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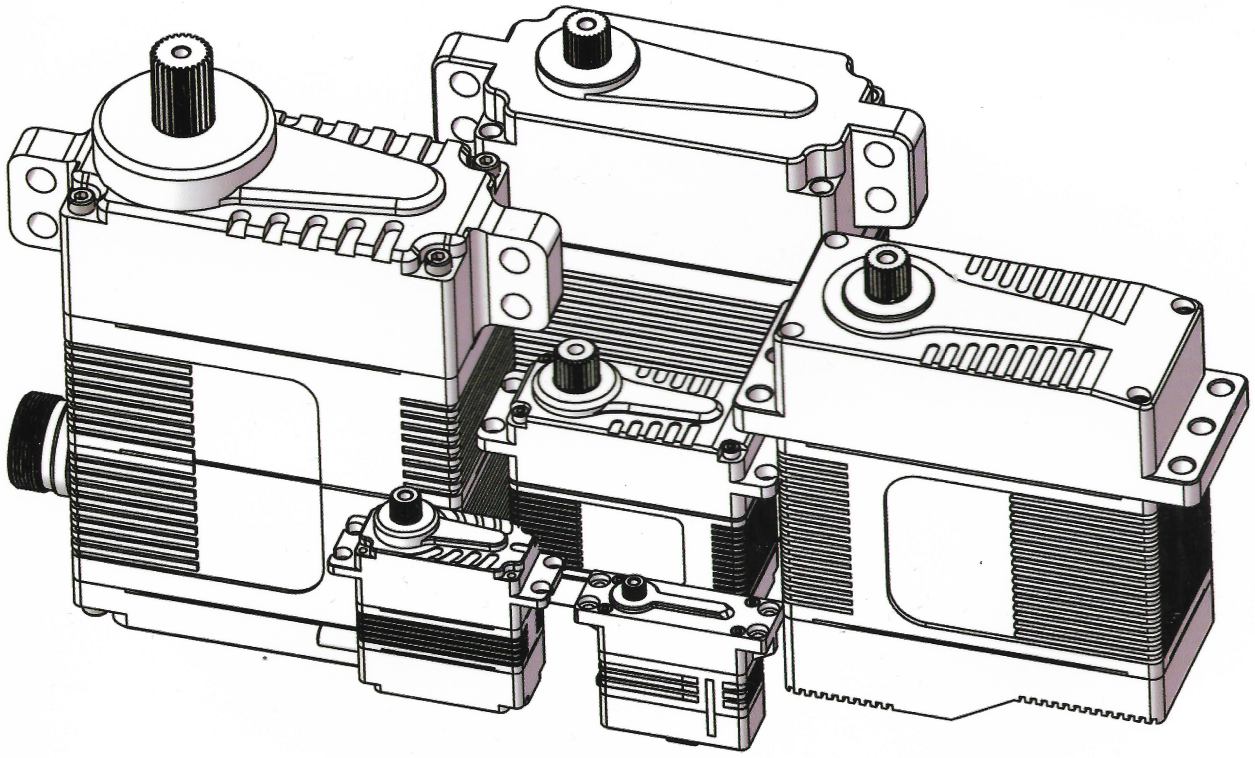
KST DIGITAL TECHNOLOGY LIMITED



PRODUCTS | 2024

High-precision digital servo provider

KST®

A Series Products Guide

Aircraft Servo

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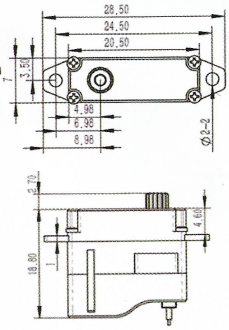
A06 || Coreless DC Motor || Dual Ball Bearing || Programmable

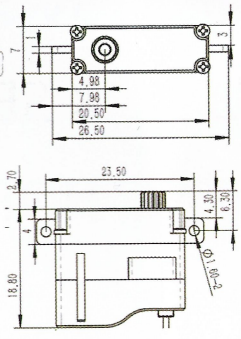


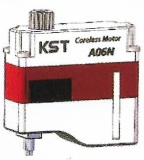


A06



A06H





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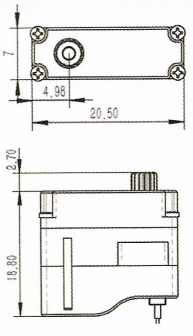
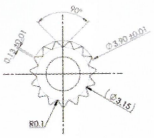
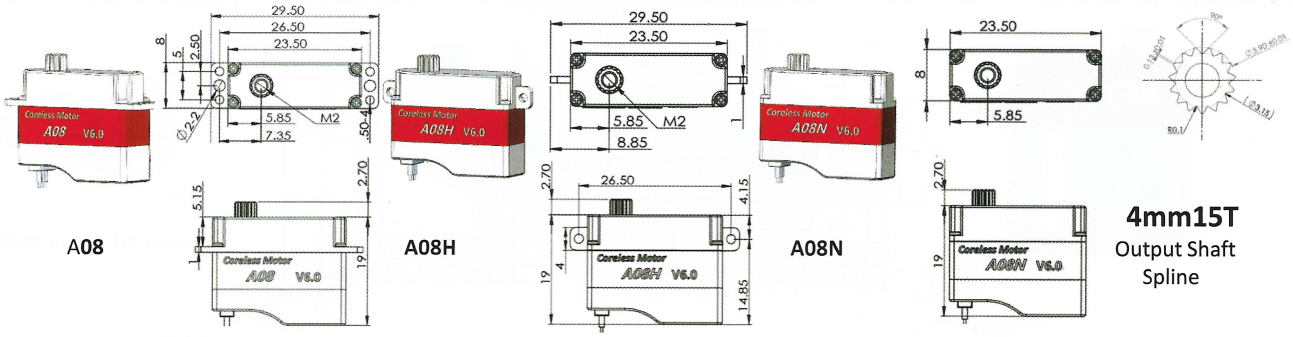




4mm15T
Output Shaft
Spline

Rated Voltage	DC4.2V	**Case Dimensions**	20.5mm*7mm*18.8mm(±0.2mm)
Voltage Range	DC3.50V-4.20V	**Weight**	7g(±10%)
Torque	1.10Kgf.cm@3.50V	**Default Travel Angle**	±60°=120° Total Travel
	1.40Kgf.cm@4.20V	**Temperature Range**	-10℃.....+65℃
Speed	0.14sec/60°@3.50V	**Motor Type**	Coreless DC Motor
	0.11sec/60°@4.20V	**Gear Set Material**	Hardened Steel
Working Frequency	1520us/333Hz	**Case Material**	Aluminum Alloy
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
Programmable	Yes	**Ball Bearing**	2BB

A08 || Coreless DC Motor || Dual Ball Bearing || Programmable



Rated Voltage	DC7.40V	**Case Dimensions**	23.5mm*8mm*19mm(±0.2mm)
Voltage Range	DC3.80V-8.40V	**Weight**	7g(±10%)
Torque	1.40Kgf.cm@3.80V	**Default Travel Angle**	±60°=120° Total Travel
	2.20Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	2.80Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	3.20Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.20sec/60°@3.80V	**Gear Set Material**	Hardened Steel
	0.13sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.10sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.09sec/60°@8.40V	**Ball Bearing**	2BB

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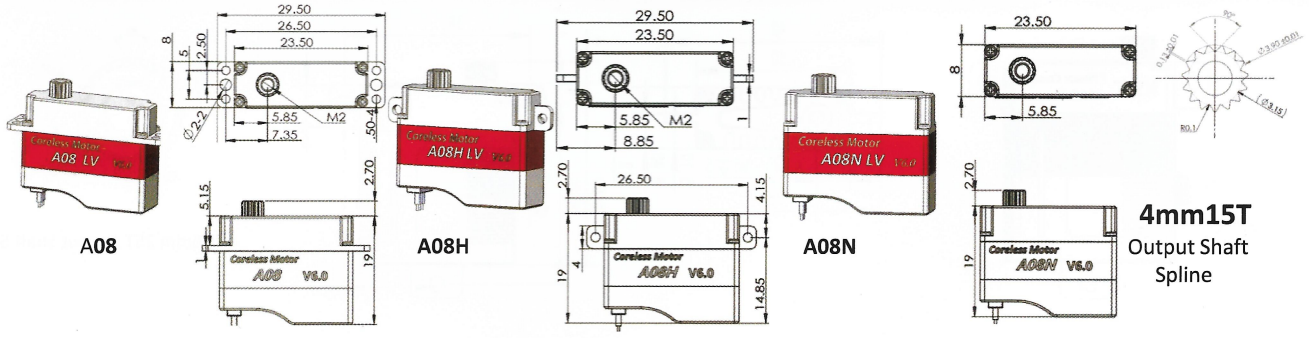
A08LV || Coreless DC Motor || Dual Ball Bearing || Programmable



Rated Voltage	DC4.2V	**Case Dimensions**	23.5mm*8mm*19mm(±0.2mm)
Voltage Range	DC3.50V-4.20V	**Weight**	7g(±10%)
Torque	1.20Kgf.cm@3.50V	**Default Travel Angle**	±60°=120° Total Travel
	2.00Kgf.cm@4.20V	**Temperature Range**	-10℃.....+65℃
Speed	0.18sec/60°@3.50V	**Motor Type**	Coreless DC Motor
	0.15sec/60°@4.20V	**Gear Set Material**	Hardened Steel
Working Frequency	1520us/333Hz	**Case Material**	Aluminum Alloy
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
Programmable	Yes	**Ball Bearing**	2BB

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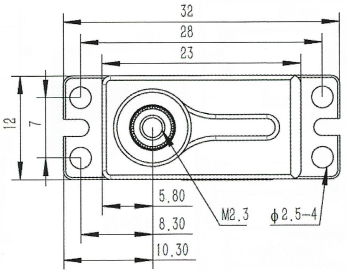
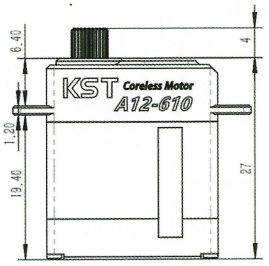
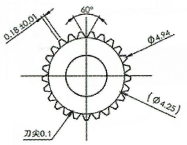
A12-610 || Coreless DC Motor || Dual Ball Bearing || Programmable









5mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	20g(±10%)
Torque	5.50Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	6.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	8.00Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	9.00Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.13sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.12sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.11sec/60°@7.40V	**Pulse Lengths**	800us-2200us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

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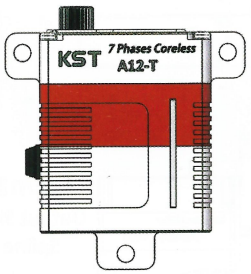
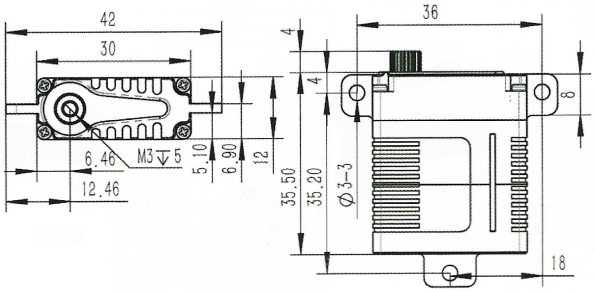
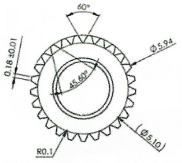
A12-T || 7 Phases Coreless DC Motor || Dual Ball Bearing || Programmable







6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	30mm*12mm*35.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	32g(±10%)
Torque	16.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	18.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	20.0Kgf.cm@8.40V	**Motor Type**	7 Phases Coreless DC Motor
Speed	0.15sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.12sec/60°@8.40V	**Position Sensor**	Contactless
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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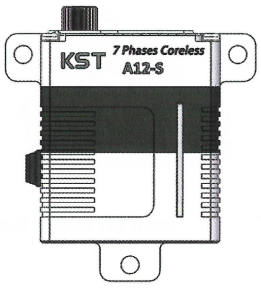
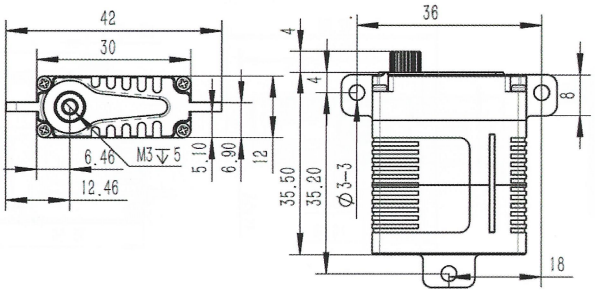
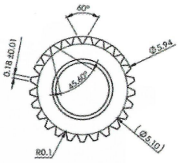
A12-S

7 Phases Coreless DC Motor | Dual Ball Bearing | Programmable







6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	30mm*12mm*35.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	32g(±10%)
Torque	11.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	12.8Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	13.5Kgf.cm@8.40V	**Motor Type**	7 Phases Coreless DC Motor
Speed	0.11sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.09sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.08sec/60°@8.40V	**Position Sensor**	Contactless
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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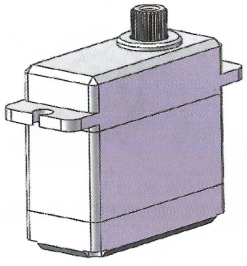
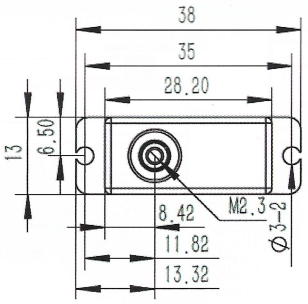
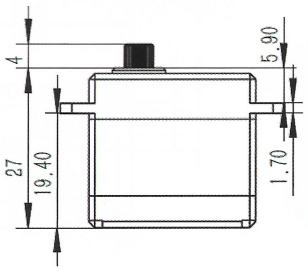
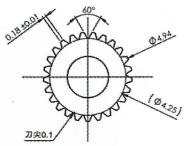
A13-610

Coreless DC Motor | Dual Ball Bearing | Programmable









5mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	28.2mm*13mm*27mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	24g(±10%)
Torque	5.50Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	6.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	8.00Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	9.00Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.13sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.12sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.11sec/60°@7.40V	**Pulse Lengths**	800us-2200us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

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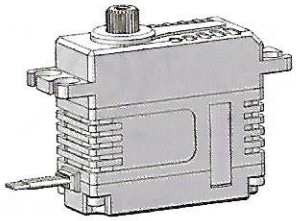
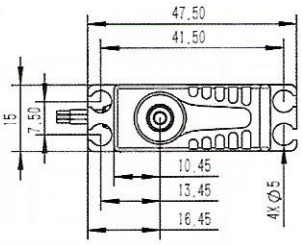
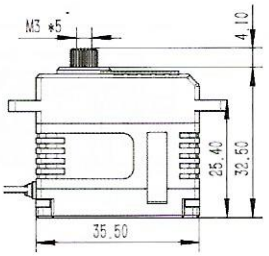
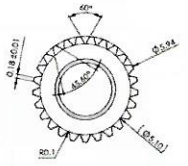
A15-1810 || Coreless DC Motor || Dual Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	42g(±10%)
Torque	15.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	18.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	20.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.14sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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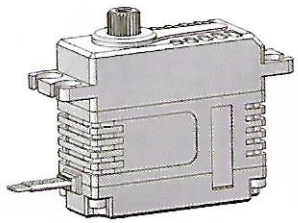
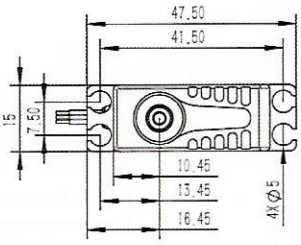
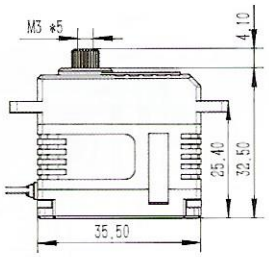
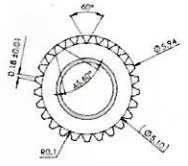
A15-1812 || Brushless DC Motor || Dual Ball Bearing || Programmable







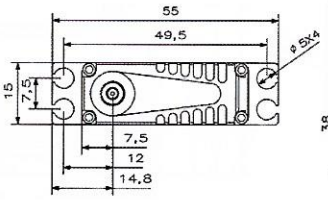


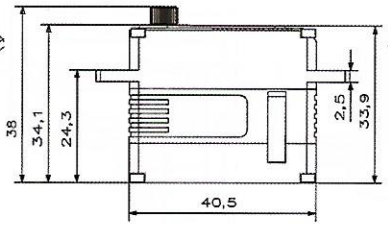
6mm 25T Output Shaft Spline

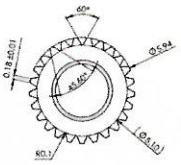
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	42g(±10%)
Stalling Torque	18.0Kgf.cm@7.4V	**Default Travel Angle**	±60°=120° Total Travel
Rated Torque	5.0Kgf.cm@7.4V	**Temperature Range**	-10℃.....+65℃
Stalling Current	2.85A@7.4V	**Motor Type**	Brushless DC Motor
Rated Current	0.92A@7.4V	**Case Material**	Aluminum Alloy
No-load Speed	0.12sec/60°@7.4V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.18sec/60°@7.4V@25℃	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

A15-2212 || Coreless DC Motor || Dual Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*15mm*34.1mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	50g(±10%)
Torque	18.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	22.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	25.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.15sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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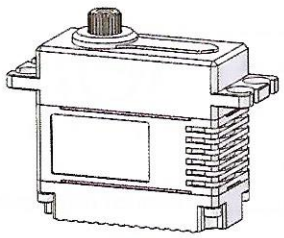
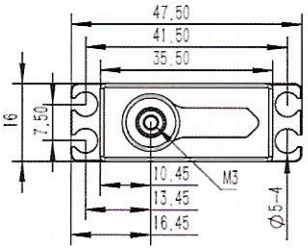
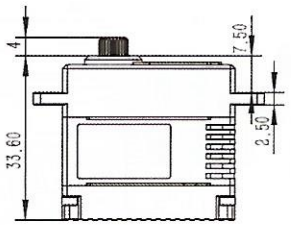
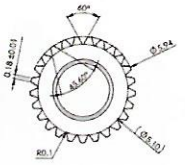
A16-1812 || Brushless DC Motor || Dual Ball Bearing || Programmable









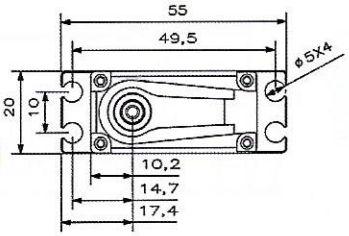
6mm 25T Output Shaft Spline

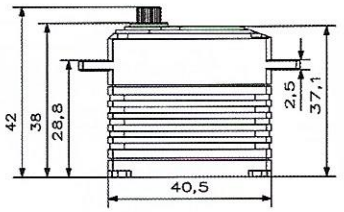
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	42g(±10%)
Stalling Torque	18.0Kgf.cm@7.4V	**Default Travel Angle**	±60°=120° Total Travel
Rated Torque	5.0Kgf.cm@7.4V	**Temperature Range**	-10℃.....+65℃
Stalling Current	2.85A@7.4V	**Motor Type**	Brushless DC Motor
Rated Current	0.92A@7.4V	**Case Material**	Aluminum Alloy
No-load Speed	0.12sec/60°@7.4V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.18sec/60°@7.4V@25℃	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

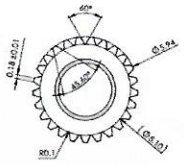
KST

A20-3813 || Brushless DC Motor || Dual Ball Bearing || Programmable









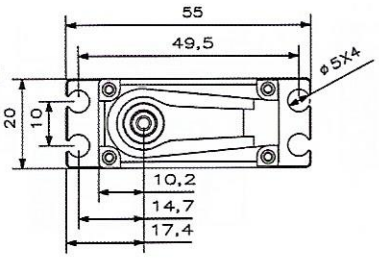
6mm 25T Output Shaft Spline

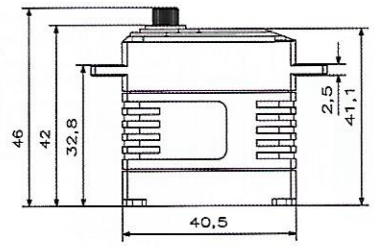
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	72g(±10%)
Torque	30.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	38.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	43.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.18sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.12sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

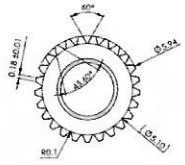
KST

A20-4515 || Brushless DC Motor || Dual Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*42mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	80g(±10%)
Torque	36.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	45.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	50.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.19sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.15sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.13sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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BLS Series Products Guide

Brushless Servo

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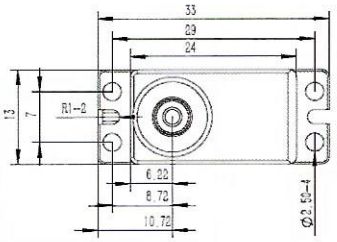
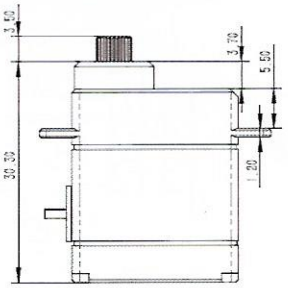
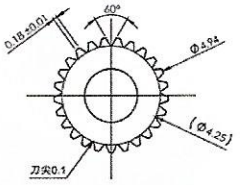
BLS88WP || Brushless DC Motor || Dual Ball Bearing || Programmable





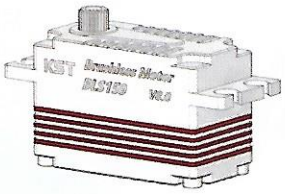


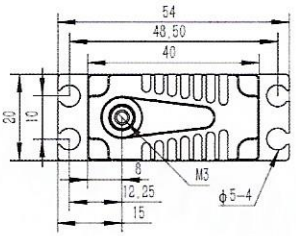


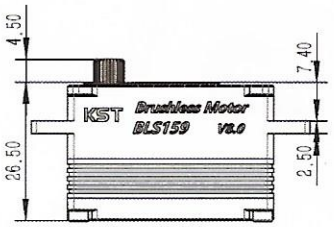
5mm25T
Output Shaft Spline

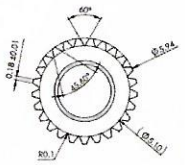
Rated Voltage	DC7.40V	**Case Dimensions**	24mm*13mm*30.3mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	21g(±10%)
Torque	7.5Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	8.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	8.5Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

BLS159 || Brushless DC Motor || Dual Ball Bearing || Programmable









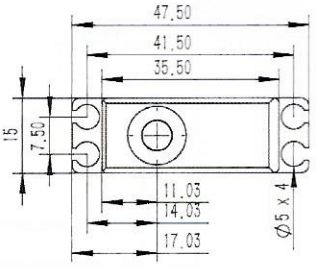
6mm25T
Output Shaft Spline

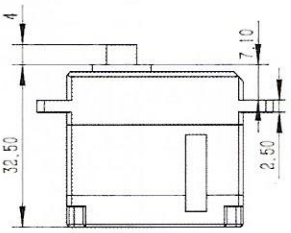
Rated Voltage	DC7.40V	**Case Dimensions**	40mm*20mm*26.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	55g(±10%)
Stalling Torque	15Kgf.cm@7.4V	**Default Travel Angle**	±60°=120° Total Travel
Rated Torque	4Kgf.cm@7.4V	**Temperature Range**	-10℃.....+65℃
Stalling Current	3.85A@7.4V	**Motor Type**	Brushless DC Motor
Rated Current	0.65A@7.4V	**Case Material**	Aluminum Alloy
No-load Speed	0.11sec/60°@7.4V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.15sec/60°@7.4V@25℃	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

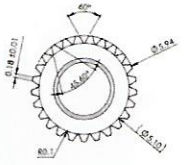
KST

BLS505 || Brushless DC Motor || Dual Ball Bearing || Programmable









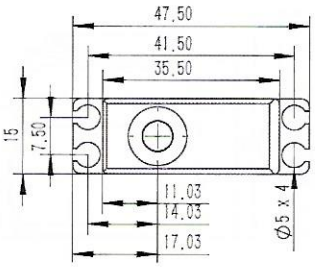
6mm25T
Output Shaft Spline

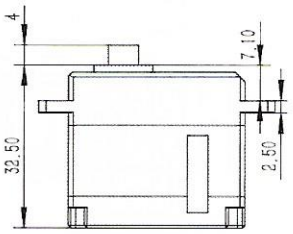
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	40g(±10%)
Torque	5.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	6.2Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	7.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

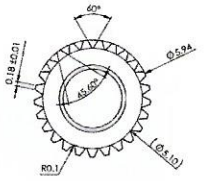
KST

BLS505X || Brushless DC Motor || Dual Ball Bearing || Programmable







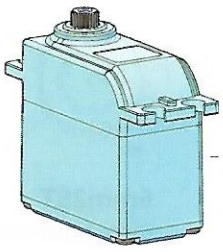


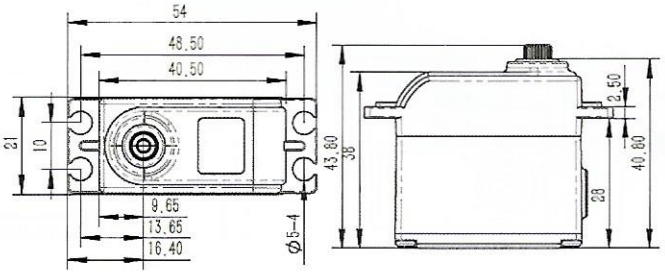
6mm25T
Output Shaft Spline

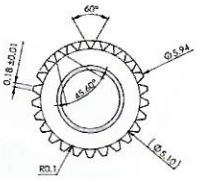
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	40g(±10%)
Torque	3.80Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	4.80Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	5.50Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.05sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.04sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.03sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB
		Programmable	Yes

