



DC BRUSHLESS GEAR MOTOR

直流无刷减速电机

ZD®
中大电机
ZHONGDA MOTOR

80系列平行轴减速器 80 SERIES PARALLEL SHAFT REDUCER

■ 低压60W 80mm

■ 高压25W~60W 80mm



P06

■ 低压电机性能参数 Low Voltage Motor Performance Parameters

型号 Model	电压 Voltage V	空载电流 No-load Current A	空载转速 No-load Speed RPM	额定功率 Rated Power W	额定电流 Rated Current A	额定转速 Rated Speed RPM	额定力矩 Rated Torque N.m	防护等级 Grade Protection IP
Z4BLD60-24□	24	0.60	3900	60	3.5	3000	0.19	20
Z4BLD60-36□	36	0.45	3600	60	2.4	3000	0.19	20
Z4BLD60-48□	48	0.30	3400	60	1.8	3000	0.19	20

■ 高压电机性能参数 High Pressure Motor Performance Parameters

型号 Model	电压 Voltage V	频率 Frequency Hz	额定功率 Rated Power W	额定电流 Rated Current A	额定转速 Rated Speed RPM	额定力矩 Rated Torque N.m	防护等级 Grade Protection IP
Z4BLD25-220GN	220-230	50/60	25	0.40	2500	0.10	44
	100-120	50/60	25	0.80	2500	0.10	44
Z4BLD40-220GN	220-230	50/60	40	0.50	2500	0.15	44
	100-120	50/60	40	1.00	2500	0.15	44
Z4BLD60-220GN	220-230	50/60	60	0.65	2500	0.23	44
	100-120	50/60	60	1.30	2500	0.23	44

- 电机电压、功率及转速可在配件尺寸等条件允许下根据客户要求定制。

Motor voltage, power and speed will be customized according to his requestment under the allowed circumstance of adoptable dimension.

■ 种类 Type

● 电动机 Motor

机型 Type	型号 Model	
	齿轮轴型 Pinion Shaft	圆轴型 Round Shaft
导线型 Lead Wire Type	Z4BLD60-24GN	Z4BLD60-24A
	Z4BLD60-36GN	Z4BLD60-36A
	Z4BLD60-48GN	Z4BLD60-48A
	Z4BLD25-220GN	Z4BLD25-220A
	Z4BLD40-220GN	Z4BLD40-220A
	Z4BLD60-220GN	Z4BLD60-220A

● 平行轴减速器（另售）Parallel Shaft Gearhead (Sold Separately)

减速器种类 Gearhead Type	减速器型号 Gearhead Model	减速比 Gear Ratio
长寿命●低噪音 Long Life ● Low Noise	4GN□K	3、3.6、5、6、7.5、9、12.5、15、18、25、30、36、50、60、75、90、100、120、150、180、200
		4GN10XK(中间减速器 Decimal Gearhead)

- 减速器型号的□中为减速比的数值
Enter the gear ratio in the box (□) within the model name

装有减速器时的容许转矩 Gear Motor-torque Table

- 减速器另售;中间减速器另售。
Gearhead and mid-gearbox can be sold separately.
- 减速品型号的□中为减速比的数值。
Enter the gear ratio in the box(□) within the model name.
- 色表示与电动机同一方向运转，其他则为相反方向。
The colored background □ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- 转速是以电动机的额定转速为基准除以减速比而算出来的数值。实际转速将随负载大小变化而比所示数值减少2%~20%左右。
The speed is calculated by dividing the motor's synchronous speed by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- 希望以大于下表的减速比进行进一步减速时，在电动机与减速机之间安装减速比为10的中间减速机。这时的容许转矩为8N·m。
To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead(gear ratio:10)between the gearhead and motor. In that case, the permissible torque is 8N·m.

