



KING MAX HOBBY®

PRODUCTS CATALOG **2023**

Professional servos and related electronic equipments manufacturer

CAR SERVOS
UAV SERVOS
ROBOT SERVOS
AIRPLANE SERVOS
INDUSTRIAL SERVOS
HELICOPTER SERVOS
SAIL WINCH SERVOS
GEARS AND GEAR BOX
ELECTRONIC EQUIPMENTS





ABOUT KINGMAX HOBBY

KingMax High Performance Servos is a company that specializes in developing, manufacturing and distributing RC hobby products, including servos, brushless motors, electronic speed controllers, receivers (Cooltec), and CNC aluminum parts.etc. We have been in business for 19 years and have established ourselves as a reliable and trustworthy brand within the hobby industry.

KingMax Hobby prides itself on producing high-quality products that are both durable and easy to use. We are constantly innovating and improving our designs to ensure that we stay ahead of the competition.

Additionally, we offer excellent customer service and support, so if you ever have any questions or issues with our products, we are more than happy to help you out.

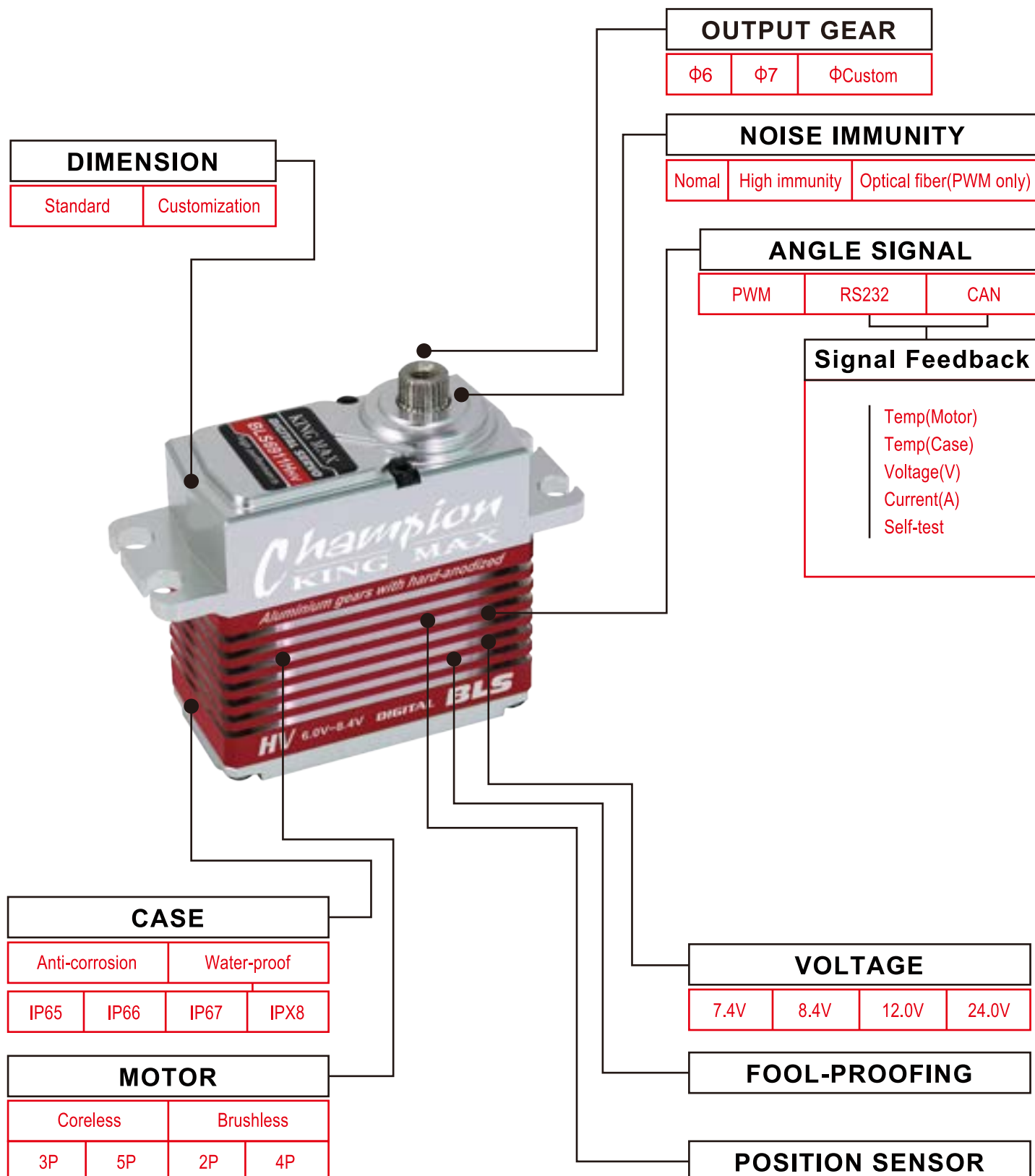
Overall, if you're looking for reliable and high-quality remote control hobby products, KingMax Hobby is definitely a brand to consider.

www.kingmaxhobby.com

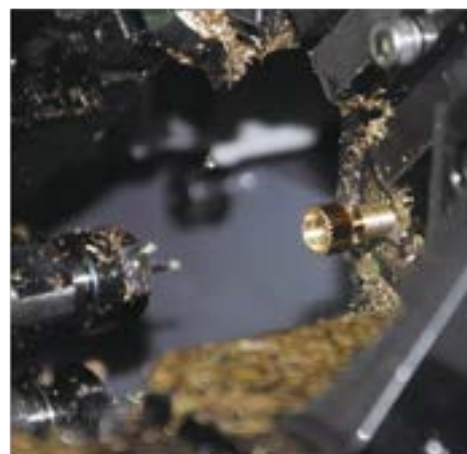
www.kingmaxhobby.eu



We offer free laser for customized servos. For more detailed information, please get to the customer service



Equipped with advanced gear hobbing machine and injection molding machine, we are able to help you design and produce miniature gear box, metal gears and plastic gears or customized gears with super high precision (approximately JGMA 2 to 4 grade). Besides which, there are some other professional equipment such as milling machine, grinder and spark erosion machine for mould making. These gears have been widely used by our OEM clients in many ways, like in electric toys, medical, printers and even in sex products. etc. All inquiries welcome!



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ITEM:	TTL39-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.27s/60°	0.23s/60°	0.19s/60°	0.18s/60°
Stall Torque:	30kg.cm	36kg.cm	39kg.cm	44kg.cm
Working angle:	270°	Dimensions:		40*20*40.5mm
Pulse Width Range	0~4095	Gear:		Full metal
COMM/IF:	TTL Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	64.5g(2.27oz)	Spline:		Standard 25T
Connector/plug:	3Pin-2.0mm	Motor:		DC motor



ITEM:	TTL40-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.26s/60°	0.21s/60°	0.18s/60°	0.17s/60°
Stall Torque:	32kg.cm	36kg.cm	40kg.cm	44kg.cm
Working angle:	270°	Dimensions:		40*20*40.5mm
Pulse Width Range	0~4095	Gear:		Full metal
COMM/IF:	TTL Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	61.5g(2.39oz)	Spline:		Standard 25T
Connector/plug:	3Pin-2.0mm	Motor:		DC motor



ITEM:	RS39-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.27s/60°	0.23s/60°	0.19s/60°	0.18s/60°
Stall Torque:	30kg.cm	36kg.cm	39kg.cm	44kg.cm
Working angle:	270°	Dimensions:		40*20*40.5mm
Pulse Width Range	0~4095	Gear:		Full metal
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	64.5g(2.27oz)	Spline:		Standard 25T
Connector/plug:	3Pin-2.0mm	Motor:		DC motor



ITEM:	RS41-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.26s/60°	0.21s/60°	0.18s/60°	0.17s/60°
Stall Torque:	32kg.cm	36kg.cm	40kg.cm	44kg.cm
Working angle:	270°	Dimensions:		40*20*40.5mm
Pulse Width Range	0~4095	Gear:		Full metal
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	61.5g(2.39oz)	Spline:		Standard 25T
Connector/plug:	3Pin-2.0mm	Motor:		DC motor



ITEM:	RS40-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°
Stall Torque:	30kg.cm	35kg.cm	40kg.cm	45kg.cm
Working angle:	180°	Dimensions:		40*20*38.7mm
Pulse Width Range	0~4095	Gear:		Steel gear
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	91.5g(3.22oz)	Spline:		Standard 25T
Connector/plug:	22 AWG 220mm	Motor:		Brushless motor



ITEM:	RS53-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°
Stall Torque:	35kg.cm	45kg.cm	53kg.cm	60kg.cm
Working angle:	180°	Dimensions:		40*20*38.7mm
Pulse Width Range	0~4095	Gear:		Steel gear
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	91.5g(3.22oz)	Spline:		Standard 25T
Connector/plug:	22 AWG 220mm	Motor:		Brushless motor



ITEM:	RS75-8			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°
Stall Torque:	49kg.cm	61kg.cm	75kg.cm	83kg.cm
Working angle:	180°	Dimensions:		40*20*38.7mm
Pulse Width Range	0~4095	Gear:		Steel gear
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	91.5g(3.22oz)	Spline:		Standard 25T
Connector/plug:	22 AWG 220mm	Motor:		Brushless motor



ITEM:	RS93-16			
Operating voltage:	7.4V	8.4V	12V	15V
Operating Speed:	0.20s/60°	0.18s/60°	0.12s/60°	0.10s/60°
Stall Torque:	52kg.cm	57kg.cm	79kg.cm	93kg.cm
Working angle:	180°	Dimensions:		40*20*38.7mm
Pulse Width Range	0~4095	Gear:		Steel gear
COMM/IF:	RS485 Half duplex	Bearing:		2BB
Neutral Position	2048	Baud Rate		115200 bps
Weight:	91.5g(3.22oz)	Spline:		Standard 25T
Connector/plug:	22 AWG 220mm	Motor:		Brushless motor

ITEM:	RS98-24		
Operating voltage:	12V	24V	
Operating Speed:	0.21s/60°	0.11s/60°	
Stall Torque:	50kg.cm	98kg.cm	
Working angle:	180°	Dimensions:	40*20*38.7mm
Pulse Width Range	0~4095	Gear:	Steel gear
COMM/IF:	RS485 Half duplex	Bearing:	2BB
Neutral Position	2048	Baud Rate	115200 bps
Weight:	91.5g(3.22oz)	Spline:	Standard 25T
Connector/plug:	22 AWG 220mm	Motor:	Brushless motor



GOLDEN SERIES SERVOS



ITEM:	GDC0414		
Operating voltage:	3.5V	5.0V	
Operating Speed:	0.11s/60°	0.07s/60°	
Stall Torque:	1.0kg.cm	1.4kg.cm	
Dimensions:	20*8.4*17.4mm/0.78x0.32x0.67in		
Operating voltage:	DC3.5V~5.0V	Gear:	Heavy duty resin
Dead band width:	2us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	4g(0.14oz)	Waterproof:	No
Connector/plug:	JR120mm	Motor:	Coreless motor



ITEM:	GDC0415		
Operating voltage:	3.5V	5.0V	
Operating Speed:	0.11s/60°	0.08s/60°	
Stall Torque:	1.0kg.cm	1.5kg.cm	
Dimensions:	20*8.4*19.4mm/0.78x0.32x0.75in		
Operating voltage:	DC3.5V~5.0V	Gear:	Heavy duty resin
Dead band width:	2us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	4.4g(0.15oz)	Waterproof:	No
Connector/plug:	JR120mm	Motor:	Coreless motor



ITEM:	GDC0519		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.10s/60°	0.07s/60°	0.06s/60°
Stall Torque:	1.5kg.cm	1.9kg.cm	2.1kg.cm
Dimensions:	21*11.4*17.7mm/0.81x0.44x0.69in		
Operating voltage:	DC3.5V~6.0V	Gear:	Heavy duty resin
Dead band width:	3us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	5g(0.17oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	Coreless motor



ITEM:	GDC0822		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.11s/60°	0.09s/60°	0.07s/60°
Stall Torque:	1.6kg.cm	2.2kg.cm	2.7kg.cm
Dimensions:	21*11.4*17.7mm/0.81x0.44x0.69in		
Operating voltage:	DC3.5V~6.0V	Gear:	Full metal
Dead band width:	3us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	8g(0.28oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	Coreless motor



