

SORTIMENT SPECS & PRICING



CHASERVO®
CHAMPIONSHIP PERFORMANCE



www.chaservo.de

LV06

6 mm 1.9 kg LV Servo



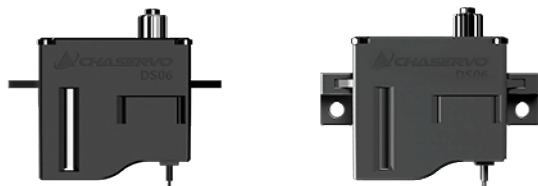
SERVO DATA

⚙ 15T, 4mm

Dimensions	19 mm x 6 mm x 18.5 mm 0.75 in x 0.24 in x 0.73 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 4.2 V	
Voltage Range	DC 3.3 – 5.0 V	
Holding Torque	1.0 kg-cm @ 3.3 V 1.45 kg-cm @ 4.2 V 1.9 kg-cm @ 5.0 V	13.89 oz-in @ 3.3 V 20.14 oz-in @ 4.2 V 26.39 oz-in @ 5.0 V
Output Torque	1.0 kg-cm @ 3.3 V 1.3 kg-cm @ 4.2 V 1.7 kg-cm @ 5.0 V	13.88 oz-in @ 3.3 V 18.05 oz-in @ 4.2 V 23.61 oz-in @ 5.0 V
No-load Speed	0.077sec/60° @ 3.3 V 0.066sec/60° @ 4.2 V 0.055sec/60° @ 5.0 V	
Max. Current @ Holding torque	0.39 A @ 3.3 V 0.64 A @ 4.2 V 0.79 A @ 5.0 V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs/20 KHz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

DS06

7.4 mm 2 kg DS Servo



SERVO DATA

⚙ 15T, 4mm

Dimensions	20 mm x 7.4 mm x 18.7 mm 0.78 in x 0.29 in x 0.74 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	0.90 kg·cm @ 3.5V 1.65 kg·cm @ 6.0V 2.00 kg·cm @ 8.4V	12.49 oz-in @ 3.5V 22.91 oz-in @ 6.0V 27.77 oz-in @ 8.4V
Output Torque	0.8 kg·cm @ 3.5V 1.5 kg·cm @ 6.0V 1.8 kg·cm @ 8.4V	11.11 oz-in @ 3.5V 20.83 oz-in @ 6.0V 24.99 oz-in @ 8.4V
No-load Speed	0.12sec/60° @ 3.8V 0.08sec/60° @ 6.0V 0.07sec/60° @ 8.4V	
Max. Current @ Holding torque	0.30 A @ 3.5V 0.58 A @ 6.0V 0.67 A @ 8.4V	
Case Material	High Quality Technopolymer	
Gear Set Material	Hardened Steel + Plastic	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Hollow Cup DC Motor	
Working Frequency	1520 µs/20KHz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

DS09

9 mm 9 kg DS Servo



SERVO DATA

⚙ 25T, 5mm

Dimensions	23.5 mm x 9 mm x 27.5 mm 0.93 in x 0.35 in x 1.08 in	
Weight	12 g	0.42 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	7.0 kg·cm @ 6.0V 8.0 kg·cm @ 7.4V 9.0 kg·cm @ 8.4V	97.21 oz-in @ 6.0V 111.09 oz-in @ 7.4V 124.98 oz-in @ 8.4V
Output Torque	5.0 kg·cm @ 6.0V 6.0 kg·cm @ 7.4V 6.5 kg·cm @ 8.4V	69.43 oz-in @ 6.0V 83.32 oz-in @ 7.4V 90.27 oz-in @ 8.4V
No-load Speed	0.13sec/60° @ 6.0V 0.11sec/60° @ 7.4V 0.10sec/60° @ 8.4V	
Max. Current @ Holding torque	0.90 A @ 6.0V 1.15 A @ 7.4V 1.25 A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel + Brass	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Hollow Cup DC Motor	
Working Frequency	1520 µs/20KHz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

DS115

11.5 mm 6 kg DS Servo



SERVO DATA

⚙ 25T, 5mm

Dimensions	23 mm x 11.5 mm x 24.5 mm 0.90 in x 0.45 in x 0.96 in	
Weight	15 g	0.52 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.5 – 9.0V	
Holding Torque	3.6 kg·cm @ 4.8V 5.5 kg·cm @ 7.4V 6.0 kg·cm @ 8.4V	49.99 oz·in @ 4.8V 76.38 oz·in @ 7.4V 83.32 oz·in @ 8.4V
Output Torque	3.24 kg·cm @ 4.8V 4.95 kg·cm @ 7.4V 5.40 kg·cm @ 8.4V	44.99 oz·in @ 4.8V 68.74 oz·in @ 7.4V 74.99 oz·in @ 8.4V
No-load Speed	0.13sec/60° @ 4.8V 0.09sec/60° @ 7.4V 0.08sec/60° @ 8.4V	
Max. Current @ Holding torque	0.95A @ 4.8V 1.35A @ 7.4V 1.60A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Metal Gear	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