容许力矩单位 Allowance Torque Unit: 上段 Upside(N.m) / 下段 Belowside(kgf.cm)

减速比 Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
输出轴转速 r/min Out Put Shaft Speed	833	694	500	417	333	278	200	167	139	100	83	69	50	42	33	28	25	21	17	14	12.5
GU允许力矩 N.m Allowance Torque	0.23	0.28	0.39	0.46	0.58	0.70	0.97	1.16	1.39	1.74	2.09	2.51	3.15	3.78	4.73	5.67	6.3	7.56	8.00	8.00	8.00

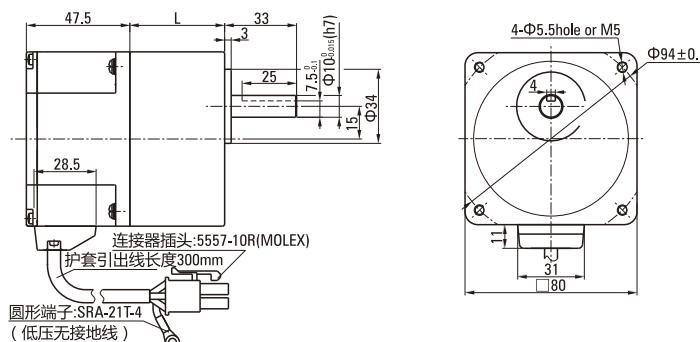
外形图 (单位 mm) Dimensions(Unit mm)

减速器附有安装用螺丝Mounting screws are included with gearhead.

导线型 Lead Wiring Type

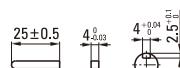
重量 Weight : 电动机 Motor : 0.8kg

减速器 Gearhead : 0.8kg



键·键槽 (减速器附件)

Key · Keyway (The Key Is Included With The Gearhead)



电动机型号 Motor Model	减速器型号 Gearhead Model	减速比 Gear Ratio	L尺寸 Dimension
Z4BLD60-220GN	4GN□K	3~18	32
		25~200	42.5

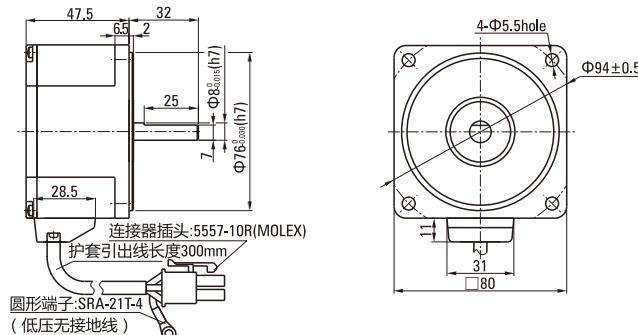
减速器型号的□中为减速比的数值

Enter the gear ratio in the box(□) within the model name

圆轴型的转轴部分 Shaft Section Of Round Shaft Type

除重量及轴部外电动机外形与齿轮轴型相同。

Excluding weight and the shaft section motor shape are the same as those of the pinion shaft type.

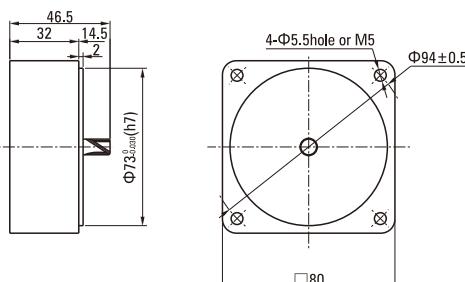


中间减速器 Decimal Gearhead

可安装在GN齿轮轴型上

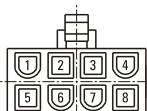
Can be connected to GN pinion shaft type 4GN10XK

重量 Weight : 0.41kg



低电压电机接线插孔对应信号说明

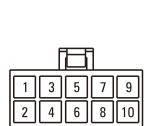
Low Voltage Wrie Plughole Corresp-onding Signal Explanation



plughole	1	2	3	4
signal	U	W	Hz	Hu
plughole	5	6	7	8
signal	V	GND	Hw	Vcc

高压电机接线插孔对应信号说明

High Voltage Wrie Plughole Corresp-onding Signal Explanation



1	2	3	4	5	6	7	8	9	10
蓝(粗)	黄(细)	灰(粗)	绿(细)	粉(粗)	棕(细)		金属丝网	橙(细)	白(细)
W	Hu	U	Hv	V	Hw		Vcc+5V	GND	