ITEM:	GDD0920		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.10s/60°	
Stall Torque:	2.0kg.cm	2.0kg.cm	
Dimensions:	23*12*23.4mm/0.89x0.46x0.91in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	3us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	9g(0.31oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD1338		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.11s/60°	0.09s/60°	
Stall Torque:	3.8kg.cm	4.1kg.cm	
Dimensions:	23*12*23.4mm/0.89x0.46x0.91in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	3us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	13g(0.45oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD1780		
Operating voltage:	5.0V	6.0V	7.4V
Operating Speed:	0.11s/60°	0.09s/60°	0.07s/60°
Stall Torque:	5.5kg.cm	6.8kg.cm	8.0kg.cm
Dimensions:	26*12*25mm/1.01x0.46x0.97in		
Operating voltage:	DC5.0V~7.4V	Gear:	Full metal
Dead band width:	3us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	17g(0.59oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD2043		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.11s/60°	
Stall Torque:	4.3kg.cm	5.0kg.cm	
Dimensions:	28*13*26.7mm/1.09x0.50x1.04in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	3us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	20g(0.70oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD2190		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.13s/60°	0.11s/60°	
Stall Torque:	9.0kg.cm	10kg.cm	
Dimensions:	36*15*28.6mm/1.40x0.58x1.11in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	3us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	21g(0.74oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDC2990		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.14s/60°		0.12s/60°
Stall Torque:	9.0kg.cm		11kg.cm
Dimensions:	36*15*28.6mm/1.40x0.58x1.11in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	3us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	29g(1.02oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	Coreless motor



ITEM:	GDD1850		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.11s/60°		0.10s/60°
Stall Torque:	5.0kg.cm		5.6kg.cm
Dimensions:	30.8*16.2*29.6mm/1.20x0.63x1.15in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	3us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	18g(0.63oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD2477		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.17s/60°		0.14s/60°
Stall Torque:	7.7kg.cm		9.0kg.cm
Dimensions:	30.8*16.2*29.6mm/1.20x0.63x1.15in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	3us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	24g(0.93oz)	Waterproof:	No
Connector/plug:	JR190mm	Motor:	DC motor



ITEM:	GDD4214			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.17s/60°	0.14s/60°	0.13s/60°	0.12s/60°
Stall Torque:	9.0kg.cm	10.5kg.cm	14.0kg.cm	16.0kg.cm
Dimensions:	40.7*20*28.1mm/1.58x0.78x1.09in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	3us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	42g(1.48oz)	Waterproof:	No	
Connector/plug:	JR220mm	Motor:	DC motor	



ITEM:	GDD6239			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.27s/60°	0.23s/60°	0.19s/60°	0.18s/60°
Stall Torque:	30.0kg.cm	36.0kg.cm	39.0kg.cm	44.0kg.cm
Dimensions:	40*20*40.2mm/1.56x0.78x1.56in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	8us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	62g(2.18oz)	Waterproof:	No	
Connector/plug:	JR240mm	Motor:	DC motor	

ITEM:	GDD6540			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.29s/60°	0.24s/60°	0.20s/60°	0.18s/60°
Stall Torque:	30.0kg.cm	36.0kg.cm	40.0kg.cm	44.0kg.cm
Dimensions:	40*20*40.2mm/1.56x0.78x1.56in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	8us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	65g(2.29oz)	Waterproof:	No	
Connector/plug:	JR240mm	Motor:	DC motor	



STORM SERIES SERVOS



ITEM:	S02M		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.05s/60°	0.04s/60°	0.03s/60°
Stall Torque:	1.0kg.cm	1.5kg.cm	2.0kg.cm
Dimensions:	20*11.3*18.8mm/0.78x0.44x0.73in		
Operating voltage:	DC3.5V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Mini 25T
Weight:	12g(0.42oz)	Waterproof:	No
Connector/plug:	ZH1.5-3P100mm	Motor:	Coreless motor



ITEM:	S09M			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°
Stall Torque:	6.5kg.cm	7.5kg.cm	9.0kg.cm	9.3kg.cm
Dimensions:	23*12*26.5mm/0.89x0.46x1.03in			
Operating voltage:	DC5.0V~8.4V	Gear:	Steel gear	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 25T	
Weight:	20g(0.71oz)	Waterproof:	No	
Connector/plug:	JR185mm	Motor:	Coreless motor	

PRODUCT FEATURE

- High precision steel gears
- Full CNC aluminium case
- Dual ball bearings
- Super long life



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
S10M	0.12s/60°	0.10s/60°	0.08s/60°	0.07s/60°	7.0kg.cm	8.5kg.cm	10.0kg.cm	11.0kg.cm	Mini 25T	23*12*26.5	20g	0.002ms	2BB	JR185mm
BRUSHLESS (Install latest magnetic sensor positioner internally)														
S11M	0.12s/60°	0.10s/60°	0.08s/60°	0.07s/60°	7.0kg.cm	8.5kg.cm	10.0kg.cm	11.0kg.cm	Mini 25T	23*12*26.5	20g	0.002ms	2BB	JR185mm



PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- Full CNC aluminium case
- Super long life
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
S23M	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°	15.0kg.cm	18.0kg.cm	23.0kg.cm	25.0kg.cm	25T	36*15*33	50.5g	0.002ms	2BB	JR220mm
S30M	0.15s/60°	0.13s/60°	0.10s/60°	0.09s/60°	17.0kg.cm	26.0kg.cm	30.0kg.cm	35.0kg.cm	25T	36*15*33	50.5g	0.002ms	2BB	JR220mm
BRUSHLESS														
S31M	0.10s/60°	0.08s/60°	0.06s/60°	0.05s/60°	22.0kg.cm	26.0kg.cm	31.0kg.cm	35.0kg.cm	25T	36*15*33	52.0g	0.002ms	2BB	JR220mm
S36M	0.14s/60°	0.11s/60°	0.09s/60°	0.08s/60°	26.0kg.cm	30.0kg.cm	36.0kg.cm	40.0kg.cm	25T	36*15*33	52.0g	0.002ms	2BB	JR220mm



PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
S40S	0.10s/60°	0.08s/60°	0.06s/60°	0.05s/60°	23.0kg.cm	31.0kg.cm	40.0kg.cm	42.0kg.cm	25T	40*20*39.8	89g	0.002ms	2BB	JR300mm
S65S	0.16s/60°	0.14s/60°	0.11s/60°	0.10s/60°	45.0kg.cm	55.0kg.cm	65.0kg.cm	70.0kg.cm	25T	40*20*39.8	89g	0.002ms	2BB	JR300mm

PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed			Stall Torque			Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	7.4V	8.4V	12V	7.4V	8.4V	12V						
BRUSHLESS												
S65S12	0.15s/60°	0.13s/60°	0.09s/60°	45.0kg.cm	54.0kg.cm	65.0kg.cm	25T	40*20*39.8	91g	0.002ms	2BB	JR300mm



PRODUCT FEATURE

- High quality potentiometer
- **Durable steel gears**
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
K6S	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	30.0kg.cm	35.0kg.cm	40.0kg.cm	45.0kg.cm	25T	40*20*38.7	91.5g	0.002ms	2BB	JR220mm
K7S	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°	35.0kg.cm	45.0kg.cm	57.0kg.cm	60.0kg.cm	25T	40*20*38.7	91.5g	0.002ms	2BB	JR220mm
K8S	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°	49.0kg.cm	61.0kg.cm	75.0kg.cm	83.0kg.cm	25T	40*20*38.7	91.5g	0.002ms	2BB	JR220mm

RG SERIES SERVOS



PRODUCT FEATURE

- High quality potentiometer
- Middle CNC aluminium case
- High-precision metal gears
- Dual ball bearings
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
RGD01L	0.14s/60°	0.12s/60°	0.10s/60°	0.09s/60°	10.3kg.cm	12.0kg.cm	15.0kg.cm	17.0kg.cm	25T	40*20*27.9	52.5g	0.002ms	2BB	JR300mm
CORELESS														
RGC01L	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°	13.0kg.cm	15.4kg.cm	18.0kg.cm	19.0kg.cm	25T	40*20*27.9	58g	0.002ms	2BB	JR300mm

ITEM:	RGD01SP		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.18s/60°		0.16s/60°
Stall Torque:	21.0kg.cm		25.0kg.cm
Dimensions:	40.2*20.3*40mm/1.56X0.79X1.56in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	63.3g(2.23oz)	Waterproof:	No
Connector/plug:	JR300mm	Motor:	DC motor





PRODUCT FEATURE

- High quality potentiometer
- Middle CNC aluminium case
- High-precision metal gears
- Dual ball bearings
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
RGD01S	0.19s/60°	0.16s/60°	0.13s/60°	0.12s/60°	14.5kg.cm	16.8kg.cm	20.0kg.cm	21.5kg.cm	25T	40*20*41.1	67.9g	0.002ms	2BB	JR300mm
RGD02S	0.23s/60°	0.19s/60°	0.16s/60°	0.15s/60°	24.0kg.cm	26.0kg.cm	30.0kg.cm	33.0kg.cm	25T	40*20*41.1	69.5g	0.002ms	2BB	JR300mm
CORELESS														
RGC01S	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°	20.0kg.cm	23.0kg.cm	25.0kg.cm	27.0kg.cm	25T	40*20*37.5	69g	0.002ms	2BB	JR300mm



PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
RGB01S	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°	34.0kg.cm	40.0kg.cm	48.0kg.cm	53.0kg.cm	25T	40*20*36.5	77.7g	0.002ms	2BB	JR300mm

DROP SERIES SERVOS



IPX8 rating Full Waterproof servos



PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- Full CNC aluminium case
- Dual ball bearings
- Super long working life
- Waterproof IPX8 grade

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS3511S	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°	26.0kg.cm	32.0kg.cm	40.0kg.cm	54.5kg.cm	25T	40.6*21*37.6	83.3g	0.002ms	2BB	JR300mm
BRUSHLESS														
BLS3511S	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°	23.0kg.cm	28.0kg.cm	35.0kg.cm	39.5kg.cm	25T	40.6*21*37.6	83.7g	0.002ms	2BB	JR300mm
BLS4510S	0.15s/60°	0.13s/60°	0.10s/60°	0.09s/60°	30.0kg.cm	36.0kg.cm	45.0kg.cm	49.0kg.cm	25T	40.6*21*41.8	92.7g	0.002ms	2BB	JR300mm



ITEM:	CLS0207M			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°
Stall Torque:	1.5kg.cm	1.6kg.cm	2.0kg.cm	2.3kg.cm
Dimensions:	20*10*17.3mm/0.78X0.39X0.67in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 17T	
Weight:	10g(0.35oz)	Waterproof:	No	
Connector/plug:	JR215mm	Motor:	Coreless motor	



ITEM:	CLS0405M				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.12s/60°	0.08s/60°	0.06s/60°	0.055s/60°	0.05s/60°
Stall Torque:	2.0kg.cm	3.0kg.cm	3.7kg.cm	5.0kg.cm	5.3kg.cm
Dimensions:	24.1*11.9*22.3mm/0.94x0.46x0.87in				
Operating voltage:	DC3.5V~8.4V	Gear:	Full metal		
Dead band width:	2us	Bearing:	1BB		
Working frequency:	1520us/330Hz	Spline:	Mini 21T		
Weight:	16g(0.56oz)	Waterproof:	No		
Connector/plug:	JR300mm	Motor:	Coreless motor		



ITEM:	CLS02MP			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.19s/60°	0.15s/60°	0.12s/60°	0.10s/60°
Stall Torque:	4.0kg.cm	5.0kg.cm	5.8kg.cm	6.0kg.cm
Dimensions:	22.7*12.5*26.4mm/0.88X0.48X1.02in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	18.3g(0.64oz)	Waterproof:	Yes	
Connector/plug:	JR300mm	Motor:	Coreless motor	



ITEM:	BLS0709M			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°
Stall Torque:	6.5kg.cm	7.5kg.cm	9.0kg.cm	9.3kg.cm
Dimensions:	23*12*27.5 mm/0.91x0.47x1.07in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 25T	
Weight:	20.3g(0.72oz)	Waterproof:	Yes	
Connector/plug:	JR320mm	Motor:	Brushless motor	



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
DCS01MP	0.21s/60°	0.16s/60°	0.14s/60°	0.13s/60°	3.60kg.cm	4.30kg.cm	5.70kg.cm	6.10kg.cm	25T	29*13.6*30	26.6g	0.002ms	2BB	JR320mm
CORELESS														
CLS01MP	0.16s/60°	0.12s/60°	0.10s/60°	0.08s/60°	6.40kg.cm	7.40kg.cm	8.30kg.cm	9.30kg.cm	25T	29*13.6*30	27.8g	0.002ms	2BB	JR320mm

PRODUCT FEATURE

- High quality potentiometer
- Full CNC aluminium case
- High-precision metal gears
- low power consumption
- Dual ball bearings
- Waterproof

**PATENTED
PRODUCTS**

Patented design for gearbox structure, higher cycle life, smaller backlash tolerance, withstand greater impact. lighter weight, lower energy consumption, powerful and strong performance. The height of the servos are smaller than those with the same specifications.