KST®

BLS661WP || Brushless DC Motor || Dual Ball Bearing || Programmable





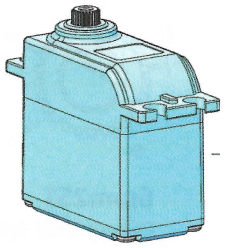


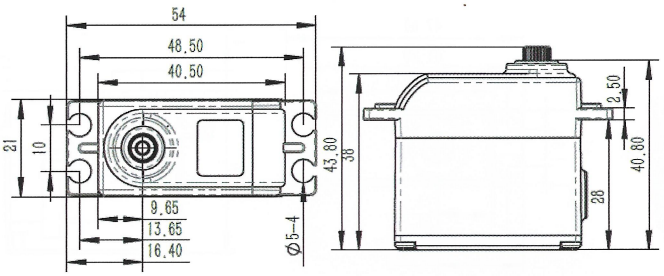
6mm25T
Output Shaft Spline

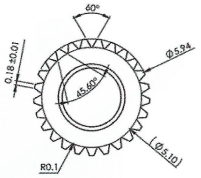
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*21mm*40.8mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	61g(±10%)
Torque	12.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	16.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	19.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.12sec/60°@6.00V	**Case Material**	PA66
	0.11sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

KST®

BLS662WP || Brushless DC Motor || Dual Ball Bearing || Programmable







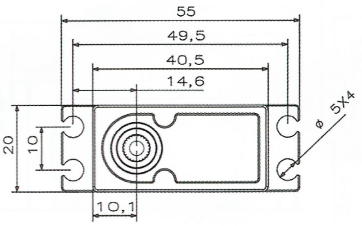
6mm25T
Output Shaft Spline

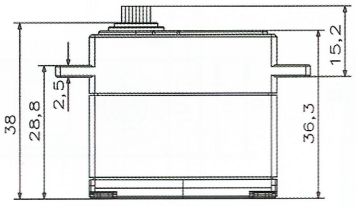
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*21mm*40.8mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	61g(±10%)
Torque	15.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	20.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	25.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.15sec/60°@6.00V	**Case Material**	PA66
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

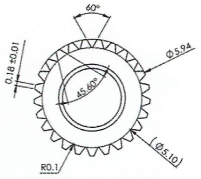
KST®

BLS805X ||Brushless DC Motor || Dual Ball Bearing || Programmable







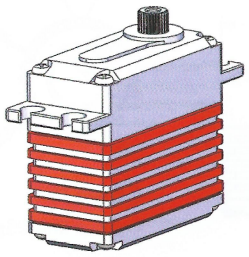


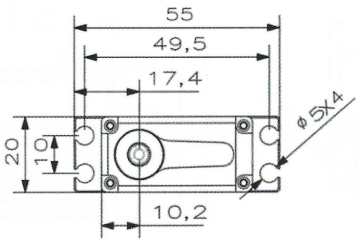
6mm25T
Output Shaft Spline

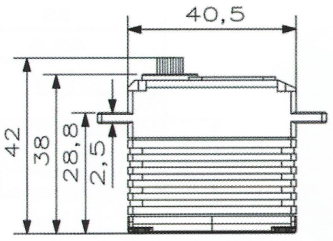
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	70g(±10%)
Torque	5.50Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	6.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	7.50Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.048sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.042sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.039sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB
		Programmable	Yes

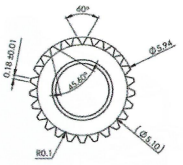
KST®

BLS815 || Brushless DC Motor || Dual Ball Bearing || Programmable









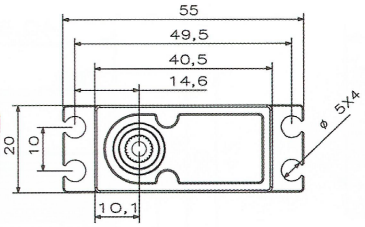
6mm25T
Output Shaft Spline

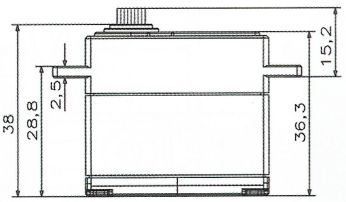
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	70g(±10%)
Torque	14.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	17.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	20.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

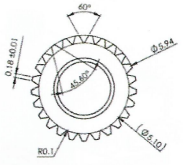
KST®

BLS825 || Brushless DC Motor || Dual Ball Bearing || Programmable







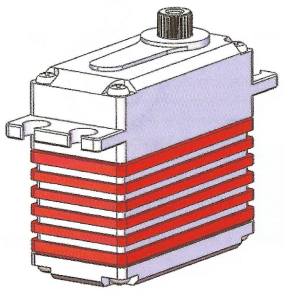


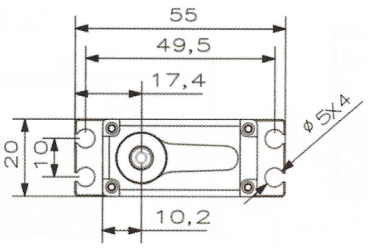
6mm25T
Output Shaft Spline

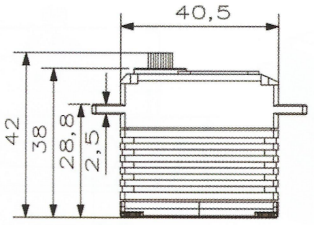
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	70g(±10%)
Torque	25.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	30.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	35.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.15sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

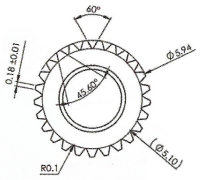
KST®

BLS905X || Brushless DC Motor || Dual Ball Bearing || Programmable







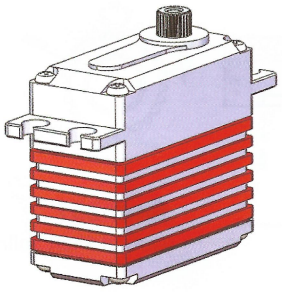


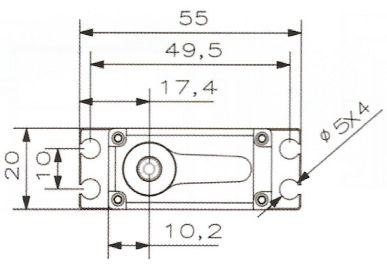
6mm25T
Output Shaft Spline

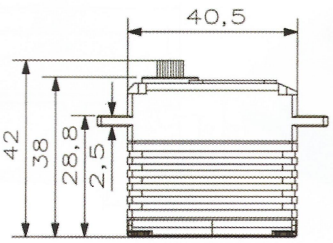
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	70g(±10%)
Torque	6.0Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	7.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	8.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.045sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.040sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.035sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB
		Programmable	Yes

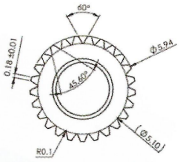
KST®

BLS915 || Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	70g(±10%)
Torque	18.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	22.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	25.0Kgf.cm@8.40V	**Motor Type**	Brushless DC Motor
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	2BB
Pulse Lengths	900us-2100us	**Programmable**	Yes

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CM Series Products Guide

Clubman Servo

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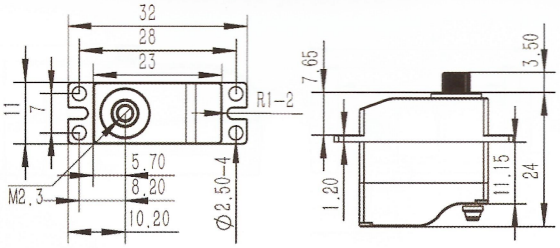
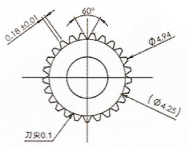
KST®

CM509MG || Coreless DC Motor || Dual Ball Bearing || Programmable





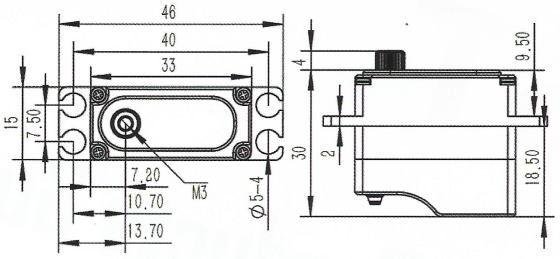


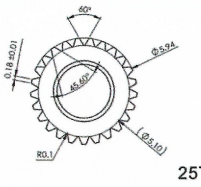
5mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	23mm*11mm*24mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	15g(±10%)
Torque	3.60Kgf.cm@4.80V	**Default Travel Angle**	±60° = 120° Total Travel
	4.80Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	5.50Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	6.00Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.13sec/60°@4.80V	**Start Current**	0.95A@4.80V
	0.11sec/60°@6.00V		1.15A@6.00V
	0.09sec/60°@7.40V		1.35A@7.40V
	0.08sec/60°@8.40V		1.60A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Metal Gear
Ball Bearing	2BB	**Position Sensor**	Potentiometer

CM633 || Coreless DC Motor || Dual Ball Bearing || Programmable





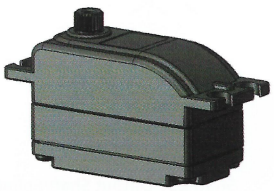


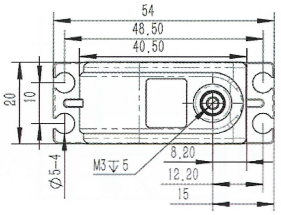
6mm 25T Output Shaft Spline

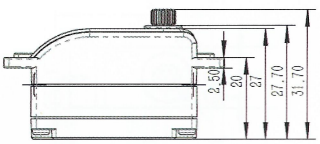
Rated Voltage	DC7.40V	**Case Dimensions**	33mm*15mm*30mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	35g(±10%)
Torque	9.00Kgf.cm@4.80V	**Default Travel Angle**	±60° = 120° Total Travel
	12.0Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	13.8Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	15.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.14sec/60°@4.80V	**Start Current**	1.85A@4.80V
	0.11sec/60°@6.00V		2.65A@6.00V
	0.09sec/60°@7.40V		2.95A@7.40V
	0.08sec/60°@8.40V		3.25A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Hardened Steel
Ball Bearing	2BB	**Position Sensor**	Potentiometer

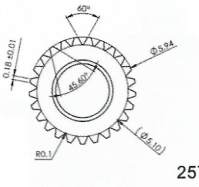
KST®

CM653MG || Coreless DC Motor || Dual Ball Bearing || Programmable









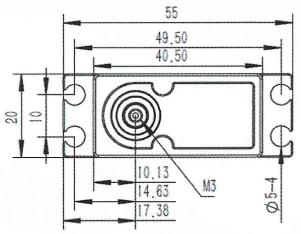
6mm 25T Output Shaft Spline

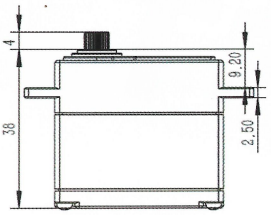
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*27.5mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	43g(±10%)
Torque	10.0Kgf.cm@4.80V	**Default Travel Angle**	±60° = 120° Total Travel
	12.0Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	15.0Kgf.cm@7.40V	**Case Material**	PA66
	18.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.12sec/60°@4.80V	**Start Current**	2.60A@4.80V
	0.10sec/60°@6.00V		3.20A@6.00V
	0.09sec/60°@7.40V		3.60A@7.40V
	0.08sec/60°@8.40V		4.05A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Metal Gear
Ball Bearing	2BB	**Position Sensor**	Potentiometer

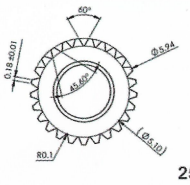
KST®

CM3510MG || Coreless DC Motor || Dual Ball Bearing || Programmable









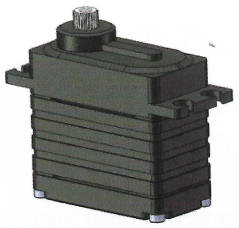
25T

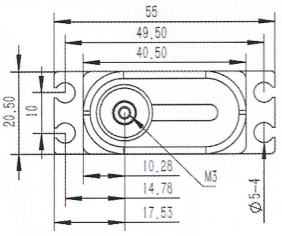
6mm 25T Output Shaft Spline

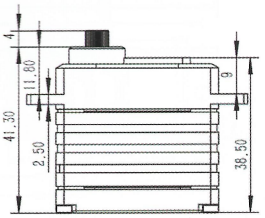
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	70g(±10%)
Torque	20.0Kgf.cm@4.80V	**Default Travel Angle**	±60°= 120° Total Travel
	25.0Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	30.0Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	35.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.20sec/60°@4.80V	**Start Current**	2.10A@4.80V
	0.15sec/60°@6.00V		2.90A@6.00V
	0.13sec/60°@7.40V		3.30A@7.40V
	0.10sec/60°@8.40V		3.65A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Hardened Steel
Ball Bearing	2BB	**Position Sensor**	Potentiometer

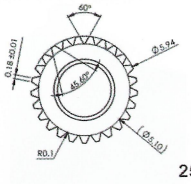
KST

CM5018WP || Coreless DC Motor || Dual Ball Bearing || Programmable









25T

6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20.5mm*41.3mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	80g(±10%)
Torque	35.0Kgf.cm@4.80V	**Default Travel Angle**	±60° = 120° Total Travel
	40.0Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	45.0Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	50.0Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.25sec/60°@4.80V	**Start Current**	4.68A@4.80V
	0.23sec/60°@6.00V		5.70A@6.00V
	0.20sec/60°@7.40V		7.25A@7.40V
	0.18sec/60°@8.40V		8.15A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Hardened Steel
Ball Bearing	2BB	**Position Sensor**	Potentiometer

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DS Series Products Guide

Digital Servo

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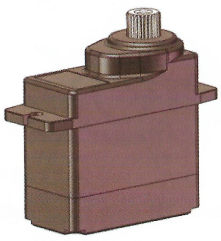
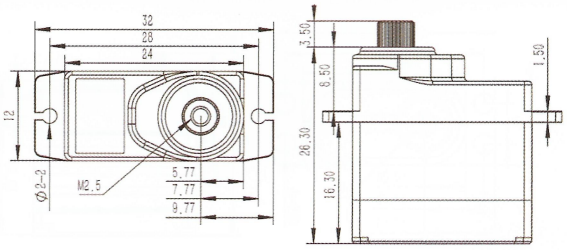
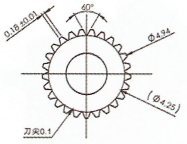
KST®

DS113MG || Core DC Motor || 1 Ball Bearing || Programmable







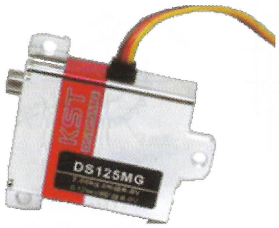
5mm25T Output Shaft Spline

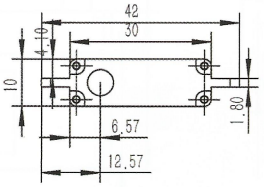
Rated Voltage	DC6.00V	**Case Dimensions**	24mm*12mm*26.3mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	12g(±10%)
Torque	2.00Kgf.cm@4.80V	**Default Travel Angle**	±60°= 120° Total Travel
	2.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	3.00Kgf.cm@7.40V	**Case Material**	PA66
	3.50Kgf.cm@8.40V	**Motor Type**	Core DC Motor
Speed	0.13sec/60°@4.80V	**Start Current**	1.00A@4.80V
	0.11sec/60°@6.00V		1.20A@6.00V
	0.10sec/60°@7.40V		1.40A@7.40V
	0.09sec/60°@8.40V		1.60A@8.40V
Pulse Lengths	900us-2100us	**Gear Set Material**	Metal Gear
Ball Bearing	1BB	**Position Sensor**	Potentiometer

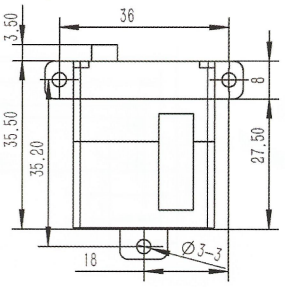
KST®

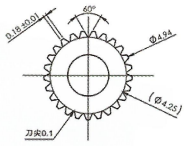
DS125 MG

Core DC Motor | Dual Ball Bearing | Programmable









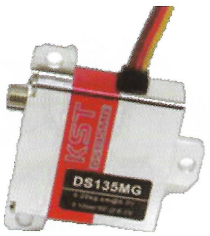
5mm25T
Output Shaft Spline

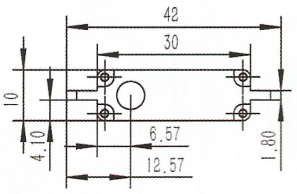
Rated Voltage	DC4.80V	**Case Dimensions**	30mm*10mm*35.5mm(±0.2mm)
Voltage Range	DC4.80V-6.00V	**Weight**	28g(±10%)
Torque	6.00Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	7.00Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
Speed	0.15sec/60°@4.80V	**Case Material**	Aluminum Alloy
	0.12sec/60°@6.00V	**Motor Type**	Core DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	800us-2200us	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

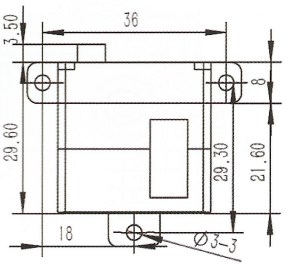
KST

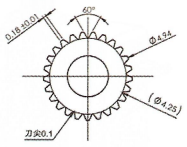
DS135 MG

Core DC Motor | Dual Ball Bearing | Programmable









5mm25T
Output Shaft Spline

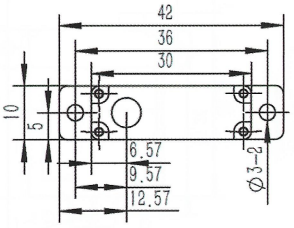
Rated Voltage	DC4.80V	**Case Dimensions**	30mm*10mm*29.6mm(±0.2mm)
Voltage Range	DC4.80V-6.00V	**Weight**	23g(±10%)
Torque	4.30Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	5.20Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
Speed	0.15sec/60°@4.80V	**Case Material**	Aluminum Alloy
	0.12sec/60°@6.00V	**Motor Type**	Core DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	800us-2200us	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

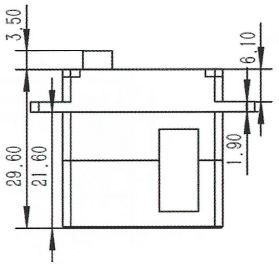
KST

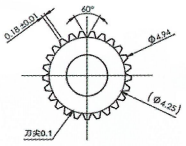
DS145 MG

Core DC Motor || Dual Ball Bearing || Programmable









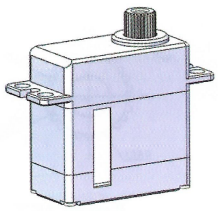
5mm25T
Output Shaft Spline

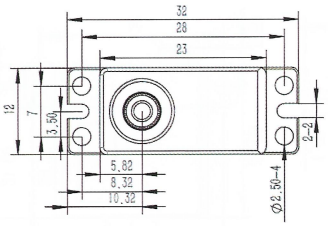
Rated Voltage	DC4.80V	**Case Dimensions**	30mm*10mm*29.6mm(±0.2mm)
Voltage Range	DC4.80V-6.00V	**Weight**	23g(±10%)
Torque	4.30Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	5.20Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
Speed	0.15sec/60°@4.80V	**Case Material**	Aluminum Alloy
	0.12sec/60°@6.00V	**Motor Type**	Core DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	800us-2200us	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

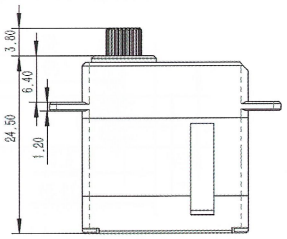
KST

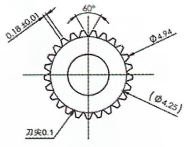
DS213MG

Coreless DC Motor || Dual Ball Bearing || Programmable









5mm25T
Output Shaft Spline

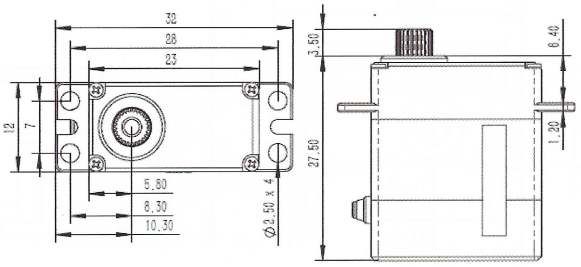
Rated Voltage	DC6.0V	**Case Dimensions**	23mm*12mm*24.5mm(±0.2mm)
Voltage Range	DC4.80V-7.40V	**Weight**	16g(±10%)
Torque	2.50Kgf.cm@4.80V	**Default Travel Angle**	±70°=140° Total Travel
	3.00Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	3.50Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@4.80V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@6.00V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@7.40V	**Position Sensor**	Potentiometer
Pulse Lengths	800us-2200us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

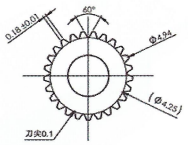
KST

DS215MG

Coreless DC Motor | Dual Ball Bearing | Programmable







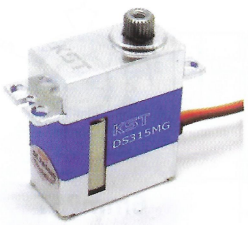
5mm25T
Output Shaft Spline

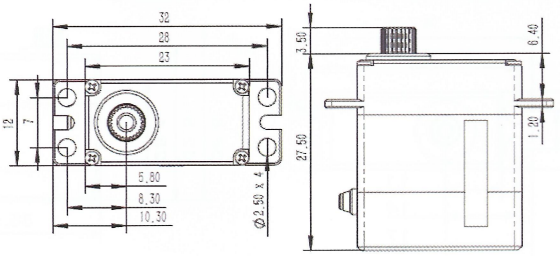
Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	3.10Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	3.70Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	4.00Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.060sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.055sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.050sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	800us-2200us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

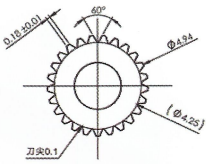
KST

DS315MG

Coreless DC Motor | Dual Ball Bearing | Programmable





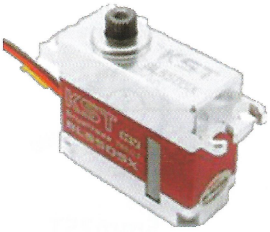


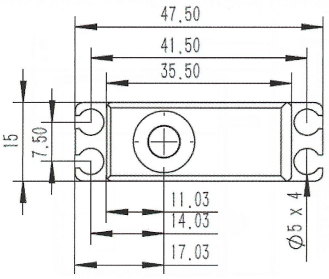
5mm25T
Output Shaft Spline

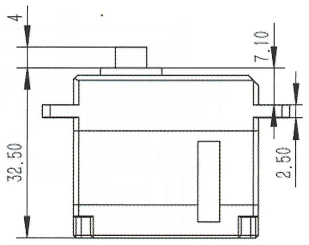
Rated Voltage	DC6.00V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	20g(±10%)
Torque	2.80Kgf.cm@4.80V	**Working Frequency**	1520us/333Hz
	3.50Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	4.30Kgf.cm@7.40V	**Pulse Lengths**	800us-2200us
	4.80Kgf.cm@8.40V	**Temperature Range**	-10℃.....+65℃
Speed	0.10sec/60°@4.80V	**Case Material**	Aluminum Alloy
	0.09sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

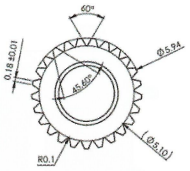
DS565X

Coreless DC Motor || Dual Ball Bearing || Programmable









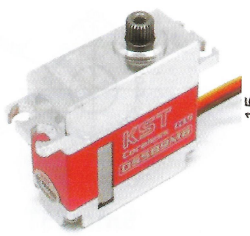
6mm25T
Output Shaft Spline

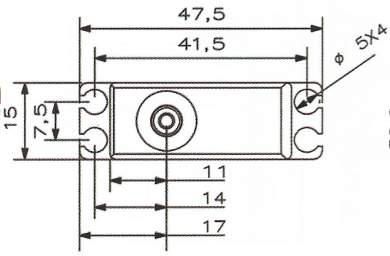
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	4.00Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	5.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	6.00Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.060sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.050sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.040sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

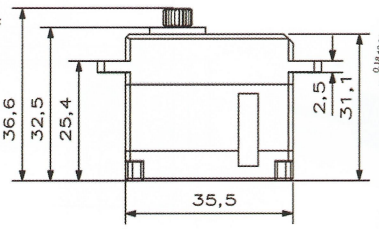
KST

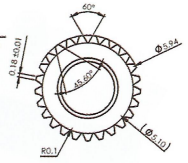
DS589MG

Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	6.50Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	8.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	9.20Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.09sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.08sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

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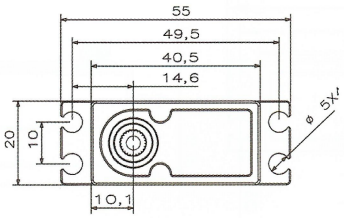
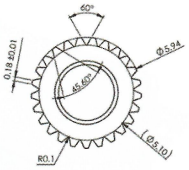
DS525MG

Coreless DC Motor || Dual Ball Bearing || Programmable







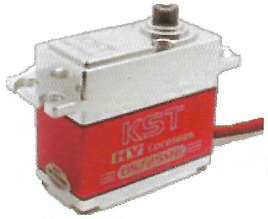
6mm25T
Output Shaft Spline

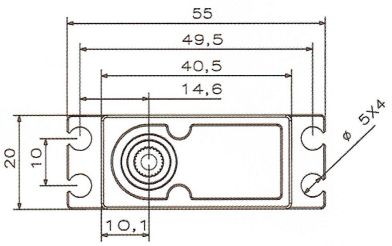
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	5.50Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	6.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	7.50Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.050sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.045sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.040sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