90系列平行轴减速器

90 SERIES PARALLEL SHAFT REDUCER

■ 低压120W 90mm

■ 高压40W~120W 90mm



P08

■ 低压电机性能参数 Low Voltage Motor Performance Parameters

型号 Model	电压 Voltage V	空载电流 No-load Current A	空载转速 No-load Speed RPM	额定功率 Rated Power W	额定电流 Rated Current A	额定转速 Rated Speed RPM	额定力矩 Rated Torque N.m	防护等级 Grade Protection IP
Z5BLD120-24□	24	0.85	4050	120	6.5	3000	0.38	20
Z5BLD120-36□	36	0.57	3900	120	4.5	3000	0.38	20
Z5BLD120-48□	48	0.45	3600	120	3.5	3000	0.38	20

■ 高压电机性能参数 High Pressure Motor Performance Parameters

型号 Model	电压 Voltage V	频率 Frequency Hz	额定功率 Rated Power W	额定电流 Rated Current A	额定转速 Rated Speed RPM	额定力矩 Rated Torque N.m	防护等级 Grade Protection IP
Z5BLD40-220GN	220-230	50/60	40	0.50	2500	0.15	44
	100-120	50/60	40	1.00	2500	0.15	44
Z5BLD60-220GU	220-230	50/60	60	0.70	2500	0.23	44
	100-120	50/60	60	1.40	2500	0.23	44
Z5BLD90-220GU	220-230	50/60	90	0.96	2500	0.34	44
	100-120	50/60	90	1.90	2500	0.34	44
Z5BLD120-220GU	220-230	50/60	120	1.40	2500	0.46	44
	100-120	50/60	120	2.80	2500	0.46	44

● 电机电压、功率及转速可在配件尺寸等条件允许下根据客户要求定制。

Motor voltage, power and speed will be customized according to his requestment under the allowed circumstance of adoptable dimension.

■ 种类 Type

● 电动机 Motor

机型 Type	型号 Model	
	齿轮轴型 Pinion Shaft	圆轴型 Round Shaft
导线型 Lead Wire Type	Z5BLD120-24GU	Z5BLD120-24A
	Z5BLD120-36GU	Z5BLD120-36A
	Z5BLD120-48GU	Z5BLD120-48A
	Z5BLD40-220GN	Z5BLD40-220A
	Z5BLD60-220GU	Z5BLD60-220A
	Z5BLD90-220GU	Z5BLD90-220A
	Z5BLD120-220GU	Z5BLD120-220A

● 平行轴减速器 (另售) Parallel Shaft Gearhead (Sold Separately)

减速器种类 Gearhead Type	减速器型号 Gearhead Model	减速比 Gear Ratio
长寿命●低噪音 Long Life ● Low Noise	5GU□KB	3、3.6、5、6、7.5、9、 12.5、15、18、25、30、 36、50、60、75、90、 100、120、150、180、200
		5GU10XK(中间减速器 Decimal Gearhead)

● 减速器型号的□中为减速比的数值
Enter the gear ratio in the box (□) within the model name

装有减速器时的容许转矩 Gear Motor-torque Table

- 减速器另售;中间减速器另售。
Gearhead and mid-gearbox can be sold separately.
- 减速器型号的□中为减速比的数值。
Enter the gear ratio in the box(□) within the model name.
- 色表示与电动机同一方向运转，其他则为相反方向。
The colored background □ indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- 转速是以电动机的额定转速为基准除以减速比而算出来的数值。实际转速将随负载大小变化而比所示数值减少2%~20%左右。
The speed is calculated by dividing the motor's synchronous speed by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- 希望以大于下表的减速比进行进一步减速时，在电动机与减速机之间安装减速比为10的中间减速机。这时的容许转矩为20N·m。
To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead(gear ratio:10)between the gearhead and motor. In that case, the permissible torque is 20N·m.

容许力矩单位 Allowance Torque Unit: 上段 Upside(N.m) / 下段 Belowside(kgf.cm)

减速比 Gear Ratio	3	3.6	5	6	7.5	9	12.5	15	18	25	30	36	50	60	75	90	100	120	150	180	200
输出轴转速 r/min Out Put Shaft Speed	833	694	500	416	333	277	200	167	139	100	83	69	50	42	33	28	25	21	17	14	12.5
GU允许力矩 N.m Allowance Torque	1.12	1.34	1.86	2.24	2.80	3.35	4.20	5.04	6.04	7.59	9.11	10.9	15.2	18.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0