PRODUCT FEATURE

- Patent gear chain design, more stable and durable
- High quality potentiometer
- High quality coreless motor
- High-precision metal gears
- Full CNC aluminium case
- Dual ball bearings
- low power consumption and super long working life

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS0505ML	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	3.20kg.cm	3.80kg.cm	4.50kg.cm	5.50kg.cm	25T	35.5*15*23.6	31g	0.002ms	2BB	JR320mm
CLS1009ML	0.13s/60°	0.11s/60°	0.09s/60°	0.08s/60°	6.80kg.cm	8.50kg.cm	10.0kg.cm	11.0kg.cm	25T	35.5*15*23.6	31g	0.002ms	2BB	JR320mm
CLS0604M	0.06s/60°	0.05s/60°	0.04s/60°	0.03s/60°	4.70kg.cm	5.00kg.cm	6.00kg.cm	8.00kg.cm	25T	35.5*15*28.5	34g	0.002ms	2BB	JR265mm
CLS0808M	0.13s/60°	0.11s/60°	0.08s/60°	0.06s/60°	5.00kg.cm	6.00kg.cm	8.00kg.cm	9.50kg.cm	25T	35.5*15*28.5	34g	0.002ms	2BB	JR265mm
CLS1515M	0.24s/60°	0.20s/60°	0.15s/60°	0.14s/60°	8.70kg.cm	10.5kg.cm	15.0kg.cm	17.0kg.cm	25T	35.5*15*28.5	34g	0.002ms	2BB	JR265mm



PRODUCT FEATURE

- High quality potentiometer
- High quality coreless motor
- High-precision steel gears
- Full CNC aluminium case
- Dual ball bearings
- Super long working life

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS1806M	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	12.0kg.cm	15.0kg.cm	18.0kg.cm	20.0kg.cm	25T	35.5*15*29.7	43g	0.002ms	2BB	JR250mm
CLS2209M	0.14s/60°	0.11s/60°	0.09s/60°	0.08s/60°	16.0kg.cm	19.0kg.cm	22.0kg.cm	25.0kg.cm	25T	35.5*15*29.7	43g	0.002ms	2BB	JR250mm



PRODUCT FEATURE

- High quality potentiometer
- High quality brushless motor
- High-precision steel gears
- Full CNC aluminium case
- Dual ball bearings
- Super long working life

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
BLS1307M	0.10s/60°	0.07s/60°	0.06s/60°	0.05s/60°	10.2kg.cm	11.3kg.cm	13.5kg.cm	15.0kg.cm	25T	36*15*33.4	49g	0.002ms	2BB	JR225mm



PRODUCT FEATURE

- High quality potentiometer
- High quality coreless motor
- **High-precision steel gears**
- Full CNC aluminium case
- Dual ball bearings
- Super long working life

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS2509M	0.14s/60°	0.11s/60°	0.09s/60°	0.08s/60°	16.0kg.cm	20.0kg.cm	25.0kg.cm	28.0kg.cm	25T	35.5*15*25.3	40g	0.002ms	2BB	JR320mm

PATENTED PRODUCTS

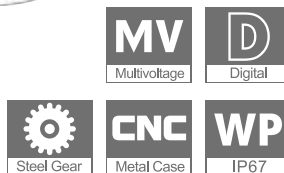
Patented design for gearbox structure, higher cycle life, smaller backlash tolerance, withstand greater impact, lighter weight, lower energy consumption, powerful and strong performance. The height of the servos are smaller than those with the same specifications.



PRODUCT FEATURE

- **Patent gear chain design, more stable and durable**
- High quality potentiometer
- **Durable steel gears**
- Full CNC aluminium case
- Dual ball bearings
- **low power consumption and super long working life**
- **Waterproof**

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS01SL	0.06s/60°	0.05s/60°	0.045s/60°	0.04s/60°	11.0kg.cm	13.0kg.cm	15.0kg.cm	17.0kg.cm	25T	40*20*25.5	55.6g	0.002ms	2BB	JR320mm
CLS02SL	0.07s/60°	0.065s/60°	0.06s/60°	0.05s/60°	13.0kg.cm	16.0kg.cm	18.0kg.cm	20.0kg.cm	25T	40*20*25.5	55.6g	0.002ms	2BB	JR320mm
BRUSHLESS														
BLS01SL	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	12.0kg.cm	14.0kg.cm	16.0kg.cm	19.0kg.cm	25T	40*20*25.5	56g	0.002ms	2BB	JR320mm
BLS02SL	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°	14.0kg.cm	17.0kg.cm	19.0kg.cm	21.0kg.cm	25T	40*20*25.5	56g	0.002ms	2BB	JR320mm



PRODUCT FEATURE

- **Patent gear chain design, more stable and durable**
- High quality potentiometer
- **Durable steel gears**
- Full CNC aluminium case
- Dual ball bearings
- **low power consumption and super long working life**
- **Waterproof**

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS01L	0.06s/60°	0.05s/60°	0.04s/60°	0.03s/60°	10.5kg.cm	13.0kg.cm	16.5kg.cm	18.5kg.cm	25T	40*20*28.5	64g	0.002ms	2BB	JR320mm
CLS02L	0.08s/60°	0.07s/60°	0.06s/60°	0.05s/60°	18.0kg.cm	20.0kg.cm	25.0kg.cm	28.0kg.cm	25T	40*20*28.5	64g	0.002ms	2BB	JR320mm
CLS03L	0.13s/60°	0.11s/60°	0.09s/60°	0.08s/60°	23.0kg.cm	28.0kg.cm	30.0kg.cm	38.0kg.cm	25T	40*20*28.5	64g	0.002ms	2BB	JR320mm
CLS04L	0.17s/60°	0.14s/60°	0.11s/60°	0.10s/60°	29.0kg.cm	33.0kg.cm	40.0kg.cm	45.0kg.cm	25T	40*20*28.5	64g	0.002ms	2BB	JR320mm
BRUSHLESS														
BLS01L	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	13.0kg.cm	14.0kg.cm	17.0kg.cm	19.0kg.cm	25T	40*20*28.5	65g	0.002ms	2BB	JR320mm
BLS02L	0.11s/60°	0.09s/60°	0.07s/60°	0.06s/60°	18.0kg.cm	21.0kg.cm	25.0kg.cm	28.0kg.cm	25T	40*20*28.5	65g	0.002ms	2BB	JR320mm
BLS03L	0.13s/60°	0.11s/60°	0.09s/60°	0.08s/60°	23.0kg.cm	27.0kg.cm	31.0kg.cm	35.0kg.cm	25T	40*20*28.5	65g	0.002ms	2BB	JR320mm
BLS04L	0.18s/60°	0.15s/60°	0.13s/60°	0.10s/60°	26.8kg.cm	30.0kg.cm	36.0kg.cm	40.0kg.cm	25T	40*20*28.5	65g	0.002ms	2BB	JR320mm

**PATENTED
PRODUCTS**

Patented design for gearbox structure, higher cycle life, smaller backlash tolerance, withstand greater impact. lighter weight, lower energy consumption, powerful and strong performance. The height of the servos are smaller than those with the same specifications.



MV
Multivoltage

D
Digital

Steel Gear

CNC
Metal Case

WP
IP67

PRODUCT FEATURE

- Patent gear chain design, more stable and durable
- High quality potentiometer
- Durable steel gears
- Full CNC aluminium case
- Dual ball bearings
- low power consumption and super long working life
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS01S	0.08s/60°	0.07s/60°	0.06s/60°	0.05s/60°	12.0kg.cm	14.5kg.cm	18.0kg.cm	20.0kg.cm	25T	40*20*33.5	73g	0.002ms	2BB	JR320mm
CLS02S	0.12s/60°	0.10s/60°	0.08s/60°	0.07s/60°	20.0kg.cm	25.0kg.cm	28.0kg.cm	30.0kg.cm	25T	40*20*33.5	73g	0.002ms	2BB	JR320mm
CLS03S	0.20s/60°	0.16s/60°	0.13s/60°	0.11s/60°	30.0kg.cm	36.0kg.cm	44.0kg.cm	50.0kg.cm	25T	40*20*33.5	73g	0.002ms	2BB	JR320mm
CLS04S	0.25s/60°	0.21s/60°	0.17s/60°	0.15s/60°	37.0kg.cm	43.0kg.cm	52.0kg.cm	56.0kg.cm	25T	40*20*33.5	73g	0.002ms	2BB	JR320mm



MV
Multivoltage

D
Digital

Steel Gear

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PRODUCT FEATURE

- Patent gear chain design, more stable and durable
- High quality potentiometer
- Durable steel gears
- Full CNC aluminium case
- Dual ball bearings
- low power consumption and super long working life
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
BLS01S	0.09s/60°	0.08s/60°	0.06s/60°	0.05s/60°	18.4kg.cm	22.3kg.cm	28.0kg.cm	30.6kg.cm	25T	40*20*33.5	75g	0.002ms	2BB	JR320mm
BLS02S	0.16s/60°	0.13s/60°	0.10s/60°	0.09s/60°	24.0kg.cm	29.0kg.cm	37.0kg.cm	39.0kg.cm	25T	40*20*33.5	75g	0.002ms	2BB	JR320mm
BLS03S	0.18s/60°	0.15s/60°	0.12s/60°	0.10s/60°	25.0kg.cm	32.0kg.cm	40.0kg.cm	45.0kg.cm	25T	40*20*33.5	75g	0.002ms	2BB	JR320mm
BLS04S	0.21s/60°	0.17s/60°	0.13s/60°	0.12s/60°	30.0kg.cm	35.0kg.cm	45.0kg.cm	50.0kg.cm	25T	40*20*33.5	75g	0.002ms	2BB	JR320mm



Helical Gears
High Efficiency
High Torque
Low Backlash

WP
IP67

Steel Gear

D
Digital

CNC
Metal Case

MV
Multivoltage

PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
BLS3506S	0.08s/60°	0.07s/60°	0.06s/60°	0.05s/60°	24.0kg.cm	29.0kg.cm	35.0kg.cm	40.0kg.cm	25T	40*20*38.3	91.5g	0.002ms	2BB	JR320mm
BLS5810S	0.14s/60°	0.12s/60°	0.10s/60°	0.08s/60°	39.0kg.cm	47.0kg.cm	58.0kg.cm	65.0kg.cm	25T	40*20*38.3	91.5g	0.002ms	2BB	JR320mm

ITEM:	CLS1008M			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	6.3kg.cm	7.8kg.cm	10.0kg.cm	11.2kg.cm
Dimensions:	23*12*27.5 mm/0.91x0.47x1.07in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 25T	
Weight:	20.3g(0.72oz)	Waterproof:	No	
Connector/plug:	JR320mm	Motor:	Coreless motor	



PRODUCT FEATURE

- High quality long-life potentiometer
- High-precision metal gears
- Full CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS0905L	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	6.50kg.cm	7.80kg.cm	9.00kg.cm	11.0kg.cm	25T	41.1*20*26.5	51g	0.002ms	2BB	JR190mm
CLS1307L	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°	9.80kg.cm	11.8kg.cm	13.0kg.cm	15.0kg.cm	25T	41.1*20*26.5	51g	0.002ms	2BB	JR190mm
BRUSHLESS														
BLS1204L	0.08s/60°	0.05s/60°	0.04s/60°	0.03s/60°	7.30kg.cm	8.80kg.cm	12.0kg.cm	14.0kg.cm	25T	41.1*20*26.5	50g	0.002ms	2BB	JR190mm
BLS1506L	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	10.5kg.cm	12.6kg.cm	15.0kg.cm	17.8kg.cm	25T	41.1*20*26.5	50g	0.002ms	2BB	JR190mm

PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- High quality DC motor
- Middle CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
DCS1312SP	0.15s/60°	0.12s/60°	0.10s/60°	0.09s/60°	11.0kg.cm	13.5kg.cm	15.5kg.cm	18.0kg.cm	25T	40.7*20.4*39.5	60g	0.002ms	2BB	JR250mm
DCS2016SP	0.16s/60°	0.14s/60°	0.12s/60°	0.11s/60°	17.0kg.cm	20.5kg.cm	23.0kg.cm	26.0kg.cm	25T	40.7*20.4*39.5	60g	0.002ms	2BB	JR250mm



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Middle CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS1004SP	0.08s/60°	0.06s/60°	0.04s/60°	0.03s/60°	7.00kg.cm	9.00kg.cm	10.0kg.cm	11.5kg.cm	25T	40.7*20.4*39.5	64g	0.002ms	2BB	JR300mm
CLS1606SP	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	12.1kg.cm	14.2kg.cm	16.0kg.cm	18.5kg.cm	25T	40.7*20.4*39.5	64g	0.002ms	2BB	JR300mm
CLS2008SP	0.11s/60°	0.09s/60°	0.08s/60°	0.07s/60°	16.1kg.cm	18.2kg.cm	20.0kg.cm	23.0kg.cm	25T	40.7*20.4*39.5	64g	0.002ms	2BB	JR300mm
CLS2511SP	0.15s/60°	0.13s/60°	0.11s/60°	0.10s/60°	20.2kg.cm	22.3kg.cm	25.0kg.cm	28.5kg.cm	25T	40.7*20.4*39.5	73g	0.002ms	2BB	JR300mm
CLS3015SP	0.20s/60°	0.18s/60°	0.15s/60°	0.13s/60°	25.7kg.cm	27.8kg.cm	30.0kg.cm	35.0kg.cm	25T	40.7*20.4*39.5	73g	0.002ms	2BB	JR300mm
BRUSHLESS														
BLS1204SP	0.07s/60°	0.05s/60°	0.04s/60°	0.03s/60°	8.70kg.cm	10.8kg.cm	12.0kg.cm	14.0kg.cm	25T	40.7*20.4*39.5	62g	0.002ms	2BB	JR300mm
BLS2206SP	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	17.7kg.cm	19.8kg.cm	22.0kg.cm	25.0kg.cm	25T	40.7*20.4*39.5	62g	0.002ms	2BB	JR300mm
BLS2507SP	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°	20.0kg.cm	22.2kg.cm	25.0kg.cm	28.0kg.cm	25T	40.7*20.4*39.5	62g	0.002ms	2BB	JR300mm
BLS3009SP	0.13s/60°	0.11s/60°	0.09s/60°	0.08s/60°	24.7kg.cm	26.8kg.cm	30.0kg.cm	34.0kg.cm	25T	40.7*20.4*39.5	71g	0.002ms	2BB	JR300mm
BLS3512SP	0.16s/60°	0.14s/60°	0.12s/60°	0.11s/60°	29.0kg.cm	31.2kg.cm	35.0kg.cm	39.0kg.cm	25T	40.7*20.4*39.5	71g	0.002ms	2BB	JR300mm



