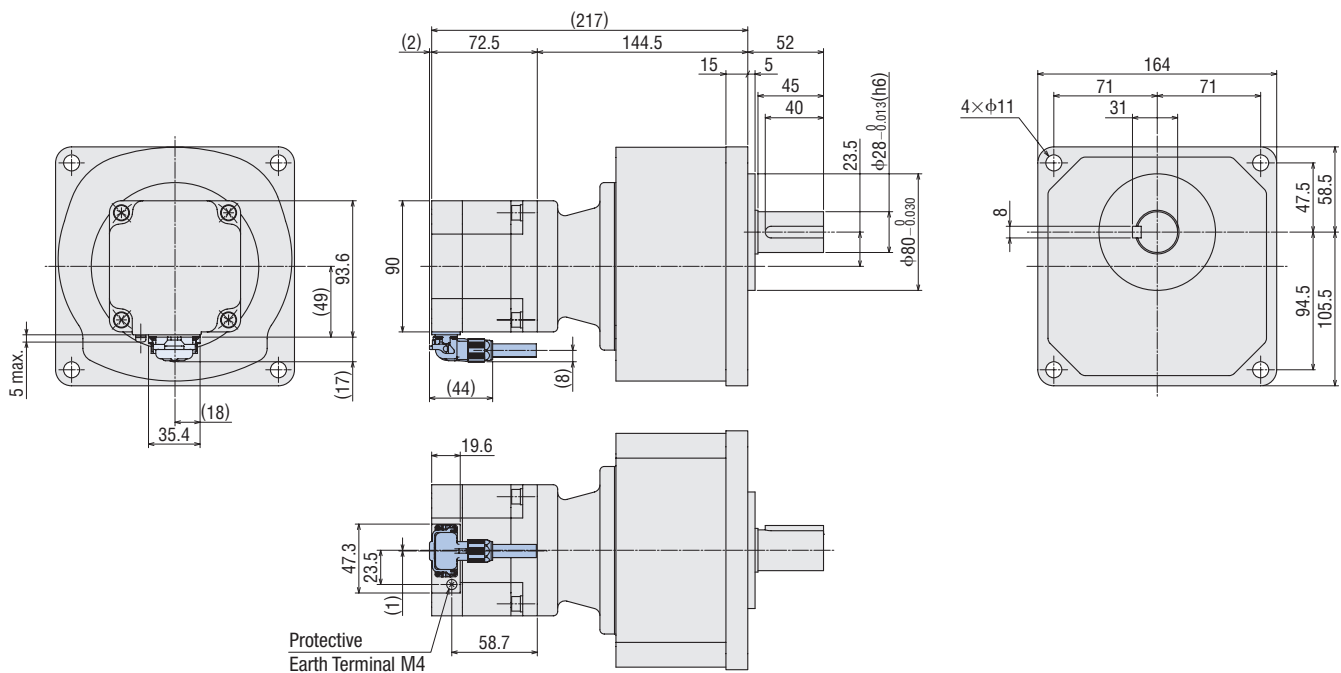
- When attaching a connection cable drawn in the opposite side of the output shaft.



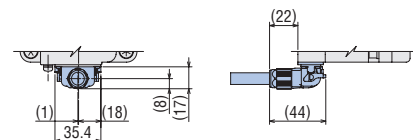
● 300 W

Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Mass [kg]
BLM5300HPK-5DV□S	BLM5300HPK	5KV□S	200	8.6

- When attaching a connection cable drawn by the output shaft side.