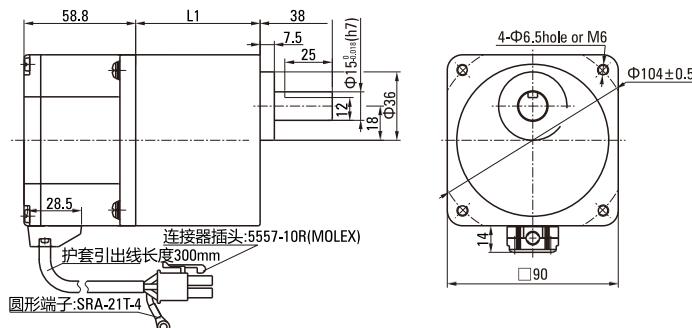
外形图 (单位 mm) Dimensions(Unit mm)

减速器附有安装用螺丝Mounting screws are included with gearhead.

导线型 Lead Wiring Type

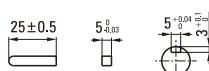
重量 Weight : 电动机 Motor : 1.3kg

减速器 Gearhead : 1.5kg



键·键槽 (减速器附件)

Key · Keyway (The Key Is Included With The Gearhead)



电动机型号 Motor Model	减速器型号 Gearhead Model	减速比 Gear Ratio	L尺寸 Dimension
Z5BLD120-220GU	5GU□KB	3~200	65.5

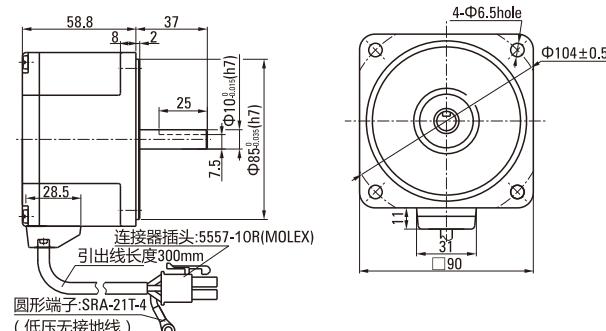
● 减速器型号的□中为减速比的数值

Enter the gear ratio in the box(□) within the model name

圆轴型的转轴部分 Shaft Section Of Round Shaft Type

除重量及轴部外电动机外形与齿轮轴型相同。

Excluding weight and the shaft section motor shape are the same as those of the pinion shaft type.

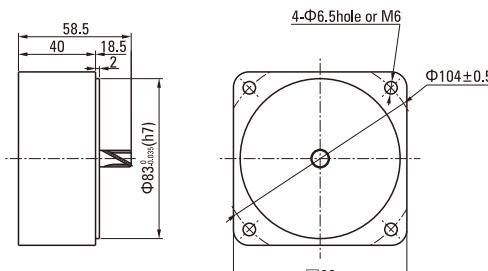


● 中间减速器 Decimal Gearhead

可安装在GU齿轮轴型上

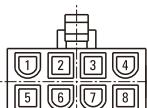
Can be connected to GU pinion shaft type 5GU10XK

重量 Weight : 0.65kg



● 低压电机接线插孔对应信号说明

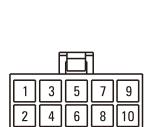
Low Voltage Wrie Plughole Corresponding Signal Explanation



plughole	1	2	3	4
signal	U	W	Hz	Hu
plughole	5	6	7	8
signal	V	GND	Hw	Vcc

● 高压电机接线插孔对应信号说明

High Voltage Wrie Plughole Corresponding Signal Explanation



排线对应的意义									
1	2	3	4	5	6	7	8	9	10
蓝(粗)	黄(细)	灰(粗)	绿(细)	粉(粗)	棕(细)		金属丝网	橙(细)	白(细)
W	Hu	U	Hv	V	Hw		Vcc+5V	GND	

Z55D系列平行轴减速器

Z55D SERIES PARALLEL SHAFT REDUCER

■ 200W □ 90mm



P10

■ 低压电机性能参数 Low Voltage Motor Performance Parameters

型号 Model	电压 Voltage V	空载电流 No-load Current A	空载转速 No-load Speed RPM	额定功率 Rated Power W	额定电流 Rated Current A	额定转速 Rated Speed RPM	额定力矩 Rated Torque N.m	防护等级 Grade Protection IP
Z55BLD200-24GU	24	0.8	3600	200	9.6	3000	0.64	20
Z55BLD200-36GU	36	0.6	3450	200	7.0	3000	0.64	20
Z55BLD200-48GU	48	0.5	3300	200	5.0	3000	0.64	20

- 电机电压、功率及转速可在配件尺寸等条件下根据客户要求定制。

Motor voltage, power and speed will be customized according to his request under the allowed circumstance of adoptable dimension.