DS165

16.5 mm 9 kg DS Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	32 mm x 16.5 mm x 26.5 mm 1.25 in x 0.64 in x 1.04 in	
Weight	36 g	1.26 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.5 – 9.0V	
Holding Torque	5.4 kg·cm @ 4.8V 7.8 kg·cm @ 7.4V 9.0 kg·cm @ 8.4V	74.99 oz·in @ 4.8V 108.32 oz·in @ 7.4V 124.98 oz·in @ 8.4V
Output Torque	4.86 kg·cm @ 4.8V 7.02 kg·cm @ 7.4V 8.10 kg·cm @ 8.4V	67.49 oz·in @ 4.8V 97.48 oz·in @ 7.4V 112.48 oz·in @ 8.4V
No-load Speed	0.088sec/60° @ 4.8V 0.059sec/60° @ 7.4V 0.055sec/60° @ 8.4V	
Max. Current @ Holding torque	2.20A @ 6.0V 3.25A @ 7.4V 3.65A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Contactless / Hall sensor	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500µs – 2500µs	
Programmable	Yes	

DS20

20 mm 26 kg DS Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	40 mm x 20 mm x 38 mm 1.57 in x 0.78 in x 1.49 in	
Weight	64 g	2.25 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.0 – 9.0V	
Holding Torque	20.0 kg·cm @ 6.0V 24.0 kg·cm @ 7.4V 26.0 kg·cm @ 8.4V	227.75 oz-in @ 6.0V 333.29 oz-in @ 7.4V 361.07 oz-in @ 8.4V
Output Torque	17.0 kg·cm @ 6.0V 20.4 kg·cm @ 7.4V 22.1 kg·cm @ 8.4V	236.08 oz-in @ 6.0V 283.30 oz-in @ 7.4V 306.91 oz-in @ 8.4V
No-load Speed	0.11sec/60° @ 6.0V 0.09sec/60° @ 7.4V 0.08sec/60° @ 8.4V	
Max. Current @ Holding torque	5.82 A @ 6.0V 6.25 A @ 7.4V 6.45 A @ 8.4V	
Case Material	High Quality Technopolymer and Aluminium	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV06

6 mm 2.65 kg HV Servo



SERVO DATA

⚙ 15T, 4mm

Dimensions	19 mm x 6 mm x 18.5 mm 0.75 in x 0.24 in x 0.73 in	
Weight	6.1 g	0.21 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	1.65 kg·cm @ 6.0V 2.2 kg·cm @ 7.4V 2.65 kg·cm @ 8.4V	22.91 oz-in @ 6.0V 30.55 oz-in @ 7.4V 36.80 oz-in @ 8.4V
Output Torque	1.5 kg·cm @ 6.0V 2.0 kg·cm @ 7.4V 2.2 kg·cm @ 8.4V	20.83 oz-in @ 6.0V 27.77 oz-in @ 7.4V 30.55 oz-in @ 8.4V
No-load Speed	0.07sec/60° @ 6.0V 0.06sec/60° @ 7.4V 0.05sec/60° @ 8.4V	
Max. Current @ Holding torque	0.61 A @ 6.0V 0.63 A @ 7.4V 0.67 A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 20 KHz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV75

7.5 mm 6.5 kg HV Servo



SERVO DATA

⚙ 15T, 4mm

Dimensions	23 x 7.5 x 27.5 mm 0.9 x 0.29 x 1.08 in	
Weight	11 g	0.38 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.5 – 8.4V	
Holding Torque	4.5 kg·cm @ 6.0V 6.0 kg·cm @ 7.4V 6.5 kg·cm @ 8.4V	62.5 oz-in @ 6.0V 83.3 oz-in @ 7.4V 90.2 oz-in @ 8.4V
Output Torque	3.0 kg·cm @ 6.0V 4.0 kg·cm @ 7.4V 4.5 kg·cm @ 8.4V	41.6 oz-in @ 6.0V 55.5 oz-in @ 7.4V 62.5 oz-in @ 8.4V
No-load Speed	0.13sec/60° @ 6.0V 0.10sec/60° @ 7.4V 0.09sec/60° @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV85

