



2025



SERVOS

MULTIPLEX®

HITEC



- Pictograms
- Download servofinder

Page 3



HiTEC/MULTIPLEX

Servo series

Page 4-5



HiTEC/MULTIPLEX analogue servos

- HS • HRS • MS - series

Page 6-11



HiTEC digital servos

- HS-5XXXX - series

Page 12-15



HiTEC digital servos

- HS-7XXX • HSR - series

Page 15-16



HiTEC digital servos

- HSR • HSB - series

Page 16-18



HiTEC digital servos

- D • DB - series

Page 19-22



HiTEC digital servos

- MD - series

Page 22-23



HiTEC digital linear servos

- HLS12 - series

Page 24-25



MULTIPLEX digital servos

- MS - series

Page 26



- Servo sets
 - Servo accessories
 - Servo spare parts

Page 27



Downloads MULTIPLEX brochures

- Aircraft models • RC electronics

Page 28

• Type identification

YY-XXXXZZ

HS	= HiTEC Servo
HSB	= HiTEC Servo Brushless
HSG	= HiTEC Servo Gyro
HSR	= HiTEC Servo Robotic (Continuous Rotation)
HLS	= HiTEC Servo Linear
HS-M	= HiTEC Servo Magnetic Encoder
D	= HiTEC Servo 32 bit digital
DB	= HiTEC Servo 32 bit digital - Brushless
MD	= HiTEC Servo Magnetic Encoder -32 bit digital
MS	= MULTIPLEX Servo

YY-XXXXZZ

3 digits = analogue servos
The 3rd digit roughly indicates the servo class
0XX (sub)-micro servos < 13 mm width
1XX wing servo
2XX Compact servos 13 - 18 mm
3XX 20 mm low-cost series
4XX 20 mm standard

6XX 20 mm Premium
7XX Quarter-Scale (29 mm)
8XX Giant-Scale (30 mm)
4-digit = digital servos
5XXX are 1st generation digital servos
7XXX are 2nd generation digital servos with extended programming options
M before 7XXX Magnetic encoder servos without potentiometer

• Special features

YY-XXXXZZ

A	= (Advanced Gear) extra strong gear
BB	= Ball bearing
BH	= Ball bearing, up to 8,4V*
CRH	= Continuous Rotation
H	= in the 2nd position = High Voltage up to 8.4 V*
HB	= Carbonite® gearbox with ball bearing
HD	= (Heavy Duty) Karbonite® gearbox
HSB	= Brushless-motor
HSG	= (Yaw) gyro servo
HSR	= Robotic servo
HW	= strong plastic gearbox up to 8.4V*
M	= Magnetic encoder
MG	= Metal gearbox (always with ball bearing)
MH	= Metal gearbox, up to 8.4V*

MW	= Metal gearbox, 6.0V to 8.4V*
SG	= Steel gearbox (always with ball bearing)
SGT	= (Steel Gear Torque) Steel gearbox for high torque
SH	= Steel gearbox, up to 8.4 V
SHR	= (Steel HV Rudder) rudder servo
SHV	= Speed, up to 8.4V*
SW	= Steel gearbox, up to 8.4V*
TG	= Titanium gearbox (always with ball bearing))
TH	= Titanium gearbox, 6,0V up to 8.4 V
TW	= Titanium gearbox, bis 8.4V*
W	= Wide Voltage
WP	= waterproof to IP 67

* The max. operating voltage is only recommended for short-term use



Magnetic Encoder



100% Waterproof



4096 Resolution
4096 Steps



Wide voltage



Power saver

• Programming options

Analogue servos (HiTEC)

- Not programmable

D-series** and HSB-series

- Setting the centre and end points (180° function)
- Setting the direction of rotation (clockwise/counter-clockwise)
- Assigning a servo identification number
- Setting the dead zone (electronic 'play')
- Setting the speed (servo can be made slower)
- Setting the soft start (servo runs slowly to its neutral position when first switched on)
- Setting the fail-safe function
- Setting the Smart Sense function (prevents the servos from 'shaking' in the rest position)
- Setting the overload protection (servo becomes 'soft' if overloaded for too long, preventing it from burning out in the worst case)
- Reset to factory settings

**Some functions are only available with recent D-series servos.

5XXX and 7XXX series (HiTEC):

- Setting the centre and end points (180° function)
- Setting the direction of rotation (clockwise/counter-clockwise)
- Setting the dead zone (electronic 'play')
- Setting the speed (servo can be made slower)
- Setting the fail-safe function
- Setting the resolution
- Setting the overload protection (servo becomes 'soft' if overloaded for too long, this prevents burn-out in the worst case)
- Resetting to factory settings

You Tube MULTIPLEX TV
<http://www.youtube.com/multiplexmodellsport>

Which servo fits which model?

One of the most important questions that immediately arises when building a new model, is certainly the question of the right servos.