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Full CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS1004S	0.08s/60°	0.06s/60°	0.04s/60°	0.03s/60°	6.80kg.cm	9.00kg.cm	10.0kg.cm	11.5kg.cm	25T	40*20*40.9	71g	0.002ms	2BB	JR300mm
CLS1606S	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	12.0kg.cm	14.2kg.cm	16.0kg.cm	18.5kg.cm	25T	40*20*40.9	71g	0.002ms	2BB	JR300mm
CLS2008S	0.11s/60°	0.09s/60°	0.08s/60°	0.07s/60°	16.1kg.cm	18.2kg.cm	20.0kg.cm	23.0kg.cm	25T	40*20*40.9	71g	0.002ms	2BB	JR300mm
CLS2511S	0.15s/60°	0.13s/60°	0.11s/60°	0.10s/60°	20.2kg.cm	22.3kg.cm	25.0kg.cm	28.5kg.cm	25T	40*20*40.9	80g	0.002ms	2BB	JR300mm
CLS3015S	0.20s/60°	0.18s/60°	0.15s/60°	0.13s/60°	25.7kg.cm	27.8kg.cm	30.0kg.cm	35.0kg.cm	25T	40*20*40.9	80g	0.002ms	2BB	JR300mm
BRUSHLESS														
BLS1204S	0.07s/60°	0.05s/60°	0.04s/60°	0.03s/60°	8.70kg.cm	10.8kg.cm	12.0kg.cm	14.0kg.cm	25T	40*20*40.9	69g	0.002ms	2BB	JR300mm
BLS2206S	0.09s/60°	0.07s/60°	0.06s/60°	0.05s/60°	17.7kg.cm	19.8kg.cm	22.0kg.cm	25.0kg.cm	25T	40*20*40.9	69g	0.002ms	2BB	JR300mm
BLS2507S	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°	20.0kg.cm	22.2kg.cm	25.0kg.cm	28.0kg.cm	25T	40*20*40.9	69g	0.002ms	2BB	JR300mm
BLS3009S	0.13s/60°	0.11s/60°	0.09s/60°	0.08s/60°	24.7kg.cm	26.8kg.cm	30.0kg.cm	34.5kg.cm	25T	40*20*40.9	78g	0.002ms	2BB	JR300mm
BLS3512S	0.16s/60°	0.14s/60°	0.12s/60°	0.11s/60°	29.1kg.cm	31.2kg.cm	35.0kg.cm	39.0kg.cm	25T	40*20*40.9	78g	0.002ms	2BB	JR300mm

Telemetry servos Customized angles
(such as 90°, 180°, 270°, 360° etc.)



PRODUCT FEATURE

- Magnetic sensor precise positioning
- High quality coreless motor
- Full CNC aluminium case
- High-precision full steel gears
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS1104S	0.051s/60°	0.046s/60°	0.045s/60°	0.044s/60°	7.0kg.cm	9.0kg.cm	11.0kg.cm	15.0kg.cm	25T	40*20*40.9	80g	0.002ms	2BB	JR300mm
CLS4211S	0.15s/60°	0.14s/60°	0.12s/60°	0.11s/60°	26.0kg.cm	34.0kg.cm	42.0kg.cm	46.0kg.cm	25T	40*20*40.9	80g	0.002ms	2BB	JR300mm

PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings



Helical Gears
High Efficiency
High Torque
Low Backlash



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
BLS10010S	0.16s/60°	0.13s/60°	0.10s/60°	0.09s/60°	72.0kg.cm	88.0kg.cm	100kg.cm	115kg.cm	25T	40*20*38.7	91.5g	0.002ms	2BB	JR320mm

CHAMPION SERIES SERVOS



ITEM:	CLS00805		
Operating voltage:	3.5V	5.0V	
Operating Speed:	0.07s/60°	0.05s/60°	
Stall Torque:	0.06kg.cm	0.08kg.cm	
Dimensions:	13.5*6.2*16mm/0.53x0.24x0.62in		
Operating voltage:	DC3.5V~5.0V	Gear:	Heavy duty resin
Dead band width:	2us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	1.8g(0.06oz)	Waterproof:	No
Connector/plug:	JR300mm	Motor:	Coreless motor



ITEM:	CLS0411H		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.07s/60°	0.06s/60°	0.05s/60°
Stall Torque:	0.60kg.cm	0.70kg.cm	0.90kg.cm
Dimensions:	20.9*8.4*23.3mm/0.82x0.33x0.92in		
Operating voltage:	DC3.5V~6.0V	Gear:	Heavy duty resin
Dead band width:	2us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	4.05g(0.14oz)	Waterproof:	No
Connector/plug:	JR85mm	Motor:	Coreless motor



ITEM:	CLS0511H		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.07s/60°	0.06s/60°	0.05s/60°
Stall Torque:	0.60kg.cm	0.92kg.cm	1.10kg.cm
Dimensions:	20.9*8.4*23.3mm/0.82x0.33x0.92in		
Operating voltage:	DC3.5V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	5.30g(0.19oz)	Waterproof:	No
Connector/plug:	JR85mm	Motor:	Coreless motor



ITEM:	DCS0927		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.14s/60°	0.12s/60°	
Stall Torque:	2.40kg.cm	2.70kg.cm	
Dimensions:	23.7*11.5*21.5mm/0.92X0.44X0.83in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	9g(0.31oz)	Waterproof:	No
Connector/plug:	JR315mm	Motor:	DC motor

ITEM:	DCS2107		
Operating voltage:	4.8V	6.0V	
Operating Speed:	0.18s/60°	0.15s/60°	
Stall Torque:	5.85kg.cm	7.12kg.cm	
Dimensions:	29.2*13.9*31mm/1.15x0.55x1.22in		
Operating voltage:	DC4.8V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	21.3g(0.75oz)	Waterproof:	No
Connector/plug:	JR185mm	Motor:	DC motor



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS2025HHV	0.06s/60°	0.05s/60°	0.04s/60°	0.03s/60°	3.00kg.cm	3.60kg.cm	4.20kg.cm	5.00kg.cm	Exclusive	23*12*28.5	20g	0.002ms	2BB	JR185mm
CLS2035HHV	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	3.80kg.cm	4.60kg.cm	5.50kg.cm	6.20kg.cm	Exclusive	23*12*28.5	20g	0.002ms	2BB	JR185mm

PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- High quality coreless motor
- Full CNC aluminium case
- Dual ball bearings



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS2845H	0.09s/60°	0.06s/60°	0.04s/60°	0.03s/60°	3.30kg.cm	4.00kg.cm	5.00kg.cm	5.60kg.cm	25T	35*15*29	28g	0.002ms	2BB	JR255mm
CLS2875H	0.12s/60°	0.10s/60°	0.08s/60°	0.07s/60°	7.60kg.cm	8.40kg.cm	10.0kg.cm	11.0kg.cm	25T	35*15*29	28g	0.002ms	2BB	JR255mm

PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- High quality coreless motor
- Full CNC aluminium case
- Dual ball bearings



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Full CNC aluminium case
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS4406HHV	0.07s/60°	0.05s/60°	0.03s/60°	0.02s/60°	4.40kg.cm	5.35kg.cm	6.65kg.cm	7.50kg.cm	25T	35*15*28.3	43g	0.002ms	2BB	JR255mm
CLS4411HHV	0.08s/60°	0.06s/60°	0.05s/60°	0.04s/60°	7.70kg.cm	9.30kg.cm	11.5kg.cm	13.0kg.cm	25T	35*15*28.3	43g	0.002ms	2BB	JR255mm
BRUSHLESS														
BLS4406HHV	0.07s/60°	0.05s/60°	0.03s/60°	0.02s/60°	4.00kg.cm	4.90kg.cm	6.10kg.cm	7.00kg.cm	25T	35*15*28.3	44g	0.002ms	2BB	JR255mm
BLS4411HHV	0.09s/60°	0.07s/60°	0.05s/60°	0.04s/60°	8.00kg.cm	9.50kg.cm	11.5kg.cm	13.0kg.cm	25T	35*15*28.3	44g	0.002ms	2BB	JR255mm



PRODUCT FEATURE

- High quality potentiometer
- Full CNC aluminium case
- High-precision metal gears
- Dual ball bearings
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS4706HV	-	0.08s/60°	0.06s/60°	0.05s/60°	-	5.70kg.cm	7.50kg.cm	8.50kg.cm	25T	40.5*20*26	47.5g	0.002ms	2BB	JR320mm
CLS4710HV	-	0.10s/60°	0.08s/60°	0.07s/60°	-	10.2kg.cm	12.0kg.cm	13.6kg.cm	25T	40.5*20*26	47.5g	0.002ms	2BB	JR320mm
BRUSHLESS														
BLS4707HV	-	0.05s/60°	0.03s/60°	0.02s/60°	-	5.80kg.cm	7.30kg.cm	8.20kg.cm	25T	40.5*20*26	47.5g	0.002ms	2BB	JR320mm
BLS4711HV	-	0.06s/60°	0.04s/60°	0.03s/60°	-	8.90kg.cm	11.1kg.cm	12.6kg.cm	25T	40.5*20*26	47.5g	0.002ms	2BB	JR320mm



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
DCS4503C	0.12s/60°	0.10s/60°	-	-	3.12kg.cm	3.85kg.cm	-	-	25T	40*20*38.3	45g	0.003ms	2BB	JR300mm
DCS4506C	0.14s/60°	0.12s/60°	-	-	5.50kg.cm	6.20kg.cm	-	-	25T	40*20*38.3	45g	0.003ms	2BB	JR300mm



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
DCS5209C	0.15s/60°	0.13s/60°	-	-	8.50kg.cm	9.60kg.cm	-	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm
DCS5213C	0.16s/60°	0.14s/60°	-	-	12.5kg.cm	13.5kg.cm	-	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm
DCS5215C	0.19s/60°	0.17s/60°	-	-	14.1kg.cm	15.2kg.cm	-	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm
DCS5209CHV	-	0.13s/60°	0.11s/60°	-	-	8.80kg.cm	9.50kg.cm	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm
DCS5213CHV	-	0.16s/60°	0.14s/60°	-	-	12.5kg.cm	13.6kg.cm	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm
DCS5215CHV	-	0.19s/60°	0.17s/60°	-	-	14.3kg.cm	15.5kg.cm	-	25T	40*20*38.3	52g	0.003ms	2BB	JR300mm



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Middle CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS6217CHV	-	0.12s/60°	0.09s/60°	0.08s/60°	-	14.0kg.cm	17.3kg.cm	19.6kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
CLS6221CHV	-	0.13s/60°	0.10s/60°	0.09s/60°	-	17.2kg.cm	21.2kg.cm	24.0kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
CLS6224CHV	-	0.16s/60°	0.13s/60°	0.11s/60°	-	19.9kg.cm	24.6kg.cm	27.8kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
CLS6227CHV	-	0.18s/60°	0.15s/60°	0.13s/60°	-	21.9kg.cm	27.0kg.cm	30.0kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
CLS6108HHV	-	0.06s/60°	0.05s/60°	0.04s/60°	-	6.78kg.cm	8.35kg.cm	9.48kg.cm	25T	40.2*20*38	61g	0.002ms	2BB	JR320mm
CLS6111HHV	-	0.08s/60°	0.07s/60°	0.06s/60°	-	9.96kg.cm	11.5kg.cm	13.0kg.cm	25T	40.2*20*38	61g	0.002ms	2BB	JR320mm
CLS6114HHV	-	0.09s/60°	0.08s/60°	0.07s/60°	-	11.9kg.cm	14.6kg.cm	16.5kg.cm	25T	40.2*20*38	61g	0.002ms	2BB	JR320mm
CLS6117HHV	-	0.10s/60°	0.09s/60°	0.08s/60°	-	14.0kg.cm	17.2kg.cm	19.5kg.cm	25T	40.2*20*38	61g	0.002ms	2BB	JR320mm
CLS6122HHV	-	0.12s/60°	0.11s/60°	0.10s/60°	-	17.6kg.cm	22.5kg.cm	24.3kg.cm	25T	40.2*20*38	61g	0.002ms	2BB	JR320mm
BRUSHLESS														
BLS6211CHV	-	0.08s/60°	0.06s/60°	0.05s/60°	-	9.85kg.cm	11.5kg.cm	13.0kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
BLS6221CHV	-	0.10s/60°	0.08s/60°	0.07s/60°	-	17.5kg.cm	21.6kg.cm	24.5kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
BLS6111HHV	-	0.05s/60°	0.04s/60°	0.03s/60°	-	8.50kg.cm	11.0kg.cm	12.5kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm
BLS6118HHV	-	0.08s/60°	0.07s/60°	0.06s/60°	-	15.3kg.cm	18.5kg.cm	21.4kg.cm	25T	40.2*20*41	62g	0.002ms	2BB	JR320mm