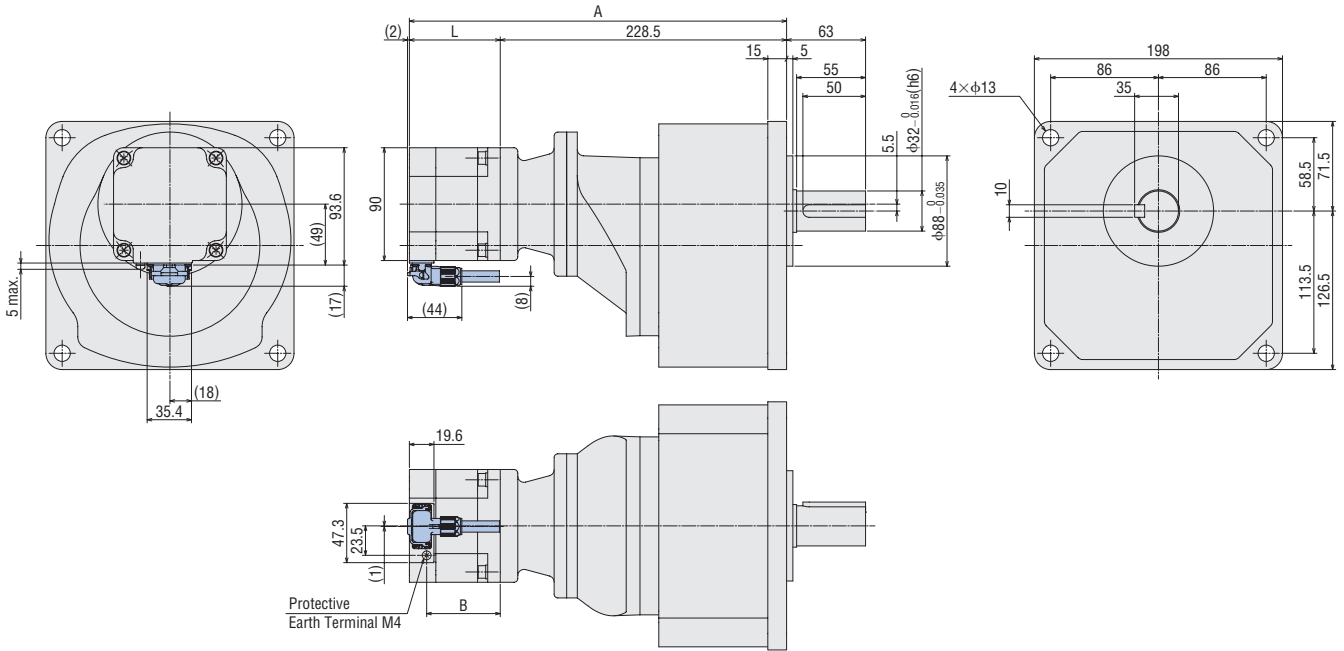


- When attaching a connection cable drawn in the opposite side of the output shaft.

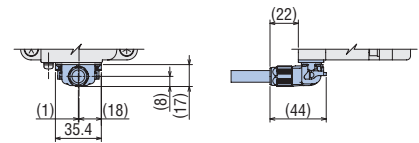


Product Name	Motor Product Name	Gearhead Product Name	Gear Ratio	Mass [kg]
BLM5300HPK-5KV□S	BLM5300HPK	5KV□S	300, 450	12.6

- When attaching a connection cable drawn by the output shaft side.



- When attaching a connection cable drawn in the opposite side of the output shaft.



Mounting the Hollow Shaft Load

Load Shaft Mounting Examples

Installation of the load shaft varies according to the fixing method. Please refer to the illustrations below.

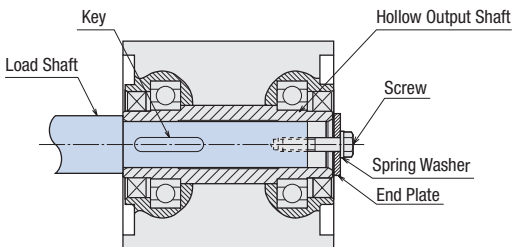
- The hollow output shaft with an inner diameter tolerance of H8 has a key slot. Machine a matching key slot on the load shaft and use the supplied key to affix the two shafts across the slots.
- The recommended tolerance of the load shaft is h7.

Note

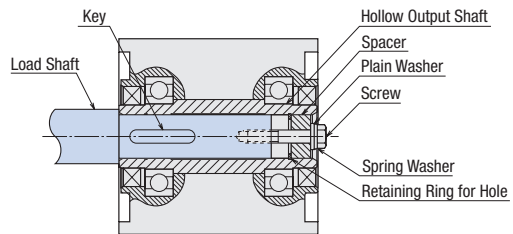
- To prevent sticking, apply grease on the exterior surface of the load shaft and interior surface of the hollow output shaft.

Stepped Load Shaft

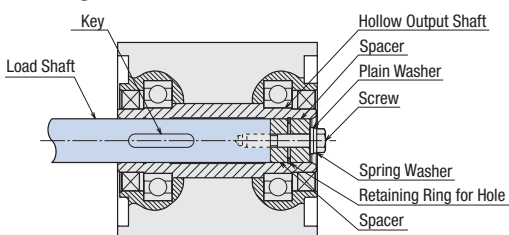
Fixing Method Using an End Plate



Fixing Method Using a Retaining Ring for Hole



Straight Load Shaft



◇ Recommended Load Shaft Installation Dimensions Unit: [mm]