Is a 'simple' analogue servo sufficient or is a digital one necessary? What forces must the servo be able to withstand without any problems? etc. etc.

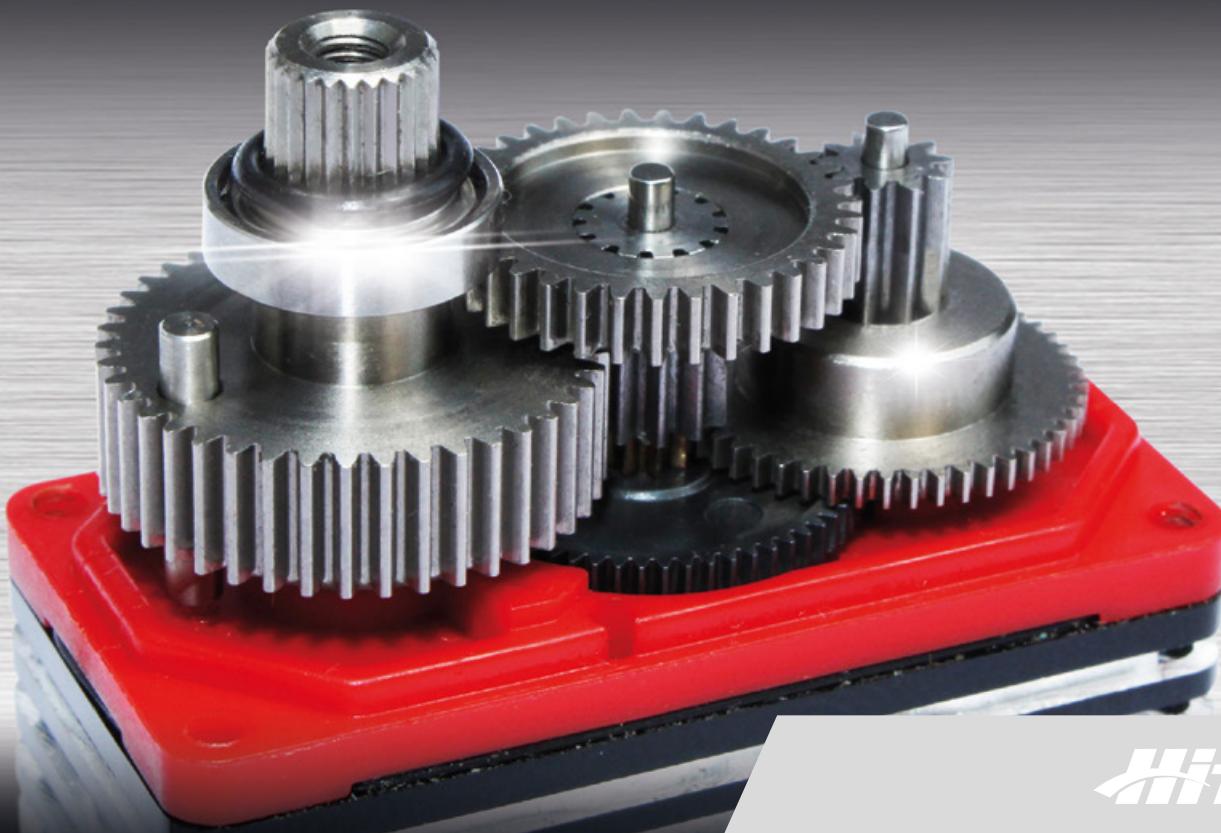
Experienced model pilots have compiled the 'Servo Finder' for you as an orientation aid! This is available free of charge on our homepage!

Servo finder here
download!

www.multiplex-rc.de



Servo finder



Servos - the 'muscles' of your model.

As with 'real' muscles, there are also servo specialists for power, speed or accuracy. HiTEC/MULTIPLEX offers a programme of the most varied servo types in different sizes, as analogue or digital servos, from inexpensive standard servos to 'power monster machines'. But they all have one thing in common. They all offer the highest quality from globally recognised brand manufacturers.

MULTIPLEX was the first manufacturer worldwide to produce digital servos from 1992, digital. Compared to conventional analogue servos, the motor in a digital servo is controlled with faster regulation and variable pulse width modulation.

As a result, the digital servo achieves more precise positioning accuracy at a higher positioning speed as well as more holding force and therefore smaller misalignment angles.

MULTIPLEX Modellsport GmbH & Co KG, based in Bretten, Germany, has been part of the South Korean HiTEC Group since 2002.

The products of Hitec RCD Korea, Inc. are used worldwide and are suitable for a wide variety of applications due to their diversity. areas of application.

In addition to meeting the highest demands in model sport, HiTEC servos also fulfil the industry standard for a wide variety of applications. With a holding force of up to 160 kg, waterproofness to IP67 standard or 360° rotation, HiTEC servos are up to any challenge.