8.5 mm 9.8 kg HV Servo



SERVO DATA

⚙ 25T, 5mm

Dimensions	24 mm x 8.5 mm x 26.5 mm 0.95 in x 0.33 in x 1.04 in	
Weight	14 g	0.49 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 3.3 – 9.0V	
Holding Torque	7.2 kg·cm @ 6.0V 9.0 kg·cm @ 7.4V 9.8 kg·cm @ 8.4V	99.99 oz-in @ 6.0V 124.99 oz-in @ 7.4V 136.10 oz-in @ 8.4V
Output Torque	6.5 kg·cm @ 6.0V 8.2 kg·cm @ 7.4V 8.9 kg·cm @ 8.4V	90.27 oz-in @ 6.0V 113.88 oz-in @ 7.4V 123.59 oz-in @ 8.4V
No-load Speed	0.16sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.11sec/60° @ 8.4V	
Max. Current @ Holding torque	0.86 A @ 6.0V 1.08 A @ 7.4V 1.35 A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

HV95

9.5 mm 11.5 kg HV Servo



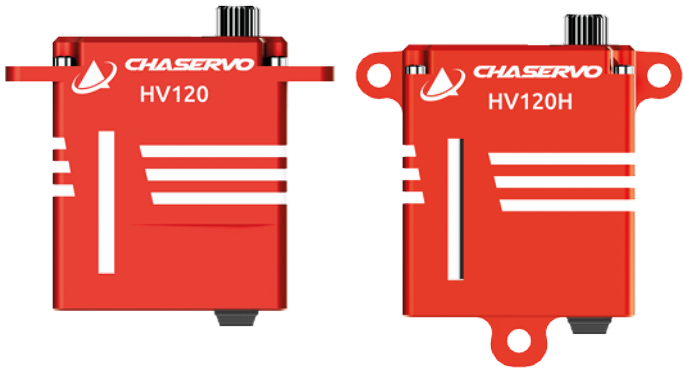
SERVO DATA

25T, 6mm

Dimensions	30 mm x 9.5 mm x 33.5 mm 1.18 in x 0.37 in x 1.31 in	
Weight	21.7 g	0.76 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.8 – 8.4V	
Holding Torque	8.5 kg·cm @ 6.0V 10.5 kg·cm @ 7.4V 11.5 kg·cm @ 8.4V	118.0 oz·in @ 6.0V 145.8 oz·in @ 7.4V 159.7 oz·in @ 8.4V
Output Torque	7.5 kg·cm @ 6.0V 9.3 kg·cm @ 7.4V 10.2 kg·cm @ 8.4V	104.1 oz·in @ 6.0V 129.1 oz·in @ 7.4V 141.6 oz·in @ 8.4V
No-load Speed	0.17sec/60° @ 6.0V 0.15sec/60° @ 7.4V 0.12sec/60° @ 8.4V	
Max. Current @ Holding torque	1.16A @ 6.0V 1.32A @ 7.4V 1.58A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520µs/333Hz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

HV120

12 mm 28 kg HV Servo



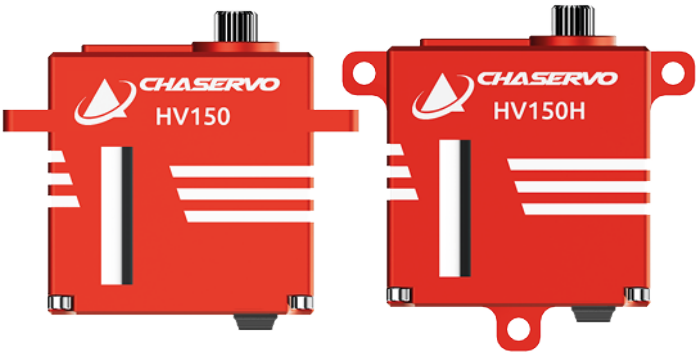
SERVO DATA

25T, 6mm

Dimensions	30 x 12 x 30 mm 1.18 x 0.47 x 1.18 in	
Weight	37 g	1.30 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.8 – 8.4V	
Holding Torque	18 kg·cm @ 4.8V 22 kg·cm @ 6.0V 25 kg·cm @ 7.4V 28 kg·cm @ 8.4V	249.97 oz·in @ 4.8V 305.52 oz·in @ 6.0V 347.18 oz·in @ 7.4V 388.84 oz·in @ 8.4V
Output Torque	10 kg·cm @ 4.8V 12 kg·cm @ 6.0V 15 kg·cm @ 7.4V 18 kg·cm @ 8.4V	138.87 oz·in @ 4.8V 166.64 oz·in @ 6.0V 208.31 oz·in @ 7.4V 249.97 oz·in @ 8.4V
No-load Speed	0.16sec/60° @ 4.8V 0.13sec/60° @ 6.0V 0.11sec/60° @ 7.4V 0.09sec/60° @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Contactless	
Motor Type	4 Pole Brushless	
Working Frequency	1520µs/333Hz	
Pulse Range	500µs – 2500µs	
Programmable	Yes	