■ 种类 Type

● 电动机 Motor

机型 Type	型号 Model	
	齿轮轴型 Pinion Shaft	圆轴型 Round Shaft
Z55BLD200-24GU	Z55BLD200-24A1	
Z55BLD200-36GU	Z55BLD200-36A1	
Z55BLD200-48GU	Z55BLD200-48A1	

● 平行轴减速器 (另售) Parallel Shaft Gearhead (Sold Separately)

减速器种类 Gearhead Type	减速器型号 Gearhead Model	减速比 Gear Ratio
长寿命●低噪音 Long Life ● Low Noise	5GU□KB	3、3.6、5、6、7.5、9、12.5、15、18、25、30、36、50、60、75、90、100、120、150、180、200
5GU10XK(中间减速器 Decimal Gearhead)		

- 减速器型号的□中为减速比的数值。

Enter the gear ratio in the box (□) within the model name

■ 装有减速器时的容许转矩 Gear Motor-torque Table

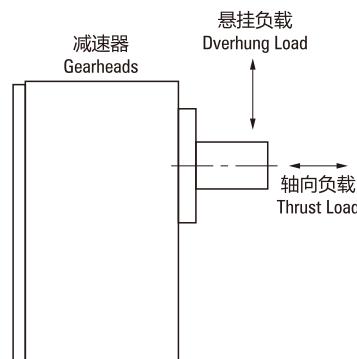
- 减速器另售，中间减速器另售。
Gearhead and mid-gearbox can be sold separately.
- 减速器型号的□中为减速比的数值。
Enter the gear ratio in the box (□) within the model name.
- □色表示与电动机同一方向运转，其他则为相反方向。
The colored background (□) indicates the same rotating direction of the motor while the rotating direction of others are opposite.
- 转速是以电动机的额定转速为基准除以减速比而算出来的数值。实际转速将随负载大小变化而比所示数值减少2%~20%左右。
The speed is calculated by dividing the motor's synchronous speed by the gear ratio. The actual speed is 2%~20% less than the displayed value, depending on the size of the load.
- 希望以大于下表的减速比进行进一步减速时，可在电动机与减速机之间安装减速比为10的中间减速机。这时的容许转矩为20N·m。
To reduce the speed beyond the gear ratio in the table, attach a decimal gearhead(gear ratio:10)between the gearhead and motor. In that case, the permissible torque is 20N·m.

通用规格 COMMON SPECIFICATIONS

■ 电动机的容许悬挂负载·容许轴向负载 Permissible Overhung Load And Permissible Thrust Load Of Motor

容许悬挂负载 Permissible Overhung Load

电动机Motor		容许悬挂负载 Permissible Overhung Load	
安装尺寸 Motor Frame Size □(mm)	输出轴直径 Output Shaft Diameter □(mm)	距轴端的距离 Distance from Shaft End	
		10mm	20mm
42	5	40	-
60	6	50	110
70	6	40	60
80	8	90	140
	10	110	120
90	10	140	200
	12	240	270
100	14	320	350



容许轴向负载。

Permissible Thrust Load.

请尽量不要施加轴向负载。即使不得已的情况下，请将轴向负载控制在电动机重量的一半以下。
Avoid thrust loads as much as possible. If thrust load is unavoidable, keep it to half or less of the motor mass.