The latest 32-bit MCU technology enables twice the resolution of the servo travel than before, allowing even finer and more precise control. In addition to digital, programmable servos, analogue servos are also available.

Our wide voltage series has an operating voltage between 4.8 and 8.4 volts. Some servos not only impress from the outside with their high-quality aluminium housing. Quality and the best workmanship are also workmanship is also a top priority.



ISO certified:

HiTEC RCD Korea Inc.



MULTIPLEX Modellsport
GmbH & Co.KG



4096
Resolution



The HiTEC/MULTIPLEX servo series

Series Analogue servos

HS-series

Analogue servos in the low-price range, equipped with brushed motors and a potentiometer for position detection.

HRS-series

Analogue robotic servos with continuous rotation function.

MS analogue servos from MULTIPLEX

Series Digital servos

HSB-series (brushless servos)

with powerful BLDC motors

HSR-series (servos with multi-turn)

with multi-turn and partly continuous rotation function.

D-series (digital servos)

with Anchor Engine or Brushed motor. The position is detected with the aid of a high-quality potentiometer.

MD-series (digital servos with Hall sensor)

with Anchor Engine or Brushed motor. Position detection with Hall sensor

DB-series (brushless servos)

with powerful BLDC motors. Position detection with high potentiometer

MDB-series (brushless servos with Hall sensor)

with powerful BLDC motors. Position detection with Hall sensors

MDR-series (digital servos with Hall sensor and multi-turn)

with multi-turn and partly continuous rotation function, with Anchor Engine or Brushed motor. Position detection with Hall sensor

HS-1XXX, HS-5XXX, HS-7XXX series (digital servos)

with Anchor Engine or Brushed motors and potentiometer for position position detection.

MS digital servos from MULTIPLEX

All servo types, technical data and further information can be found at www.multiplex-rc.de



ANALOG SERVOS

The economical choice

HiTEC analogue servos are the economical choice when it comes to equipping models economically and you don't want to compromise on quality.

These servos do not offer the modeller any programming options and the drive motors of analogue servos are low-cost DC brushed motors. The housing and often the gears are made of high-quality plastic, although metal housings are not used for cost reasons. Due to a low

motor control frequency, analogue servos only develop low 'running noises'. Another advantage is the low power. This protects the RC/drive batteries.

All servo types, technical data and further information can be found at www.multiplex-rc.de

HITEC
HS-series

**Analogue servos from the low price range,
equipped with brushed motors and a potentiome-
ter for position detection.**



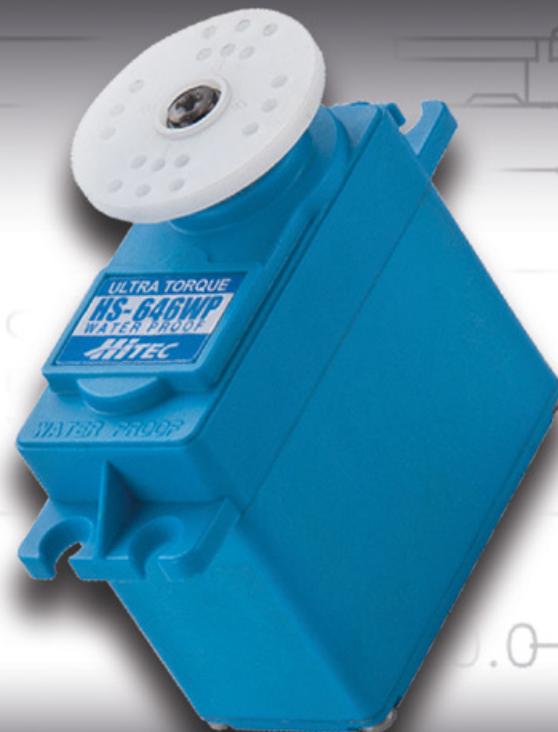
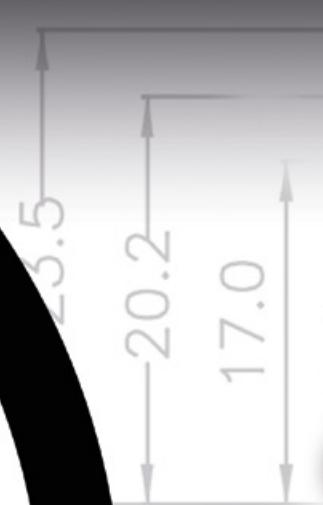
Analogue HS-Servos



HS-40 Information at 4,8 V					# 112040
Width mm	Weight gr	Stellzeit (s/60 deg)	Stellkraft kg/cm	Encoder	
8,60	4,80	0,09	0,60	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
6,00	Bell armature motor	-	15T (Ø4,0)	PWM	