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Full CNC aluminium case
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS6908HHV	-	0.06s/60°	0.05s/60°	0.04s/60°	-	6.78kg.cm	8.35kg.cm	9.48kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
CLS6911HHV	-	0.08s/60°	0.07s/60°	0.06s/60°	-	8.50kg.cm	11.0kg.cm	12.5kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
CLS6914HHV	-	0.10s/60°	0.09s/60°	0.08s/60°	-	11.8kg.cm	14.6kg.cm	16.5kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
CLS66917HV	-	0.11s/60°	0.10s/60°	0.09s/60°	-	13.9kg.cm	17.2kg.cm	19.5kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
BRUSHLESS														
BLS6911HHV	-	0.05s/60°	0.04s/60°	0.03s/60°	-	8.50kg.cm	11.0kg.cm	12.5kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
BLS6918HHV	-	0.08s/60°	0.07s/60°	0.06s/60°	-	15.3kg.cm	18.8kg.cm	21.4kg.cm	25T	40*20*39.5	69.5g	0.002ms	2BB	JR320mm
BLS7721CHV	-	0.10s/60°	0.08s/60°	0.07s/60°	-	17.5kg.cm	21.6kg.cm	24.5kg.cm	25T	40*20*39.5	77.5g	0.002ms	2BB	JR320mm
BLS7731CHV	-	0.15s/60°	0.13s/60°	0.11s/60°	-	25.4kg.cm	31.4kg.cm	35.6kg.cm	25T	40*20*39.5	77.5g	0.002ms	2BB	JR320mm
BLS7731HHV	-	0.11s/60°	0.10s/60°	0.09s/60°	-	22.0kg.cm	26.5kg.cm	28.4kg.cm	25T	40*20*39.5	77.5g	0.002ms	2BB	JR320mm



PRODUCT FEATURE

- High quality potentiometer
- High-precision steel gears
- High quality brushless motor
- Full CNC aluminium case
- Super long working life
- Dual ball bearings
- Ultra high torque
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
BLS4309	0.14s/60°	0.11s/60°	0.09s/60°	0.08s/60°	30.0kg.cm	35.0kg.cm	43.0kg.cm	48.0kg.cm	25T	40*20*39.1	85g	0.002ms	2BB	JR310mm
BLS6013	0.20s/60°	0.17s/60°	0.13s/60°	0.12s/60°	38.0kg.cm	47.0kg.cm	60.0kg.cm	66.0kg.cm	25T	40*20*39.1	85g	0.002ms	2BB	JR310mm

KM SERIES SERVOS





ITEM:	KM-02D		
Operating voltage:	3.5V	5.0V	
Operating Speed:	0.13s/60°	0.09s/60°	
Stall Torque:	0.18kg.cm	0.25kg.cm	
Dimensions:	16.5*8.3*20.3mm/0.64x0.33x0.8in		
Operating voltage:	DC3.5V~5.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	2.25g(0.07oz)	Waterproof:	No
Connector/plug:	JR100mm	Motor:	Coreless motor



ITEM:	KM-03A		
Operating voltage:	3.5V	5.0V	
Operating Speed:	0.14s/60°	0.10s/60°	
Stall Torque:	0.36kg.cm	0.52kg.cm	
Dimensions:	19.7*8.3*20mm/0.85x0.47x0.83in		
Operating voltage:	DC3.5V~5.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/50Hz	Spline:	Exclusive
Weight:	3.02g(0.11oz)	Waterproof:	No
Connector/plug:	JR100mm	Motor:	Coreless motor



ITEM:	KM-04MD		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.11s/60°	0.09s/60°	
Stall Torque:	0.75kg.cm	0.95kg.cm	
Dimensions:	19.8*8.3*23mm/0.77x0.32x0.9in		
Operating voltage:	DC5.0V~6.0V	Gear:	Aluminium
Dead band width:	2us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	5.5g(0.19oz)	Waterproof:	No
Connector/plug:	JR150mm	Motor:	Coreless motor



ITEM:	KM-04MDHV		
Operating voltage:	5.0V	6.0V	7.4V
Operating Speed:	0.14s/60°	0.12s/60°	0.10s/60°
Stall Torque:	0.85kg.cm	1.30kg.cm	1.60kg.cm
Dimensions:	16.5*8.3*20.3mm/0.77x0.32x0.9in		
Operating voltage:	DC5.0V~7.4V	Gear:	Aluminium
Dead band width:	2us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	5.7g(0.2oz)	Waterproof:	No
Connector/plug:	JR150mm	Motor:	Coreless motor



ITEM:	KM-05A		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.10s/60°	
Stall Torque:	1.22kg.cm	1.60kg.cm	
Dimensions:	21.5*12*21mm/0.85x0.47x0.83in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/50Hz	Spline:	Exclusive
Weight:	5.23g(0.18oz)	Waterproof:	No
Connector/plug:	JR180mm	Motor:	Coreless motor



ITEM:	KM0918A		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.10s/60°	
Stall Torque:	1.75kg.cm	2.13kg.cm	
Dimensions:	23.4*12*28.4mm/0.92x0.47x1.12in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/50Hz	Spline:	Exclusive
Weight:	9.35g(0.33oz)	Waterproof:	No
Connector/plug:	JR180mm	Motor:	DC motor



ITEM:	KM0918D		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.10s/60°	
Stall Torque:	1.75kg.cm	2.13kg.cm	
Dimensions:	23.4*12*28.4mm/0.92x0.47x1.12in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	9.35g(0.33oz)	Waterproof:	No
Connector/plug:	JR180mm	Motor:	DC motor



ITEM:	KM0940MA		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.14s/60°	0.12s/60°	
Stall Torque:	4.30kg.cm	5.0kg.cm	
Dimensions:	23.8*11.5*21.6mm/0.93x0.45x0.84in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/50Hz	Spline:	Mini 21T
Weight:	13.8g(0.49oz)	Waterproof:	No
Connector/plug:	JR300mm	Motor:	DC motor



ITEM:	KM0940MD			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.14s/60°	0.12s/60°	0.11s/60°	0.10s/60°
Stall Torque:	3.5kg.cm	4.3kg.cm	4.6kg.cm	5.0kg.cm
Dimensions:	23.8*11.5*21.6mm/0.93x0.45x0.84in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	4us	Bearing:	No	
Working frequency:	1520us/330Hz	Spline:	Mini 21T	
Weight:	13.8g(0.49oz)	Waterproof:	No	
Connector/plug:	JR300mm	Motor:	DC motor	



ITEM:	KM1970MD		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.16s/60°	0.13s/60°	
Stall Torque:	6.8kg.cm	8.0kg.cm	
Dimensions:	23.7*11.6*21.5mm/0.92x0.45x0.83in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Mini 21T
Weight:	19g(0.67oz)	Waterproof:	No
Connector/plug:	JR310mm	Motor:	Coreless motor



ITEM:	KM1970MDHV			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.22s/60°	0.18s/60°	0.15s/60°	0.13s/60°
Stall Torque:	4.5kg.cm	5.5kg.cm	7.0kg.cm	7.8kg.cm
Dimensions:	23.7*11.6*21.5mm/0.92x0.45x0.83in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	1BB	
Working frequency:	1520us/330Hz	Spline:	Mini 21T	
Weight:	19g(0.67oz)	Waterproof:	No	
Connector/plug:	JR310mm	Motor:	Coreless motor	



ITEM:	KM2065		
Operating voltage:	6.0V	7.4V	8.4V
Operating Speed:	0.13s/60°	0.11s/60°	0.10s/60°
Stall Torque:	2.7kg.cm	4.5kg.cm	5.2kg.cm
Dimensions:	23.2*12.5*24.1mm/0.9x1.48x0.9in		
Operating voltage:	DC6.0V~8.4V	Gear:	Full metal
Dead band width:	4us	Bearing:	No
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	17g(0.59oz)	Waterproof:	Yes
Connector/plug:	JR350mm	Motor:	DC motor



ITEM:	KM2050			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°
Stall Torque:	3.4kg.cm	4.0kg.cm	5.0kg.cm	5.5kg.cm
Dimensions:	23*12*23.4mm/0.89x0.46x0.91in			
Operating voltage:	DC5.0V~8.4V	Gear:	Steel gear	
Dead band width:	2us	Bearing:	1BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	20g(0.70oz)	Waterproof:	Yes	
Connector/plug:	JR220mm	Motor:	Coreless motor	



ITEM:	KM0950MD	
Operating voltage:	5.0V	6.0V
Operating Speed:	0.12s/60°	0.10s/60°
Stall Torque:	3.80kg.cm	4.50kg.cm
Dimensions:	25.3*13.2*25.1mm/0.99x0.51x0.98in	
Operating voltage:	DC5.0V~6.0V	Gear: Full metal
Dead band width:	2us	Bearing: 1BB
Working frequency:	1520us/330Hz	Spline: Mini 25T
Weight:	13g(0.46oz)	Waterproof: Yes
Connector/plug:	JR320mm	Motor: DC motor



ITEM:	KM0950MDHV			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.14s/60°	0.12s/60°	0.11s/60°	0.10s/60°
Stall Torque:	4.4kg.cm	5.2kg.cm	6.0kg.cm	6.5kg.cm
Dimensions:	25.3x13.2x25.1/0.99x0.51x0.98in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 25T	
Weight:	17g(0.59oz)	Waterproof:	Yes	
Connector/plug:	JR320mm	Motor:	DC motor	



ITEM:	KM1850MD	
Operating voltage:	5.0V	6.0V
Operating Speed:	0.14s/60°	0.12s/60°
Stall Torque:	5.0kg.cm	6.0kg.cm
Dimensions:	26*14*22.6mm/1.01x0.54x0.88in	
Operating voltage:	DC5.0V~6.0V	Gear: Full metal
Dead band width:	2us	Bearing: 1BB
Working frequency:	1520us/330Hz	Spline: Mini 21T
Weight:	18g(0.63oz)	Waterproof: Yes
Connector/plug:	JR300mm	Motor: DC motor



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
KM1203MD	0.10s/60°	0.08s/60°	0.06s/60°	0.05s/60°	6.00kg.cm	7.40kg.cm	9.50kg.cm	10.5kg.cm	Exclusive	23*12*27.5	20.3g	0.002ms	2BB	JR220mm
KM1203MDT	0.07s/60°	0.06s/60°	0.05s/60°	0.04s/60°	4.60kg.cm	5.80kg.cm	6.60kg.cm	7.20kg.cm	Exclusive	23*12*27.5	20.3g	0.002ms	2BB	JR220mm

PRODUCT FEATURE

- High quality potentiometer
- High quality coreless motor
- Full CNC aluminium hulls and structure
- Dual ball bearings



ITEM:	KM1703D		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.16s/60°	0.13s/60°	
Stall Torque:	3.50kg.cm	4.20kg.cm	
Dimensions:	26.6*12.8*29.1mm/1.03x0.49x1.13in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	4us	Bearing:	1BB
Working frequency:	1520us/50Hz	Spline:	Exclusive
Weight:	17g(0.59oz)	Waterproof:	No
Connector/plug:	JR315mm	Motor:	DC motor



ITEM:	KM1703MD		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.16s/60°		0.13s/60°
Stall Torque:	4.50kg.cm		5.60kg.cm
Dimensions:	26.6*12.8*29.1mm/1.03x0.49x1.13in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	4us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	20g(0.70oz)	Waterproof:	No
Connector/plug:	JR315mm	Motor:	DC motor



ITEM:	KM1703MDHV			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.15s/60°	0.13s/60°	0.11s/60°	0.09s/60°
Stall Torque:	5.1kg.cm	5.60kg.cm	6.80kg.cm	7.30kg.cm
Dimensions:	28.1*12.9*27mm/1.09x0.50x1.05in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	20g(0.70oz)	Waterproof:	No	
Connector/plug:	JR320mm	Motor:	DC motor	



ITEM:	KM2612MDHV			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.18s/60°	0.15s/60°	0.12s/60°	0.11s/60°
Stall Torque:	9.0kg.cm	10kg.cm	12kg.cm	14kg.cm
Dimensions:	28*12.6*27mm/1.09x0.49x1.05in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	26g(0.91oz)	Waterproof:	Yes	
Connector/plug:	JR310mm	Motor:	Coreless motor	