■ 电动机的容许悬挂负载·容许轴向负载 Permissible Overhung Load And Permissible Thrust Load Of Motor

型号 Model	减速比 Gear Ratio	最大容许转矩 Maximum Permissible Torque N.m	容许悬挂负载 Permissible Overhung Load N		容许轴向 Permissible Thrust Load N
			距轴端10mm 10mm from Shaft End	距轴端20mm 20mm from Shaft End	
0GN□K	3~60	1.0	20	-	15
2GN□K	3~18	3.0	50	80	30
	25~200		120	180	
3GN□K	3~18	5.0	80	120	40
	25~200		150	250	
4GN□K	3~18	8.0	100	150	50
	25~200		200	300	
5GN□K	3~18	10	250	350	100
	25~200		300	450	
5GU□KB 5GU□K	3~9	20	400	500	150
	12.5~18		450	600	
	25~200		500	700	
5GU□K	3~200	40	1100	1500	300

■ 减速器的容许负载惯性惯量J Permissible Load Inertia for Gearhead J

连接到减速器上的负载惯性惯量 (J) 较大的情况下，在频繁的间歇运转的起动瞬间（或以电磁制动及制动器进行急停时）会出现瞬时较大的转矩。该冲击负载过大会导致减速器及电动机损坏。

When a high load inertia (J) is connected to a gearhead, high torque is exerted instantaneously on the gearhead when starting up in frequent, discontinuous operations (or when stopped by an electromagnetic brake, or when stopped instantaneously by a brake pack). Excessive impact loads can cause the gearhead or motor damage.

下面列出了电动机轴上的容许负载惯性惯量的值，使用时请控制在此数值下。三相电动机的容许负载惯性惯量是指从一旦停止运转后再进行反转时的数值。

The table below gives values for permissible load inertia on the motor shaft. Use the motor and gearhead within these parameters. The permissible inertial load value shown for three-phase motors is the value when reversing after a stop.

请利用下面的公式计算减速器输出轴上的容许惯性惯量 (J)。

The permissible load inertia (J) on the gearhead output shaft is calculated with the following equation.

通过带电磁制动电动机、制动器及速度控制电动机的瞬时停下来运转容许负载惯性惯量时的使用寿命为200万次。

The life of the gearhead when operating at the permissible inertial load with instantaneous stops of the motors with electromagnetic brakes, brake packs or speed control motors is at least 2 million cycles.

■ 减速器输出轴上的容许负载惯性惯量 Permissible Load Inertia For GearHead Output Shaft

减速比 $1/3 \sim 1/50$ 时 $JG = JM \times I$
 减速比 $1/60$ 以上时 $JG = JM \times 2500$

JG: 减速器输出轴容许负载惯性惯量J($\times 10 \text{ kg. m}^2$)
JM: 减速器输出轴容许负载惯性惯量J($\times 10 \text{ kg. m}^2$)

Gear ratio 1/3 ~ 1/50 $JG = JM \times I$

JG: Permissible load inertia gearhead output shaft J ($\times 10 \text{ kg} \cdot \text{m}^2$)
 IC: Permissible load inertia of the motor shaft J ($\times 10 \text{ kg} \cdot \text{m}^2$)

Gear ratio 1/60 or higher $JG = JM \times I$

JG: Permissible load inertia at the motor shaft J ($\times 10^{-3}$)

■ 电动机轴上的容许负载惯性惯量 Permissible Load Inertia At The Motor Shaft

电动机电源相数 No.of Phase	安装尺寸 Motor Frame Size	输出功率 Output Power	电动机轴上的容许负载惯性惯量 Permissible Load Inertia at the Motor Shaft	
			J($\times 10^{-4}$ kg.m ²)	GD ² (kg.m ²)
单相 Single-phase	42	1W、3W	0.016	0.07
		3W※、6W	0.062	0.25
		6W※、15W	0.14	0.52
		10W※、25W	0.31	1.2
		20W※、40W	0.75	3
	90	60W	1.1	4.6
		90W	1.1	4.6
		120W	1.1	4.6
		120W	2	8
	100	140W	2	8
		180W	2	8
三相 Three-phase	60	6W	0.062	0.25
		15W	0.14	0.52
		25W	0.31	1.2
		40W	0.75	3
		60W	1.1	4.6
	90	90W	1.1	4.6
		120W	1.1	4.6
		120W	2	8
		140W	2	8
		180W	2	8
直流 DC Power	60	6W、10W、15W	0.062	0.25
		15W	0.14	0.52
		25W、40W	0.31	1.2
		40W	0.75	3
		60W	1.1	4.6
	90	90W	1.1	4.6
		120W	1.1	4.6
		250W	2	8

*是指转矩电动机的输出功率

※Output power for torque motors

减速器容许转矩的计算 The Calculation For The Permissible Torque Of Gearhead

部分机型并未列在容许转矩表上，需要时可按以下公式计算。

Permissible torque for some products are omitted. In that case, use the equation below to calculate the permissible torque.