HS-45HB Information at 4,8 V					# 112045
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder	
9,80	8,00	0,14	1,00	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
4,80	Brushed motor	-	15T (Ø4,0)	PWM	



HS-125MG

Information at 6,0 V

112125



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10,00	24,00	0,13	3,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	M25T (Ø5,0)	PWM

HS-53

Information at 6,0 V

112053



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	8,00	0,11	1,90	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	15T (Ø4,0)	PWM

HS-55 / 55+

Wire length 35 cm

Information at 6,0 V

55 # 112055

55+ # 1-01205



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	8,00	0,14	1,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	15T (Ø4,0)	PWM

HS-65HB / M

Wire length 35 cm

Information at 6,0 V

HB # 112065

HBM # 1-02232



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	11,20	0,11	2,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	M25T (Ø5,0)	PWM

**HS-65MG**

Information at 6,0 V

112066

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	12,50	0,11	2,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	M25T (Ø5,0)	PWM

**HS-70MG**

Information at 6,0 V

112070

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	12,50	0,14	3,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	M25T (Ø5,0)	PWM

**HS-81**

Information at 6,0 V

112081

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	16,60	0,09	3,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

**HS-82MG**

Information at 6,0 V

112088

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	19,00	0,10	3,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

**HS-85BB**

Information at 6,0 V

112085

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
13,00	19,20	0,14	3,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

**HS-85MG**

Information at 6,0 V

112086

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
13,00	21,90	0,14	3,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

**HS-225BB / MG**

Information at 6,0 V

BB # 112225
MG # 112226

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
16,80	27,70/31,00	0,13	4,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-422**

Information at 6,0 V

112422

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
19,80	45,50	0,16	3,90	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-430BH**

Information at 7,4 V

114430

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
19,80	45,50	0,14	5,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
7,40	Brushed motor	-	24T (Ø6,0)	PWM

**HS-485HB**

Information at 6,0 V

112485

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	45,00	0,18	6,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-625MG**

Information at 6,0 V

112625

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	55,20	0,15	6,80	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-645MG**

Information at 6,0 V

112645

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	55,20	0,20	9,60	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-311**

Information at 6,0 V

112311

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	43,00	0,15	3,70	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-322HD**

Information at 6,0 V

112325

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	43,00	0,15	3,70	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-325HB**

Information at 6,0 V

112325

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	43,00	0,15	3,70	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-646WP**

Information at 7,4 V

115646

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
21,00	60,00	0,17	11,60	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
7,40	Brushed motor	IP 67	24T (Ø6,0)	PWM

**HS-75BB**

Information at 6,0 V

112075

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
23,00	35,00	0,34	8,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-755HB**

Information at 6,0 V

112755

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
29,00	110,00	0,23	13,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-755MG**

Information at 6,0 V

112756

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
29,00	117,00	0,23	14,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-765HB**

Information at 6,0 V

112765

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
29,00	110,00	0,23	13,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-785HB**

Information at 6,0 V

112785

Width mm	Weight gr	max. Set. Speed s/360 Grad	max. Force kg/cm	Encoder
29,00	110,00	1,38	13,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	24T (Ø6,0)	PWM

**HS-805BB**

Information at 6,0 V

112805

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
30,30	152,00	0,14	24,70	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	15T (Ø8,0)	PWM

**HS-805MG**

Information at 6,0 V

112806

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
30,30	197,00	0,14	24,70	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	15T (Ø8,0)	PWM

**HSR series**

Analogue robotic servos with continuous rotation function.



Analogue HSR-Servos

**HSR-1425CR Continuous Rotation**

Information at 4,8 V

138114

Width mm	Weight gr	max. Set. Speed RPM	max. Force kg/cm	Encoder
19,80	41,70	43,4	2,80	-
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

**MS analogue servos**

MS-Servos (analogue/digi)