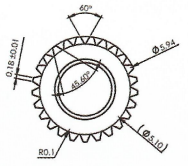
KST

DS725MG

Coreless DC Motor || Dual Ball Bearing || Programmable





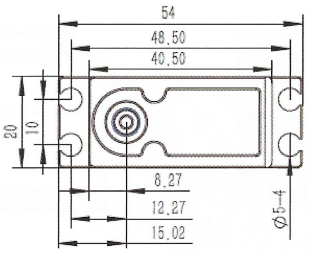


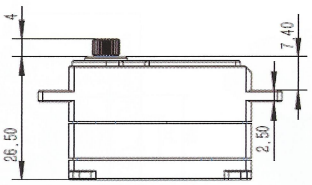
6mm25T
Output Shaft Spline

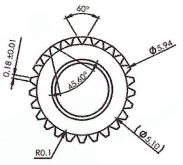
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	13.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	16.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	18.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

DS1509MG || Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*26.5mm(±0.2mm)
Voltage Range	DC4.80V-7.40V	**Weight**	55g(±10%)
Torque	8.50Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	10.7Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	12.8Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@4.80V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@6.00V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@7.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

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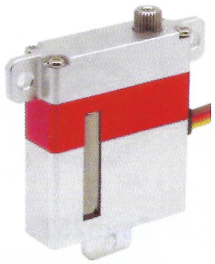
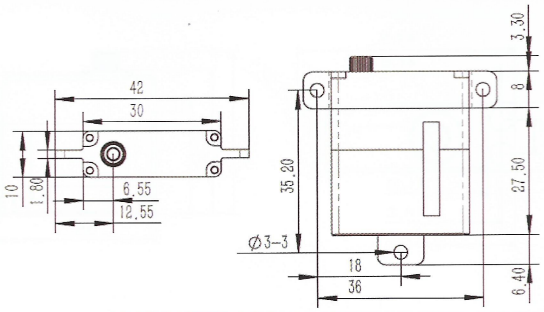
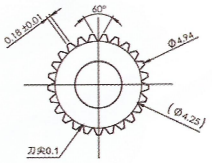
FZ10 || Coreless DC Motor || Dual Ball Bearing || Programmable







5mm25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*35.5mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	28g(±10%)
Torque	6.20Kgf.cm@4.80V	**Working Frequency**	1520us/333Hz
	7.50Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	9.50Kgf.cm@7.40V	**Pulse Lengths**	800us-2200us
	10.8Kgf.cm@8.40V	**Temperature Range**	-10℃.....+65℃
Speed	0.16sec/60°@4.80V	**Case Material**	Aluminum Alloy
	0.14sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@8.40V	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

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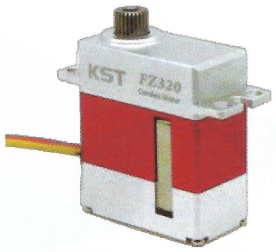
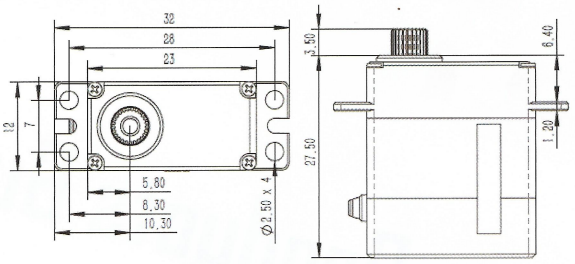
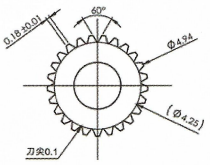
FZ320 || Coreless DC Motor || Dual Ball Bearing || Programmable







5mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	4.50Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total Travel
	5.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
Speed	0.10sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.09sec/60°@7.40V	**Motor Type**	Coreless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	500us-2500us	**Position Sensor**	Potentiometer
		Ball Bearing	2BB

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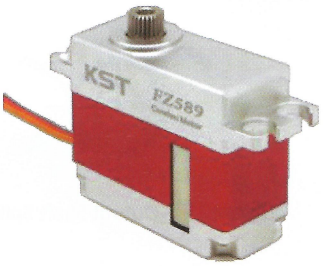
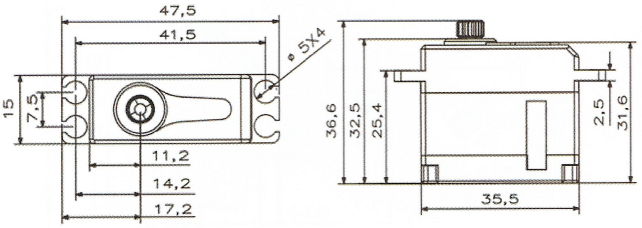
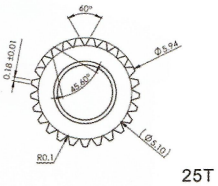
FZ589 || Coreless DC Motor || Dual Ball Bearing || Programmable







6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	6.00Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	7.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	8.00Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.12sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.11sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	800us-2200us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

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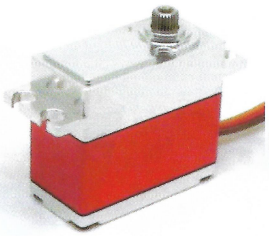
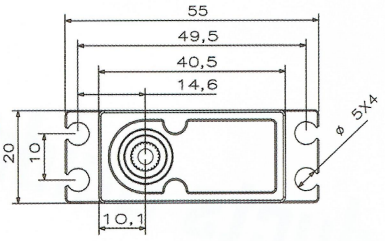
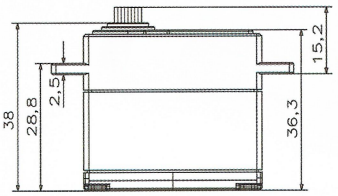
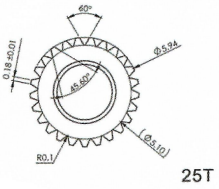
FZ825

Coreless DC Motor | Dual Ball Bearing | Programmable









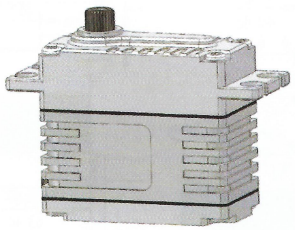
6mm25T
Output Shaft Spline

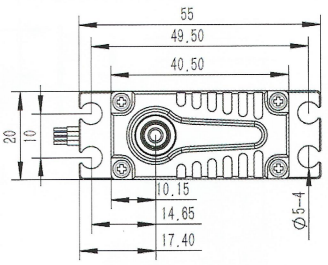
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	20.0Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	25.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	30.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.14sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.12sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	800us-2200us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

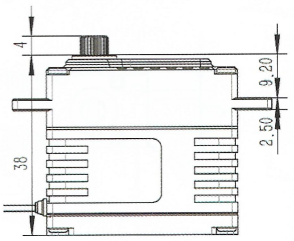
KST

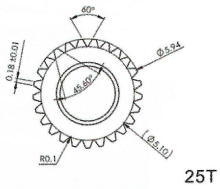
FZ835

Coreless DC Motor | Dual Ball Bearing | Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	36.0Kgf.cm@6.00V	**Default Travel Angle**	±70°=140° Total Travel
	45.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	50.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.18sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.16sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.15sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	800us-2200us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

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HLS Series Products Guide

High Life Span Servo（HLS Gear Box）

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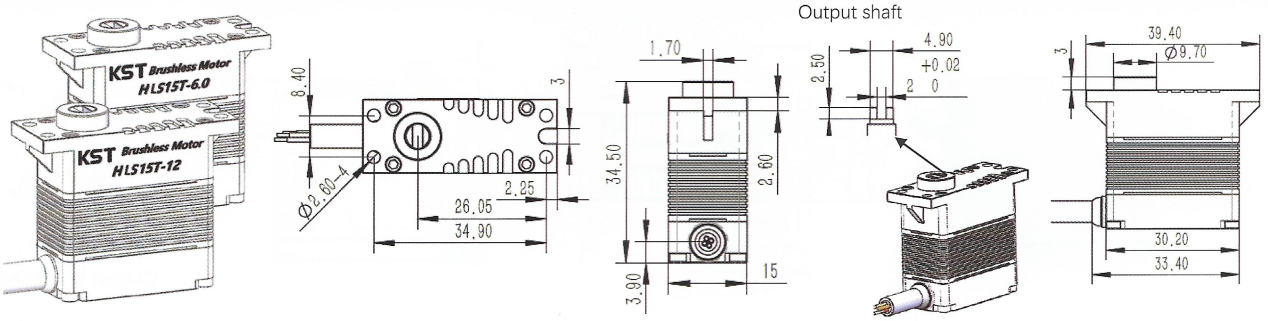
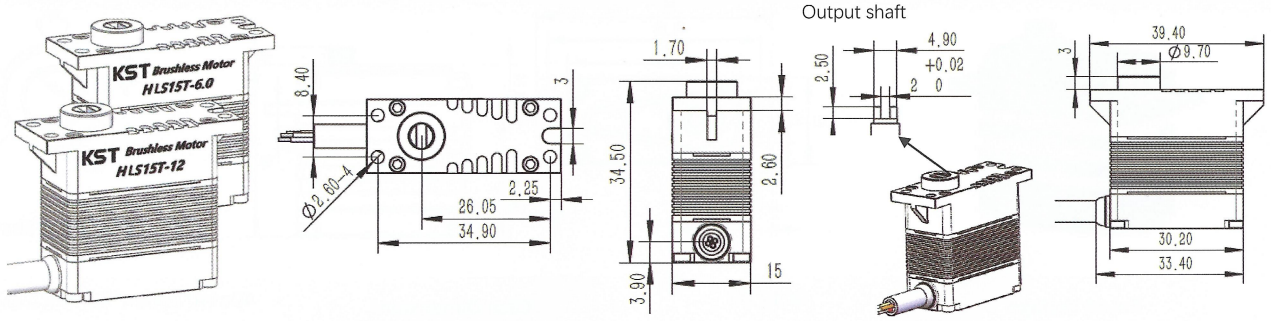
HLS15T-6.0 || Brushless DC Motor || 6 Ball Bearing || Programmable



Rated Voltage	DC6.0V	**Case Dimensions**	30mm*15mm*38mm(±0.2mm)
Voltage Range	DC6.0V-9.0V	**Weight**	40g(±10%)
Stalling Torque	6.00Kgf.cm@6.0V	**Default Travel Angle**	±45°= 90° total travel
Rated Torque	1.60Kgf.cm@6.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.60A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.55A	**Motor Type**	Brushless DC Motor
No-load Speed	0.20sec/60°@6.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.25sec/60°@6.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	1000us-2000us	**Ball Bearing**	6BB

HLS15T-12 || Brushless DC Motor || 6 Ball Bearing || Programmable



Rated Voltage	DC12V	**Case Dimensions**	30mm*15mm*38mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	40g(±10%)
Stalling Torque	10.0Kgf.cm@12.0V	**Default Travel Angle**	±45°= 90° total travel
Rated Torque	2.50Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.00A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.30A	**Motor Type**	Brushless DC Motor
No-load Speed	0.13sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.19sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	1000us-2000us	**Ball Bearing**	6BB

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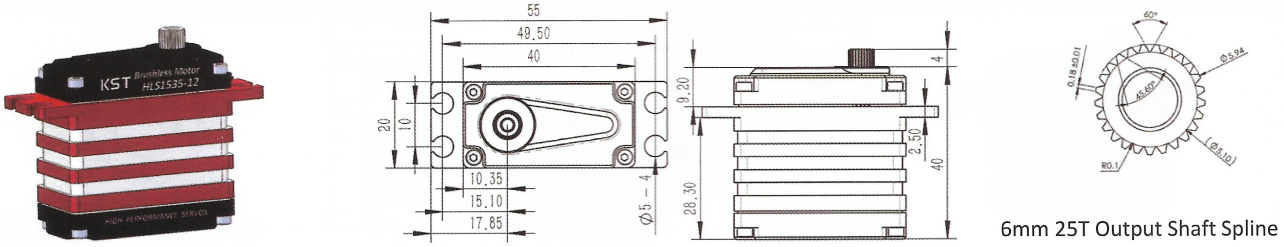
HLS1535-12 || Brushless DC Motor || 6 Ball Bearing || Programmable



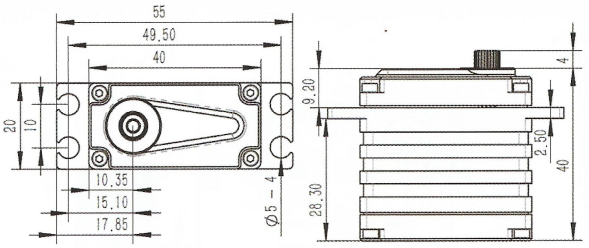
6mm 25T Output Shaft Spline

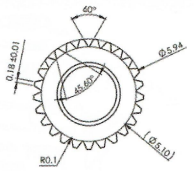
Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC8.0V-13.0V	**Weight**	72g(±10%)
Torque	12.0Kgf.cm@8.40V	**Working Frequency**	760us/560Hz
	15.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	16.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy 7075
Speed	0.050sec/60°@8.4V	**Motor Type**	Brushless DC Motor
	0.035sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.030sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	6BB

KST

HLS3008-12 || Brushless DC Motor || 6 Ball Bearing || Programmable







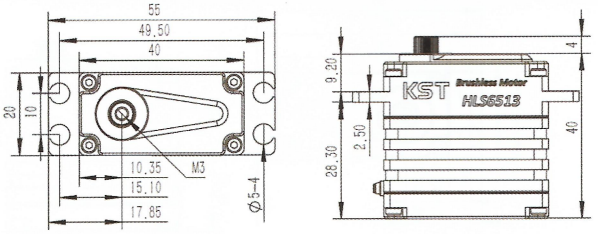
6mm 25T Output Shaft Spline

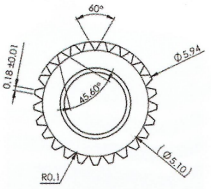
Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC8.0V-13.0V	**Weight**	72g(±10%)
Torque	25.0Kgf.cm@8.40V	**Working Frequency**	760us/560Hz
	30.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	32.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy 7075
Speed	0.11sec/60°@8.4V	**Motor Type**	Brushless DC Motor
	0.08sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	6BB

KST®

HLS6513 || 4 Pole Brushless DC Motor || 6 Ball Bearing || Programmable





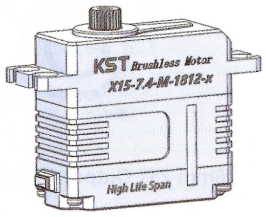


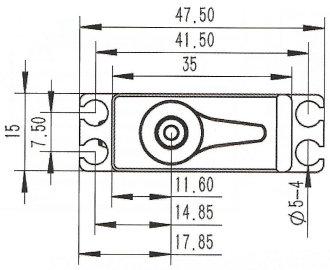
6mm 25T Output Shaft Spline

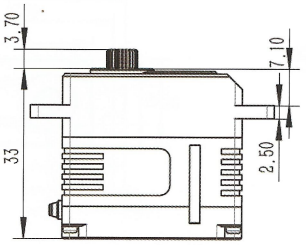
Rated Voltage	DC7.40V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	72g(±10%)
Torque	55.0Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total Travel
	65.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	70.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy 7075
Speed	0.16sec/60°@6.00V	**Motor Type**	4 Pole Brushless DC Motor
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

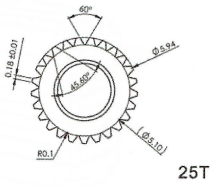
KST®

X15-7.4-M-1812 || Brushless DC Motor || Dual Ball Bearing || Programmable







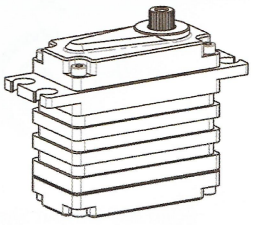


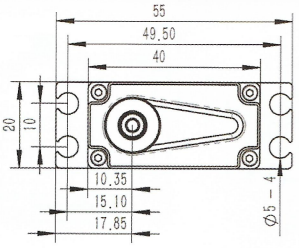
6mm25T Output Shaft Spline

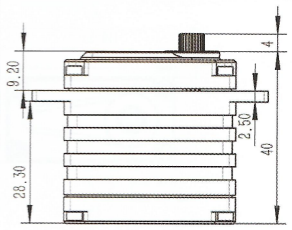
Rated Voltage	DC7.40V	Case Dimensions	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	42g(±10%)
Stalling Torque	18.0Kgf.cm@7.40V	Default Travel Angle	±100°=200° total travel
Rated Torque	5.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
Stalling Current	2.85A	Case Material	Aluminum Alloy
Rated Current	0.92A	Motor Type	Brushless DC Motor
No-load Speed	0.12sec/60°@7.40V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.18sec/60°@7.40V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

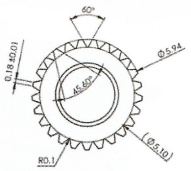
KST®

X20-1035 V3.0 || Brushless DC Motor || 6 Ball Bearing || Programmable







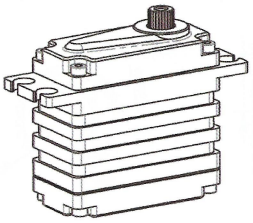


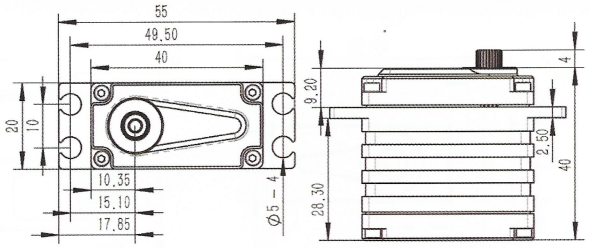
6mm 25T Output Shaft Spline

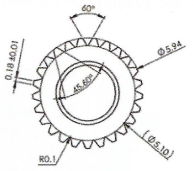
Rated Voltage	DC7.40V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	75g(±10%)
Torque	9.0Kgf.cm@6.00V	Working Frequency	760us/560Hz
	10.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
	12.0Kgf.cm@8.40V	Case Material	Aluminum Alloy 7075
Speed	0.040sec/60°@6.00V	Motor Type	Brushless DC Motor
	0.035sec/60°@7.40V	Gear Set Material	Hardened Steel
	0.030sec/60°@8.40V	Position Sensor	Potentiometer
Pulse Lengths	450us-1050us	Ball Bearing	6BB

KST®

X20-2208 V8.0 || Brushless DC Motor || 6 Ball Bearing || Programmable







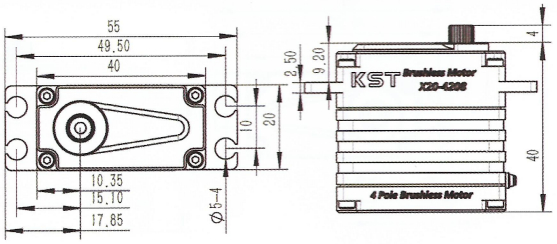
6mm 25T Output Shaft Spline

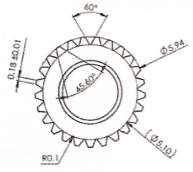
Rated Voltage	DC7.40V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	75g(±10%)
Torque	18.0Kgf.cm@6.00V	Default Travel Angle	± 60°=120° Total Travel
	22.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
	25.0Kgf.cm@8.40V	Case Material	Aluminum Alloy 7075
Speed	0.09sec/60°@6.00V	Motor Type	Brushless DC Motor
	0.08sec/60°@7.40V	Gear Set Material	Hardened Steel
	0.07sec/60°@8.40V	Position Sensor	Potentiometer
Pulse Lengths	900us-2100us	Ball Bearing	6BB

KST®

X20-4208 || 4 pole Brushless DC Motor || 6 Ball Bearing || Programmable







6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	75g(±10%)
Torque	38.0Kgf.cm@6.00V	Default Travel Angle	± 100°=200° Total Travel
	42.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
	46.0Kgf.cm@8.40V	Case Material	Aluminum Alloy 7075
Speed	0.10sec/60°@6.00V	Motor Type	4 pole Brushless DC Motor
	0.08sec/60°@7.40V	Gear Set Material	Hardened Steel
	0.07sec/60°@8.40V	Position Sensor	Potentiometer
Pulse Lengths	500us-2500us	Ball Bearing	6BB

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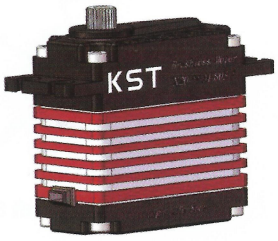
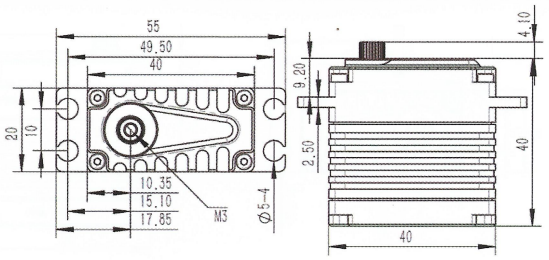
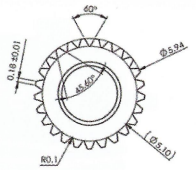
X20-7.4-M-805 || Brushless DC Motor || 6 Ball Bearing || Programmable







6mm 25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	75g(±10%)
Torque	9.0Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	11.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	12.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy 7075
Speed	0.040sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.035sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.030sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	450us-1050us	**Ball Bearing**	6BB

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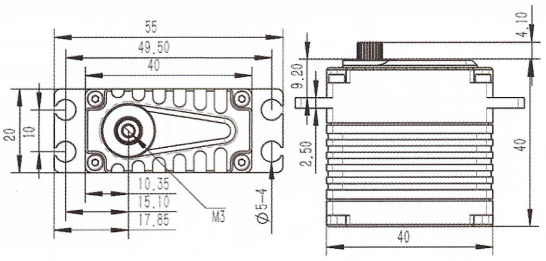
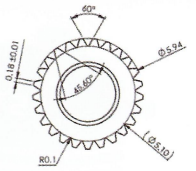
X20-12-M-805 || Brushless DC Motor || 6 Ball Bearing || Programmable



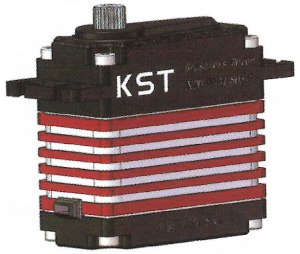


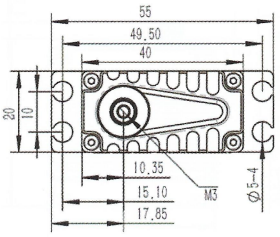


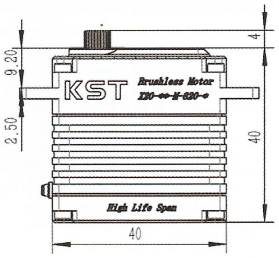
6mm 25T Output Shaft Spline

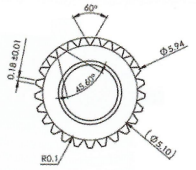
Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	75g(±10%)
Torque	14.0Kgf.cm@9.00V	**Default Travel Angle**	±60°=120° Total Travel
	16.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	18.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy 7075
Speed	0.050sec/60°@9.00V	**Motor Type**	Brushless DC Motor
	0.040sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.035sec/60°@13.0V	**Position Sensor**	Contactless
Pulse Lengths	900us-2100us	**Ball Bearing**	6BB

X20-7.4-M-820 || Brushless DC Motor || 6 Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.4V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	75g(±10%)
Stalling Torque	30.0Kgf.cm@7.40V	Default Travel Angle	±100°= 200° total travel
Rated Torque	7.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
Stalling Current	4.95A	Case Material	Aluminum Alloy 7075
Rated Current	1.25A	Motor Type	Brushless DC Motor
No-load Speed	0.09sec/60°@7.40V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.17sec/60°@7.40V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

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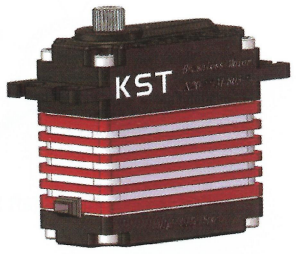
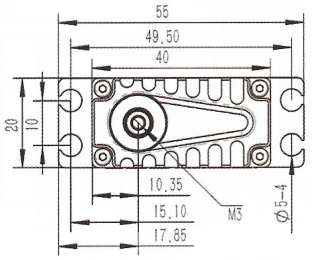
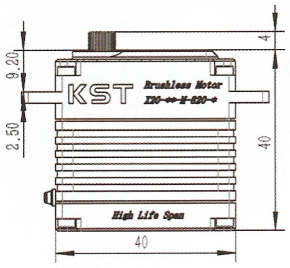
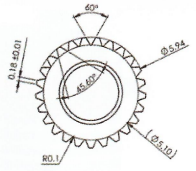
X20-12-M-820 || Brushless DC Motor || 6 Ball Bearing || Programmable





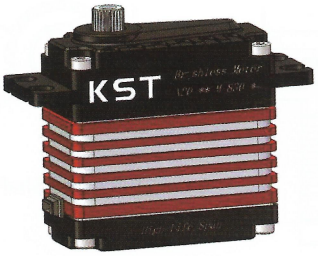


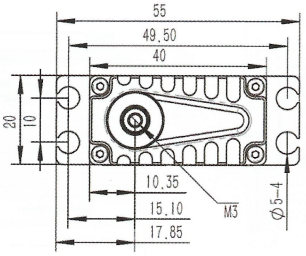


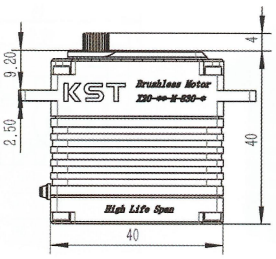
6mm 25T Output Shaft Spline

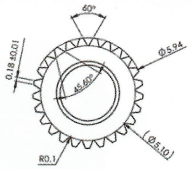
Rated Voltage	DC12V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	Weight	75g(±10%)
Stalling Torque	35.0Kgf.cm@12.0V	Default Travel Angle	±100°= 200° total travel
Rated Torque	9.0Kgf.cm@12.0V	Temperature Range	-10℃.....+65℃
Stalling Current	3.25A	Case Material	Aluminum Alloy 7075
Rated Current	0.85A	Motor Type	Brushless DC Motor
No-load Speed	0.09sec/60°@12.0V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.14sec/60°@12.0V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