容许转矩Permissible Torque $T_G = TM \times i \times n$

TG: 减速器容许转矩 Permissible Torque of Gearhead

TM: 电动机转矩 Motor Torque

n: 减速器传动效率 Gearhead Efficiency

减速器传动效率 Gearhead Efficiency

选购配件 ACCESSORIES

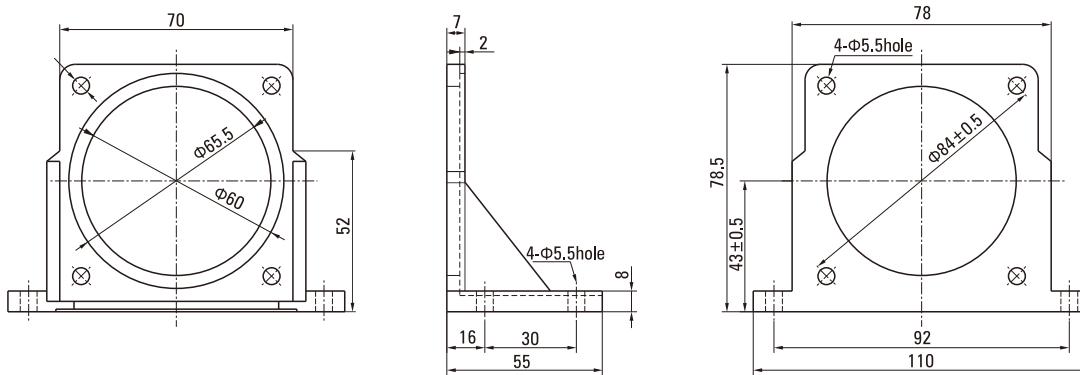
■ 电动机·减速器用安装底座 Motor / Gearhead Mounting Brackets

便于安装固定电动机、减速器的专用安装底座。为可对应大功率电动机、减速器的高强度型产品。安装底座上钻有螺孔，请用减速器附属的螺丝来组合电动机与减速器。安装电动机单体时，请另用安装用螺丝。
Mounting Brackets for attaching and securing a motor and gearhead. They are high-strength type, Which can be used with high power motors /gearheads. These brackets come with tapped holes. To mount the motor and gearhead, simply fasten with screws provided to the gearhead. To mount the motor alone, mounting screws must be provided separately.



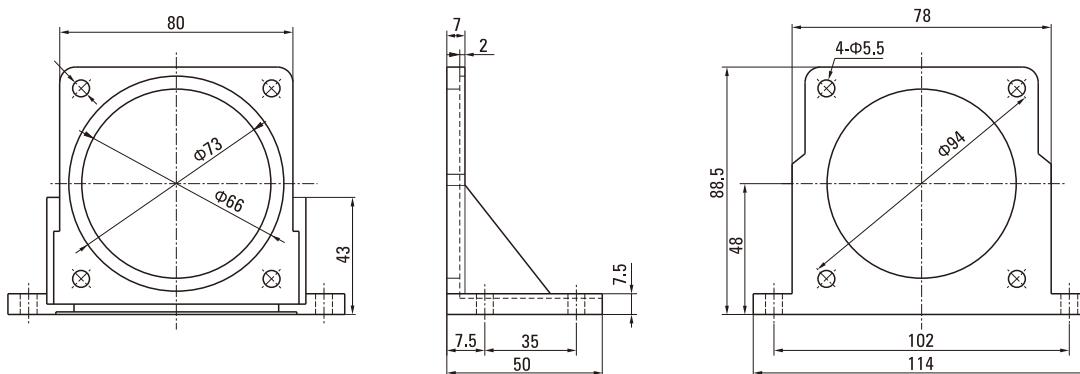
■ 安装尺寸70mm用 Motor Frame Size:70mm

型号Model: ZD3M5 重量Weight: 160g 材质Material: 铝合金Aluminum
适用产品Applicable Products: 3GN减速器3GN Gearhead
安装尺寸□70mm电动机Motor with the frame size of □70mm