ITEM:	KM4409MD		
Operating voltage:	4.8V	6.0V	
Operating Speed:	0.13s/60°	0.11s/60°	
Stall Torque:	8.65kg.cm	9.45kg.cm	
Dimensions:	40.9*20.3*29mm/1.61x0.80x1.16in		
Operating voltage:	DC4.8V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	42.6g(1.5oz)	Waterproof:	No
Connector/plug:	JR265mm	Motor:	DC motor



ITEM:	KM3811D		
Operating voltage:	5.0V		6.0V
Operating Speed:	0.16s/60°		0.14s/60°
Stall Torque:	10.0kg.cm		11.0kg.cm
Dimensions:	40.5X20.3X36.5mm /1.57x0.79x1.42in		
Operating voltage:	DC5.0V~6.0V	Gear:	Heavy duty resin
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	38g(1.34oz)	Waterproof:	Yes
Connector/plug:	JR300mm	Motor:	DC motor



ITEM:	KM3811DHV			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.16s/60°	0.14s/60°	0.13s/60°	0.12s/60°
Stall Torque:	8.5kg.cm	9.0kg.cm	10kg.cm	11kg.cm
Dimensions:	40.5*20.3*36.5mm/1.57x0.79x1.42in			
Operating voltage:	DC5.0V~8.4V	Gear:	Heavy duty resin	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Standard 25T	
Weight:	38g(1.34oz)	Waterproof:	Yes	
Connector/plug:	JR300mm	Motor:	DC motor	



ITEM:	KM5720MD		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.29s/60°	0.24s/60°	
Stall Torque:	20kg.cm	25kg.cm	
Dimensions:	40*20.3*40.1mm/1.56x0.79x1.56in		
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Standard 25T
Weight:	57g(2.01oz)	Waterproof:	Yes
Connector/plug:	JR165mm	Motor:	DC motor



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
KM5509MA	0.15s/60°	0.13s/60°	-	-	8.65kg.cm	9.35kg.cm	-	-	25T	40.5*20.2*40.5	55.6g	0.004ms	2BB	JR265mm
KM5509MD	0.15s/60°	0.12s/60°	-	-	8.89kg.cm	9.98kg.cm	-	-	25T	40.5*20.2*40.5	55.6g	0.002ms	2BB	JR265mm
KM5513MA	0.20s/60°	0.18s/60°	-	-	11.7kg.cm	13.0kg.cm	-	-	25T	40.5*20.2*40.5	55.6g	0.004ms	2BB	JR265mm
KM5513MD	0.20s/60°	0.18s/60°	-	-	11.8kg.cm	12.2kg.cm	-	-	25T	40.5*20.2*40.5	55.6g	0.002ms	2BB	JR265mm



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
KM5508MD	0.13s/60°	0.11s/60°	-	-	8.75kg.cm	9.86kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.002ms	2BB	JR265mm
KM5515MD	0.18s/60°	0.15s/60°	-	-	13.8kg.cm	16.4kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.002ms	2BB	JR265mm
KM5515MA	0.18s/60°	0.16s/60°	-	-	14.2kg.cm	15.3kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.004ms	2BB	JR265mm
KM5512MD	0.18s/60°	0.16s/60°	-	-	11.8kg.cm	12.5kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.002ms	2BB	JR265mm
KM5520MA	0.19s/60°	0.17s/60°	-	-	19.2kg.cm	20.3kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.004ms	2BB	JR265mm
KM5520MD	0.19s/60°	0.16s/60°	-	-	17.8kg.cm	20.2kg.cm	-	-	25T	40.5*20.2*40.5	60g	0.002ms	2BB	JR265mm
CORELESS														
KM5514MDHV	-	0.11s/60°	0.09s/60°	-	-	11.6kg.cm	13.2kg.cm	-	25T	40*20*38	61g	0.002ms	2BB	JR265mm
KM5521MDHV	-	0.16s/60°	0.14s/60°	-	-	18.5kg.cm	21.3kg.cm	-	25T	40*20*38	61g	0.002ms	2BB	JR265mm
BRUSHLESS														
KM5308MDHV	-	0.05s/60°	0.04s/60°	-	-	6.30kg.cm	8.50kg.cm	-	25T	40*20*38	62g	0.002ms	2BB	JR265mm
KM5325MDHV	-	0.09s/60°	0.08s/60°	-	-	22.3kg.cm	26.5kg.cm	-	25T	40*20*38	62g	0.002ms	2BB	JR265mm



PRODUCT FEATURE

- High quality potentiometer
- Full CNC aluminium case
- High-precision metal gears
- Dual ball bearings
- Waterproof



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
KM7013MDHV	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°	22.0kg.cm	26.0kg.cm	31.0kg.cm	35.0kg.cm	25T	40*20*36.6	69.5g	0.002ms	2BB	JR265mm
KM7023MDHV	0.14s/60°	0.12s/60°	0.10s/60°	0.09s/60°	26.0kg.cm	30.0kg.cm	35.0kg.cm	39.0kg.cm	25T	40*20*36.6	73.5g	0.002ms	2BB	JR265mm
KM7032MDHV	0.19s/60°	0.16s/60°	0.15s/60°	0.14s/60°	30.0kg.cm	35.0kg.cm	42.0kg.cm	45.0kg.cm	25T	40*20*36.6	73.5g	0.002ms	2BB	JR265mm
BRUSHLESS														
KM6917MDHV	0.09s/60°	0.07s/60°	0.06s/60°	0.04s/60°	17.0kg.cm	20.0kg.cm	23.0kg.cm	26.0kg.cm	25T	40*20*36.6	70.5g	0.002ms	2BB	JR265mm
KM6926MDHV	0.10s/60°	0.09s/60°	0.08s/60°	0.07s/60°	20.0kg.cm	25.0kg.cm	30.0kg.cm	35.0kg.cm	25T	40*20*36.6	74.5g	0.002ms	2BB	JR265mm
KM6932MDHV	0.16s/60°	0.13s/60°	0.11s/60°	0.10s/60°	24.0kg.cm	30.0kg.cm	36.0kg.cm	40.0kg.cm	25T	40*20*36.6	74.5g	0.002ms	2BB	JR265mm

SAIL WINCH SERVOS



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Turn	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
SW4805-1.5PA	0.90s/360°	0.70s/360°	-	-	5.25kg.cm	6.13kg.cm	-	-	25T	40.5*20.2*38	45g	1.5~1.7T	2B	JR265mm
SW4805-2PA	0.90s/360°	0.70s/360°	-	-	5.25kg.cm	6.13kg.cm	-	-	25T	40.5*20.2*38	45g	2.3~2.6T	2B	JR265mm
SW4805-4PA	0.90s/360°	0.70s/360°	-	-	5.25kg.cm	6.13kg.cm	-	-	25T	40.5*20.2*38	45g	4~4.5T	2B	JR265mm
SW4805-6PA	0.90s/360°	0.70s/360°	-	-	5.25kg.cm	6.13kg.cm	-	-	25T	40.5*20.2*38	45g	5.5~6T	2B	JR265mm
SW5513-4MA	1.10s/360°	0.90s/360°	-	-	9.24kg.cm	10.6kg.cm	-	-	25T	40.5*20.2*38	55g	4~4.5T	2B	JR265mm
SW5513-6MA	1.10s/360°	0.90s/360°	-	-	9.24kg.cm	10.6kg.cm	-	-	25T	40.5*20.2*38	55g	5.5~6T	2B	JR265mm



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Turn	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
SW6109MD	0.24s/360°	0.18s/360°	-	-	7.92kg.cm	9.02kg.cm	-	-	25T	40.5*20.2*38	61g	1~6T	2BB	JR265mm
SW6114MD	0.72s/360°	0.60s/360°	-	-	12.3kg.cm	14.5kg.cm	-	-	25T	40.5*20.2*38	61g	1~6T	2BB	JR265mm



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Turn	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORE														
SW5508-2MD	0.60s/360°	0.50s/360°	-	-	7.30kg.cm	8.80kg.cm	-	-	25T	40.5*20.2*38	58g	2.2~3T	2BB	JR265mm

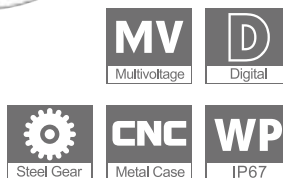


PRODUCT FEATURE

- High precision metal gears
- Dual ball bearings
- High quality coreless motor
- Suitable for the class same as IOM
- Waterproof

Programmable turns from 1.5T~7T

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Turn	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
SW22HV	0.62s/360°	0.52s/360°	0.43s/360°	0.37s/360°	14.3kg.cm	17.8kg.cm	22.0kg.cm	24.6kg.cm	25T	40.5*20.2*39.5	68g	1.5~7T	2BB	JR270mm



PRODUCT FEATURE

- High quality potentiometer
- Durable steel gears
- Full CNC aluminium case
- Dual ball bearings
- low power consumption and super long working life
- Waterproof

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Turn	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
SW01CS	0.48s/360°	0.42s/360°	0.36s/360°	0.30s/360°	12.0kg.cm	14.5kg.cm	18.0kg.cm	20.0kg.cm	25T	40*20*36.5	82g	1~8T	2BB	JR320mm
SW02CS	0.72s/360°	0.60s/360°	0.48s/360°	0.42s/360°	20.0kg.cm	25.0kg.cm	28.0kg.cm	30.0kg.cm	25T	40*20*36.5	82g	1~8T	2BB	JR320mm
BRUSHLESS														
SW01BS	0.54s/360°	0.48s/360°	0.36s/360°	0.30s/360°	18.4kg.cm	22.3kg.cm	28.0kg.cm	30.6kg.cm	25T	40*20*36.5	85g	1~8T	2BB	JR320mm
SW02BS	0.96s/360°	0.78s/360°	0.60s/360°	0.30s/360°	12.0kg.cm	14.5kg.cm	18.0kg.cm	20.0kg.cm	25T	40*20*36.5	85g	1~8T	2BB	JR320mm

WING SERVOS



ITEM:	C106		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.08s/60°	0.06s/60°	0.05s/60°
Stall Torque:	0.7kg.cm	1.0kg.cm	1.5kg.cm
Dimensions:	17*8.8*17.5mm/0.66x0.34x0.68in		
Operating voltage:	DC3.5V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	5g(0.17oz)	Waterproof:	No
Connector/plug:	JR95mm	Motor:	Coreless motor



ITEM:	C126		
Operating voltage:	3.5V	5.0V	6.0V
Operating Speed:	0.08s/60°	0.06s/60°	0.05s/60°
Stall Torque:	0.8kg.cm	1.2kg.cm	1.5kg.cm
Dimensions:	17*8.8*17.5mm/0.66x0.34x0.68in		
Operating voltage:	DC3.5V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	1BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	7g(0.24oz)	Waterproof:	No
Connector/plug:	JR95mm	Motor:	Coreless motor



ITEM:	C308				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.17s/60°	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	1.2kg.cm	1.6kg.cm	1.9kg.cm	2.5kg.cm	3.0kg.cm
Dimensions:	23*6*21mm/0.90x0.23x0.82in				
Operating voltage:	DC3.5V~8.4V	Gear:	Full metal		
Dead band width:	2us	Bearing:	2BB		
Working frequency:	1520us/330Hz	Spline:	Mini 15T		
Weight:	8g(0.28oz)	Waterproof:	No		
Connector/plug:	JR180mm	Motor:	Coreless motor		



ITEM:	C410				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.23s/60°	0.15s/60°	0.13s/60°	0.10s/60°	0.08s/60°
Stall Torque:	2.1kg.cm	3.1kg.cm	3.7kg.cm	4.2kg.cm	4.7kg.cm
Dimensions:	23*6*25mm/0.89x0.23x0.98in				
Operating voltage:	DC3.5V~8.4V	Gear:	Full metal		
Dead band width:	2us	Bearing:	2BB		
Working frequency:	1520us/330Hz	Spline:	Mini 15T		
Weight:	9g(0.31oz)	Waterproof:	No		
Connector/plug:	JR180mm	Motor:	Coreless motor		



ITEM:	KM1002MD		
Operating voltage:	4.8V	6.0V	
Operating Speed:	0.12s/60°	0.10s/60°	
Stall Torque:	1.40kg.cm	1.90kg.cm	
Dimensions:	23.5*8*24mm/0.9x0.31x0.93in		
Operating voltage:	DC4.8V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	9.4g(0.33oz)	Waterproof:	No
Connector/plug:	JR150mm	Motor:	DC motor



ITEM:	KM1026MDHV		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.09s/60°	0.07s/60°	
Stall Torque:	2.00kg.cm	2.60kg.cm	
Dimensions:	23.5*8*24mm/0.9x0.31x0.93in		
Operating voltage:	DC5.0V~7.4V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	9.4g(0.33oz)	Waterproof:	No
Connector/plug:	JR150mm	Motor:	DC motor