X20-7.4-M-830 || Brushless DC Motor || 6 Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.4V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	75g(±10%)
Stalling Torque	38.0Kgf.cm@7.40V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	9.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
Stalling Current	4.95A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.25A	**Motor Type**	Brushless DC Motor
No-load Speed	0.13sec/60°@7.40V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.22sec/60°@7.40V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

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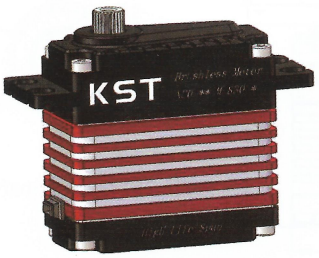
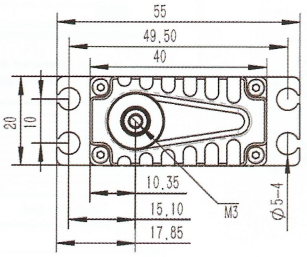
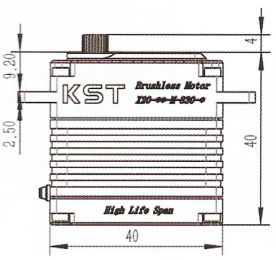
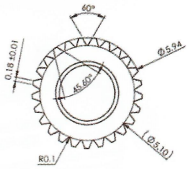
X20-12-M-830 || Brushless DC Motor || 6 Ball Bearing || Programmable







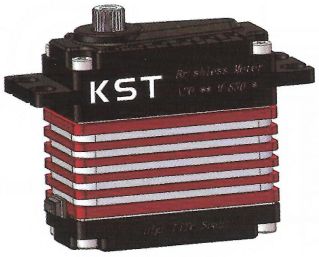


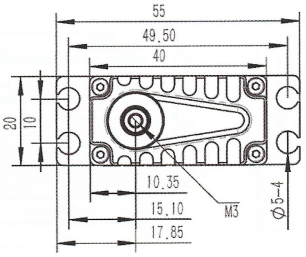
6mm 25T Output Shaft Spline

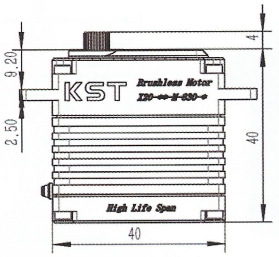
Rated Voltage	DC12V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	75g(±10%)
Stalling Torque	45.0Kgf.cm@12.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	11.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
Stalling Current	3.25A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.85A	**Motor Type**	Brushless DC Motor
No-load Speed	0.13sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.23sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

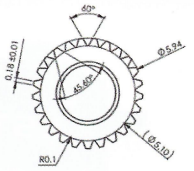
KST®

X20-24-M-830 || Brushless DC Motor || 6 Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC24V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC20.0V-28.0V	Weight	75g(±10%)
Stalling Torque	60.0Kgf.cm@24.0V	Default Travel Angle	±100°= 200° total travel
Rated Torque	20.0Kgf.cm@24.0V	Temperature Range	-10℃.....+65℃
Stalling Current	5.25A	Case Material	Aluminum Alloy 7075
Rated Current	1.25A	Motor Type	Brushless DC Motor
No-load Speed	0.12sec/60°@24.0V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.20sec/60°@24.0V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

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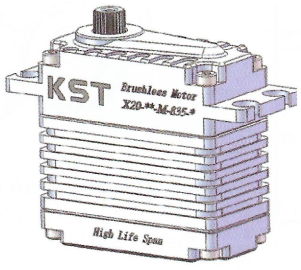
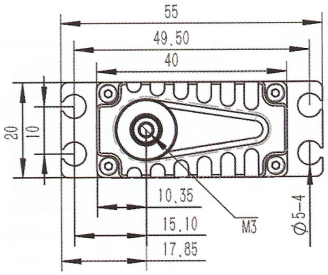
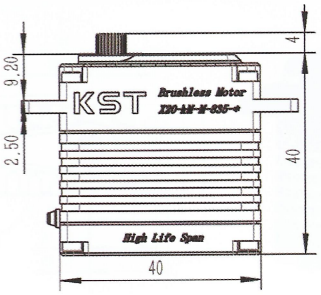
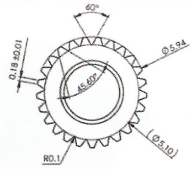
X20-7.4-M-835 || Brushless DC Motor || 6 Ball Bearing || Programmable









6mm 25T Output Shaft Spline

Rated Voltage	DC7.4V	Case Dimensions	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	75g(±10%)
Stalling Torque	40.0Kgf.cm@7.40V	Default Travel Angle	±100°= 200° total travel
Rated Torque	10.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
Stalling Current	4.95A	Case Material	Aluminum Alloy 7075
Rated Current	1.25A	Motor Type	Brushless DC Motor
No-load Speed	0.13sec/60°@7.40V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.24sec/60°@7.40V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

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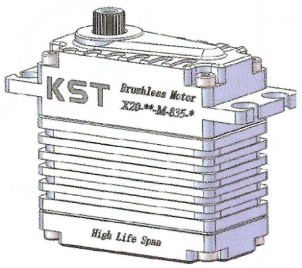
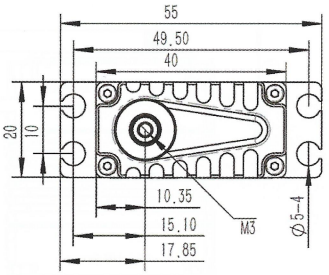
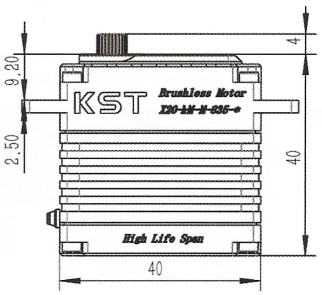
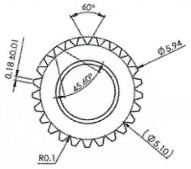
X20-12-M-835 || Brushless DC Motor || 6 Ball Bearing || Programmable







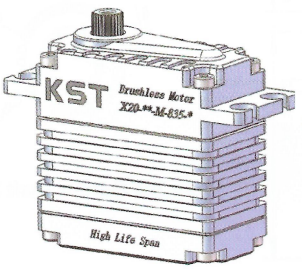


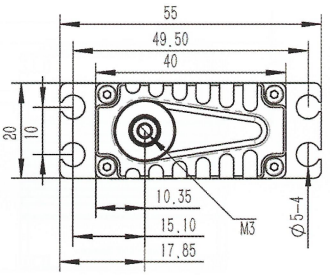
6mm 25T Output Shaft Spline

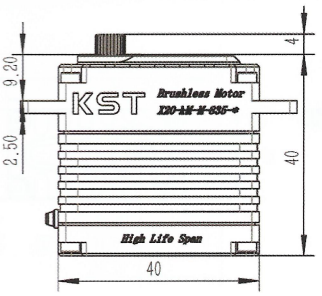
Rated Voltage	DC12V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	75g(±10%)
Stalling Torque	48.0Kgf.cm@12.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	12.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
Stalling Current	3.25A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.85A	**Motor Type**	Brushless DC Motor
No-load Speed	0.14sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.25sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

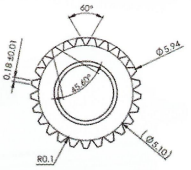
KST®

X20-24-M-835 || Brushless DC Motor || 6 Ball Bearing || Programmable







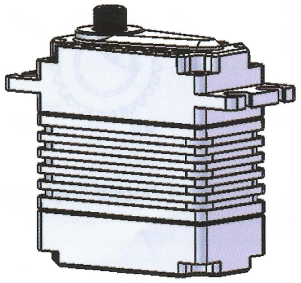


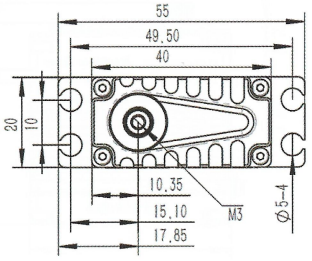
6mm 25T Output Shaft Spline

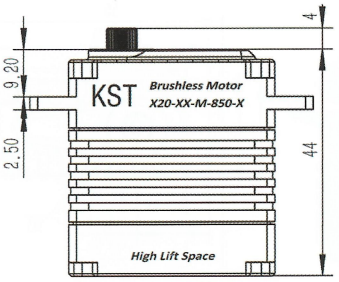
Rated Voltage	DC24V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC20.0V-28.0V	**Weight**	75g(±10%)
Stalling Torque	85.0Kgf.cm@24.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	30.0Kgf.cm@24.0V	**Temperature Range**	-10℃.....+65℃
Stalling Current	5.25A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.30A	**Motor Type**	Brushless DC Motor
No-load Speed	0.12sec/60°@24.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.20sec/60°@24.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

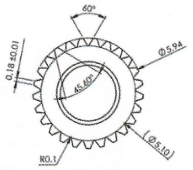
KST®

X20-7.4-M-850 || Brushless DC Motor || 6 Ball Bearing || Programmable







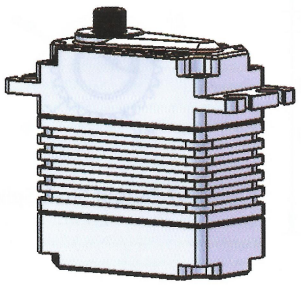


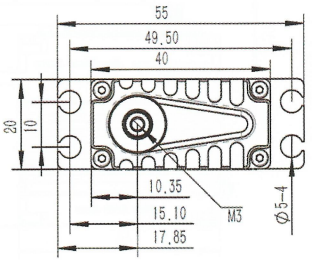
6mm 25T Output Shaft Spline

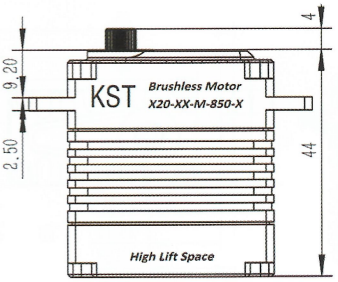
Rated Voltage	DC7.4V	Case Dimensions	40mm*20mm*44mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	Weight	86g(±10%)
Stalling Torque	55.0Kgf.cm@7.40V	Default Travel Angle	±100°= 200° total travel
Rated Torque	15.0Kgf.cm@7.40V	Temperature Range	-10℃.....+65℃
Stalling Current	7.50A	Case Material	Aluminum Alloy 7075
Rated Current	1.75A	Motor Type	Brushless DC Motor
No-load Speed	0.14sec/60°@7.40V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.23sec/60°@7.40V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

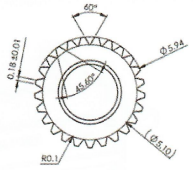
KST

X20-12-M-850 || Brushless DC Motor || 6 Ball Bearing || Programmable







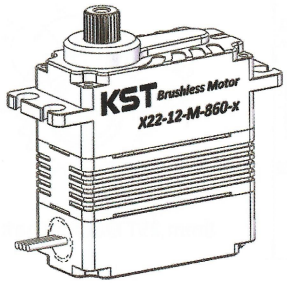


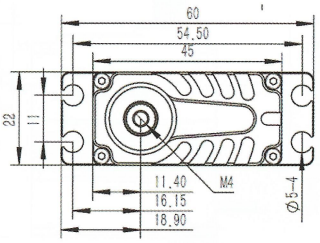
6mm 25T Output Shaft Spline

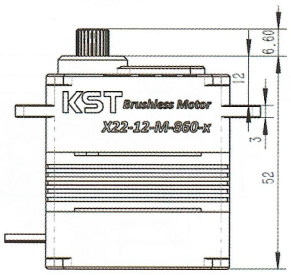
Rated Voltage	DC12V	Case Dimensions	40mm*20mm*44mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	Weight	86g(±10%)
Stalling Torque	65.0Kgf.cm@12.0V	Default Travel Angle	±100°= 200° total travel
Rated Torque	20.0Kgf.cm@12.0V	Temperature Range	-10℃.....+65℃
Stalling Current	5.00A	Case Material	Aluminum Alloy 7075
Rated Current	1.30A	Motor Type	Brushless DC Motor
No-load Speed	0.14sec/60°@12.0V@25℃	Gear Set Material	Hardened Steel
Rated Speed	0.23sec/60°@12.0V@25℃	Position Sensor	Contactless
Pulse Lengths	500us-2500us	Ball Bearing	6BB

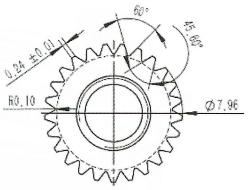
KST

X22-7.4-M-860 || Brushless DC Motor || 6 Ball Bearing || Programmable







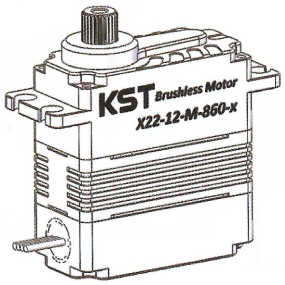


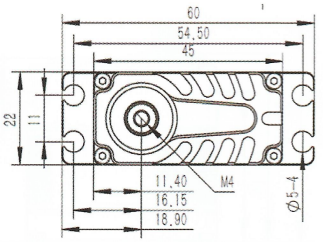
8mm 25T Output Shaft Spline

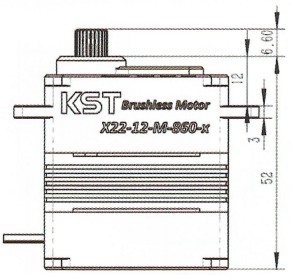
Rated Voltage	DC7.4V	**Case Dimensions**	45mm*22mm*52mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	128g(±10%)
Stalling Torque	70.0Kgf.cm@7.40V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	22.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
Stalling Current	7.50A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.98A	**Motor Type**	Brushless DC Motor
No-load Speed	0.15sec/60°@7.40V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.21sec/60°@7.40V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

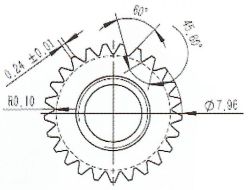
KST

X22-12-M-860 || Brushless DC Motor || 6 Ball Bearing || Programmable





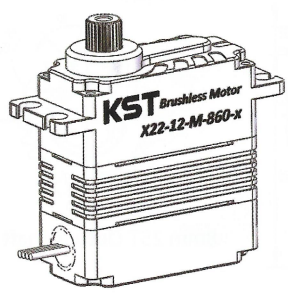


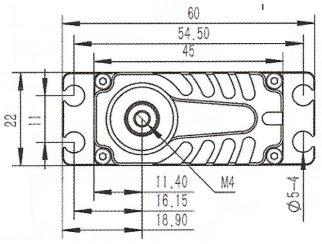


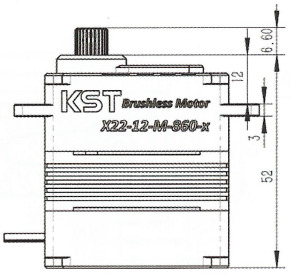
8mm 25T Output Shaft Spline

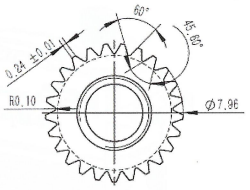
Rated Voltage	DC12V	**Case Dimensions**	45mm*22mm*52mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	128g(±10%)
Stalling Torque	75.0Kgf.cm@12.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	25.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
Stalling Current	6.00A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.68A	**Motor Type**	Brushless DC Motor
No-load Speed	0.14sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.20sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

X22-24-M-860 || Brushless DC Motor || 6 Ball Bearing || Programmable







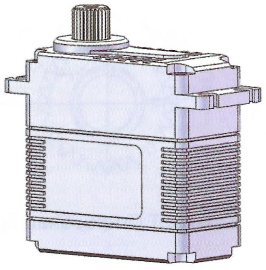


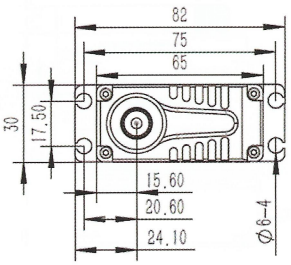
8mm 25T Output Shaft Spline

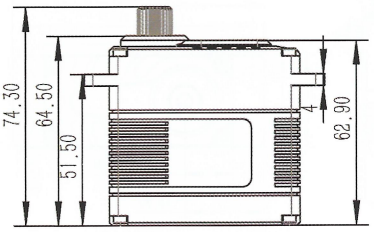
Rated Voltage	DC24V	**Case Dimensions**	45mm*22mm*52mm(±0.2mm)
Voltage Range	DC22.0V-28.0V	**Weight**	128g(±10%)
Stalling Torque	86.0Kgf.cm@24.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	28.0Kgf.cm@24.0V	**Temperature Range**	-10℃.....+65℃
Stalling Current	4.80A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.08A	**Motor Type**	Brushless DC Motor
No-load Speed	0.15sec/60°@24.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.20sec/60°@24.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

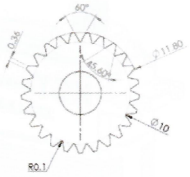
KST®

X25-8.4-65 || Brushless DC Motor || 7 Ball Bearing || Programmable







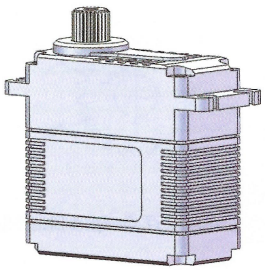


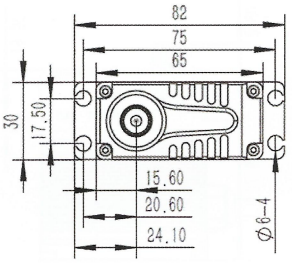
12mm 25T Output Shaft Spline

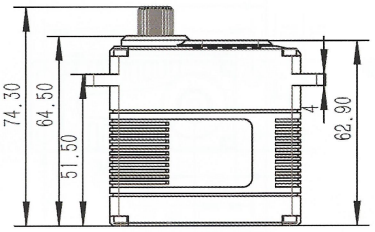
Rated Voltage	DC8.40V	**Case Dimensions**	65mm*30mm*64.5mm(±0.2mm)
Voltage Range	DC6.0V-8.40V	**Weight**	280g(±10%)
Torque	60.0Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	70.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	78.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy 7075
Speed	0.24sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.20sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.18sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	7BB

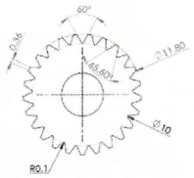
KST®

X25-12-65 || Brushless DC Motor || 7 Ball Bearing || Programmable







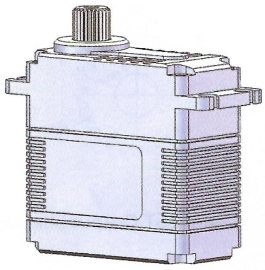


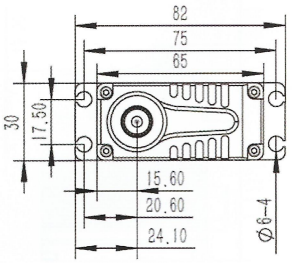
12mm 25T Output Shaft Spline

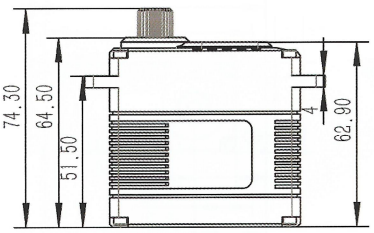
Rated Voltage	DC12.0V	**Case Dimensions**	65mm*30mm*64.5mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	280g(±10%)
Torque	70.0Kgf.cm@9.00V	**Default Travel Angle**	±60°=120° Total Travel
	85.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	90.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy 7075
Speed	0.32sec/60°@9.00V	**Motor Type**	Brushless DC Motor
	0.24sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.23sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	7BB

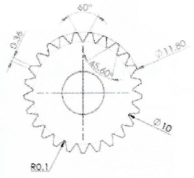
KST®

X25-28-65 || Brushless DC Motor || 7 Ball Bearing || Programmable





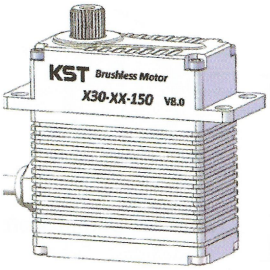


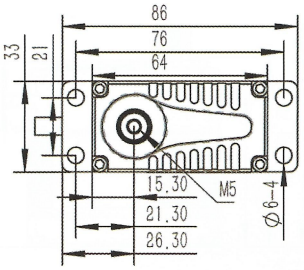


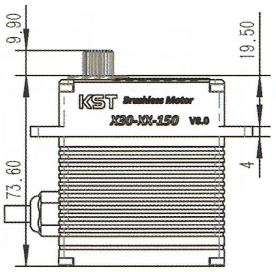
12mm 25T Output Shaft Spline

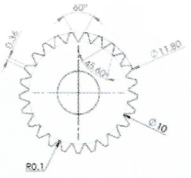
Rated Voltage	DC28.0V	**Case Dimensions**	65mm*30mm*64.5mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	280g(±10%)
Torque	80.0Kgf.cm@24.00V	**Default Travel Angle**	±60°=120° Total Travel
	95.0Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
	100.0Kgf.cm@32.0V	**Case Material**	Aluminum Alloy 7075
Speed	0.30sec/60°@24.00V	**Motor Type**	Brushless DC Motor
	0.25sec/60°@28.0V	**Gear Set Material**	Hardened Steel
	0.23sec/60°@32.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	7BB

X30-12-150 || Brushless DC Motor || 6 Ball Bearing || Programmable







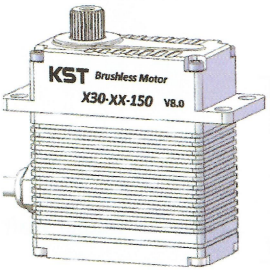


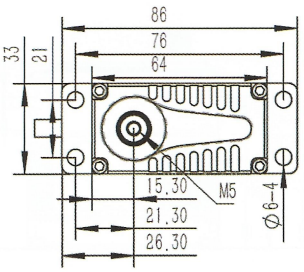
12mm 25T Output Shaft Spline

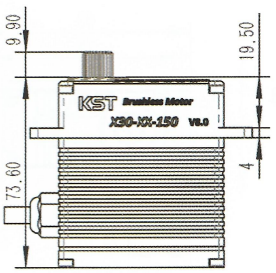
Rated Voltage	DC12V	**Case Dimensions**	64mm*33mm*74mm(±0.2mm)
Voltage Range	DC8.40V-12.0V	**Weight**	360g(±10%)
Stalling Torque	105Kgf.cm@8.40V	**Default Travel Angle**	±60°= 120° total travel
	150Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.25sec/60°@8.40V@25℃	**Case Material**	Aluminum Alloy
	0.17sec/60°@12.0V@25℃	**Motor Type**	Brushless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
		Ball Bearing	6BB

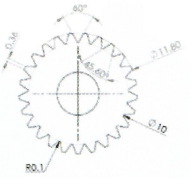
KST

X30-15-150 || Brushless DC Motor || 6 Ball Bearing || Programmable





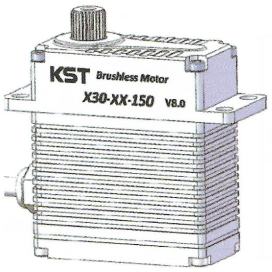


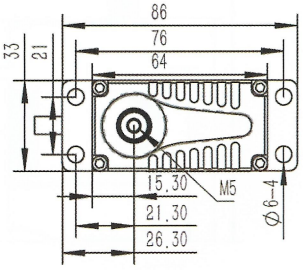


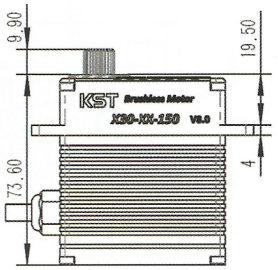
12mm 25T Output Shaft Spline

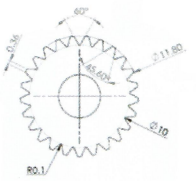
Rated Voltage	DC15V	**Case Dimensions**	64mm*33mm*74mm(±0.2mm)
Voltage Range	DC14.0V-16.0V	**Weight**	360g(±10%)
Stalling Torque	160Kgf.cm@14.0V	**Default Travel Angle**	±60°= 120° total travel
	180Kgf.cm@15.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.18sec/60°@14.0V@25℃	**Case Material**	Aluminum Alloy
	0.15sec/60°@15.0V@25℃	**Motor Type**	Brushless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
		Ball Bearing	6BB

X30-28-150 || Brushless DC Motor || 6 Ball Bearing || Programmable









12mm 25T Output Shaft Spline

Rated Voltage	DC28.0V	**Case Dimensions**	64mm*33mm*74mm(±0.2mm)
Voltage Range	DC24.0V-30.0V	**Weight**	360g(±10%)
Stalling Torque	150Kgf.cm@24.0V	**Default Travel Angle**	±60°= 120° total travel
	165Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.20sec/60°@24.0V@25℃	**Case Material**	Aluminum Alloy
	0.18sec/60°@28.0V@25℃	**Motor Type**	Brushless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
		Ball Bearing	6BB

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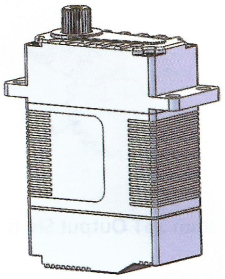
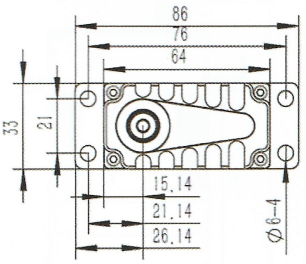
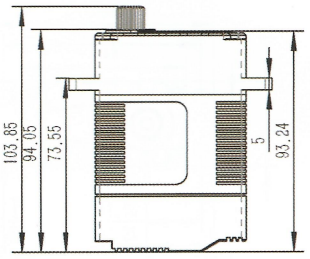
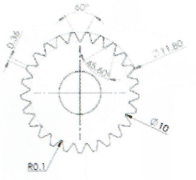
X30-12-165 || Brushless DC Motor || 7 Ball Bearing || Programmable