HV150

15 mm 33 kg HV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	35.5 x 15 x 35.5 mm 1.31 x 0.59 x 1.31 in	
Weight	51 g	1.79 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.8 – 8.4V	
Holding Torque	20 kg-cm @ 4.8V 25 kg-cm @ 6.0V 30 kg-cm @ 7.4V 33 kg-cm @ 8.4V	277.74 oz-in @ 4.8V 347.18 oz-in @ 6.0V 416.62 oz-in @ 7.4V 458.28 oz-in @ 8.4V
Output Torque	12 kg-cm @ 4.8V 15 kg-cm @ 6.0V 18 kg-cm @ 7.4V 20 kg-cm @ 8.4V	166.64 oz-in @ 4.8V 208.31 oz-in @ 6.0V 249.97 oz-in @ 7.4V 277.74 oz-in @ 8.4V
No-load Speed	0.15sec/60° @ 4.8V 0.12sec/60° @ 6.0V 0.10sec/60° @ 7.4V 0.09sec/60° @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500 µs – 2500 µs	
Programmable	Yes	

HV150S

15 mm 16 kg HV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	35.5 x 15 x 35.5 mm 1.31 x 0.59 x 1.31 in	
Weight	45 g	1.58 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 4.8 – 8.4V	
Holding Torque	10.0 kg-cm @ 4.8V 12.5 kg-cm @ 6.0V 15.0 kg-cm @ 7.4V 16.5 kg-cm @ 8.4V	138.8 oz-in @ 4.8V 173.5 oz-in @ 6.0V 208.3 oz-in @ 7.4V 229.1 oz-in @ 8.4V
Output Torque	6.0 kg-cm @ 4.8V 7.5 kg-cm @ 6.0V 9.0 kg-cm @ 7.4V 10 kg-cm @ 8.4V	83.3 oz-in @ 4.8V 104.1 oz-in @ 6.0V 124.9 oz-in @ 7.4V 138.8 oz-in @ 8.4V
No-load Speed	0.079sec/60° @ 4.8V 0.061sec/60° @ 6.0V 0.050sec/60° @ 7.4V 0.043sec/60° @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Brushless	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2500 µs	
Programmable	Yes	

HV3512

20 mm 40 kg HV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	40.5 mm x 20 mm x 23.1 mm 1.59 in x 0.79 in x 0.91 in	
Weight	56 g	1.98 oz
Rated Voltage	DC 7.4 V	
Voltage Range	DC 4.0 V – 9.0 V	
Holding Torque	30 kg·cm @ 6.0 V 35 kg·cm @ 7.4 V 40 kg·cm @ 8.4 V	416.62 oz·in @ 6.0 V 486.06 oz·in @ 7.4 V 555.49 oz·in @ 8.4 V
Output Torque	26.7 kg·cm @ 6.0 V 30.2 kg·cm @ 7.4 V 35.0 kg·cm @ 8.4 V	370.79 oz·in @ 6.0 V 419.39 oz·in @ 7.4 V 486.05 oz·in @ 8.4 V
No-load Speed	0.14sec/60° @ 6.0 V 0.12sec/60° @ 7.4 V 0.11sec/60° @ 8.4 V	
Max. Current @ Holding torque	4.0 A @ 6.0 V 4.8 A @ 7.4 V 5.8 A @ 8.4 V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	500 µs – 2500 µs	
Programmable	Yes	

HV4613

20 mm 50 kg HV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	40.5 x 20 x 40 mm 1.59 x 0.78 x 1.57 in	
Weight	78 g	3.06 oz
Rated Voltage	DC 7.4 V	
Voltage Range	DC 4.0 – 8.4 V	
Holding Torque	32 kg·cm @ 4.8 V 40 kg·cm @ 6.0 V 46 kg·cm @ 7.4 V 50 kg·cm @ 8.4 V	444.4 oz·in @ 4.8 V 555.5 oz·in @ 6.0 V 638.8 oz·in @ 7.4 V 694.4 oz·in @ 8.4 V
Output Torque	20 kg·cm @ 4.8 V 25 kg·cm @ 6.0 V 30 kg·cm @ 7.4 V 33 kg·cm @ 8.4 V	277.7 oz·in @ 4.8 V 347.2 oz·in @ 6.0 V 416.6 oz·in @ 7.4 V 458.3 oz·in @ 8.4 V
No-load Speed	0.20 sec/60° @ 4.8 V 0.16 sec/60° @ 6.0 V 0.13 sec/60° @ 7.4 V 0.12 sec/60° @ 8.4 V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	Coreless DC	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

Vorläufige Abbildung – Änderungen am Design vorbehalten.
Preliminary image – design subject to change.