**MS-12020MG**

Information at 6,0 V

1-01654

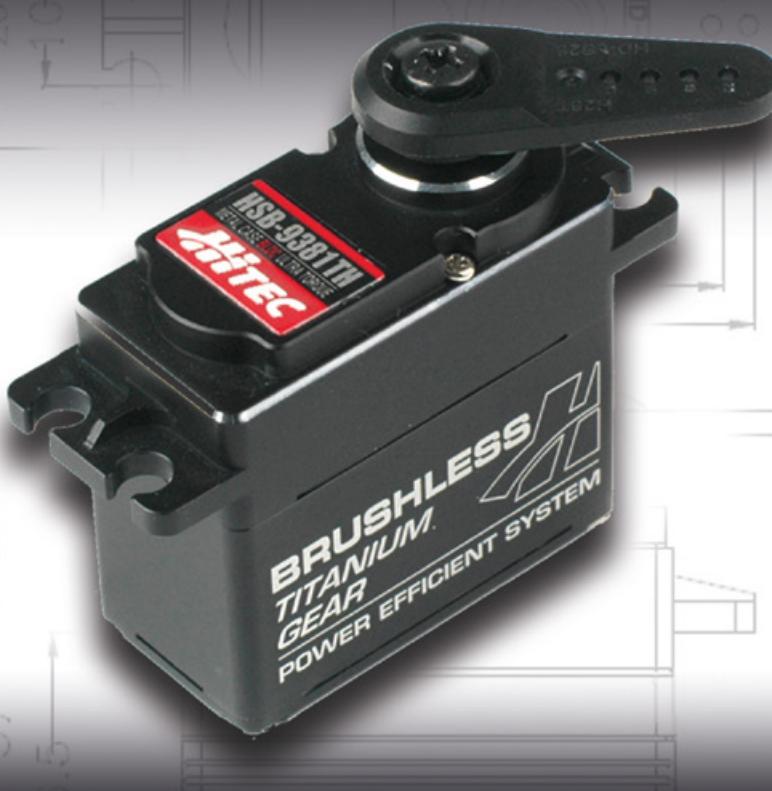
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,50	14,40	0,10	2,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

**MS-13020**

Information at 6,0 V

65114

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
13,20	14,20	0,17	3,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	25T (Ø5,9)	PWM



DIGITAL SERVOS



Digital servos
(all series)

For the highest demands.

Digital servos are located in the upper low to high price range. Depending on the model, very high-quality components are used, such as Hall sensors for position detection or brushless DC motors as drives. The motor control frequency is independent of the control frequency of the servo control and is usually 300-500Hz. This results in very small possible dead zones of up to 2ms. Digital servos also offer versatile programming and protection functions and, depending on the type, also

allow two-way communication (feedback). Digital servos also offer a whole range of advantages. For example, extremely high holding forces, super-fast response behaviour, extremely high accuracy or the option of high-voltage operation (HV)

All servo types, technical data and further information can be found at www.multiplex-rc.de

HS-5XXX-series

**Digital servos with anchor engine or brushed motors,
potentiometers for position detection
(partly with magnetic sensor)**



HS-5125MG Information at 6,0 V # 113125

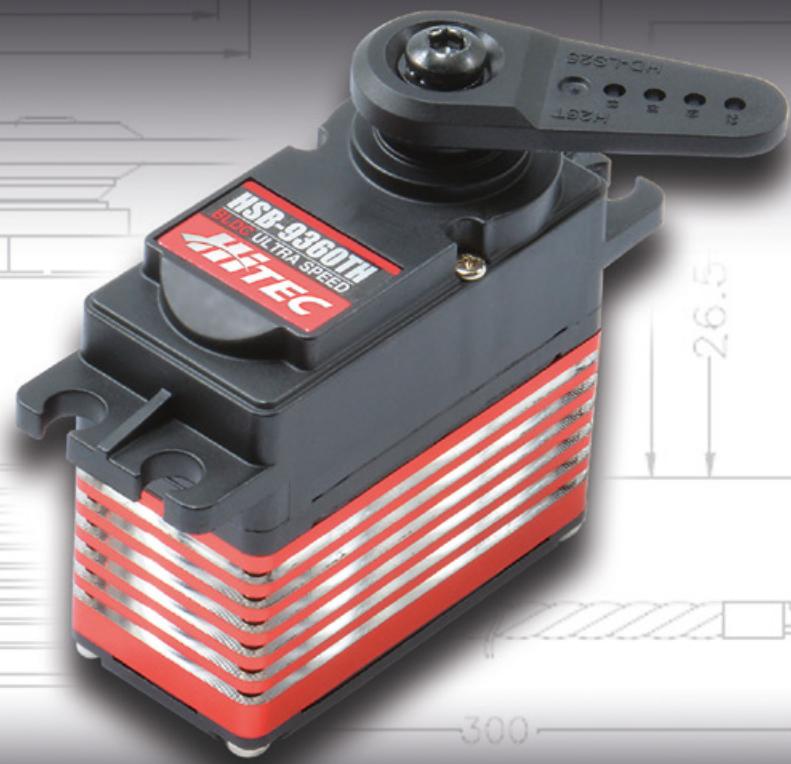
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10,00	24,00	0,14	3,30	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bürstenmotor	-	M25T (Ø5,0)	PWM



HS-5055MG Information at 6,0 V # 113055

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	9,50	0,17	1,60	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	15T (Ø4,0)	PWM

* The max. operating voltage is only recommended for short-term use

**HS-5065MG**

Information at 6,0 V

113065



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,6	11,90	0,11	2,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	M25T (Ø5,0)	PWM

HS-5070MH

Information at 7,4 V

113070



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	12,70	0,12	3,80	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	M25T (Ø5,0)	PWM

HS-5085MG

Information at 6,0 V

113085



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
13,00	21,90	0,13	4,30	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5087MH