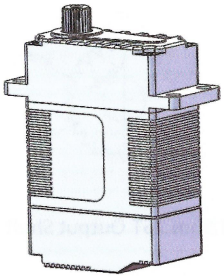


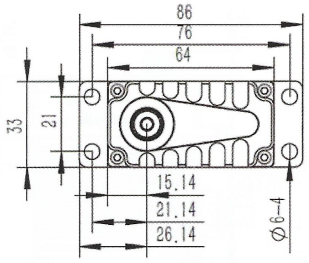


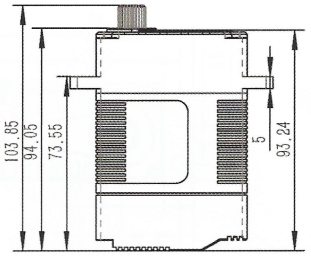
12mm 25T Output Shaft Spline

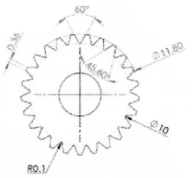
Rated Voltage	DC12V	**Case Dimensions**	64mm*33mm*94mm(±0.2mm)
Voltage Range	DC8.40V-12.0V	**Weight**	435g(±10%)
Stalling Torque	115Kgf.cm@8.40V	**Default Travel Angle**	±60°= 120° total travel
	165Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.27sec/60°@8.40V@25℃	**Case Material**	Aluminum Alloy
	0.18sec/60°@12.0V@25℃	**Motor Type**	Brushless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
		Ball Bearing	7BB

X30-28-180 || Brushless DC Motor || 7 Ball Bearing || Programmable









12mm 25T Output Shaft Spline

Rated Voltage	DC28V	**Case Dimensions**	64mm*33mm*94mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	435g(±10%)
Stalling Torque	135Kgf.cm@24.0V	**Default Travel Angle**	±60°= 120° Total Travel
	180Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.24sec/60°@24.0V@25℃	**Case Material**	Aluminum Alloy
	0.18sec/60°@28.0V@25℃	**Motor Type**	Brushless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	900us-2100us	**Position Sensor**	Potentiometer
		Ball Bearing	7BB

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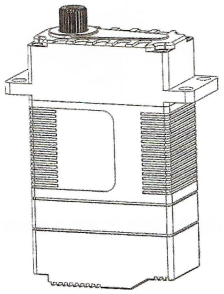
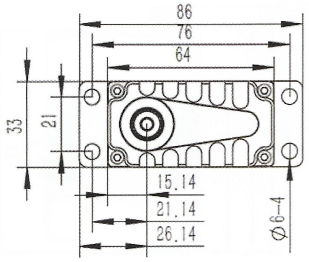
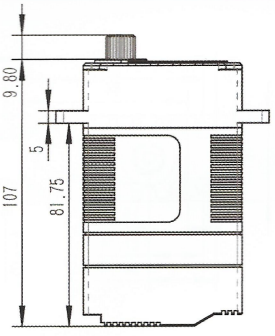
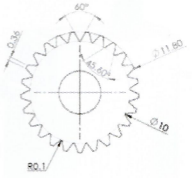
X30-12-200 || Brushless DC Motor || 7 Ball Bearing || Programmable









12mm 25T Output Shaft Spline

Rated Voltage	DC12V	**Case Dimensions**	64mm*33mm*107mm(±0.2mm)
Voltage Range	DC8.40V-12.0V	**Weight**	550g(±10%)
Stalling Torque	200Kgf.cm@12.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	60Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.27sec/60°@12V	**Case Material**	Aluminum Alloy
Rated Speed	0.37sec/60°@12V	**Motor Type**	Brushless DC Motor
Stalling Current	8.80A	**Gear Set Material**	Hardened Steel
Rated Current	2.40A	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	7BB
Pulse Lengths	900us-2100us		

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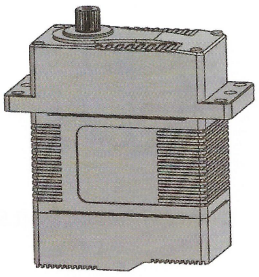
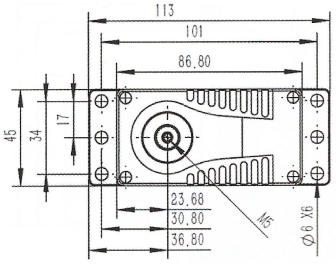
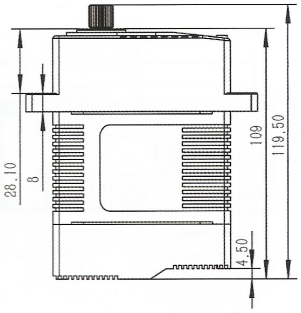
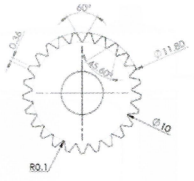
X50-28-350 || Brushless DC Motor || 7 Ball Bearing || Programmable









12mm 25T Output Shaft Spline

Rated Voltage	DC28.0V	**Case Dimensions**	86.8mm*45mm*109mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	860g(±10%)
Stalling Torque	350Kgf.cm@28.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	90Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.22sec/60°@28.0V	**Case Material**	Aluminum Alloy
Rated Speed	0.28sec/60°@28.0V	**Motor Type**	Brushless DC Motor
Stalling Current	8.00A	**Gear Set Material**	Hardened Steel
Rated Current	1.90A	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	7BB
Pulse Lengths	900us-2100us		

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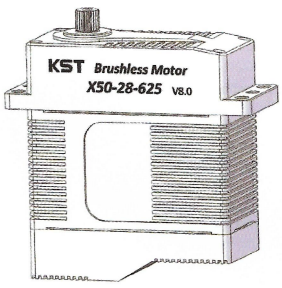
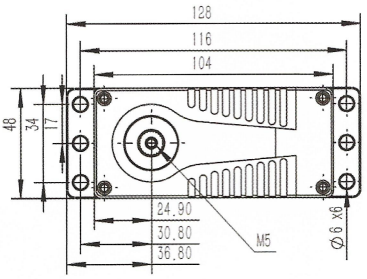
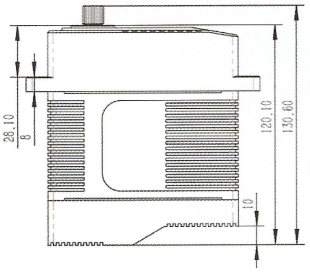
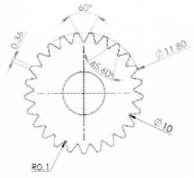
X50-28-625 || Brushless DC Motor || 7 Ball Bearing || Programmable









12mm 25T Output Shaft Spline

Rated Voltage	DC28.0V	**Case Dimensions**	104mm*48mm*120mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	1200g(±10%)
Stalling Torque	625Kgf.cm@28.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	200Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.36sec/60°@28.0V	**Case Material**	Aluminum Alloy
Rated Speed	0.50sec/60°@28.0V	**Motor Type**	Brushless DC Motor
Stalling Current	10.0A	**Gear Set Material**	Hardened Steel
Rated Current	2.20A	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	7BB
Pulse Lengths	900us-2100us		

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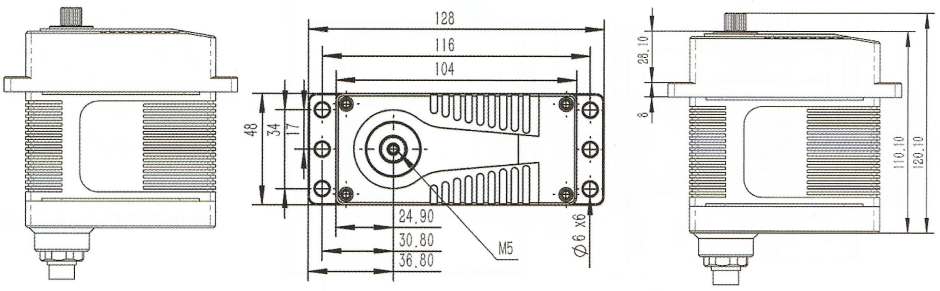
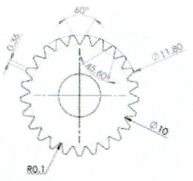
X50-28-625WP

Brushless DC Motor | 7 Ball Bearing | Programmable





12mm 25T Output Shaft Spline

Rated Voltage	DC28.0V	**Case Dimensions**	104mm*48mm*120mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	1200g(±10%)
Stalling Torque	625Kgf.cm@28.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	200Kgf.cm@28.0V	**Temperature Range**	-10℃.....+65℃
No-load Speed	0.36sec/60°@28.0V	**Case Material**	Aluminum Alloy
Rated Speed	0.50sec/60°@28.0V	**Motor Type**	Brushless DC Motor
Stalling Current	10.0A	**Gear Set Material**	Hardened Steel
Rated Current	2.20A	**Position Sensor**	Potentiometer
Working Frequency	1520us/333Hz	**Ball Bearing**	7BB
Pulse Lengths	900us-2100us		

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HS Series Products Guide

High Specification（-30℃~+60℃）

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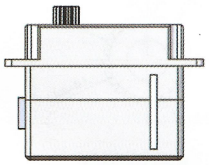
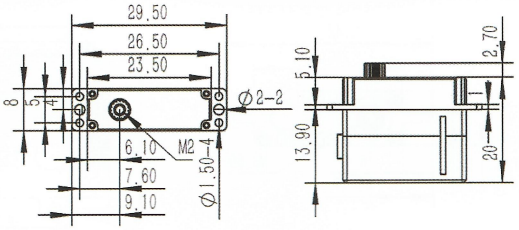
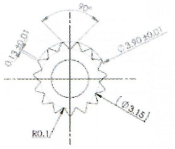
HS08S

4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable





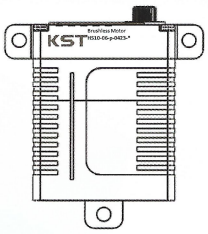


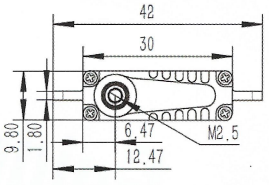
4mm 15T
Output Shaft Spline

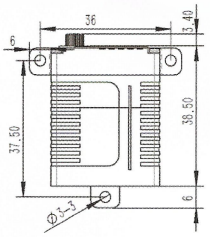
Rated Voltage	DC6.0V	Case Dimensions	23.5mm*8mm*20mm±0.2mm
Voltage Range	DC6.0V-8.4V	Weight	9g±10%
Stalling Torque	4.0Kgf.cm@6.0V	Rated Speed	0.130sec/60°@6.0V
	5.0Kgf.cm@7.4V		0.100sec/60°@7.4V
	6.0Kgf.cm@8.4V		0.090sec/60°@8.4V
Rated Torque	1.00Kgf.cm@6.0V	No-load Speed	0.090sec/60°@6.0V
	1.25Kgf.cm@7.4V		0.072sec/60°@7.4V
	1.50Kgf.cm@8.4V		0.065sec/60°@8.4V
Stalling Current	1.05A@6.0V	Temperature Range	-30℃.....+65℃
	1.25A@7.4V	Case Material	Aluminum Alloy
	1.35A@8.4V	Motor Type	4 Pole Brushless DC Motor
Rated Current	0.20A@6.0V	Gear Set Material	Hardened Steel
	0.25A@7.4V	Position Sensor	Potentiometer
	0.30A@8.4V	Ball Bearing	2BB

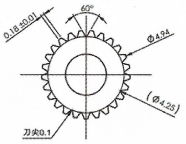
KST®

HS10-06-P-0423 || Brushless DC Motor || Dual Ball Bearing || Programmable







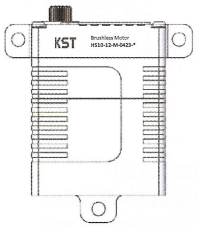


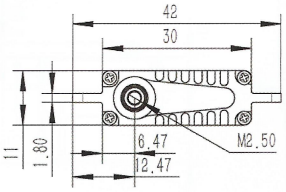
5mm25T
Output Shaft Spline

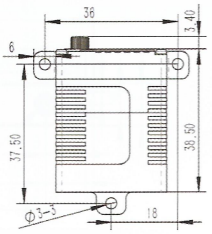
Rated Voltage	DC6.0V	**Case Dimensions**	30mm*9.8mm*38.5mm(±0.2mm)
Voltage Range	DC4.8V-8.4V	**Weight**	28g(±10%)
Stalling Torque	12.0Kgf.cm@6.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	4.0Kgf.cm@6.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	2.85A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.65A	**Motor Type**	Brushless DC Motor
No-load Speed	420°/S@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	320°/S@25℃	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

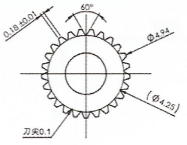
KST

HS10-12-M-0423 || Brushless DC Motor || Dual Ball Bearing || Programmable







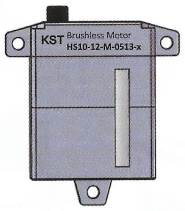


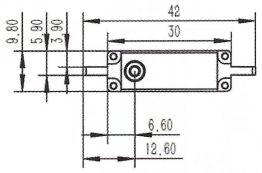
5mm25T
Output Shaft Spline

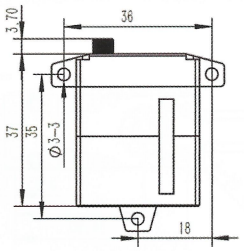
Rated Voltage	DC12V	**Case Dimensions**	30mm*11mm*38.5mm(±0.2mm)
Voltage Range	DC9.0V-13V	**Weight**	30g(±10%)
Stalling Torque	12Kgf.cm@12V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	4.0Kgf.cm@12V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.45A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.33A	**Motor Type**	Brushless DC Motor
No-load Speed	420°/S@12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	320°/S@12V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB

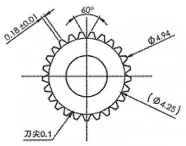
KST

HS10-12-M-0513 || 4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable







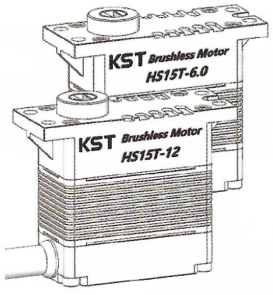


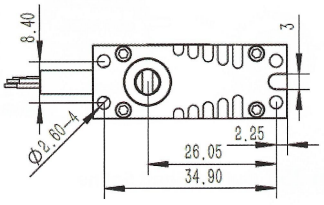
5mm25T
Output Shaft Spline

Rated Voltage	DC12.0V	**Case Dimensions**	30mm*9.8mm*37mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	28g(±10%)
Stalling Torque	16.0Kgf.cm@12.0V	**Default Travel Angle**	±100°= 200° total travel
Rated Torque	5.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	4.05A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.95A	**Motor Type**	4 Pole Brushless DC Motor
No-load Speed	600°/S@12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	460°/S@12V@25℃	**Position Sensor**	Contactless Sensor
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB

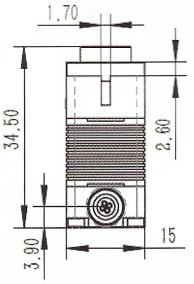
KST

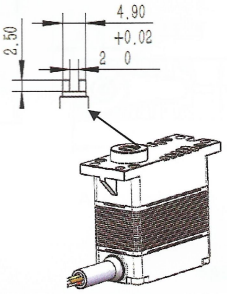
HS15T-6.0 || Brushless DC Motor || Dual Ball Bearing || Programmable

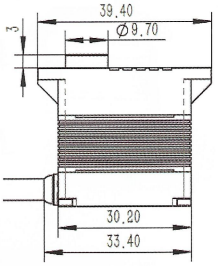




Output shaft



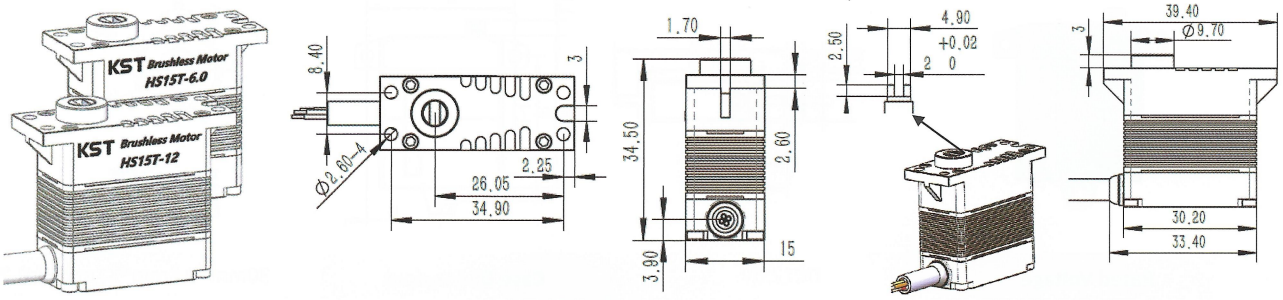




Rated Voltage	DC6.0V	**Case Dimensions**	30mm*15mm*38mm(±0.2mm)
Voltage Range	DC6.0V-9.0V	**Weight**	40g(±10%)
Stalling Torque	6.00Kgf.cm@6.0V	**Default Travel Angle**	±45°= 90° total travel
Rated Torque	1.60Kgf.cm@6.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.60A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.55A	**Motor Type**	Brushless DC Motor
No-load Speed	0.20sec/60°@6.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.25sec/60°@6.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	1000us-2000us	**Ball Bearing**	2BB

KST

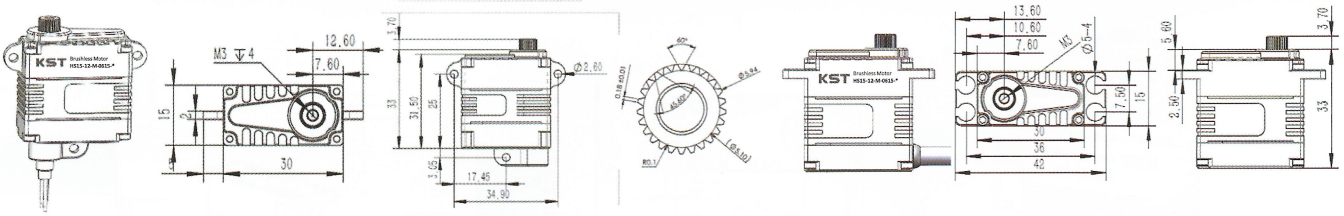
HS15T-12 || Brushless DC Motor || Dual Ball Bearing || Programmable



Rated Voltage	DC12V	**Case Dimensions**	30mm*15mm*38mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	40g(±10%)
Stalling Torque	10.0Kgf.cm@12.0V	**Default Travel Angle**	±45°= 90° total travel
Rated Torque	2.50Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.00A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.30A	**Motor Type**	Brushless DC Motor
No-load Speed	0.13sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.19sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	1000us-2000us	**Ball Bearing**	2BB

KST®

HS15-12-M-0615 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A

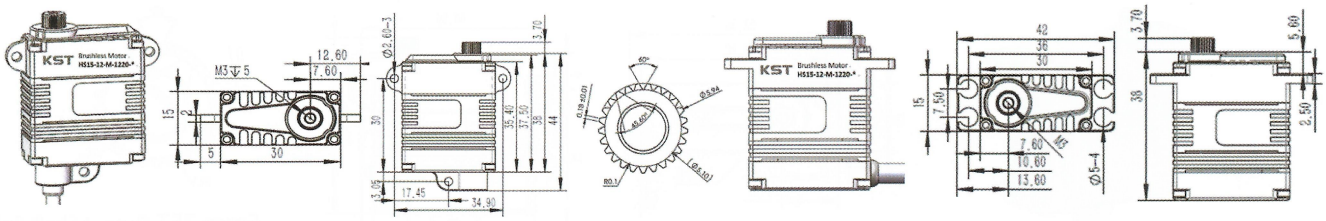
6mm 25T Output Shaft Spline

Version B

Rated Voltage	DC12.0V	**Case Dimensions**	30mm*15mm*33mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	35g(±10%)
Stalling Torque	6.0Kgf.cm@12.0V	**Default Travel Angle**	±100° = 200° total travel
Rated Torque	3.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	0.90A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.30A	**Motor Type**	Brushless DC Motor
No-load Speed	400°/s @12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	300°/s @12V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

KST®

HS15-12-M-1220 || Brushless DC Motor || 6 Ball Bearing || Programmable

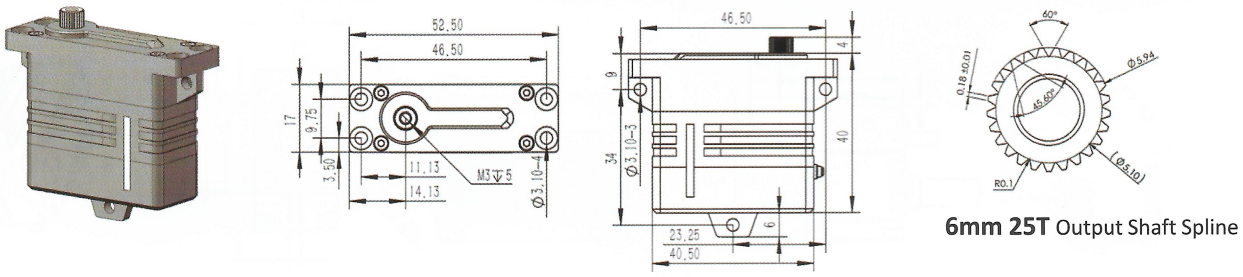


Version A　　**6mm 25T** Output Shaft Spline　　Version B

Rated Voltage	DC12.0V	**Case Dimensions**	30mm*15mm*38mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	40g(±10%)
Stalling Torque	16.0Kgf.cm@12.0V	**Default Travel Angle**	±100° = 200° total travel
Rated Torque	8.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	2.05A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.75A	**Motor Type**	Brushless DC Motor
No-load Speed	350°/s @12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	260°/s @12V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

KST

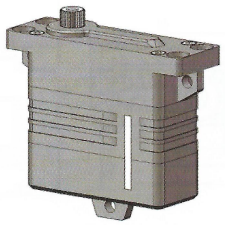
HS17-12-P-5020 || 4 Pole Brushless DC Motor || 2 Ball Bearing || Programmable

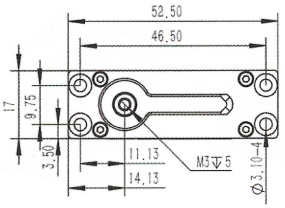


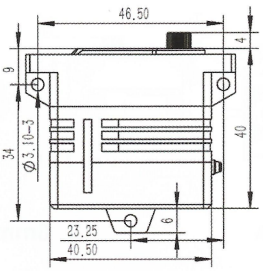
6mm 25T Output Shaft Spline

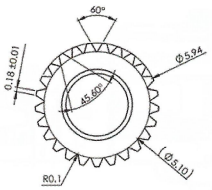
Rated Voltage	DC12.0V	**Case Dimensions**	40.5mm*17mm*40mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	75g(±10%)
Stalling Torque	60.0Kgf.cm@12.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	18.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	6.45A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.55A	**Motor Type**	4 Pole Brushless DC Motor
No-load Speed	500°/s @12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	300°/s @12V@25℃	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

HS17-28-P-5020 || 4 Pole Brushless DC Motor || 2 Ball Bearing || Programmable







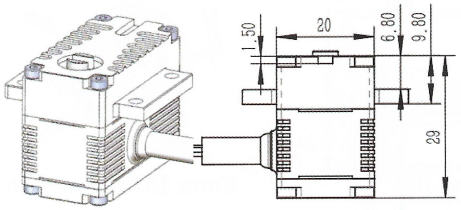


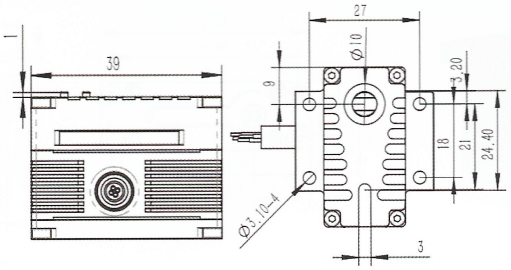
6mm 25T Output Shaft Spline

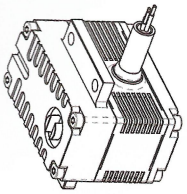
Rated Voltage	DC28.0V	**Case Dimensions**	40.5mm*17mm*40mm(±0.2mm)
Voltage Range	DC24.0V-30.0V	**Weight**	75g(±10%)
Stalling Torque	80.0Kgf.cm@28.0V	**Default Travel Angle**	±60°= 120° Total Travel
Rated Torque	25.0Kgf.cm@28.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	4.65A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.05A	**Motor Type**	4 Pole Brushless DC Motor
No-load Speed	500°/s @28V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	300°/s @28V@25℃	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

KST®

HS20T-12 || Brushless DC Motor || Dual Ball Bearing || Programmable



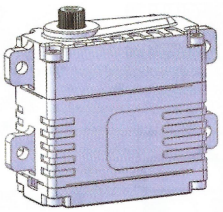


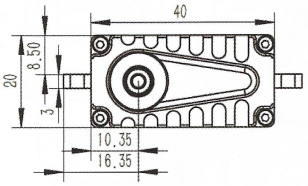


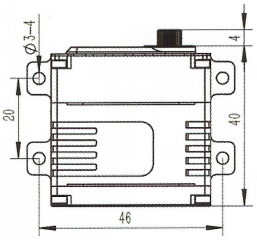
Rated Voltage	DC12V	**Case Dimensions**	39mm*20mm*29mm(±0.2mm)
Voltage Range	DC9.0V-12.0V	**Weight**	70g(±10%)
Stalling Torque	15.0Kgf.cm@12.0V	**Default Travel Angle**	±45°= 90° total travel
Rated Torque	5.00Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	1.50A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.50A	**Motor Type**	Brushless DC Motor
No-load Speed	0.11sec/60°@12.0V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	0.15sec/60°@12.0V@25℃	**Position Sensor**	Contactless
Pulse Lengths	1000us-2000us	**Ball Bearing**	2BB