HV5013

17 mm 60 kg HV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	40.5 mm x 17 mm x 40 mm 1.59 x 0.67 x 1.57 in	
Weight	74 g	2.61 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 6.0 – 8.4V	
Holding Torque	40 kg·cm @ 6.0V 50 kg·cm @ 7.4V 60 kg·cm @ 8.4V	555.49 oz-in @ 6.0V 694.36 oz-in @ 7.4V 833.24 oz-in @ 8.4V
Output Torque	34 kg·cm @ 6.0V 42.5 kg·cm @ 7.4V 51 kg·cm @ 8.4V	472.17 oz-in @ 6.0V 590.21 oz-in @ 7.4V 708.26 oz-in @ 8.4V
No-load Speed	0.16sec/60° @ 6.0V 0.13sec/60° @ 7.4V 0.11sec/60° @ 8.4V	
Max. Current @ Holding torque	8.5A @ 6.0V 10.3A @ 7.4V 11.8A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520µs/333Hz	
Pulse Range	900µs – 2100µs	
Programmable	Yes	

HV7010

20 mm 70 kg HV Servo



SERVO DATA

⚙ 25T, 8mm

Dimensions	40 mm x 20 mm x 40 mm 1.57 x 0.78 x 1.57 in	
Weight	87 g	3.06 oz
Rated Voltage	DC 7.4V	
Voltage Range	DC 6.0 – 8.4V	
Holding Torque	50 kg·cm @ 6.0V 60 kg·cm @ 7.4V 70 kg·cm @ 8.4V	694.36 oz-in @ 6.0V 833.24 oz-in @ 7.4V 972.11 oz-in @ 8.4V
Output Torque	45 kg·cm @ 6.0V 54 kg·cm @ 7.4V 63 kg·cm @ 8.4V	624.93 oz-in @ 6.0V 749.91 oz-in @ 7.4V 874.90 oz-in @ 8.4V
No-load Speed	0.15sec/60° @ 6.0V 0.12sec/60° @ 7.4V 0.10sec/60° @ 8.4V	
Max. Current @ Holding torque	6.25A @ 6.0V 7.52A @ 7.4V 8.38A @ 8.4V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	6 x Ball Bearing	
Position Sensor	Contactless / Hall sensor	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520µs/333Hz	
Pulse Range	500µs – 2500µs	
Programmable	Yes	

SV7511

17 mm 24V 80 kg SV Servo



SERVO DATA

⚙ 25T, 6mm

Dimensions	40.5 mm x 17 mm x 40 mm 1.59 x 0.67 x 1.57in	
Weight	74 g	2.61 oz
Rated Voltage	DC 24V	
Voltage Range	DC 22 – 28V	
Holding Torque	65 kg-cm @ 22 V 75 kg-cm @ 24 V 80 kg-cm @ 28 V	902.68 oz-in @ 22 V 1041.55 oz-in @ 24 V 1110.99 oz-in @ 28 V
Output Torque	58.5 kg-cm @ 22 V 67.5 kg-cm @ 24 V 72 kg-cm @ 28 V	812.41 oz-in @ 22 V 937.39 oz-in @ 24 V 999.89 oz-in @ 28 V
No-load Speed	0.12sec/60° @ 22V 0.11sec/60° @ 24V 0.10sec/60° @ 28V	
Max. Current @ Holding torque	4.95A @ 22V 5.25A @ 24V 5.85A @ 28V	
Case Material	Aluminium Alloy	
Gear Set Material	Hardened Steel	
Ball Bearing	2 x Ball Bearing	
Position Sensor	Potentiometer	
Motor Type	4 Pole Brushless Motor	
Working Frequency	1520 µs / 333 Hz	
Pulse Range	900 µs – 2100 µs	
Programmable	Yes	

COMPETITION SHV

PowerBox / Chaservo



SHV DATA

Dimensions	118x71x19 mm 4.64x2.79x0.74 in
Weight	137 g / 4,83 oz
Voltage Range	DC 10.0 – 35V
Power supply	3-8s LiPo / Lilon
Channels	26
Servo outputs, programmable	22

In cooperation with PowerBox Systems, we have developed a 24V (6S-LiPo) dual power supply. Perfectly matched to the use of our SV servos in model aircraft.

