



POWERBOX iSERVO HVC.45



The **PowerBox iServo HVC.45** was developed from scratch according to our specifications. Even the housing design shows that the new iServo is something special. Highest quality, maximum durability and, above all, maximum precision were the top priorities during development.

The **PowerBox iServo HVC.45** was designed for high starting torque, maximum reset accuracy and rock-solid holding accuracy

FEATURES

- + Ultra-precise servo with high torque
- + Advanced coreless technology
- + High-resolution Hall sensor
- + Large high-performance ball bearings
- + Solid hardened steel gears
- + Supports PWM, P²-BUS and S.BUS
- + Telemetry data with P²-BUS
- + Extensive options for parameter programming
- + Internal capacitors to suppress servo return current
- + Internal connector with screw-on retaining clip
- + Exceptional design
- + Developed in the EU, electronics 'Made in the EU'

using coreless technology. In conjunction with a high-precision Hall sensor, a special control algorithm was developed that is unrivalled in terms of positioning speed. There is no overshoot when reaching the target position with the **PowerBox iServo HVC.45**. The largest possible ball bearings on the 8 mm output shaft and solid hardened steel gears give our high-end servo the necessary durability.

The connection for the patch cable disappears completely into the housing, and a screwed clamp secures the plug. Cutting cables and soldering extensions is now a thing of the past.

The **PowerBox iServo HVC.45** has something unique to offer in terms of electronics: for the first time, two large capacitors are built into the servo. This effectively prevents reverse currents and, above all, provides energy for the motor when current peaks have to be absorbed due to the length of the cable.

The software puts the new iServo at the forefront of what is technically feasible. The **PowerBox iServo HVC.45** not only works with PWM standard, but also with the widely used S.BUS. However, the full functionality of the iServo can be utilised with the **P²-BUS**. The **P²-BUS** provides all telemetry data in real time on the transmitter display. In addition, the servo can be fully parameterised via the transmitter.

The setting options are huge: servo travel ($\pm 5000^\circ$), current limitation, hold characteristics, start-up characteristics and much more.

The settings can be made not only via our PowerBox transmitters, but also with the **PowerBox Mobile Terminal!**

SPECIFICATION

Operating voltage:	6.0-8.4V
Torque at 8.4V:	45 kg*cm
Speed at 8.4V:	0.12 s
Housing:	Aluminium
Motor:	Coreless motor
Gears:	Hardened steel
Bearings:	2x Ball bearings
Output shaft:	8 mm / 25T
Dimensions:	41.8 x 41.5 x 20 mm
Weight:	94 g

DIMENSIONS