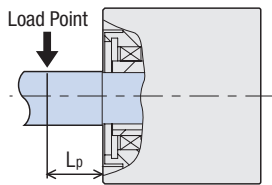
Output Power	120 W	200 W, 300 W	
Gear Ratio	10 - 200	5 - 50	100, 200
Inner Diameter of Hollow Shaft (H8)	$\phi 15^{+0.027}_0$	$\phi 25^{+0.033}_0$	$\phi 30^{+0.033}_0$
Recommended Load Shaft Dimensions (h7)	$\phi 15^0_{-0.018}$	$\phi 25^0_{-0.021}$	$\phi 30^0_{-0.021}$
Stepped shaft La length	72	96	
Screw Size	M6		M8
Spacer Dimensions	Outer Diameter	$\phi 14.5$	$\phi 24.5$
	Inner Diameter	$\phi 7$	
	Thickness	3	4
Nominal Hole Diameter of Retaining Ring	$\phi 15$	$\phi 25$	$\phi 30$
End Plate Thickness	3	4	5

● Retaining rings for holes, spacers, screws and other parts used to install the load shaft are not included.

● Hollow Shaft Type Permissible Radial Load Calculation

The formula for permissible radial load varies depending on the mechanism.

◇ When End of Shaft being Driven is Not Supported by a Bearing



● 60W

$$\text{Permissible Radial Load } W [N] = \frac{68.5}{48.5 + L_p} \times F_0$$

● 120W

$$\text{Permissible Radial Load } W [N] = \frac{79}{59 + L_p} \times F_0$$

● 200W, 300W (Gear Ratio 5~50)

$$\text{Permissible Radial Load } W [N] = \frac{95.5}{75.5 + L_p} \times F_0$$

● 200W, 300W (Gear Ratio 100, 200)

$$\text{Permissible Radial Load } W [N] = \frac{102}{82 + L_p} \times F_0$$

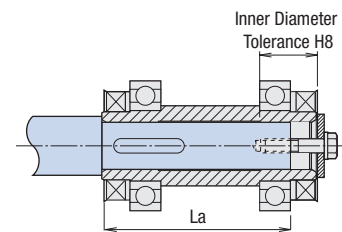
F_0 [N]: Permissible Radial Load 20 mm from Flange-Mounting Surface

L_p [mm]: Distance from Flange-Mounting Surface to Radial Load Point

S [mm]: Distance from Flange-Mounting Surface to Bearing Unit

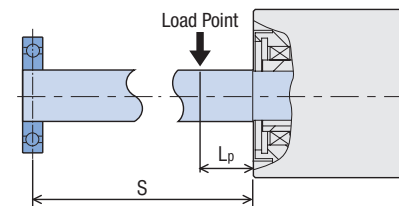
● For the permissible radial load 20 mm from the flange-mounting surface please refer to the Specifications. → Page 11

◇ Length of Load Shaft



It is recommended that the inner diameter tolerance H8 for the load shaft on the fixing side be 5 mm or more.

◇ When End of Shaft being Driven is Supported by a Bearing



● 60W

$$\text{Permissible Radial Load } W [N] = \frac{68.5(S+5.5)}{53(S-L_p)} \times F_0$$

● 120W

$$\text{Permissible Radial Load } W [N] = \frac{79(S+4)}{65(S-L_p)} \times F_0$$

● 200W, 300W (Gear Ratio 5~50)

$$\text{Permissible Radial Load } W [N] = \frac{95.5(S-9)}{104.5(S-L_p)} \times F_0$$

● 200W, 300W (Gear Ratio 100, 200)

$$\text{Permissible Radial Load } W [N] = \frac{102(S-9)}{111(S-L_p)} \times F_0$$

Accessories

Torque Arms

In order to prevent gearheads from rotating due to the reactive force of the shaft being driven, the torque arm acts as an anti-spin mechanism when a right-angle, hollow shaft hypoid JH gearhead is installed.



TAF25-12-NS



(Application Example)

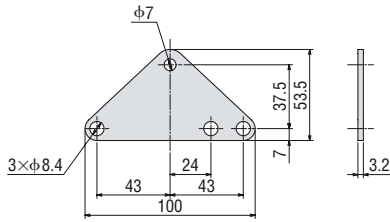
Product Name	Applicable Product	Main Specifications
TAF25-12-NS	BLM460SHPK-4H□S	Material: SS400 Surface treatment: Trivalent chromate
TAF25-15-NS	BLM5120HPK-5H□S	
TAF35-25-2-NS	BLM5200HPK-5XH□S BLM5300HPK-5XH□S	
TAF35-30-3-NS	BLM5200HPK-5YH□S BLM5300HPK-5YH□S	

● A number indicating the gear ratio is entered where the box □ is located within the applicable product name.