- SHV technology up to 35V input voltage
- 40A max. current load for all SHV servo outputs
- Regulated 8.4V/10A for receiver, peripherals and 4 servos
- Consistent dual design of the power electronics
- 22 channels
- Optional UAV version
- Powerful battery backer with high continuous load capacity
- sunlight-readable 2.4" TFT display
- bilingual menu navigation
- Servo matching for all 22 outputs
- Latest iGyro technology integrated, with the iGyroSAT as a gyro sensor
- Extremely simple programming thanks to graphic display of the menus
- optionally with GPS III for speed-dependent gyro compensation
- Telemetry data for PowerBox P²BUS, Futaba S.BUS2, Jeti Ex-BUS, Spektrum SRXL2, Multiplex M-Link, JR X-BUS and Graupner HoTT
- Transmission of battery, receiver and GPS* data
- Almost complete operability from the transmitter for PowerBox and Jeti
- Adjustable servo frame rate: 10ms, 12ms, 14ms, 16ms, 18ms
- Suppression of servo return currents
- state-of-the-art 32-bit microprocessor for fast and precise signal processing

0415.13

13 mm Aluminium Arm



ARM DATA

⚙ 15T, 4mm

Dimensions	13 mm x 1,5 mm
Output shaft	15 teeth, 4 mm diameter
Hole spacing from center (mm / in)	4.5 - 8 - 11.5 mm, 6.8 - 10.0 - 13.20 mm 0.18" - 0.31" - 0.45", 0.27" - 0.39" - 0.52"
Drilled hole/Thread	3x 0.8mm, 3x 1mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0625.11

11 mm Aluminium Arm



ARM DATA

⚙ 25T, 6mm

Dimensions	11 mm x 2,5 mm
Output shaft	25 teeth, 6 mm diameter
Hole spacing from center (mm / in)	7.0 - 11.0 mm 0.28" - 0.43"
Drilled hole/Thread	1.6mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0525.20 / (RED)

20 mm Aluminium Arm



ARM DATA

⚙ 25T, 5mm

Dimensions	20 mm x 1,8 mm
Output shaft	25 teeth, 5 mm diameter
Hole spacing from center (mm / in)	7.5 - 10 - 12.5 - 15 - 17.5 - 20 mm 0.30" - 0.39" - 0.49" - 0.59" - 0.69" - 0.79"
Drilled hole/Thread	1.6 mm
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

25T-6B

38 mm Aluminium Arm



ARM DATA

⚙ 25T, 6mm

Dimensions	20 mm x 3 mm
Output shaft	25 teeth, 6 mm diameter
Hole spacing from center (mm / in)	16.25 - 20.25 mm 0.64" - 0.80"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0625.23

23 mm Aluminium Arm



ARM DATA ⚙ 25T, 6mm

Dimensions	32 mm x 2,5 mm
Output shaft	25 teeth, 6 mm diameter
Hole spacing from center (mm / in)	11.0 - 15.0 - 19.0 - 23.0 -30.0 mm 0.43" - 0.59" - 0.75" - 0.91" - 1.18"
Drilled hole/Thread	1.6mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0625.32

32 mm Aluminium Arm



ARM DATA ⚙ 25T, 6mm

Dimensions	38 mm x 4 mm
Output shaft	25 teeth, 6 mm diameter
Hole spacing from center (mm / in)	25.40 - 31.75 mm 1" - 1.25"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

25T-6C

25 mm Aluminium Arm



ARM DATA ⚙ 25T, 6mm

Dimensions	25 mm x 3 mm
Output shaft	25 teeth, 6 mm diameter
Hole spacing from center (mm / in)	18.50 - 21.50 - 24.50 mm 0.73" - 0.85" - 0.96"
Drilled hole/Thread	M2
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0625.38

38 mm Aluminium Arm



ARM DATA ⚙ 25T, 8mm

Dimensions	38 mm x 4 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	31.75 - 38.10 mm 1.25" - 1,5"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0625.50

50 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	50 mm x 4 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	44.45 - 50.80 mm 1.75" - 2"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0825.30

30 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	30 mm x 3 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	12.50 - 19.50 - 25 - 30 mm 0.49" - 0.77" - 0.98" - 1.18"
Drilled hole/Thread	1.6 mm
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

0625.40

40 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	40 mm x 3 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	12.50 - 19.50 - 25 - 30 - 35 - 40 mm 0.49" - 0.77" - 0.98" - 1.18" - 1.38" - 1.57"
Drilled hole/Thread	1.6 mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0825.32

32 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	32 mm x 4 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	25.40 - 31.75 mm 1" - 1.25"
Drilled hole/Thread	1.6 mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0825.50

50 mm Aluminium Arm



Not original size

ARM DATA

⚙ 25T, 8mm

Dimensions	50 mm x 5 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	40.0 - 50.0 mm 1.57" - 1.97"
Drilled hole/Thread	3 mm
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0825.SINGLE

50 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	50 mm x 3,5 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	25.40 - 31.75 - 38.10 - 44.45 - 50.80 mm 1" - 1.25" - 1,5" - 1.75" - 2"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

0825.38 / (Red)

38 mm Aluminium Arm



Not original size

ARM DATA

⚙ 25T, 8mm

Dimensions	38 mm x 4 mm
Output shaft	25 teeth, 8 mm diameter
Hole spacing from center (mm / in)	25.40 - 31.75 - 38.10 mm 1" - 1.25" - 1,5"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