Information at 7,4 V

114087



Width mm	Weight gr	Stellzeit (s/60 deg)	Stellkraft kg/cm	Encoder
13,00	21,90	0,13	4,30	Potentiometer
max. Voltage (V)*	Motor type	Waterproof	Gearing	Communication
8,40	Brushed motor	-	24T (Ø6,0)	PWM

* The max. operating voltage is only recommended for short-term use

**HS-5086WP**

Information at 6,0 V

115086

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
15,20	28,50	0,15	3,60	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5245MG

Information at 6,0 V

113245

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
16,80	32,00	0,12	5,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5495BH

Information at 7,4 V

114495

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	45,00	0,15	7,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5496MH

Information at 7,4 V

114496

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	52,00	0,15	7,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5585MH

Information at 7,4 V

114585

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	59,00	0,14	17,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	24T (Ø6,0)	PWM

HS-5625MG

Information at 6,0 V

113625

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	60,00	0,14	9,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HS-5645MG

Information at 6,0 V

113645

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	60,00	0,18	12,10	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM



HS-5646WP				Information at 7,4 V	# 115647
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder	
21,00	61,00	0,18	12,90	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
8,40*	Brushed motor	-	24T (Ø6,0)	PWM	

HS-7XXX series

Digital servos with anchor engine or brushed motors,
potentiometers for position detection



HS-7XXX series



HS-7245MH				Information at 7,4 V	# 114245
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder	
16,80	34,00	0,11	6,40	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
8,40*	Bell armature motor	-	24T (Ø6,0)	PWM	



HS-7954SH				Information at 7,4 V	# 114954
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder	
20,00	68,00	0,12	29,00	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
8,40*	Bell armature motor	-	24T (Ø6,0)	PWM	



HSG-8315BH				Information at 7,4 V	# 114315
Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder	
20,00	60,00	0,04	5,30	Potentiometer	
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication	
8,40*	Bell armature motor/Bürste	-	25T (Ø6,0)	PWM	

HS-7985MG

Information at 6,0 V

113987



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	62,00	0,13	12,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	24T (Ø6,0)	PWM

HS-7980TH

Information at 7,4 V

114980



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
22,40	78,20	0,17	44,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	24T (Ø6,0)	PWM


HiTEC
HSR series

Digital robotic servos with multi-turn and
and partly continuous rotation function.
Mostly equipped with a BLDC motor.



HSR series

HSR-2645CRH

Information at 7,4 V

138645



Width mm	Weight gr	max. Set. Speed ORPM	max. Force kg/cm	Encoder
20,00	53,00	72	12,00	-
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	24T (Ø6,0)	PWM

HSR-5980SG

Information at 7,4 V

138113



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	67,00	0,14	30,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
7,40	Brushed motor	-	24T (05,76)	PWM

HSR-M9382TH 360°

Information at 7,4 V

1-01251

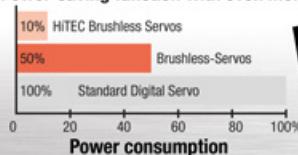


Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	72,00	0,14	34,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	H25T (06,0)	PWM

Brushless-Servos

Fuel Saver

Power-saving function with even more power



- 90% energy saving
- extreme holding forces
- super resolution

HiTEC
HSB series


HSB series

HSB-9360TH

Information at 7,4 V

116360



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	68,00	0,06	17,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (06,0)	PWM

HSB-9370TH

Information at 7,4 V

116370



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	68,00	0,10	25,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (06,0)	PWM

**HSB-9380TH**

Information at 7,4 V

116380

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	68,00	0,14	34,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (Ø6,0)	PWM

**HSB-9381TH Full Metal Case**

Information at 7,4 V

1-00074

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	78,00	0,14	34,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (Ø6,0)	PWM

**HSB-M9381TH Magnetic Encoder**

Information at 7,4 V

1-01191

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	78,00	0,14	34,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (Ø6,0)	PWM

**HSB-9465SH**

Information at 7,4 V

116465

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	62,00	0,07	13,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (Ø6,0)	PWM

**HSB-9485SH**

Information at 7,4 V

116485

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	62,00	0,15	26,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	-	25T (Ø6,0)	PWM

PDA Power Adsorbing Device

For HITEC HSB Brushless servos



116000



Digital servos with bell-type armature or brush motor.
The position is detected with the aid of a potentiometer.



D series

D-Series



Precision tools!



*Some functions are only available with recent D-series servos.

HIGHEST RESOLUTION 32bit MCU/12bit ADC

Realise maximum performance with our D-series servos!
Equipped with 32-BIT MCU and 12-bit technology from HiTEC,
these servos have a resolution of 4096 steps.