Dimensions Unit: mm

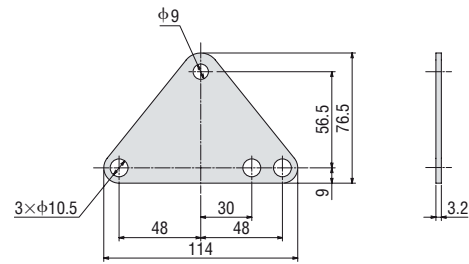
◇ TAF2S-12-NS

Mass: 75 g



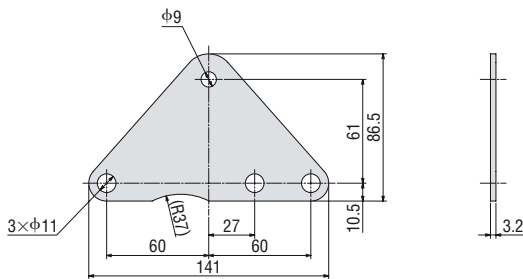
◇ TAF2S-15-NS

Mass: 125 g



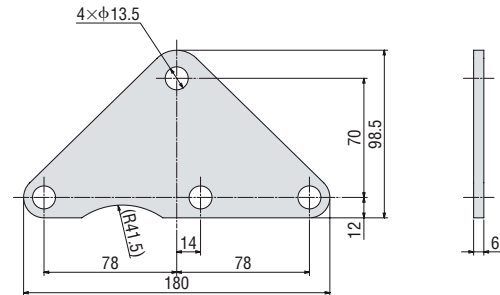
◇ TAF3S-25-2-NS

Mass: 200 g



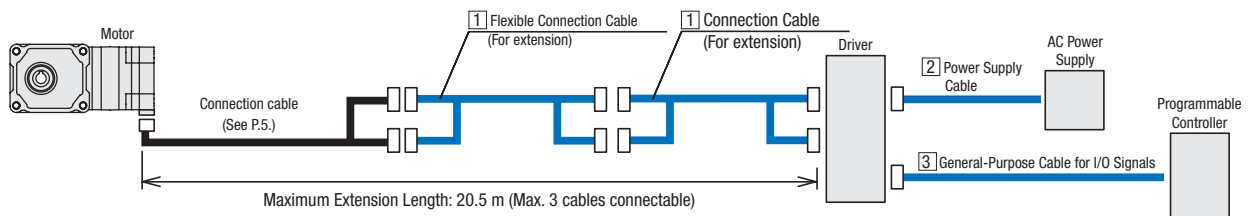
◇ TAF3S-30-3-NS

Mass: 400 g



Option (Sold Separately)

● Cable System Configuration



1 Connection Cables (For extension), Flexible Connection Cables (For extension)

These cables are used to connect the motor and the driver. When using after extending the cables included with the product, the overall length of the cables should not exceed 20.5 m (maximum of 3 connected cables). Use the flexible connection cable in applications where the cable is bent and flexed.

● Product Line

◇ Connection Cables

Product Name	Length L [m]
CC01BL2	1
CC02BL2	2
CC03BL2	3
CC05BL2	5
CC07BL2	7
CC10BL2	10



◇ Flexible Connection Cables

Product Name	Length L [m]
CC01BL2R	1
CC02BL2R	2
CC03BL2R	3
CC05BL2R	5
CC07BL2R	7
CC10BL2R	10



2 Power Supply Cables

These cables are used to connect the driver and the power supply.

Product Line

Product Name	Power Supply Voltage	Length L [m]
CC01AC03N	Single-Phase 200-240 VAC	1
CC02AC03N		2
CC03AC03N		3
CC01AC04N	Three-Phase 200-240 VAC	1
CC02AC04N		2
CC03AC04N		3



3 General-Purpose Cables for I/O Signals

Cables for connecting the driver and programmable controller



Product Line

Product Name	Length L [m]	Number of Lead Wire Cores	Outer Diameter D [mm]	AWG
CC06D005B-1	0.5	6	φ5.4	24
CC06D010B-1	1			
CC06D015B-1	1.5			
CC06D020B-1	2	10	φ6.7	
CC10D005B-1	0.5			
CC10D010B-1	1			
CC10D015B-1	1.5			
CC10D020B-1	2	12	φ7.5	
CC12D005B-1	0.5			
CC12D010B-1	1			
CC12D015B-1	1.5	16	φ7.5	
CC12D020B-1	2			
CC16D005B-1	0.5			
CC16D010B-1	1			
CC16D015B-1	1.5			
CC16D020B-1	2			

Note

The general-purpose cable for I/O signals cannot be used together with an external speed potentiometer **PAVR2-20K**.

Orientalmotor

Diese Produkte werden in Werken hergestellt, die nach den internationalen Normen **ISO 9001** (Qualitätssicherung) und **ISO 14001** (Systeme für Umweltmanagement) zertifiziert sind.

Die Angaben können jederzeit ohne Vorankündigung geändert werden. Dieser Katalog wurde im Januar 2024 veröffentlicht.

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