ITEM:	CLS0308W				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.17s/60°	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	1.2kg.cm	1.6kg.cm	1.9kg.cm	2.5kg.cm	3.0kg.cm
Dimensions:	20*7*21.9mm/0.78x0.27x0.85in				
Operating voltage:	DC3.5V~8.4V	Gear:	Full metal		
Dead band width:	2us	Bearing:	2BB		
Working frequency:	1520us/330Hz	Spline:	Mini 17T		
Weight:	8g(0.28oz)	Waterproof:	No		
Connector/plug:	JR180mm	Motor:	Coreless motor		



ITEM:	CLS0309W				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.16s/60°	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°
Stall Torque:	2.0kg.cm	3.0kg.cm	4.0kg.cm	4.5kg.cm	5.0kg.cm
Dimensions:	23.5*8*20mm/0.92x0.31x0.78in				
Operating voltage:	DC3.5V~8.4V	Gear:	Full metal		
Dead band width:	2us	Bearing:	2BB		
Working frequency:	1520us/330Hz	Spline:	Exclusive		
Weight:	8.6g(0.30oz)	Waterproof:	No		
Connector/plug:	JR120mm	Motor:	Coreless motor		



ITEM:	CLS0408W			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	2.80kg.cm	3.20kg.cm	4.00kg.cm	4.50kg.cm
Dimensions:	25X8X24.8mm/0.97x0.31x0.96in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Exclusive	
Weight:	16.7g(0.58oz)	Waterproof:	No	
Connector/plug:	JR300mm	Motor:	Coreless motor	



ITEM:	C407			
Operating voltage:	3.5V	5.0V	6.0V	7.4V
Operating Speed:	0.15s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	1.6kg.cm	2.6kg.cm	3.2kg.cm	3.8kg.cm
Dimensions:	23.7*9*20mm/0.92x0.35x0.78in			
Operating voltage:	DC3.5V~7.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 15T	
Weight:	9g(0.31oz)	Waterproof:	No	
Connector/plug:	JR120mm	Motor:	Coreless motor	



ITEM:	C507				
Operating voltage:	3.5V	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.15s/60°	0.10s/60°	0.08s/60°	0.07s/60°	0.06s/60°
Stall Torque:	2.0kg.cm	3.2kg.cm	4.0kg.cm	4.9kg.cm	5.3kg.cm
Dimensions:	23.5*8*20mm /0.91x0.31x0.78in				
Operating voltage:	DC3.5V~8.4V	Gear:		Full metal	
Dead band width:	2us	Bearing:		2BB	
Working frequency:	1520us/330Hz	Spline:		Mini 15T	
Weight:	9g(0.31oz)	Waterproof:		No	
Connector/plug:	JR180mm	Motor:		Coreless motor	



ITEM:	CLS0506W			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.10s/60°	0.08s/60°	0.06s/60°	0.058s/60°
Stall Torque:	3.0kg.cm	3.8kg.cm	4.7kg.cm	5.2kg.cm
Dimensions:	23.5*8*20mm/0.91x0.31x0.78in			
Operating voltage:	DC5.0V~8.4V	Gear:		Full metal
Dead band width:	2us	Bearing:		2BB
Working frequency:	1520us/330Hz	Spline:		Mini 15T
Weight:	9.8g(0.38oz)	Waterproof:		No
Connector/plug:	JR100mm	Motor:		Coreless motor



ITEM:	KM2106MD		
Operating voltage:	4.8V		6.0V
Operating Speed:	0.16s/60°		0.13s/60°
Stall Torque:	4.80kg.cm		5.80kg.cm
Dimensions:	30*10*35.5mm/1.17x0.39x1.38in		
Operating voltage:	DC4.8V~6.0V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	21g(0.74oz)	Waterproof:	No
Connector/plug:	JR220mm	Motor:	DC motor



ITEM:	KM2108MDHV		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.14s/60°	0.12s/60°	
Stall Torque:	6.80kg.cm	7.90kg.cm	
Dimensions:	30*10*35.5mm/1.17x0.39x1.38in		
Operating voltage:	DC6 .0V~7.4V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	21g(0.74oz)	Waterproof:	No
Connector/plug:	JR220mm	Motor:	DC motor



ITEM:	KM2607MD		
Operating voltage:	5.0V	6.0V	7.4V
Operating Speed:	0.16s/60°	0.13s/60°	0.11s/60°
Stall Torque:	7.20kg.cm	8.00kg.cm	9.70kg.cm
Dimensions:	30*10*35mm/1.18 x0.39x1.37in		
Operating voltage:	DC5.0V~7.4V	Gear:	
Dead band width:	2us	Bearing:	
Working frequency:	1520us/330Hz	Spline:	
Weight:	28.4g(1.11oz)	Waterproof:	
Connector/plug:	JR180mm	Motor:	



ITEM:	CLS0512W			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	7.5kg.cm	8.5kg.cm	9.0kg.cm	10.0kg.cm
Dimensions:	25*8*34.3mm/0.98x0.31x0.35in			
Operating voltage:	DC5.0V~8.4V	Gear:		Full metal
Dead band width:	2us	Bearing:		2BB
Working frequency:	1520us/330Hz	Spline:		Mini 25T
Weight:	21g(0.74oz)	Waterproof:		No
Connector/plug:	JR300mm	Motor:		Coreless motor



ITEM:	CLS0912W			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.13s/60°	0.10s/60°	0.08s/60°	0.07s/60°
Stall Torque:	7.5kg.cm	8.5kg.cm	9.0kg.cm	10.0kg.cm
Dimensions:	25*8*34.3mm/0.98x0.31x0.35in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 15T	
Weight:	21g(0.74oz)	Waterproof:	No	
Connector/plug:	JR300mm	Motor:	Coreless motor	



ITEM:	CLS0612W			
Operating voltage:	5.0V	6.0V	7.4V	8.4V
Operating Speed:	0.14s/60°	0.12s/60°	0.10s/60°	0.09s/60°
Stall Torque:	5.40kg.cm	6.20kg.cm	7.50kg.cm	8.50kg.cm
Dimensions:	30*10*30mm/1.17x0.39x1.17in			
Operating voltage:	DC5.0V~8.4V	Gear:	Full metal	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	Mini 25T	
Weight:	23g(0.81oz)	Waterproof:	No	
Connector/plug:	JR220mm	Motor:	Coreless motor	

PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- Full CNC aluminium case
- High quality coreless motor
- Dual ball bearings



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS0911W	0.16s/60°	0.13s/60°	0.11s/60°	0.10s/60°	7.2kg.cm	8.7kg.cm	10.0kg.cm	11.0kg.cm	Mini 25T	30*10*35.5	26.2g	0.002ms	2BB	JR185mm
CLS2013W	0.19s/60°	0.16s/60°	0.13s/60°	0.11s/60°	14.8kg.cm	17.0kg.cm	20.0kg.cm	21.0kg.cm	Mini 25T	30*10*35.5	28.2g	0.002ms	2BB	JR185mm

PRODUCT FEATURE

- High quality potentiometer
- High-precision steel gears
- Full CNC aluminium case
- High quality coreless motor
- Dual ball bearings



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
CLS1510W	0.16s/60°	0.13s/60°	0.10s/60°	0.09s/60°	12.0kg.cm	13.7kg.cm	15.0kg.cm	17.8kg.cm	Mini 25T	30*12*35	33.5g	0.002ms	2BB	JR215mm
CLS2713W	0.19s/60°	0.16s/60°	0.13s/60°	0.12s/60°	18.0kg.cm	23.0kg.cm	27.0kg.cm	30.0kg.cm	Mini 25T	30*12*35	33.5g	0.002ms	2BB	JR215mm

Continuous rotation

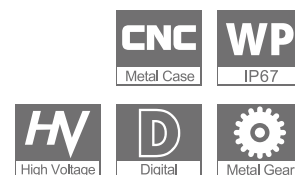


PRODUCT FEATURE

- High quality potentiometer
- High quality brushless motor
- High-precision steel gears
- Full CNC aluminium case
- Dual ball bearings
- Super long working life
- **Waterproof**

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
BRUSHLESS														
W04BSC	1.08s/360°	0.90s/360°	0.78s/360°	0.60s/360°	26.8kg.cm	30.0kg.cm	36.0kg.cm	40.0kg.cm	25T	40*20*28.5	65g	0.002ms	2BB	JR320mm

BIG-SIZED SERVOS



ITEM:	KM14530MD		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.20s/60°	0.18s/60°	
Stall Torque:	28.5kg.cm	32.3kg.cm	
Dimensions:	60*29*57.1mm/2.34x1.13x2.23in		
Operating voltage:	DC6 .0V~7.4V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	165.7g(5.84oz)	Waterproof:	Yes
Connector/plug:	JR265mm	Motor:	DC motor

ITEM:	DCS16942CHV		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.18s/60°	0.14s/60°	
Stall Torque:	40.2kg.cm	50.3kg.cm	
Dimensions:	60*30.2*60.5mm/2.34x1.18x2.36in		
Operating voltage:	DC6 .0V~7.4V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	15T
Weight:	186g(6.56oz)	Waterproof:	Yes
Connector/plug:	JR300mm	Motor:	DC motor



ITEM:	DCS6513HV		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.15s/60°	0.13s/60°	
Stall Torque:	51.0kg.cm	65.0kg.cm	
Dimensions:	66*30*57.5mm/2.58x1.17x2.24in		
Operating voltage:	DC6 .0V~7.4V	Gear:	Full metal
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	15T
Weight:	200g(7.05oz)	Waterproof:	Yes
Connector/plug:	JR265mm	Motor:	DC motor

ITEM:	BLS13217		
Operating voltage:	7.4V	8.4V	12.0V
Operating Speed:	0.47s/60°	0.42s/60°	0.30s/60°
Stall Torque:	76.0kg.cm	84.0kg.cm	110.0kg.cm
Dimensions:	64*30*57.6mm /2.49X1.17X2.24in		
Operating voltage:	DC7.4V~12V	Gear:	Steel gear
Dead band width:	4us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	15T
Weight:	272.5g(9.61oz)	Waterproof:	No
Connector/plug:	JR320mm	Motor:	Brushless motor



ITEM:	BLS13015		
Operating voltage:	7.4V	8.4V	12.0V
Operating Speed:	0.25s/60°	0.22s/60°	0.15s/60°
Stall Torque:	88.0kg.cm	98.0kg.cm	130.0kg.cm
Dimensions:	65.8*30*58.5mm/2.56X1.17X2.28in		
Operating voltage:	DC7.4V~12V	Gear:	Steel gear
Dead band width:	4us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	15T
Weight:	248g(8.74oz)	Waterproof:	Yes
Connector/plug:	JR300mm	Motor:	Brushless motor



ITEM:	S90			
Operating voltage:	8.4V	12V	15V	16.8V
Operating Speed:	0.30s/60°	0.21s/60°	0.16s/60°	0.15s/60°
Stall Torque:	56.0kg.cm	80.0kg.cm	100kg.cm	112kg.cm
Dimensions:	63x30x33/2.45x1.17x1.28in			
Operating voltage:	DC8.4V~16.8V	Gear:	Steel gear	
Dead band width:	2us	Bearing:	2BB	
Working frequency:	1520us/330Hz	Spline:	15T	
Weight:	154g(5.43oz)	Waterproof:	Yes	
Connector/plug:	JR280mm	Motor:	Brushless motor	



PRODUCT FEATURE

- High quality potentiometer
- **Durable steel gears**
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings
- **Waterproof IPX8 grade**



Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	8.4V	12V	15V	16.8V	8.4V	12V	15V	16.8V						
BRUSHLESS														
S120	0.15s/60°	0.10s/60°	0.08s/60°	0.07s/60°	90kg.cm	130kg.cm	158kg.cm	175kg.cm	15T	63*30*50.7	259g	0.002ms	2BB	JR280mm
S140	0.16s/60°	0.11s/60°	0.09s/60°	0.08s/60°	104kg.cm	142kg.cm	160kg.cm	192kg.cm	15T	63*30*57	288g	0.002ms	2BB	JR280mm
S150	0.22s/60°	0.16s/60°	0.13s/60°	0.11s/60°	128kg.cm	180kg.cm	200kg.cm	220kg.cm	15T	63*30*57	288g	0.002ms	2BB	JR280mm



PRODUCT FEATURE

- High quality potentiometer
- **Durable steel gears**
- High quality brushless motor
- Full CNC aluminium case
- Super long life
- Dual ball bearings
- **Waterproof IPX8 grade**



Item NO.	Operating Speed					Stall Torque					Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	7.4V	8.4V	12V	15V	16.8V	7.4V	8.4V	12V	15V	16.8V						
BRUSHLESS																
S180	0.30s/60°	0.26s/60°	0.18s/60°	0.14s/60°	0.13s/60°	100kg.cm	110kg.cm	160kg.cm	180kg.cm	185kg.cm	15T	64*31.5*73.3	370g	0.002ms	2BB	JR280mm



ITEM:	S700		
Operating voltage:	24V	28V	32V
Operating Speed:	0.34s/60°	0.29s/60°	0.21s/60°
Stall Torque:	600kg.cm	700kg.cm	800kg.cm
Dimensions:	104*48*110mm/4.05x1.87x4.29in		
Operating voltage:	DC24V~32V	Gear:	Steel gear
Dead band width:	2us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	15T
Weight:	1400g(49.38oz)	Waterproof:	Yes
Connector/plug:	JR280mm	Motor:	Brushless motor