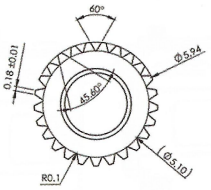
KST®

HS20-12-M-5518 || Brushless DC Motor || 6 Ball Bearing || Programmable







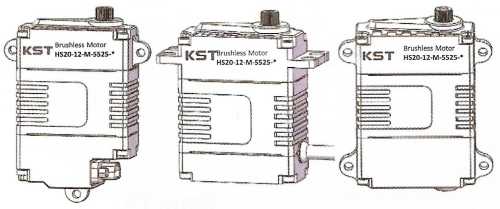


6mm 25T Output Shaft Spline

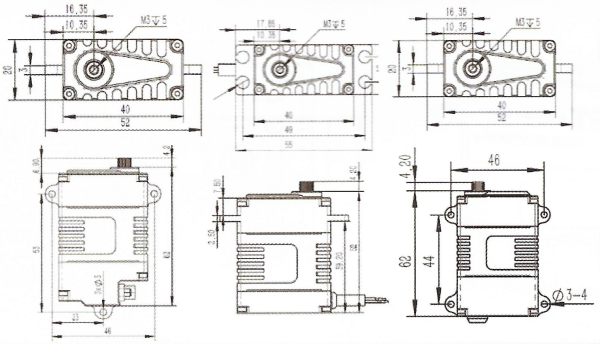
Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	80g(±10%)
Stalling Torque	48.0Kgf.cm@12.0V	**Default Travel Angle**	±100° = 200° total travel
Rated Torque	12.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	3.25A	**Case Material**	Aluminum Alloy 7075
Rated Current	0.85A	**Motor Type**	Brushless DC Motor
No-load Speed	428°/s @12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	240°/s @12V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

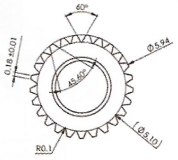
KST®

HS20-12-M-5525 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A Version B Version C



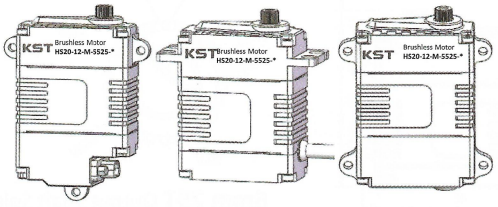


6mm 25T
Output Shaft Spline

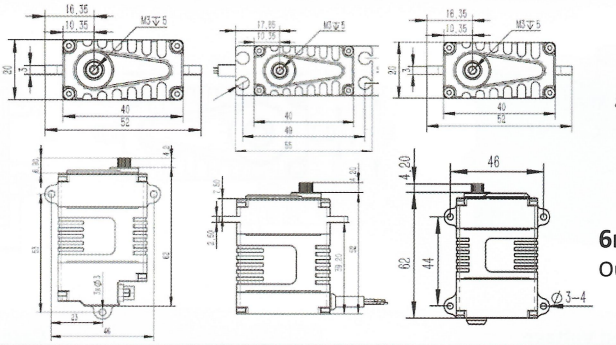
Rated Voltage	DC12.0V	**Case Dimensions**	Version A&C: 40mm*20mm*62mm(±0.2mm)
Voltage Range	DC9.0V-13.0V		Version B: 40mm*20mm*52mm(±0.2mm)
Stalling Torque	45.0Kgf.cm@12.0V	**Weight**	Version A&C: 100g(±10%)
Rated Torque	15.0Kgf.cm@12.0V		Version B: 90g(±10%)
Stalling Current	4.00A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	1.60A	**Temperature Range**	-30℃.....+65℃
No-load Speed	450°/s @12V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	300°/s @12V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Pulse Lengths**	500us-2500us

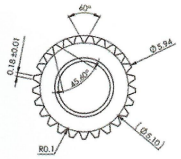
KST®

HS20-30-M-5525 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A Version B Version C



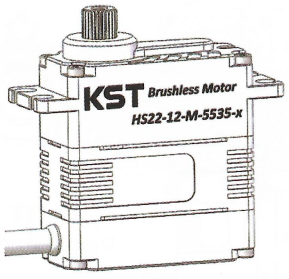


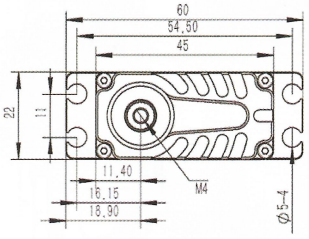
6mm 25T
Output Shaft Spline

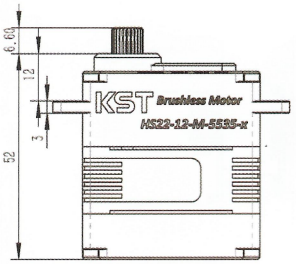
Rated Voltage	DC30.0V	**Case Dimensions**	Version A&C: 40mm*20mm*62mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B: 40mm*20mm*52mm(±0.2mm)
Stalling Torque	65.0Kgf.cm@30.0V	**Weight**	Version A&C: 100g(±10%)
Rated Torque	25.0Kgf.cm@30.0V		Version B: 90g(±10%)
Stalling Current	3.20A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	0.65A	**Temperature Range**	-30℃.....+65℃
No-load Speed	450°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	300°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Pulse Lengths**	500us-2500us

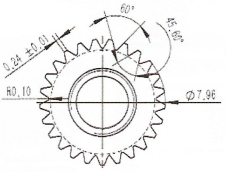
KST

HS22-12-M-5535 || Brushless DC Motor || 6 Ball Bearing || Programmable







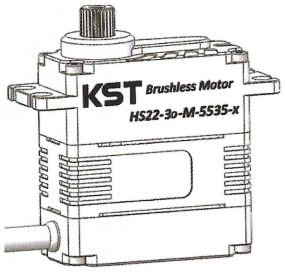


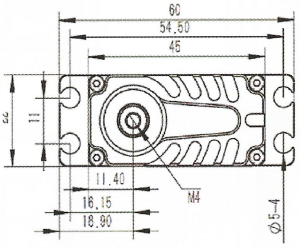
8mm 25T
Output Shaft Spline

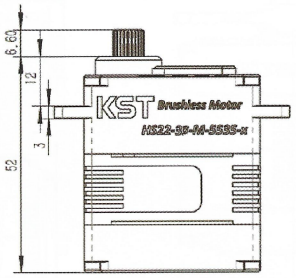
Rated Voltage	DC12.0V	**Case Dimensions**	45mm*22mm*52mm(±0.2mm)
Voltage Range	DC9.0V-13.0V	**Weight**	128g(±10%)
Stalling Torque	75.0Kgf.cm@12.0V	**Default Travel Angle**	±100° = 200° total travel
Rated Torque	25.0Kgf.cm@12.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	6.00A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.68A	**Motor Type**	Brushless DC Motor
No-load Speed	428°/s @12V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	300°/s @12V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

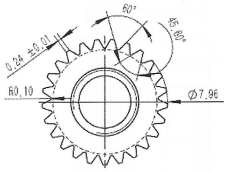
KST

HS22-30-M-5535 || Brushless DC Motor || 6 Ball Bearing || Programmable







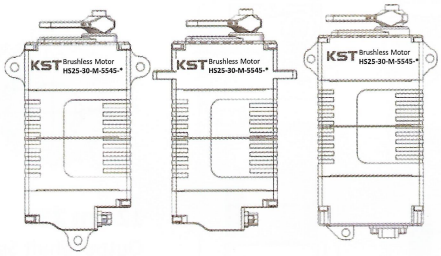


8mm 25T
Output Shaft Spline

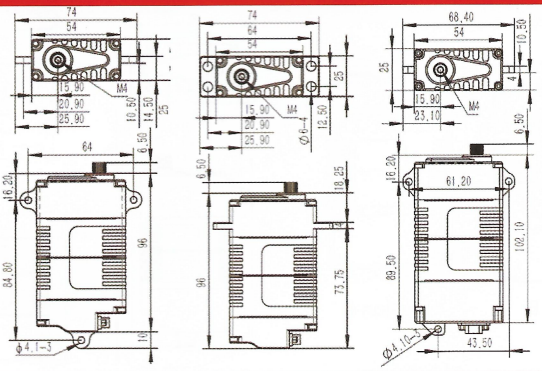
Rated Voltage	DC30.0V	**Case Dimensions**	45mm*22mm*52mm(±0.2mm)
Voltage Range	DC24.0V-32.0V	**Weight**	128g(±10%)
Stalling Torque	90.0Kgf.cm@30.0V	**Default Travel Angle**	±100° = 200° total travel
Rated Torque	30.0Kgf.cm@30.0V	**Temperature Range**	-30℃.....+65℃
Stalling Current	3.50A	**Case Material**	Aluminum Alloy 7075
Rated Current	1.05A	**Motor Type**	Brushless DC Motor
No-load Speed	545°/s @30V@25℃	**Gear Set Material**	Hardened Steel
Rated Speed	300°/s @30V@25℃	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

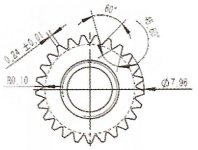
KST

HS25-30-M-5545 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A　Version B　Version C



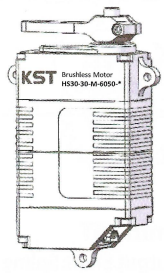


8mm 25T
Output Shaft Spline

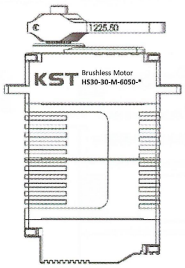
Rated Voltage	DC30.0V	**Case Dimensions**	Version A&B: 54mm*25mm*96mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version C: 54mm*25mm*102mm(±0.2mm)
Stalling Torque	80.0Kgf.cm@30.0V	**Weight**	Version A&B: 300g(±10%)
Rated Torque	38.0Kgf.cm@30.0V		Version C: 300g(±10%)
Stalling Current	2.00A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	0.95A	**Temperature Range**	-30℃.....+65℃
No-load Speed	300°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	200°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J30J-9TJL

KST

HS30-30-M-6050 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A



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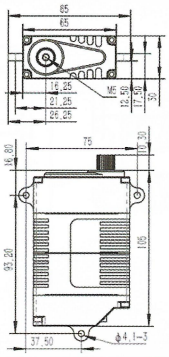
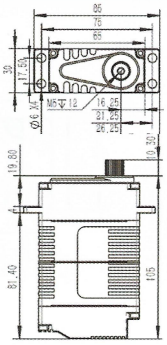
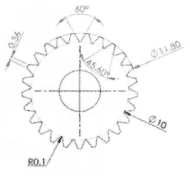




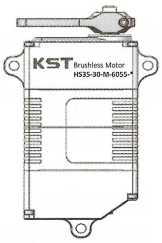


12mm 25T
Output Shaft Spline

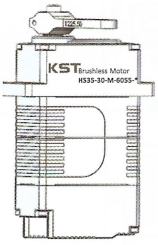
Rated Voltage	DC30.0V	**Case Dimensions**	Version A：65mm*30mm*105mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B：65mm*30mm*105mm(±0.2mm)
Stalling Torque	180.0Kgf.cm@30.0V	**Weight**	Version A：450g(±10%)
Rated Torque	90.0Kgf.cm@30.0V		Version B：450g(±10%)
Stalling Current	3.00A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	1.40A	**Temperature Range**	-30℃.....+65℃
No-load Speed	240°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	160°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J30J-9TJL

KST

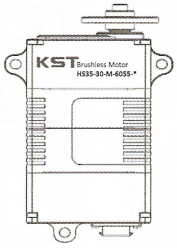
HS35-30-M-6055 || Brushless DC Motor || 6 Ball Bearing || Programmable



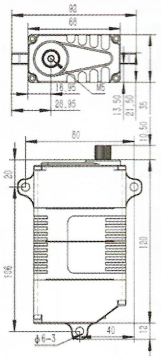
Version A

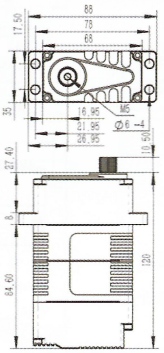


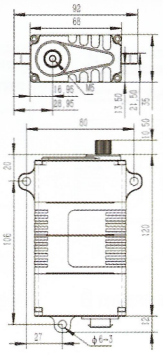
Version B

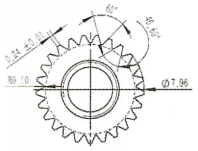


Version C







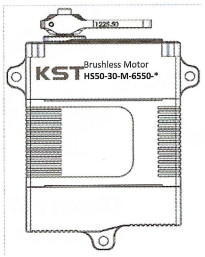


12mm 25T
Output Shaft Spline

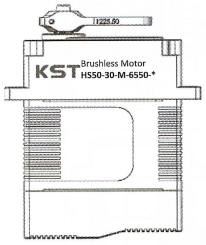
Rated Voltage	DC30.0V	**Case Dimensions**	Version A&C：68mm*35mm*120mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B：68mm*35mm*120mm(±0.2mm)
Stalling Torque	300.0Kgf.cm@30.0V	**Weight**	Version A&B：680g(±10%)
Rated Torque	120.0Kgf.cm@30.0V		Version C：680g(±10%)
Stalling Current	5.00A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	1.95A	**Temperature Range**	-30℃.....+65℃
No-load Speed	220°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	150°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J30J-15TJL

KST

HS50-30-M-6550 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A



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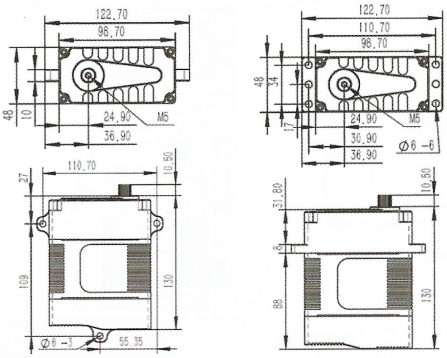

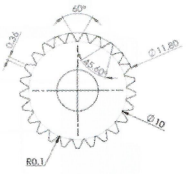

12mm 25T
Output Shaft Spline

Rated Voltage	DC30.0V	**Case Dimensions**	Version A: 98.7mm*48mm*130mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B: 98.7mm*48mm*130mm(±0.2mm)
Stalling Torque	650.0Kgf.cm@30.0V	**Weight**	Version A: 1350g(±10%)
Rated Torque	200.0Kgf.cm@30.0V		Version B: 1350g(±10%)
Stalling Current	8.50A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	2.30A	**Temperature Range**	-30℃.....+65℃
No-load Speed	180°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	135°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J30J-15TJL

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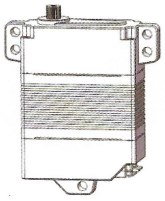
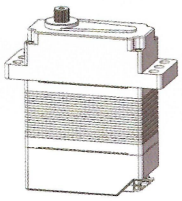
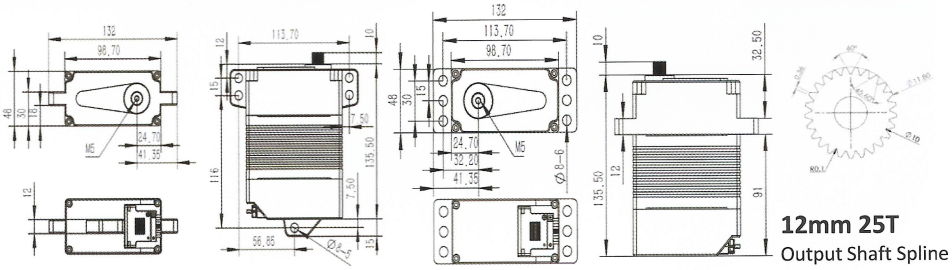
HS50-30-M-8060 || Brushless DC Motor || 6 Ball Bearing || Programmable



Version A



Version B



12mm 25T
Output Shaft Spline

Rated Voltage	DC30.0V	**Case Dimensions**	Version A: 98.7mm*48mm*135.5mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B: 98.7mm*48mm*135.5mm(±0.2mm)
Stalling Torque	1200.0Kgf.cm@30.0V	**Weight**	Version A: 1480g(±10%)
Rated Torque	450.0Kgf.cm@30.0V		Version B: 1480g(±10%)
Stalling Current	32.50A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	9.50A	**Temperature Range**	-30℃.....+65℃
No-load Speed	180°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	130°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J30J-11P04JS

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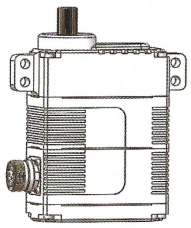
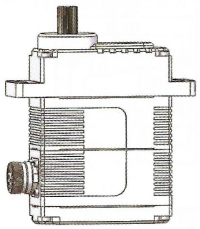
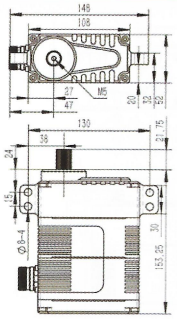
HS50-30-M-8090 || Brushless DC Motor || 6 Ball Bearing || Programmable

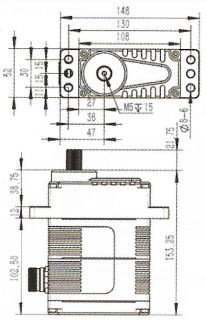


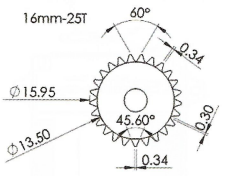
Version A



Version B







16mm 25T
Output Shaft Spline

Rated Voltage	DC30.0V	**Case Dimensions**	Version A: 108mm*52mm*153.25mm(±0.2mm)
Voltage Range	DC24.0V-32.0V		Version B: 108mm*52mm*153.5mm(±0.2mm)
Stalling Torque	2000.0Kgf.cm@30.0V	**Weight**	Version A: 2080g(±10%)
Rated Torque	400.0Kgf.cm@30.0V		Version B: 2080g(±10%)
Stalling Current	45.0A	**Default Travel Angle**	±100° = 200° total travel
Rated Current	11.25A	**Temperature Range**	-30℃.....+65℃
No-load Speed	112°/s @30V@25℃	**Case Material**	Aluminum Alloy 7075
Rated Speed	95°/s @30V@25℃	**Motor Type**	Brushless DC Motor
Position Sensor	Contactless	**Gear Set Material**	Hardened Steel
Ball Bearing	6BB	**Shielded Cable**	J599

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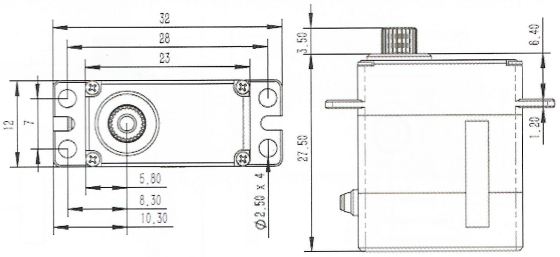
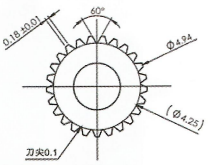
MR320 || Coreless DC Motor || Dual Ball Bearing || Programmable







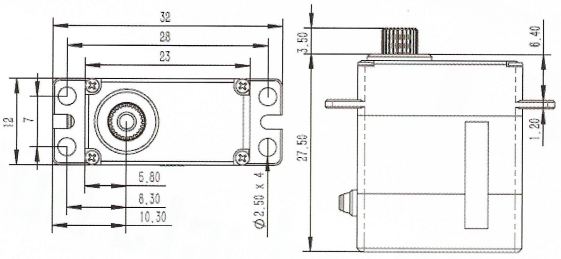
5mm25T Output Shaft Spline

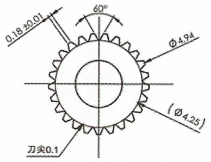
Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	4.50Kgf.cm@6.00V	**Default Travel Angle**	±170°=340° Total Travel
	5.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Motor Type**	Coreless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	500us-2500us	**Position Sensor**	Contactless
		Ball Bearing	2BB

MS320

Coreless DC Motor || Dual Ball Bearing || Programmable







5mm25T Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	4.50Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total Travel
	5.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
Speed	0.09sec/60°@6.00V	**Case Material**	Aluminum Alloy
	0.08sec/60°@7.40V	**Motor Type**	Coreless DC Motor
Working Frequency	1520us/333Hz	**Gear Set Material**	Hardened Steel
Pulse Lengths	500us-2500us	**Position Sensor**	Contactless
		Ball Bearing	2BB

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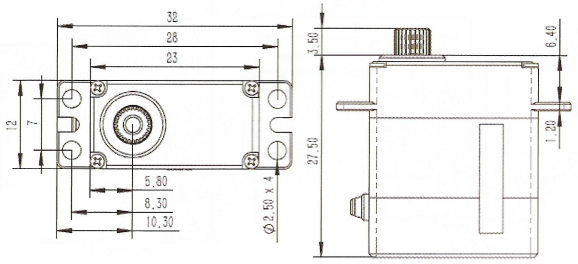
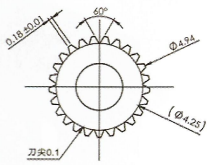
MS325

Coreless DC Motor || Dual Ball Bearing || Programmable







5mm25T
Output Shaft Spline

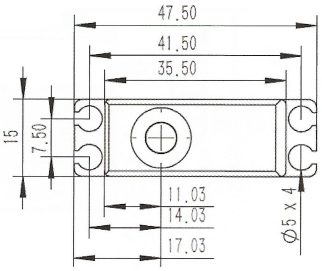
Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	3.80Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total Travel
	4.60Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	5.20Kgf.cm@8.40V	**Working Frequency**	1520us/333Hz
Speed	0.09sec/60°@6.00V	**Pulse Lengths**	500us-2500us
	0.08sec/60°@7.40V	**Case Material**	Aluminum Alloy
	0.07sec/60°@8.40V	**Motor Type**	Coreless DC Motor
Ball Bearing	2BB	**Gear Set Material**	Hardened Steel
		Position Sensor	Contactless

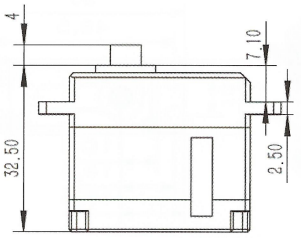
KST®

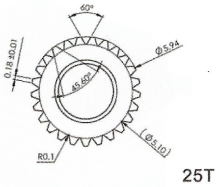
MS565

Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

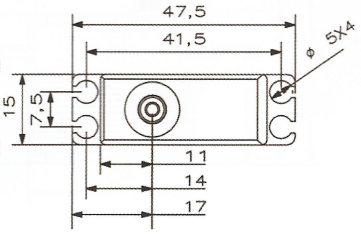
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	4.20Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	5.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	6.50Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.050sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.040sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.035sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

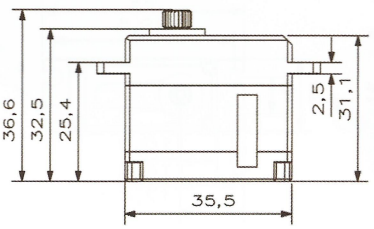
KST

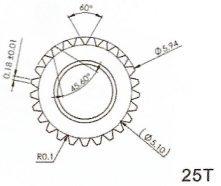
MS589

Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

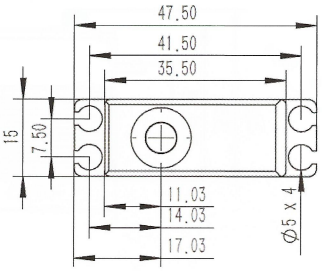
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	6.50Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total
	8.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	9.20Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.09sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.08sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

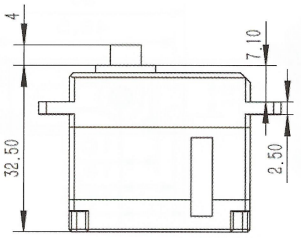
KST

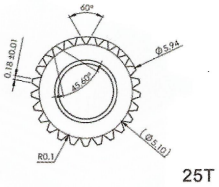
MS565

Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

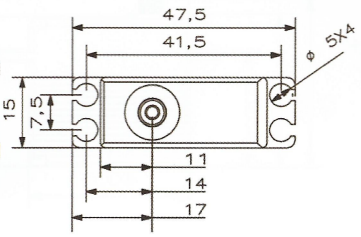
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	4.20Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	5.50Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	6.50Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.050sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.040sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.035sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

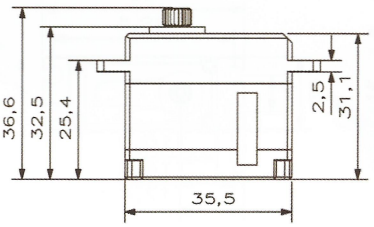
KST

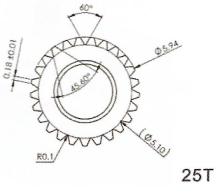
MS589

Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

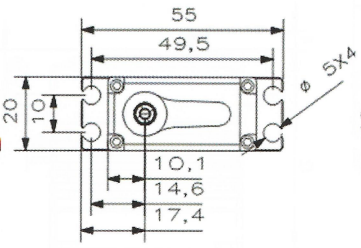
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	6.50Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total
	8.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	9.20Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.09sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.08sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

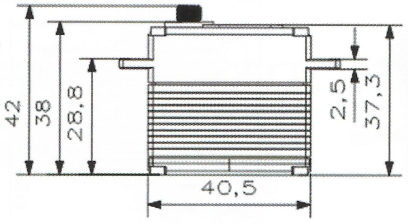
KST

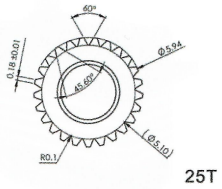
MS815

Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

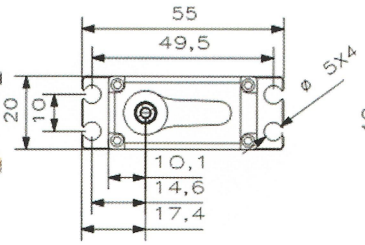
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	15.0Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total
	18.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	20.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

