Type identification

YY-XXXXZZ

HS	=	HiTEC Servo
HSB	=	HiTEC Servo Brushless
HSG	=	HiTEC Servo Gyro
HSR	=	HiTEC Servo Robotic (Continous 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 Rotaton
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, 4.8V 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

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/counterclockwise)
• 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