These servos also offer versatile programming and protection functions and, depending on the type, also allow two-way communication (feedback)*



4096
Resolution

D131MW

Information at 7,4 V

1-01494



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
8,50	9,80	0,11	2,90	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	M25T (Ø5,0)	PWM

D141SH

Information at 7,4 V

1-01496



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10,00	26,00	0,10	7,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	M25T (Ø5,0)	PWM

D145SW

Information at 7,4 V

1-00064



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10,00	24,00	0,14	7,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	M25T (Ø5,0)	PWM

D71MH

Information at 7,4 V

1-02660



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	12,50	0,13	4,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	M25T (Ø5,0)	PWM

D85MG

Information at 6,0 V

1-00068



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

13,00

24,00

0,13

4,30

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Brushed motor

-

24T (Ø6,0)

PWM

D89MW

Information at 7,4 V

1-00077



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

13,00

25,00

0,11

8,50

Magnetic Encoder

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Bell armature motor

-

25T (Ø6,0)

PWM

D485HW

Information at 7,4 V

1-00066



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

19,80

45,00

0,15

7,50

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Brushed motor

-

25T (Ø6,0)

PWM

D625MW

Information at 7,4 V

116625



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

20,00

60,00

0,13

10,00

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Brushed motor

-

25T (Ø6,0)

PWM

D645MW

Information at 7,4 V

116645



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

20,00

60,00

0,17

12,90

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Brushed motor

-

25T (Ø6,0)

PWM

D955CR

Information at 7,4 V

1-00705



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

20,00

63,90

0,12

24,50

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Bell armature motor

-

25T (Ø6,0)

PWM

D956WP

Information at 7,4 V

1-01323



Width mm

Weight gr

max. Set. Speed (s/60 deg)

max. Force kg/cm

Encoder

20,00

72,40

0,12

29,00

Potentiometer

max. Voltage (V)

Motor type

Waterproof

Gearing

Communication

8,40*

Bell armature motor

IP67

25T (Ø6,0)

PWM

* The max. operating voltage is only recommended for short-term use

**D940TW**

Information at 7,4 V

116940

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	68,00	0,07	16,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
7,40	Bell armature motor	-	25T (Ø6,0)	PWM

**D941TW Full Metal Case**

Information at 7,4 V

116941

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	80,00	0,07	16,50	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D946TW Full Metal Case**

Information at 7,4 V

116946

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	80,00	0,10	23,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D951TW Full Metal Case**

Information at 7,4 V

116951

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	80,00	0,14	35,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D954SW**

Information at 7,4 V

116954

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	66,00	0,12	29,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D955TW**

Information at 7,4 V

116955

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	66,00	0,12	29,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D646WP**

Information at 7,4 V

1-00072

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
21,00	61,00	0,16	11,60	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	IP67	25T (Ø6,0)	PWM

**D980TW**

Information at 7,4 V

116980

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
22,40	78,20	0,17	44,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**D845WP**

Information at 7,4 V

116845

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
32,00	227,00	0,17	50,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	IP67	15T (Ø8,0)	PWM

Hitec
DB series

Digital servos with powerful BLDC motors. The position is detected with the aid of a high-quality potentiometer.



DB series

**DB777WP**

Information at 7,4 V

1-01538

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
21,00	68,00	0,06	11,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	BLDC	IP67	25T (Ø6,0)	PWM

Hitec
MD series

Digital servos with bell armature motor or brushed motors. The position is predominantly detected with the aid of a Hall sensor. (Magnetic Encoder)



MD-B/R series

**MD141SH**

Information at 7,4 V

1-02852

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10,00	26,70	0,10	7,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø5,0)	PWM

**MD145SW**

Information at 7,4 V

1-01598

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
10	26,50	0,14	7,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	M25T (Ø5,0)	PWM

**MD65MG**

Information at 6,0 V

1-01600

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
11,60	11,50	0,11	2,20	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	25T (Ø5,0)	PWM

**MD89MW**

Information at 7,4 V

1-01237

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
13,00	25,50	0,11	8,50	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**MD250MW**

Information at 7,4 V

1-00707

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
14,80	38,30	0,13	7,50	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	25T (Ø6,0)	PWM

**MD245MW**

Information at 7,4 V

1-01247

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
16,80	32,60	0,11	6,40	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

**MD485HW**

Information at 7,4 V

1-01924

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
20,00	43,30	0,15	7,40	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	25T (Ø6,0)	PWM

**MD981TW**

Information at 7,4 V

1-01640

Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
22,40	94,20	0,17	44,00	Magnetic Encoder
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Bell armature motor	-	25T (Ø6,0)	PWM

* The max. operating voltage is only recommended for short-term use



Digital linear servos.

Ideal for functional modelling.