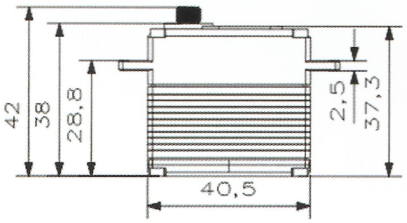
KST

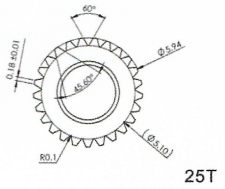
MS825

Brushless DC Motor || Dual Ball Bearing || Programmable









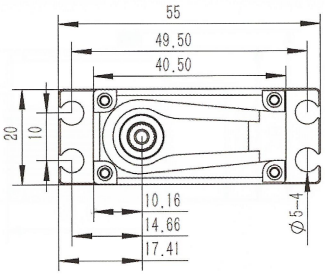
6mm25T
Output Shaft Spline

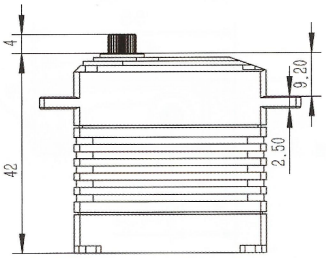
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	25.0Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total
	30.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	35.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.13sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

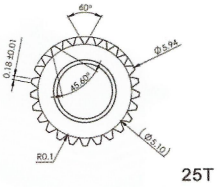
KST

MS4512 || Coreless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*42mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	78g(±10%)
Torque	38.0Kgf.cm@6.00V	**Default Travel Angle**	±100°=200° Total
	42.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	45.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.18sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.16sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.14sec/60°@8.40V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB
Working Frequency	1520us/333Hz		

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SV Series Products Guide

Super Voltage Servo

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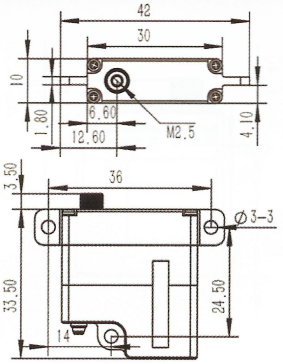
SV10-12 || Coreless DC Motor || Dual Ball Bearing || Programmable

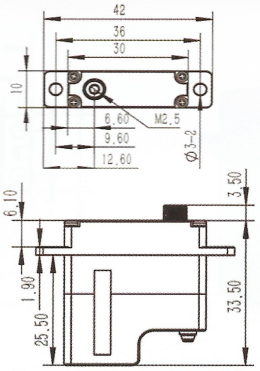


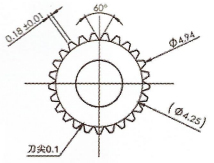
SV10-12A





SV10-12B



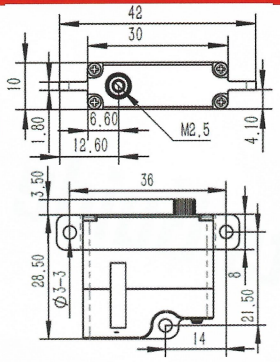


5mm25T
Output Shaft Spline

Rated Voltage	DC12.0V	**Case Dimensions**	30mm*10mm*33.5mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	25g(±10%)
Torque	11.0Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	13.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	14.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.11sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

SV10M-12 || Coreless DC Motor || Dual Ball Bearing || Programmable





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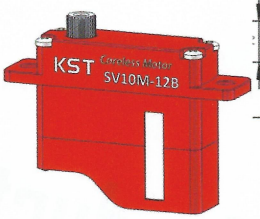
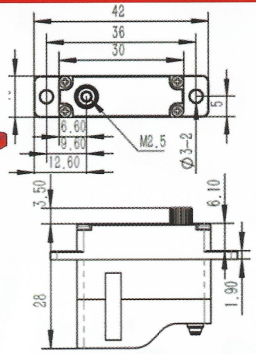
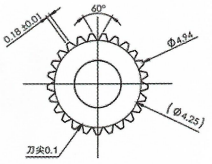




SV10M-12B

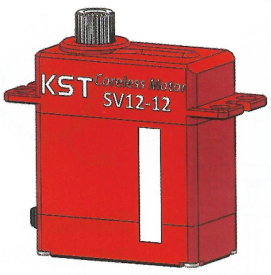


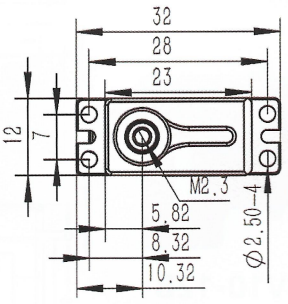
5mm25T
Output Shaft Spline

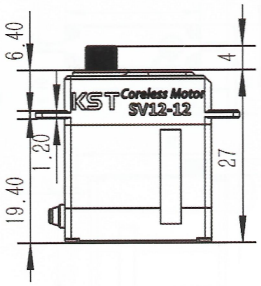
Rated Voltage	DC12.0V	**Case Dimensions**	30mm*10mm*28mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	20g(±10%)
Torque	6.50Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	8.00Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	9.00Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.115sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.086sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.081sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

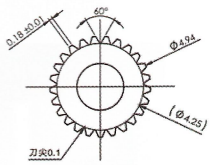
KST®

SV12-12 || Coreless DC Motor || Dual Ball Bearing || Programmable









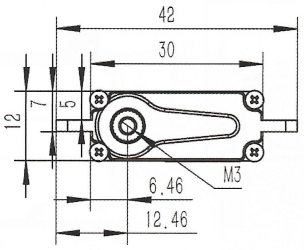
5mm25T
Output Shaft Spline

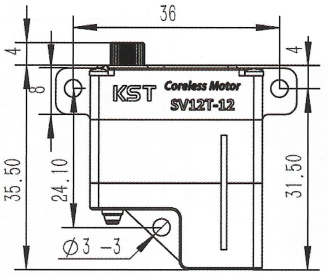
Rated Voltage	DC12.0V	**Case Dimensions**	23mm*12mm*27mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	20g(±10%)
Torque	6.50Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	8.00Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	9.00Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.11sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

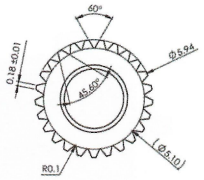
KST®

SV12T-12 || Coreless DC Motor || Dual Ball Bearing || Programmable









25T

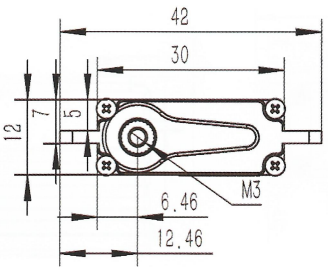
6mm25T
Output Shaft Spline

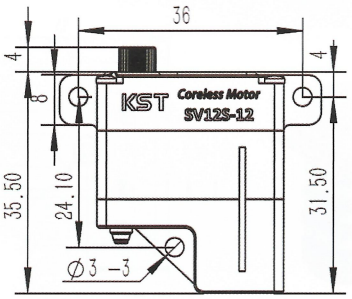
Rated Voltage	DC12.0V	**Case Dimensions**	23mm*12mm*27mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	32g(±10%)
Torque	16.0Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	20.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	22.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.16sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.12sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

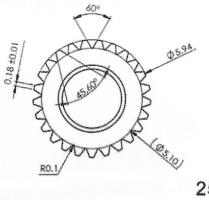
KST®

SV12S-12 || Coreless DC Motor || Dual Ball Bearing || Programmable









25T

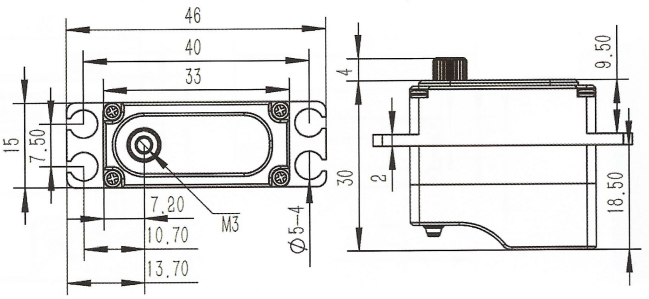
6mm25T
Output Shaft Spline

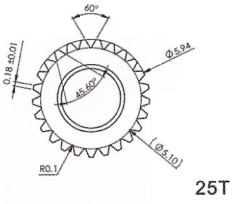
Rated Voltage	DC12.0V	**Case Dimensions**	23mm*12mm*27mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	32g(±10%)
Torque	11.0Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	13.8Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	14.5Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

KST®

SV15-12 || Coreless DC Motor || Dual Ball Bearing || Programmable







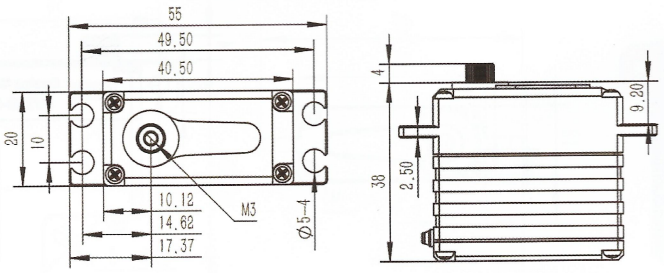
6mm25T
Output Shaft Spline

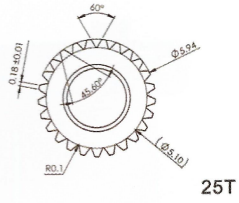
Rated Voltage	DC12.0V	**Case Dimensions**	33mm*15mm*30mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	35g(±10%)
Torque	15.0Kgf.cm@8.40V	**Default Travel Angle**	±60°=120° Total Travel
	18.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	20.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@8.40V	**Motor Type**	Coreless DC Motor
	0.11sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

KST®

SV905-12 || Brushless DC Motor || Dual Ball Bearing || Programmable





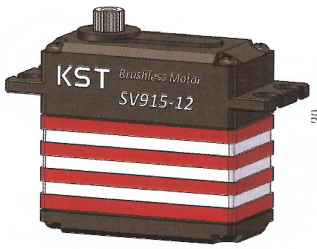


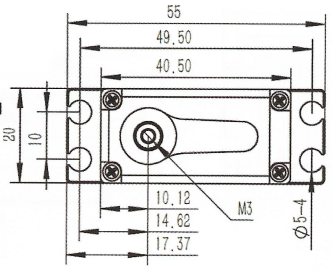
6mm25T
Output Shaft Spline

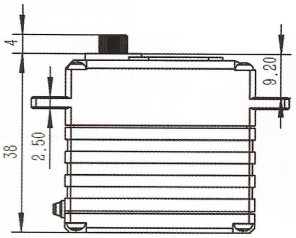
Rated Voltage	DC12.0V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	70g(±10%)
Torque	13.0Kgf.cm@8.40V	**Working Frequency**	760us/560Hz
	16.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	17.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.060sec/60°@8.40V	**Motor Type**	Brushless DC Motor
	0.045sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.040sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

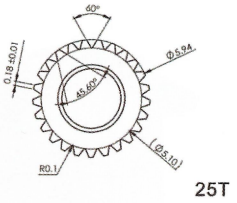
KST®

SV915-12 || Brushless DC Motor || Dual Ball Bearing || Programmable







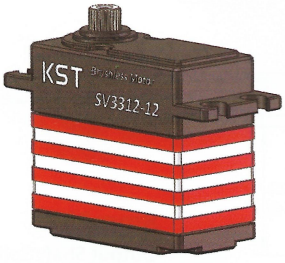


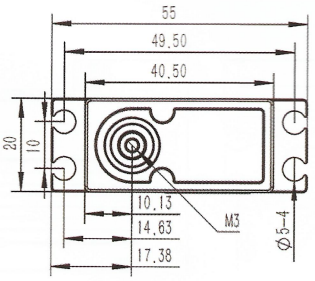
6mm25T
Output Shaft Spline

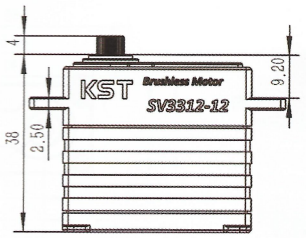
Rated Voltage	DC12.0V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	70g(±10%)
Torque	24.0Kgf.cm@8.40V	**Working Frequency**	760us/560Hz
	28.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	30.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@8.40V	**Motor Type**	Brushless DC Motor
	0.08sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

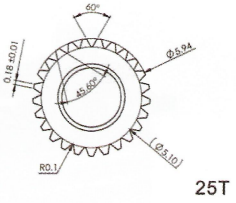
KST®

SV3312-12 || Brushless DC Motor || Dual Ball Bearing || Programmable









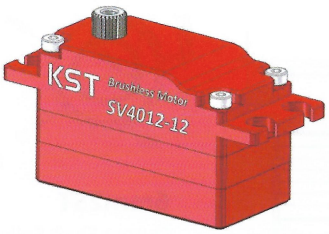
6mm25T
Output Shaft Spline

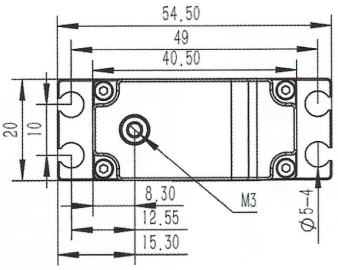
Rated Voltage	DC12.0V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	70g(±10%)
Torque	28.0Kgf.cm@8.40V	**Working Frequency**	±60°=120° Total
	33.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	38.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.16sec/60°@8.40V	**Motor Type**	Brushless DC Motor
	0.12sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

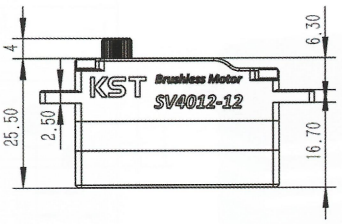
KST®

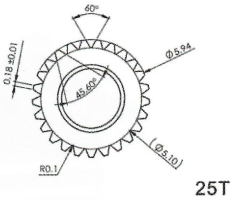
SV4012-12

4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

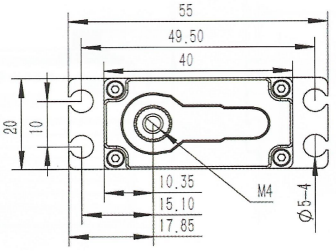
Rated Voltage	DC12.0V	**Case Dimensions**	40.5mm*20mm*25.5mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	50g(±10%)
Torque	35.0Kgf.cm@8.40V	**Working Frequency**	±100°=200° Total
	40.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	42.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.16sec/60°@8.40V	**Motor Type**	4 Pole Brushless DC Motor
	0.12sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Potentiometer
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB

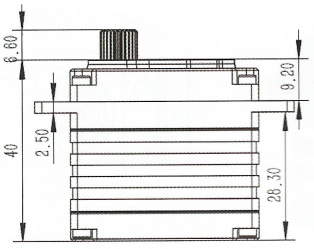
KST®

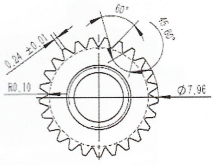
SV6010-12

4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable









8mm25T
Output Shaft Spline

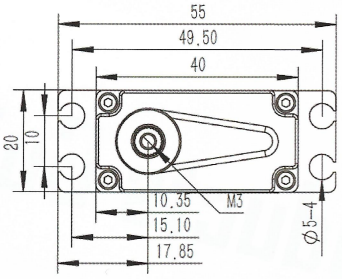
Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	75g(±10%)
Torque	50.0Kgf.cm@8.40V	**Working Frequency**	±100°=200° Total
	60.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	70.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.13sec/60°@8.40V	**Motor Type**	4 Pole Brushless DC Motor
	0.10sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.09sec/60°@13.0V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	2BB

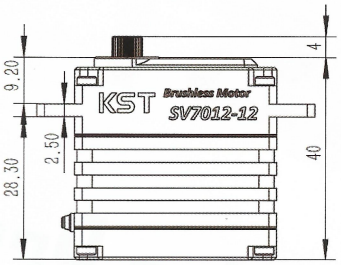
KST®

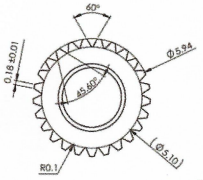
SV7012-12

4 Pole Brushless DC Motor | 6 Ball Bearing | Programmable









25T

6mm25T
Output Shaft Spline

Rated Voltage	DC12.0V	**Case Dimensions**	40mm*20mm*40mm(±0.2mm)
Voltage Range	DC8.40V-13.0V	**Weight**	75g(±10%)
Torque	55.0Kgf.cm@8.40V	**Working Frequency**	±100°=200° Total
	70.0Kgf.cm@12.0V	**Temperature Range**	-10℃.....+65℃
	75.0Kgf.cm@13.0V	**Case Material**	Aluminum Alloy
Speed	0.16sec/60°@8.40V	**Motor Type**	4 Pole Brushless DC Motor
	0.12sec/60°@12.0V	**Gear Set Material**	Hardened Steel
	0.10sec/60°@13.0V	**Position Sensor**	Contactless
Pulse Lengths	500us-2500us	**Ball Bearing**	6BB

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X Series Products Guide

X Servo

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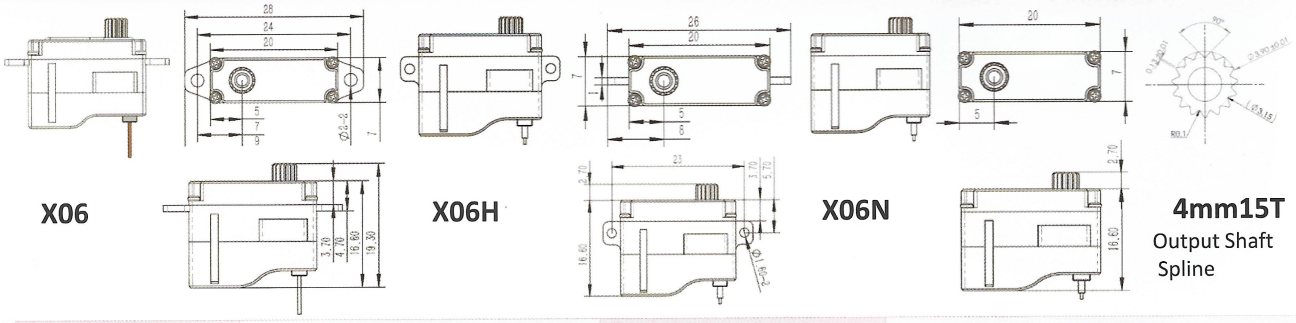
X06 V6.0 || Coreless DC Motor || 1 Ball Bearing || Programmable



X06 X06H X06N

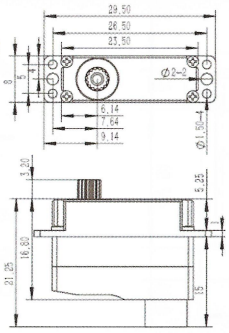
4mm15T
Output Shaft
Spline

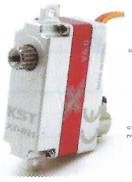
Rated Voltage	DC6.0V	**Case Dimensions**	20mm*7mm*16.6mm(±0.2mm)
Voltage Range	DC3.80V-8.40V	**Weight**	6g(±10%)
Torque	0.80Kgf.cm@3.80V	**Default Travel Angle**	±60°=120° Total Travel
	1.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	1.80Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.12sec/60°@3.80V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@6.00V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Stalling Current	0.58A@6.0V	**Rated Current**	0.22A@6.0V
Rated Torque	0.4kgf.cm@6.0V	**Rated Speed**	0.20sec/60°@6.0V
Pulse Lengths	900us-2100us	**Ball Bearing**	1BB

X08 V6.0 || Coreless DC Motor || Dual Ball Bearing || Programmable

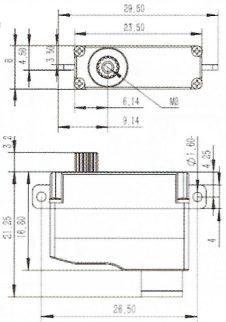


X08



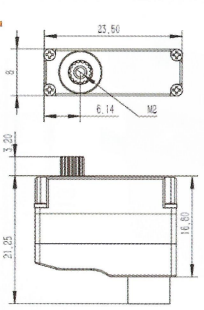


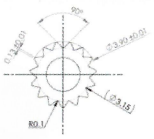
X08H





X08N





4mm15T
Output Shaft
Spline

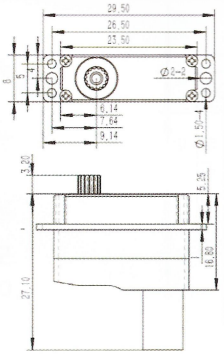
Rated Voltage	DC7.40V	**Case Dimensions**	23.5mm*8mm*16.8mm(±0.2mm)
Voltage Range	DC3.80V-8.40V	**Weight**	8g(±10%)
Torque	1.40Kgf.cm@3.80V	**Default Travel Angle**	±60°=120° Total Travel
	2.20Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	2.70Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	2.80Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.18sec/60°@3.80V	**Gear Set Material**	Hardened Steel
	0.15sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.09sec/60°@8.40V	**Ball Bearing**	2BB

KST

X08 Plus V6.0 || Coreless DC Motor || Dual Ball Bearing || Programmable

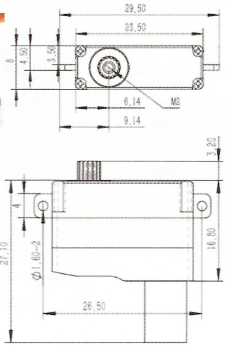


X08 Plus



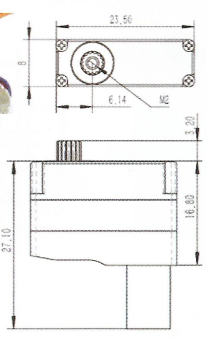


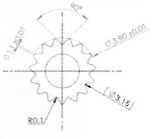
X08H Plus





X08N Plu s



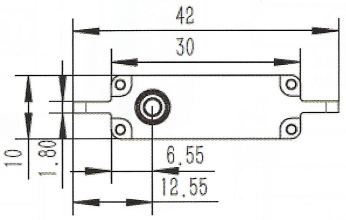


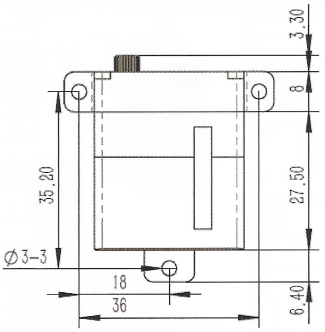
4mm15T
Output Shaft
Spline

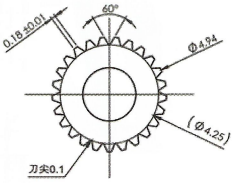
Rated Voltage	DC7.40V	**Case Dimensions**	23.5mm*8mm*16.8mm(±0.2mm)
Voltage Range	DC3.80V-8.40V	**Weight**	9g(±10%)
Torque	2.40Kgf.cm@3.80V	**Default Travel Angle**	±60°=120° Total Travel
	3.85Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	4.84Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	5.30Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.18sec/60°@3.80V	**Gear Set Material**	Hardened Steel
	0.15sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.09sec/60°@8.40V	**Ball Bearing**	2BB

X10 V8.0 || Coreless DC Motor || Dual Ball Bearing || Programmable









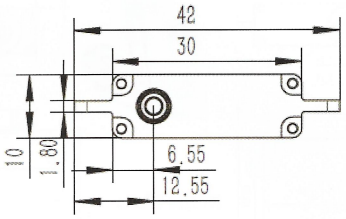
5mm25T
Output Shaft Spline

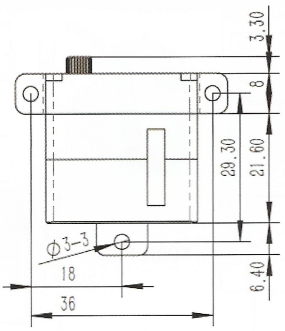
Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*35.5mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	28g(±10%)
Torque	6.20Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	7.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	9.50Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	10.8Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.16sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.14sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

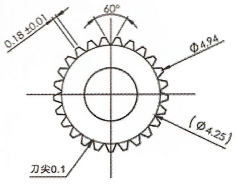
KST®

X10 Mini V8.0 || Coreless DC Motor || Dual Ball Bearing || Programmable









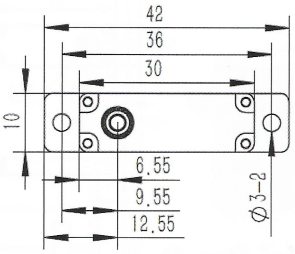
5mm25T
Output Shaft Spline

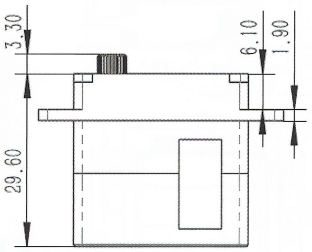
Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*29.6mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	23g(±10%)
Torque	4.50Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	5.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	6.80Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	7.50Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.16sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.14sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

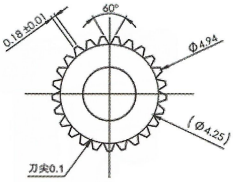
KST®

X10-710 V8.0 || Coreless DC Motor || Dual Ball Bearing || Programmable







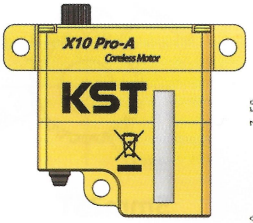


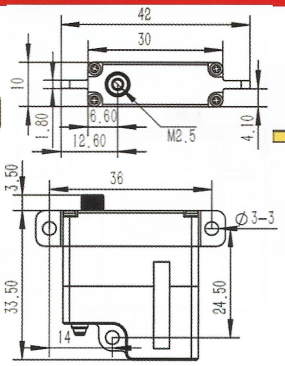
5mm25T
Output Shaft Spline

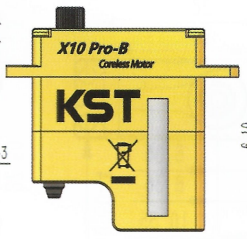
Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*29.6mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	23g(±10%)
Torque	4.50Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	5.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	6.80Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	7.50Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.16sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.14sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