0625.60 DOUBLE-ARM

2 x 30 mm Aluminium Arm



ARM DATA

⚙ 25T, 6mm

Dimensions	(2x) 30 mm x 8 mm
Output shaft	25 teeth, 6mm diameter
Hole spacing from center (mm / in)	2x 12.5 - 19.5 - 25.0 - 30.0 mm 2x 0.49" - 0.77" - 0.98" - 1.18"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL6061
Processing	CNC machined, Anodized, Laser engraving

0825 DOUBLE-ARM

2 x 50 mm Aluminium Arm



Not original size

ARM DATA

⚙ 25T, 8mm

Dimensions	(2 x) 50 mm x 3,5 mm
Output shaft	25 teeth, 8mm diameter
Hole spacing from center (mm / in)	2x 25.40 - 31.75 - 38.10 - 44.45 - 50.8 mm 2x 1" - 1.25" - 1.5" - 1.75" - 2"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

0825 OFFSET-DOUBLE-ARM

2 x 44,5 mm Aluminium Arm



Not original size

ARM DATA

⚙ 25T, 8mm

Dimensions	(2 x) 44,5 mm x 4 mm
Output shaft	25 teeth, 8mm diameter
Hole spacing from center (mm / in)	2x 31.75 - 38.10 - 44.45 mm 2x 1.25" - 1.5" - 1.75"
Drilled hole/Thread	M3
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

DISC 0825 (Red)

6 x 8 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

Dimensions	38 mm x 8 mm
Output shaft	25 teeth, 8mm diameter
Hole spacing from center (mm / in)	8 mm (16 mm bolt circle diameter) 0.315" (0.63" bolt circle diameter)
Drilled hole/Thread	6x M2
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

DISC 0825.11

8 x 11,5 mm Aluminium Arm



ARM DATA

⚙ 25T, 8mm

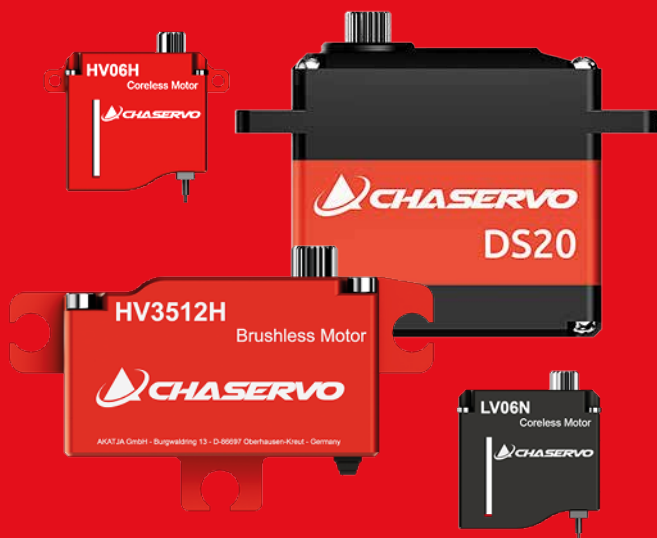
Dimensions	38 mm x 8 mm
Output shaft	25 teeth, 8mm diameter
Hole spacing from center (mm / in)	11,5mm (23mm bolt circle diameter) 0.453" (0.906" bolt circle diameter)
Drilled hole/Thread	8x M3
Aluminum alloy (material)	AL7075
Processing	CNC machined, Anodized, Laser engraving