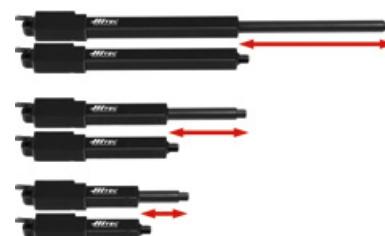
Linear servos are a speciality among digital servos. They are ideal for functional modelling. HiTEC linear servos originally come from our industrial division and fulfil various tasks in automation and robotics. The actuators are available in three different lengths (30, 50 and 100 mm stroke length) and in three different spindle pitches (1:50, 1:210, 1:380). Linear actuators with a short ratio of 1:50 are very fast, while those with a long ratio (1:380) are extremely powerful.

In model making, especially in functional model making, the servos can be used for many applications as, unlike other linear actuators on the market, they have an integrated position measuring system. The extension length can therefore be approached very precisely. This is done analogue to conventional servos via the PWM signal. 900us = fully retracted and 2100us = fully extended. Every position in between can be set precisely.

HLS12 Linear servos



HLS12 Servos



The operating voltage is 4.8-7.4V and here too we are within the usual modelling bandwidth. Typical applications in model making: stamps of lorries and crane models, tilting movements of skips or ladders, extending ladders, actuating gearsticks, steering movements, sliding movements of signs, etc.

All servo types, technical data and further information can be found at www.multiplex-rc.de



HLS12-3050 Information at 7,4V					# 1-02453
Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm	
30	34,00	30,90	3,10	18,00	
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication	
50:1	8,40*	Brushed motor	-	PWM	



HLS12-30210 Information at 7,4V					# 1-02454
Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm	
30	34,00	7,50	12,40	18,00	
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication	
210:1	8,40*	Brushed motor	-	PWM	

* The max. operating voltage is only recommended for short-term use

**HLS12-30380**

Information at 7,4 V

1-02455

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
30	34,00	4,10	22,00	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
380:1	8,40*	Brushed motor	-	PWM

**HLS12-5050**

Information at 7,4 V

1-02456

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
50	40,00	30,90	3,10	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
50:1	8,40*	Brushed motor	-	PWM

**HLS12-50210**

Information at 7,4 V

1-02457

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
50	40,00	7,50	12,40	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
210:1	8,40*	Brushed motor	-	PWM

**HLS12-50380**

Information at 7,4 V

1-02458

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
50	40,00	4,10	22,20	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
380:1	8,40*	Brushed motor	-	PWM

**HLS12-10050**

Information at 7,4 V

1-02459

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
100	56,00	30,90	3,10	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
50:1	8,40*	Brushed motor	-	PWM

**HLS12-100210**

Information at 7,4 V

1-02460

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
100	56,00	7,50	12,40	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
210:1	8,40*	Brushed motor	-	PWM

**HLS12-100380**

Information at 7,4 V

1-02461

Stroke Option mm	Weight gr	Speed at no Load mm/s	max. Force kg	Width mm
100	56,00	4,10	22,20	18,00
Übersetzung	max. Voltage (V)	Motor type	Waterproof	Communication
380:1	8,40*	Brushed motor	-	PWM

MULTIPLEX®**MS Digital servos**MS servos
(analogue/digi)**MS-8510 MG DIGI**

Information at 6,0 V

1-01724



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
8,00	6,20	0,06	1,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

MS-12014 DIGI

Information at 6,0 V

1-02984



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	10,00	0,12	1,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H40T (Ø4,85)	PWM

MS-12015 DIGI

Information at 6,0 V

1-02511



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	12,00	0,11	1,50	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

MS-12016 MG DIGI

Information at 6,0 V

1-00605



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	15,35	0,10	1,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

MS-12022 MG DIGI

Information at 6,0 V

1-02510



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	13,50	0,15	2,20	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	H24T (Ø6,0)	PWM

Nano Pro MG

Information at 6,0 V

65119



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
12,00	12,20	0,10	2,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
6,00	Brushed motor	-	Micro	PWM

RHINO pro SHV digi 4

Information at 6,0 V

65154



Width mm	Weight gr	max. Set. Speed (s/60 deg)	max. Force kg/cm	Encoder
29,00	163,00	0,15	25,00	Potentiometer
max. Voltage (V)	Motor type	Waterproof	Gearing	Communication
8,40*	Brushed motor	-	15T (Ø8,0)	PWM

* The max. operating voltage is only recommended for short-term use



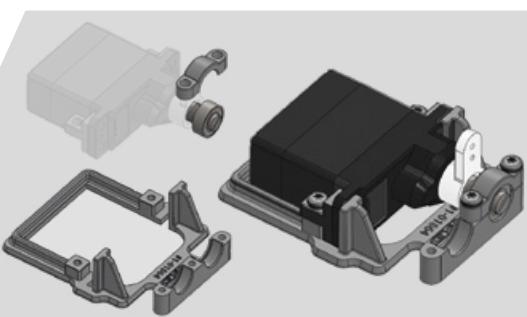
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