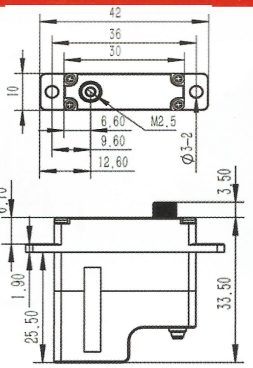
KST

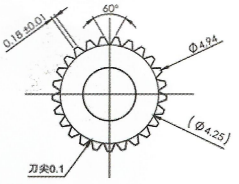
X10 Pro || Coreless DC Motor || Dual Ball Bearing || Programmable









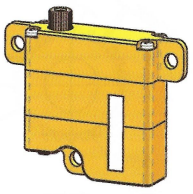


5mm25T
Output Shaft Spline

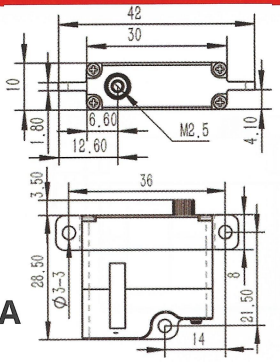
Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*33.5mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	25g(±10%)
Torque	6.50Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	8.50Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	10.5Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	11.5Kgf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.16sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.14sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.12sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.10sec/60°@8.40V	**Ball Bearing**	2BB

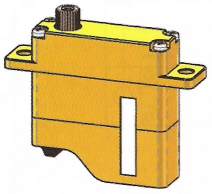
KST

X10 Mini Pro || Coreless DC Motor || Dual Ball Bearing || Programmable



X10Mini Pro-A





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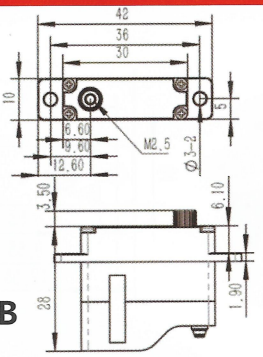
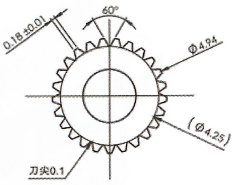




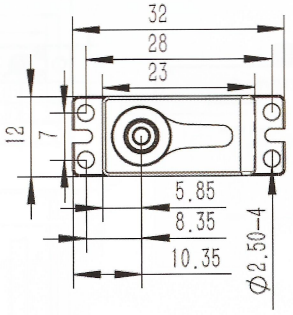
5mm25T
Output Shaft Spline

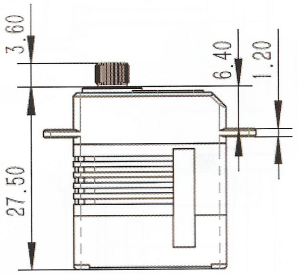
Rated Voltage	DC7.40V	**Case Dimensions**	30mm*10mm*28mm(±0.2mm)
Voltage Range	DC4.80V-8.40V	**Weight**	20g(±10%)
Torque	4.50Kgf.cm@4.80V	**Default Travel Angle**	±60°=120° Total Travel
	6.00Kgf.cm@6.00V	**Temperature Range**	-10℃.....+65℃
	7.20Kgf.cm@7.40V	**Case Material**	Aluminum Alloy
	8.00gf.cm@8.40V	**Motor Type**	Coreless DC Motor
Speed	0.13sec/60°@4.80V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@6.00V	**Position Sensor**	Potentiometer
	0.09sec/60°@7.40V	**Pulse Lengths**	900us-2100us
	0.08sec/60°@8.40V	**Ball Bearing**	2BB

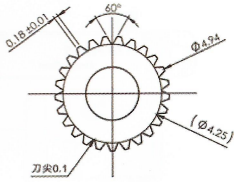
KST®

X12-508 || Coreless DC Motor || Dual Ball Bearing || Programmable









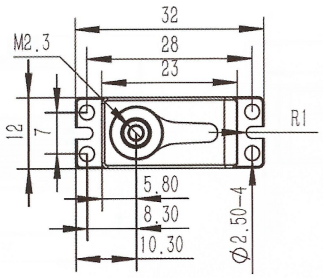
5mm25T
Output Shaft Spline

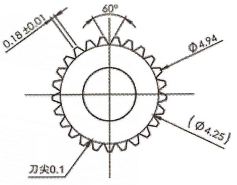
Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	4.20Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	5.20Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	6.20Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

KST®

X12-708 || Brushless DC Motor || Dual Ball Bearing || Programmable







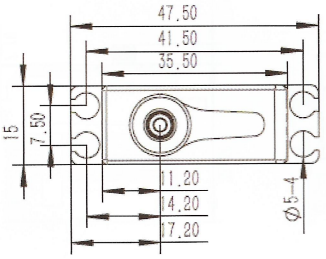
5mm25T
Output Shaft Spline

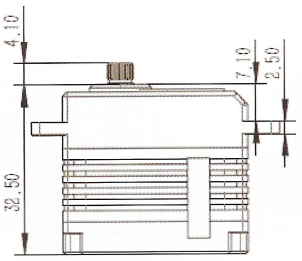
Rated Voltage	DC7.40V	**Case Dimensions**	23mm*12mm*27.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	20g(±10%)
Torque	6.30Kgf.cm@6.00V	**Default Travel Angle**	±60°=120° Total Travel
	8.60Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	9.30Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

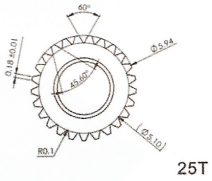
KST®

X15-755x || Coreless DC Motor || Dual Ball Bearing || Programmable









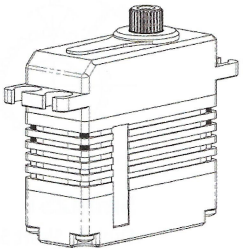
25T

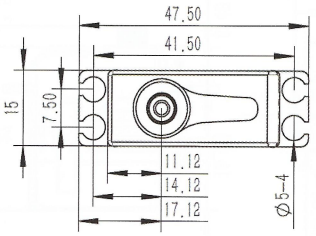
6mm25T
Output Shaft Spline

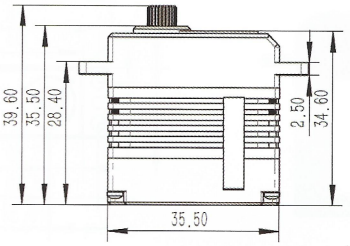
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	7.20Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	9.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	10.2Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.06sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.05sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.04sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

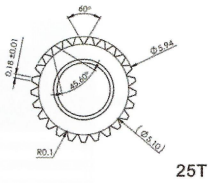
KST®

X15-855x || Brushless DC Motor || Dual Ball Bearing || Programmable









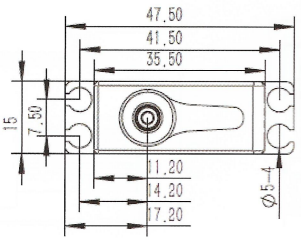
6mm25T
Output Shaft Spline

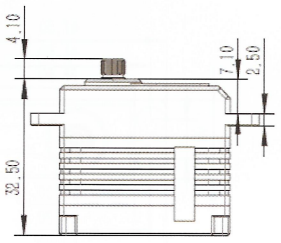
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*35.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	45g(±10%)
Torque	10.0Kgf.cm@6.00V	**Working Frequency**	760us/560Hz
	13.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	15.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.07sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.06sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.05sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	450us-1050us	**Ball Bearing**	2BB

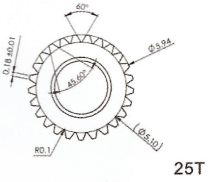
KST

X15-908 || Coreless DC Motor || Dual Ball Bearing || Programmable









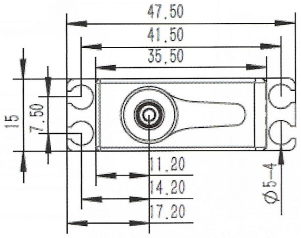
6mm25T
Output Shaft Spline

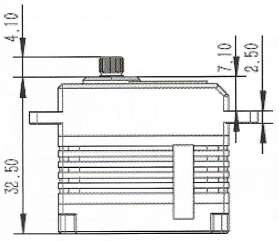
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	6.50Kgf.cm@6.00V	**Default Travel Angle**	±60° = 120° Total Travel
	8.00Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	9.20Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

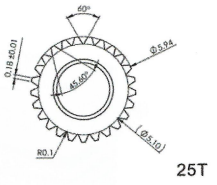
KST

X15-1208 || Coreless DC Motor || Dual Ball Bearing || Programmable







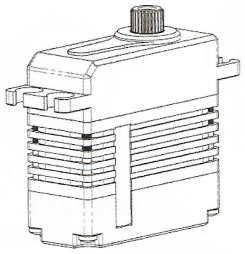


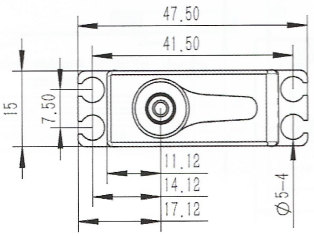
6mm25T
Output Shaft Spline

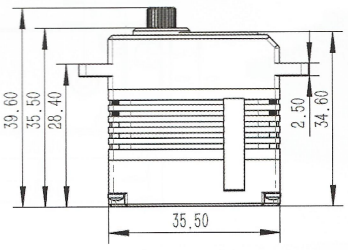
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*32.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	40g(±10%)
Torque	9.80Kgf.cm@6.00V	**Default Travel Angle**	±60° = 120° Total Travel
	12.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	13.5Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.10sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

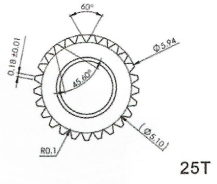
KST®

X15-1809 || Brushless DC Motor || Dual Ball Bearing || Programmable







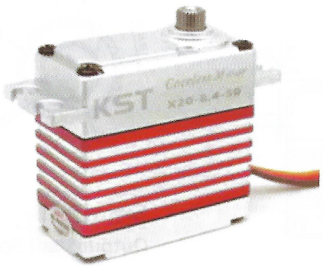


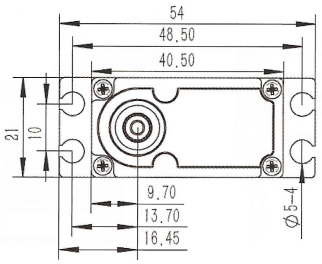
6mm25T
Output Shaft Spline

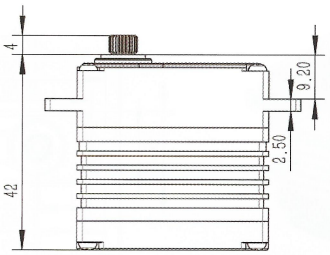
Rated Voltage	DC7.40V	**Case Dimensions**	35.5mm*15mm*35.5mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	45g(±10%)
Torque	18.0Kgf.cm@6.00V	**Default Travel Angle**	±60° = 120° Total Travel
	22.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	24.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.09sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.08sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.07sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

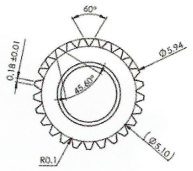
KST®

X20-8.4-50 || Coreless DC Motor || Dual Ball Bearing || Programmable







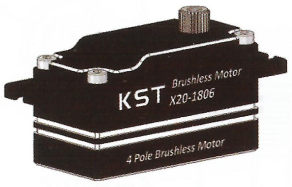


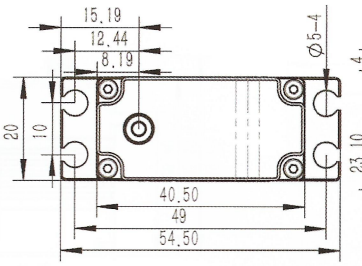
6mm25T
Output Shaft Spline

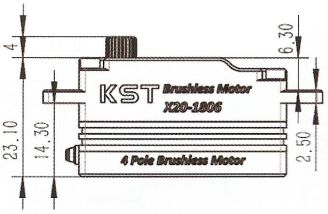
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*21mm*42mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	78g(±10%)
Torque	38.0Kgf.cm@6.00V	**Default Travel Angle**	±60° = 120° Total Travel
	42.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	45.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.20sec/60°@6.00V	**Motor Type**	Coreless DC Motor
	0.17sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.15sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

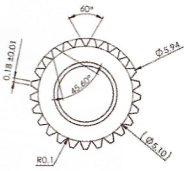
KST

X20-1806 || 4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

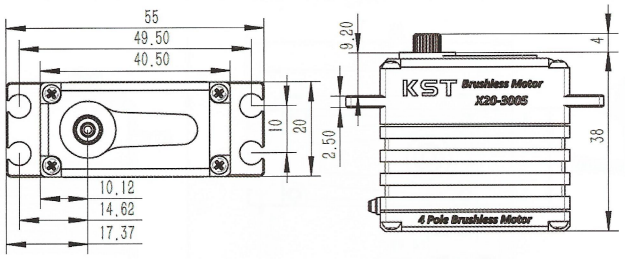
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*23.1mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	50g(±10%)
Torque	14.0Kgf.cm@6.00V	**Default Travel Angle**	±100° = 200° Total Travel
	16.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	18.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.08sec/60°@6.00V	**Motor Type**	4 Pole Brushless DC Motor
	0.07sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.06sec/60°@8.40V	**Position Sensor**	Potentiometer
Start Current	4.0A@6.00V	**Ball Bearing**	2BB
	4.8A@7.40V	**Working Frequency**	1520us/333Hz
	5.8A@8.40V	**Pulse Lengths**	500us-2500us

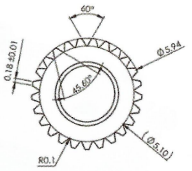
KST

X20-3005

4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable







6mm25T
Output Shaft Spline

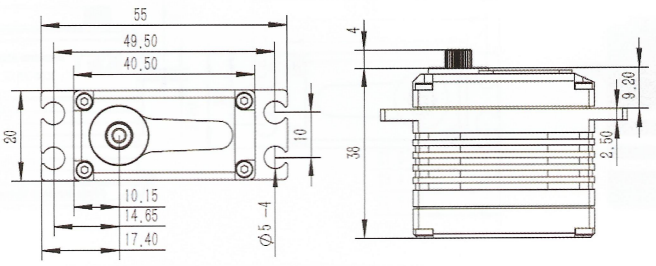
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	24.0Kgf.cm@6.00V	**Default Travel Angle**	±100° = 200° Total Travel
	30.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	32.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.067sec/60°@6.00V	**Motor Type**	4 Pole Brushless DC Motor
	0.052sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.047sec/60°@8.40V	**Position Sensor**	Potentiometer
Start Current	8.80A@6.00V	**Ball Bearing**	2BB
	10.8A@7.40V	**Working Frequency**	1520us/333Hz
	12.3A@8.40V	**Pulse Lengths**	500us-2500us

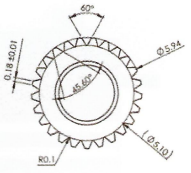
KST

X20-3012

Brushless DC Motor || Dual Ball Bearing || Programmable







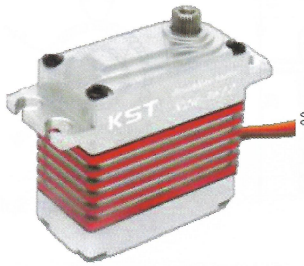
6mm25T
Output Shaft Spline

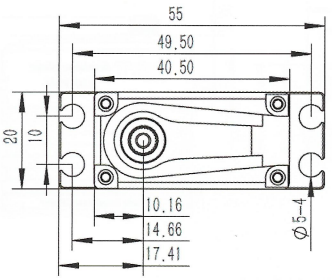
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	72g(±10%)
Torque	25.0Kgf.cm@6.00V	**Default Travel Angle**	±60° = 120° Total Travel
	30.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	35.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

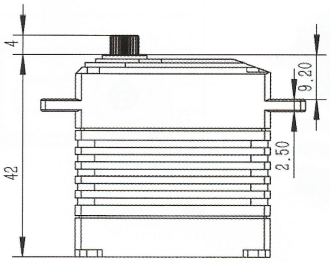
KST

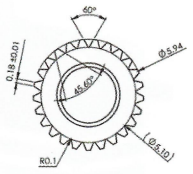
X20-3612

Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

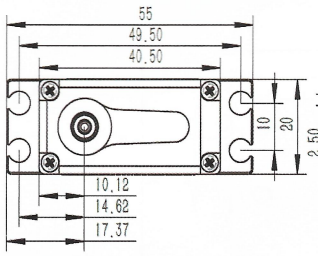
Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*42mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	80g(±10%)
Torque	28.0Kgf.cm@6.00V	**Default Travel Angle**	±60°= 120° Total Travel
	36.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	40.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.15sec/60°@6.00V	**Motor Type**	Brushless DC Motor
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Pulse Lengths	900us-2100us	**Ball Bearing**	2BB

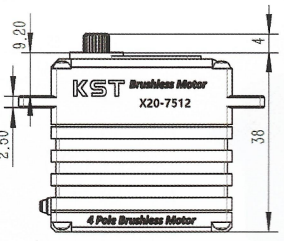
KST

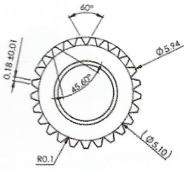
X20-7512

4 Pole Brushless DC Motor || Dual Ball Bearing || Programmable









6mm25T
Output Shaft Spline

Rated Voltage	DC7.40V	**Case Dimensions**	40.5mm*20mm*38mm(±0.2mm)
Voltage Range	DC6.00V-8.40V	**Weight**	70g(±10%)
Torque	65.0Kgf.cm@6.00V	**Default Travel Angle**	±60° = 100° Total Travel
	75.0Kgf.cm@7.40V	**Temperature Range**	-10℃.....+65℃
	82.0Kgf.cm@8.40V	**Case Material**	Aluminum Alloy
Speed	0.14sec/60°@6.00V	**Motor Type**	4 Pole Brushless DC Motor
	0.12sec/60°@7.40V	**Gear Set Material**	Hardened Steel
	0.11sec/60°@8.40V	**Position Sensor**	Potentiometer
Start Current	8.80A@6.0V	**Ball Bearing**	2BB
	10.8A@7.4V	**Working Frequency**	1520us/333Hz
	12.3A@8.4V	**Pulse Lengths**	900us-2100us

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Horn List

4-16mm Output Shaft Spline

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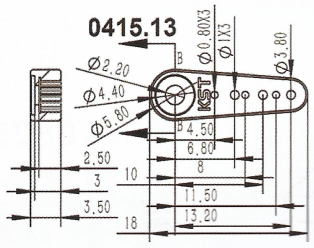
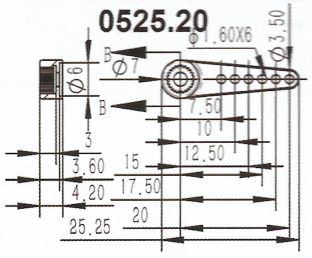
Horn List || 4MM-15T Output Shaft Spline || 5MM-25T Output Shaft Spline || 12MM-25T Output Shaft Spline || 16MM-25T Output Shaft Spline

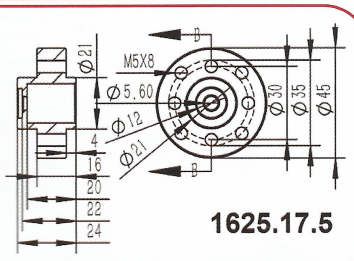
4MM-15T Output Shaft Spline



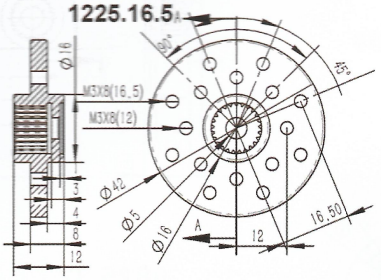
5MM-25T Output Shaft Spline

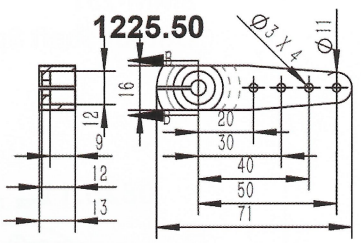


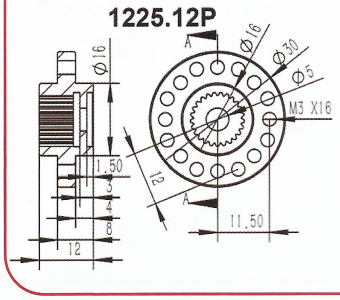
16MM-25T Output Shaft Spline

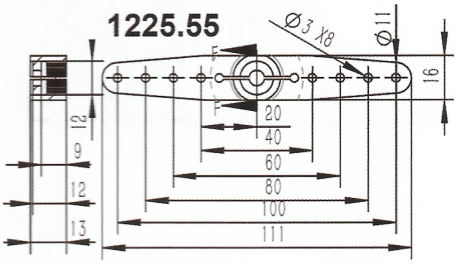


12MM-25T Output Shaft Spline









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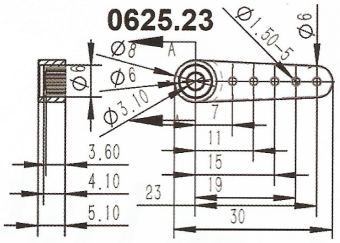
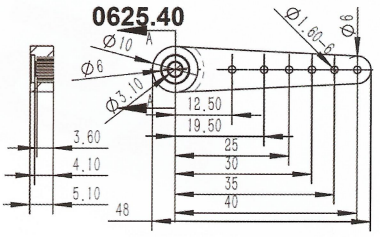
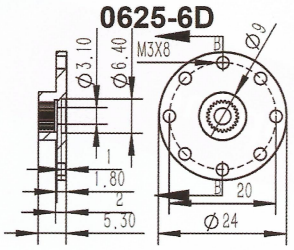
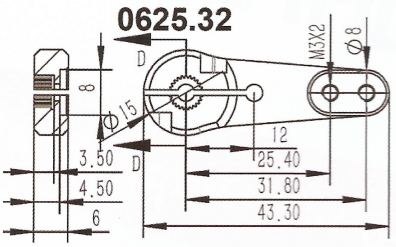
Horn List || 6MM-25T Output Shaft Spline

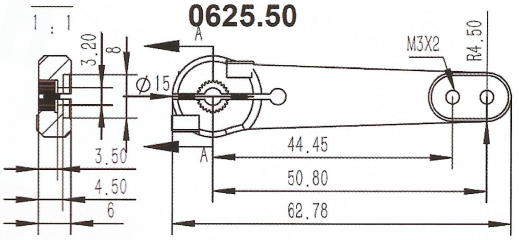
6MM-25T
Output Shaft Spline

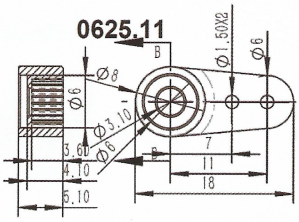


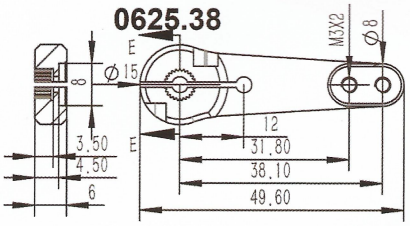


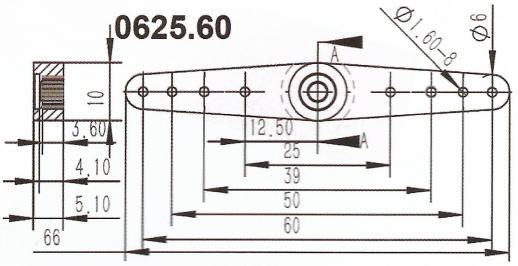












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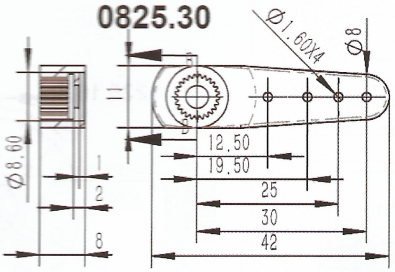
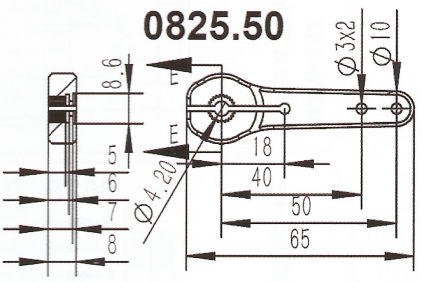
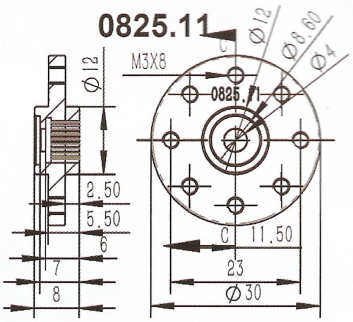
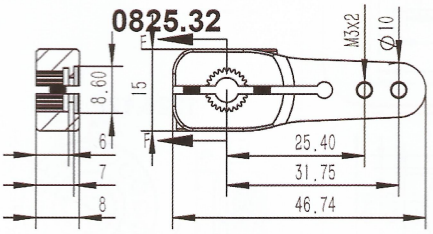
Horn List || 8MM-25T Output Shaft Spline

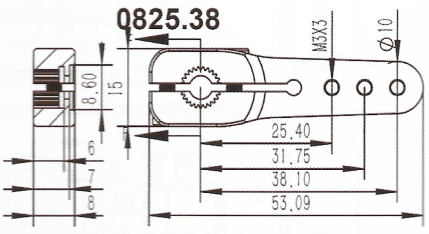
8MM-25T
Output Shaft Spline











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