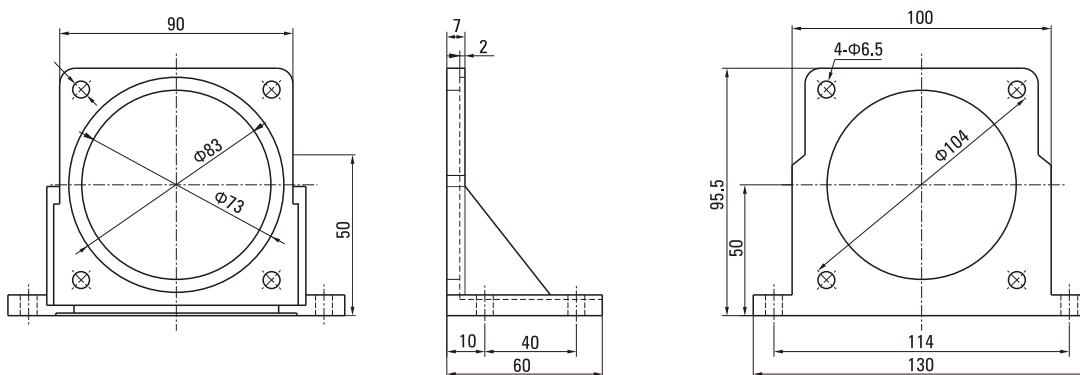
■ 安装尺寸80mm用 Motor Frame Size:80mm

型号Model: ZD4M5 重量Weight: 200g 材质Material: 铝合金Aluminum
适用产品Applicable Products: 4GN减速器4GN Gearhead
安装尺寸□80mm电动机Motor with the frame size of □80mm



■ 安装尺寸90mm用 Motor Frame Size:90mm

型号Model: ZD5M5 重量Weight: 270g 材质Material: 铝合金Aluminum
适用产品Applicable Products: 5GN、5GU减速器5GN、5GU Gearhead
安装尺寸□90mm电动机Motor with the frame size of □90mm

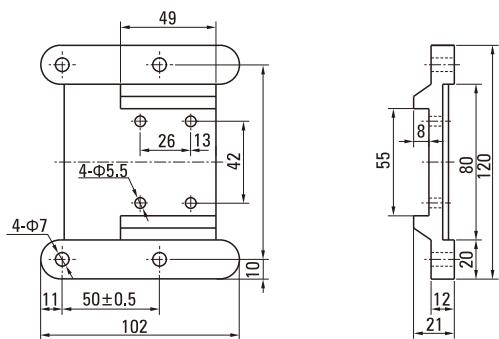


■ 安装尺寸80、90、104mm 用 Motor Frame Size:80、90、104mm

型号Model: ZD6M6 重量Weight: 260g 材质Material: 铝合金Aluminum

适用产品Applicable Products: 4GN减速器4GN Gearhead

安装尺寸□80、90、104mm电动机Motor with the frame size of □80、90、104mm



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■ 电动机用端子箱 Terminal Box For Motor

根据客户的需求，可选择以下类型的端子箱。

You can select from following types of terminal boxes according to customer's request.

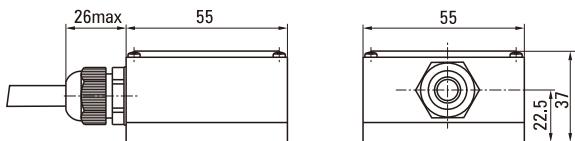
型号Model: ZDTX

重量Weight: 90g 材质Material: 铝合金Aluminum

适用产品Applicable Products: 4GN减速器4GN Gearhead

安装尺寸□80、90、104mm电动机

Motor with the frame size of □80、90、104mm



● 适用电缆直径为Use cable with a diameter of $\Phi 4\sim 8\Phi mm$

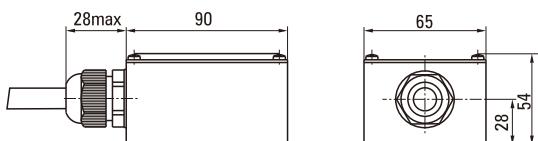
型号Model: ZDTX

重量Weight: 290g 材质Material: 铝合金Aluminum

适用产品Applicable Products: 4GN减速器4GN Gearhead

安装尺寸□80、90、104mm电动机

Motor with the frame size of □80、90、104mm



● 适用电缆直径为Use cable with a diameter of $\Phi 4\sim 8\Phi mm$

CATALOGUE



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