UAV SERVOS



PRODUCT FEATURE

- High quality potentiometer
- High-precision metal gears
- High quality coreless motor
- Full CNC aluminium case
- Dual ball bearings

Item NO.	Operating Speed				Stall Torque				Spline	Dimensions (mm)	Weight	Dead band width	Bearing	Connector plug
	5.0V	6.0V	7.4V	8.4V	5.0V	6.0V	7.4V	8.4V						
CORELESS														
UAV01	0.21s/60°	0.17s/60°	0.14s/60°	0.12s/60°	29.0kg.cm	34.0kg.cm	40.0kg.cm	46.0kg.cm	25T	40*20*37.3	77.7g	0.002ms	2BB	JR300mm

ROBOT SERVOS





ITEM:	RBC03		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.14s/60°	0.12s/60°	
Stall Torque:	4.50kg.cm	5.50kg.cm	
Working angle:	180°(0.5~2.5ms)	Dimensions:	23*12*27.5mm
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	1us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	20.3g(0.47oz)	Waterproof:	No
Connector/plug:	JR180mm	Motor:	Coreless motor



ITEM:	RBC04		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.12s/60°	0.08s/60°	
Stall Torque:	5.50kg.cm	8.50kg.cm	
Working angle:	180°(0.5~2.5ms)	Dimensions:	23*12*27.5mm
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	1us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	Exclusive
Weight:	20.3g(0.47oz)	Waterproof:	No
Connector/plug:	JR180mm	Motor:	Coreless motor



ITEM:	RBD01		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.20s/60°	0.15s/60°	
Stall Torque:	15.0kg.cm	17.0kg.cm	
Working angle:	180°(0.5~2.5ms)	Dimensions:	40*20*49.5mm
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	1us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	25T
Weight:	65g(2.15oz)	Waterproof:	Yes
Connector/plug:	JR470mm	Motor:	DC motor



ITEM:	RBD02		
Operating voltage:	5.0V	6.0V	
Operating Speed:	0.20s/60°	0.15s/60°	
Stall Torque:	15.0kg.cm	17.0kg.cm	
Working angle:	180°(0.5~2.5ms)	Dimensions:	40*20*49.5mm
Operating voltage:	DC5.0V~6.0V	Gear:	Full metal
Dead band width:	1us	Bearing:	2BB
Working frequency:	1520us/330Hz	Spline:	25T
Weight:	65g(2.15oz)	Waterproof:	Yes
Connector/plug:	JR470mm	Motor:	DC motor



**SINGLE LINE HALF DUPLEX
SERIAL PROTOCOL SERVO**



ITEM:	RB1224		
Operating voltage:	6.0V	7.4V	
Operating Speed:	0.29s/60°	0.24s/60°	
Stall Torque:	11.0kg.cm	12.0kg.cm	
Working angle:	300°(0~4ms)	Dimensions:	44.2*29.3*28.6mm
Operating voltage:	DC6.0V~7.4V	Gear:	Full metal
Dead band width:	4us	Bearing:	2BB
Current Protection:	Yes	Spline:	25T
Weight:	50g(1.76oz)	Waterproof:	No
Connector/plug:	JR280mm	Motor:	DC motor



**RS485/TTL SERIAL
COMMUNICATION PROTOCOL SERVO**



ITEM:	RB5529		
Operating voltage:	10.0~14.8V		
Operating Speed:	0.29s/60°(@12.0V)		
Stall Torque:	55.0kg.cm(@12.0V)		
Working angle:	310°	Dimensions:	55.6*40*40.9mm
Pulse Width Range	96~4000	Gear:	Full metal
Dead band width:	N/A	Bearing:	2BB
Neutral Position:	2048	Baud Rate:	115200 bps
Weight:	165g(5.82oz)	Current Protection:	Yes
Connector/plug:	4Pin-2.54mm	Motor:	Coreless motor

RS485/TTL SERIAL COMMUNICATION PROTOCOL SERVO

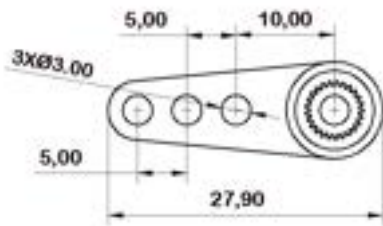
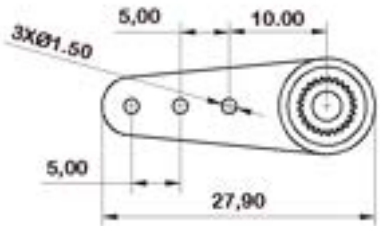
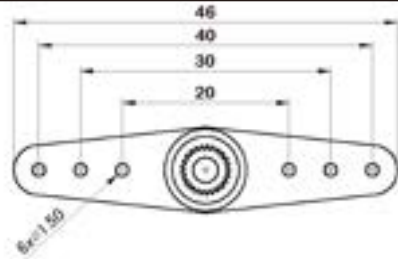
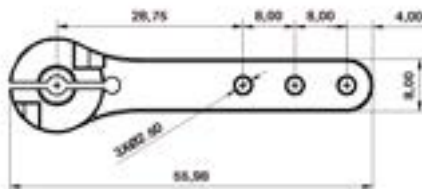
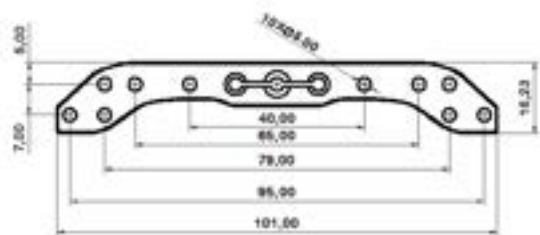
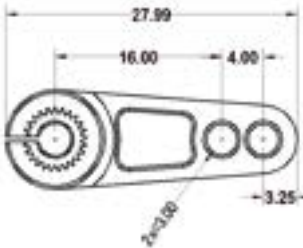


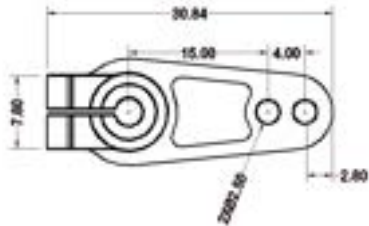
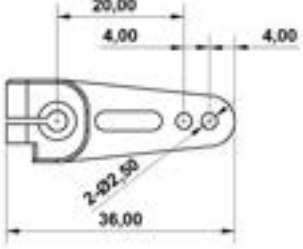
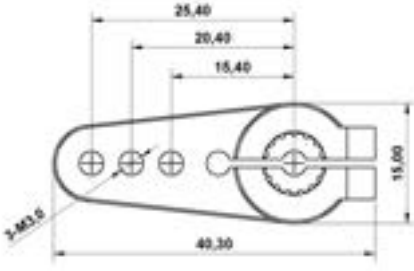
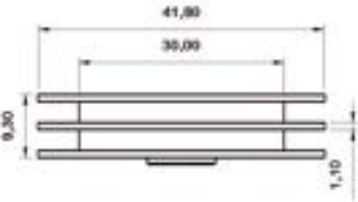
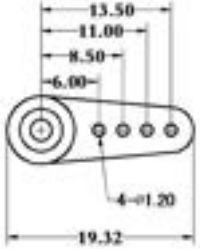
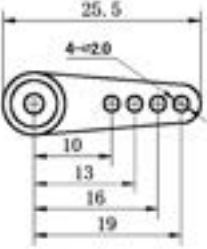
ITEM:	RB11020		
Operating voltage:	18~29V		
Operating Speed:	0.20s/60°(@24V)		
Stall Torque:	110kg.cm(@24V)		
Working angle:	300°	Dimensions:	65.8*30*61.5mm
Pulse Width Range	0~4096	Gear:	Steel gear
Dead band width:	N/A	Bearing:	2BB
Neutral Position:	2048	Baud Rate:	8000bps~4.5Mbps
Weight:	286.8g	Current Protection:	Yes
Connector/plug:	4Pin-5557	Motor:	Brushless motor

SERVO FRAME



Photo	Item No.	Effect picture	Applicable servo model
	C410-005		C410H C308H
	CLS0512W-005		CLS0512W CLS0912W CLS0408W
	CLS1510W-005		CLS1510WH CLS2713WH CLS0911W CLS2013W CLS0612W KM2607MD

PART NO.	IMAGE	SPLINE	APPLICATION	SIZE
KSA003		standard 25T	Car	
KSA003A		standard 25T	Car	
KSA003-2		standard 25T	Airplane Helicopter	
KSA005		standard 25T	Airplane	
KSA006		standard 25T	Airplane	
KSA007		standard 25T	Car	

PART NO.	IMAGE	SPLINE	APPLICATION	SIZE
KSA009		standard 25T	Car	
KSA013		standard 25T	Car	
KSA014		15T	Car	
SW30		standard 25T	Sail winch servos	
KSA001M		mini 21T	Car	
KSA002M		mini 25T	Car	

UBEC	SPECIFICATION	KM8001	KM8001-2	KM8001-3
	Input Voltage:	5.0V~16.0V	7.4V~26.0V	7.4V~26.0V
	Output Voltage:	5.0V or 6.0V selectable	5.0V or 6.0V selectable	7.4V or 8.4V selectable
	Continuous output current:	5.0A	6.0A	6.0A
	Burst output current:	8.0A	10.0A	10.0A
	Size(mm):	39*27*15.5	39*27*15.5	39*27*15.5
	Weight:	25g	25g	25g

UBEC	SPECIFICATION	E5	E6	E7	E8
	Input Voltage:	7.0V~40V	9.0V~40V	16V~40V	9.0V~40V
	Output Voltage:	5.0V or 6.0V selectable	7.4V or 8.4V selectable	12V or 15V selectable	5.0V~8.4V selectable
	Continuous output current:	6.0A	6.0A	6.0A	6.0A
	Burst output current:	10.0A	10.0A	10.0A	10.0A
	Size(mm):	47.6*36*15.5	47.6*36*15.5	47.6*36*15.5	47.6*36*15.5
	Weight:	26g	26g	26g	28.5g

ITEM: KM8008/SERVO TESTER**FUNCTION:**

1. To measure the directions/range of rotation of servo
2. To test the rotations of servo automatically or manually
3. Centering test

SPECIFICATION:

- Output : 5V(default) or adjustable(6.0V, 7.4V etc.)
- Input: 5V-24V
- Quiescent current: 15mA
- Size: 50.5mm*40mm*24mm (L*W*H)
- Weight: 35g



ITEM: SP01 / DIGITAL SERVO PROGRAMMER

SPECIFICATION:

--Size:43.8x15.9x6.7mm

--Weight:3.7g

**ITEM: TS-2/RC MULTIPLE TESTER**

PRODUCT FEATURE:

- 1、 To measure the directions/range of rotation of servo;
- 2、 To test the sensitivity of servo(1us per step minimum);
- 3、 To test the rotations of servo automatically or manually;
- 4、 To measure the pules width transmitted by transmitter;
- 5、 To record the cycles of life test of the servo;
- 6、 To test the accuracy of centering;
- 7、 To measure the speed of the servo;
- 8、 To test the ESC and discharge current of battery ($\leq 40A$).

Size: 128mm*78.3mm*37mm

Weight:120g

**ITEM: TGZ580****3-Axis Gyro' FBL Altitude Control Smart Fly System For 250~800 R/C Helicopter**

SPECIFICATIONS:

Size: 35*25*13.5mm

Weight without cable: 11g

Operating voltage: 4.0V-8.5 V DC (Lipo 2s possible)

Temperature range: -15℃ to +40℃

Processor: 32Bit ARM

Analog processing: 17Bit

Sensor technology: 3 MEMS angular rate sensors

Adjustable servo center pulse width:

Tail: 760US / 960US / 1520US

Adjustable servo pulse rate:

Tail: 50 Hz / 165 Hz / 270 Hz / 330 Hz / 560 Hz

Swashplate: 50 Hz / 65 Hz / 120 Hz / 200 Hz

Build-in swashplate mixer:

Mechanical / 90°/120°/140°/140° (1: 1)

Serial pulse input:

PPM / S-BUS / SRXL / Spektrum-satellite



ITEM:KM-9001,KINGMAX Electric fuel pump for R/C models/UAV

SPECIFICATIONS:

- 1.Operating voltage: 6.0V-8.4 V DC (Lipo 2s possible)
- 2.Flow Rate: 1200CC/min
3. Lift: 0.8M
3. Size: Ø36mm X L104mm
4. weight: 155g

Contents:

- Pump*1
- Pipeline*1(1meter)
- Nipple(with filter)*1
- Fuel pick up clunk(with filter)*1

Features:

1. All-metal movement, long service life;
2. Fully enclosed motor design, high safety;
3. Fully shielded metal case, no interference;
4. Positive and negative rotation design, it can pump and can be pumped;
5. Sealed with Polyurethane, Nitro and gasoline can be used;



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