SERVO PRICES

<i>LV - SERIES</i>		Gross price	RRP
LV06 LV06N LV06H	19 x 6 x 18.5 mm / 6.1 g 0.75 x 0.24 x 0.73 in / 0.21 oz	44.45 €	52.90 €
<i>DS - SERIES</i>			
DS06	20 x 7.4 x 18.7 mm / 6.1 g 0.78 x 0.29 x 0.74 in / 0.21 oz	27.65 €	32.90 €
DS09	23.5 x 9 x 27.5 mm / 12 g 0.93 x 0.35 x 1.08 in / 0.42 oz	29.33 €	34.90 €
DS115	23 x 11.5 x 24.5 mm / 15 g 0.90 x 0.45 x 0.96 in / 0.52 oz	25.13 €	29.90 €
DS165	32 x 16.5 x 26.5 mm / 36 g 1.25 x 0.64 x 1.04 in / 1.26 oz	50.34 €	59.90 €
DS20	40 x 20 x 38 mm / 64 g 1.57 x 0.78 x 1.49 in / 2.25 oz	46.13 €	54.90 €
<i>HV - SERIES</i>			
HV06 HV06N HV06H	19 x 6 x 18.5 mm / 6.1 g 0.75 x 0.24 x 0.73 in / 0.21 oz	44.45 €	52.90 €
HV75 HV75H	23 x 7.5 x 27.5 mm / 12 g 0.9 x 0.29 x 1.08 in / 0.42 oz	50.34 €	59.90 €
HV85 HV85H	24 x 8.5 x 26.5 mm / 14 g 0.95 x 0.33 x 1.04 in / 0.49 oz	50.34 €	59.90 €
HV95 HV95H	30 x 9.5 x 33.5 mm / 21.7 g 1.18 x 0.37 x 1.31 in / 0.76 oz	52.86 €	62.90 €
HV120 HV120H	30 x 12 x 30 mm / 37 g 1.18 x 0.47 x 1.18 in / 1.30 oz	83.95 €	99.90 €
HV150S	35.5 x 15 x 35.5 mm / 51 g 1.31 x 0.59 x 1.31 in / 1.79 oz	92.35 €	109.90 €
HV150 HV150H	35.5 x 15 x 35.5 mm / 51 g 1.31 x 0.59 x 1.31 in / 1.79 oz	92.35 €	109.90 €
HV3512 HV3512H	40.5 x 20 x 23.1 mm / 56 g 1.59 x 0.79 x 0.91 in / 1.98 oz	100.76 €	119.90 €
HV4613	40.5 x 20 x 40 mm / 81 g 1.59 x 0.78 x 1.57 in / 3.06 oz	71.39 €	84.90 €
HV5013	40.5 x 17 x 40 mm / 68 g 1.59 x 0.67 x 1.57 in / 2.39 oz	100.76 €	119.90 €
HV7010	40 x 20 x 40 mm / 87 g 1.57 x 0.78 x 1.57 in / 3.06 oz	142.77 €	169.90 €
<i>SV - SERIES</i>			
SV7511	40.5 x 17 x 40 mm / 74 g 1.59 x 0.67 x 1.57 in / 2.61 oz	193.19 €	229.90 €
<i>COMPETITION SHV</i>			
PowerBox Competition SHV		420,08 €	499.90 €

ARM PRICES

<i>SINGLE ARM</i>			Gross price	RRP
0415.13	15 Teeth, 4 mm Spline	13 mm Length	6.64 €	7.90 €
0625.11	25 Teeth, 6 mm Spline	11 mm Length	6.64 €	7.90 €
0525.20 Red	25 Teeth, 5 mm Spline	20 mm Length	7.48 €	8.90 €
0625.38	25 Teeth, 6 mm Spline	38 mm Length	7.48 €	8.90 €
0625.32	25 Teeth, 6 mm Spline	32 mm Length	7.48 €	8.90 €
25T-6C	25 Teeth, 6 mm Spline	Unit C Length	7.48 €	8.90 €
25T-6B	25 Teeth, 6 mm Spline	Unit B Length	7.48 €	8.90 €
25T-6A	25 Teeth, 6 mm Spline	Unit A Length	7.48 €	8.90 €
0625.23	25 Teeth, 6 mm Spline	23 mm Length	8.32 €	9.90 €
0525.20	25 Teeth, 5 mm Spline	20 mm Length	8.32 €	9.90 €
0625.50	25 Teeth, 6 mm Spline	50 mm Length	9.16 €	10.90 €
0625.40	25 Teeth, 6 mm Spline	40 mm Length	10.00 €	11.90 €
0825.38	25 Teeth, 8 mm Spline	38 mm Length	12.52 €	14.90 €
0825.32	25 Teeth, 8 mm Spline	32 mm Length	12.52 €	14.90 €
0825.30	25 Teeth, 8 mm Spline	30 mm Length	12.52 €	14.90 €
0825.Single	25 Teeth, 8 mm Spline	25 mm Length	14.20 €	16.90 €
0825.38 Red	25 Teeth, 8 mm Spline	38 mm Length	15.88 €	18.90 €
0825.50	25 Teeth, 8 mm Spline	50 mm Length	15.88 €	18.90 €
<i>DOUBLE ARM</i>				
0625.60	25 Teeth, 6 mm Spline	2 x 30 mm Length	13.36 €	15.90 €
0825 (offset-red)	25 Teeth, 8 mm Spline	2 x 44.5 mm L. Offset	15.88 €	18.90 €
0825	25 Teeth, 8 mm Spline	2 x 20 Length	15.88 €	18.90 €
<i>PLATE</i>				
Disc 0825.11	25 Teeth, 8 mm Spline	11 mm Length	10.00 €	11.90 €
Disc 0825 (Red)	25 Teeth, 8 mm Spline	8 mm Length	15.88 €	18.90 €



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Compact and very thin designs of our wing servos allow new technologies of thin wing profiles to be taken to a whole new level.

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Chaservos can also prove to be extremely precise in terms of running dynamics and positioning accuracy.

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